

TECHNICAL MANUAL

OPERATOR'S, UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL  
(INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST (RPSTL))  
FOR  
GROUND MOUNTS; MACHINE GUN MOUNTS; AND  
COMBINATIONS FOR TACTICAL/ARMORED VEHICLES

M122 MACHINE GUN TRIPOD  
(1005-00-710-5599) (EIC: 4EF)

M122A1 MACHINE GUN TRIPOD  
(1005-00-433-1617)

M192 MACHINE GUN TRIPOD  
(1005-01-503-0141)

M3 MACHINE GUN TRIPOD  
(1005-00-322-9716) (EIC: 4EA)

M142 MACHINE GUN MOUNT  
(1005-00-854-4463)

6650, .50 CALIBER, MACHINE GUN MOUNT  
(1005-00-704-6650)

M197 MACHINE GUN MOUNT  
(1005-01-413-4098)

MK64 MACHINE GUN MOUNT  
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MK93 MOD 0 MACHINE GUN MOUNT (USMC ONLY)  
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(1005-01-383-2757)

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**SUPERCEDURE NOTICE:** This Technical Manual supersedes TM 9-1005-245-13&P, dated 15 December 1994, with all changes and TM 9-1010-231-13&P, dated 31 October 2000, with all changes.

HEADQUARTERS, DEPARTMENTS OF THE ARMY,  
AIR FORCE, AND MARINE CORPS

APRIL 2005



**WARNING SUMMARY**

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It is essential that operational procedures for the machine gun be followed before installing on a mount. Dangerous procedures such as mounting, dismounting, cleaning, repairing, or operating a machine gun on a mount without first having knowledge of the operation on the machine gun and all safety precautions to be followed could result in injury or death of personnel. DO NOT attempt to mount, dismount, inspect, or repair a mounted machine gun without first clearing the machine gun chamber and feed-ways of ammunition.

Case is under spring tension. To avoid injury to personnel, do NOT release wrench until tension has been completely relieved from spring.

To avoid injury to eyes, use care when removing or installing spring-loaded parts.

To avoid injury to eyes, use safety glasses when grinding parts.

Do not keep live ammunition near work/maintenance area.

Cleaning solvent is FLAMMABLE and TOXIC and must be kept away from open flames and used in a well-ventilated area. Use of rubber gloves is necessary to protect the skin when washing weapons parts.

Appropriate eye protection is recommended when cleaning parts.

The canvas cover above the driver and passenger seats of any vehicle should always be in place when firing.

Firing on the move is not permitted from the M998 HMMWV (Cargo/Troop Carrier).

Ground personnel should not be within 10 meters of any HMMWV carrier when firing.

Firing on the move is restricted to 5 miles per hour cross-country and 10 miles per hour on improved roads when mounted on M1025 and M1026 HMMWV's (Armament Carriers).

Firing on the move from HMMWV/M113/M88A1/M106 or other vehicles is restricted to not more than 5 miles per hour on rough roads, trails or cross-country. Fire on the move shall not exceed 10 miles per hour for all conditions.

The MK19 shall be manned when mounted for operation in moving vehicles except when travel lock is engaged.

If it is necessary to disassemble the carriage from the cradle, reassemble exactly as shown. Reversing the relative positions of the carriage and cradle will prevent proper elevation of the assembly, creating serious hazard when firing high explosive ammunition.

When the train stop is used to control left and right traverse limits, check the machine guns left and right firing limit each time the gun is removed and reinstalled at that firing position. Firing beyond restricted limits can cause death, injury, or equipment damage.

A two-man lift is required for each M548 ammunition container that exceeds 50 pounds (22.68 kg) in weight.

Install soft-top when firing the MK19GMG. Visually inspect AET collar bolts. (M998T vehicle only.)

The plain hexagon nut and hexagon head machine bolt (also called the depression stop) must be in place when firing the MK19 MOD 3 for training. If the plain hexagon nut and hexagon head machine bolt are not installed, the weapon can be depressed below the safety limit of 200 meters elevation, thus endangering personnel.

**WARNING SUMMARY (cont)**

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Assistant gunner must clear spent cartridge casings from under tripod when firing M240B machine gun to prevent build-up that will eventually cause spin-back stoppages.

Spin-back stoppages may occur when firing blank ammunition from M240B machine gun.

Mounted machine gun may travel in a ready loaded position only when a gunner is present to control/operate weapon, or as direct by commanding officer/NCO.

Vehicle soft-top must be in place during all weapon-firing operations.

When firing from the M998 and/or M1025 family of vehicles, the pintle (WP 0009 00) will be properly secured to the M197 machine gun mount. When firing from M1025 family of vehicles with the M240B machine gun, the deflector plate will be installed on the ammunition adapter. When not in use the weapon will be secured with the travel lock.

Be sure to clear weapon before installing/removing weapon to mount.

All personnel within 20 meters of a weapon firing shall wear approved single hearing protection devices.

Ground personnel should not be within 10 meters of any vehicle when firing.

Firing on the move is not permitted from the M998 HMMWV (Cargo/Troop Carrier) (M240B only).

Firing on the move is restricted to cross-country and off road speeds no greater than 8 kph (5 mph) and improved road speeds no greater than 16 kph (10 mph). Depending on terrain, possibility exists for weapon operator to lose their balance and fall from the vehicle. Weapon operator shall insure no personnel are in an area 90° left/right of the weapon line-of-fire/firing fan. Target, target surface, angle of fire, and firing distance should be selected to minimize possibility of ricochet back toward personnel.

Ammunition containers should be removed during stowed transit. Vehicle vibration can cause containers/bandoleers to break/fall into vehicle.

When in stowed position, the M249 will be limited to a cumulative 4830 km (3000) miles or cross-country travel to avoid damage to the weapon. Weapons and mount shall be inspected after every 1000 rounds of firing and every day of driving.

Follow all local range safety procedures.

If it is necessary to disassemble the carriage from the cradle, reassemble exactly as shown in WP 0089 00. Reversing the relative positions of the carriage from the cradle will prevent proper elevation of the assembly, creating serious hazard when firing high explosive ammunition.

All personnel within 310 meters of impact area must wear a helmet and body armor. All personnel within 20 meters shall also wear eye protection and single hearing protection. Sleeves shall be rolled down and gloves worn.

Use the depression stop on the carriage and cradle assembly to prevent accidental muzzle depression.

Weapons shall be manned when mounted for operation in moving vehicles, except when travel lock is engaged. If weapon is not manned in a turret, the ring must be locked forward, the travel lock must be attached, and all adjustment screw must be tightened.

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Catch bag must be used when firing from a vehicle ring to prevent injury to driver/passengers.

Empty catch bag frequently during firing. If bag becomes too full, spent cases can jam the weapon causing stoppage or out-of-battery firing.

Install soft-top when firing MK 19. Visually inspect AET collar bolts. (M998T vehicle only)

M2 machine gun, MK 19 GMG and M558 ammunition containers require a two-man lift.

Firing the MK 19 GMG over open hatches is prohibited. Keep weapon pointed in a safe direction. Never stand in front of muzzle. Be sure line-of-fire is clear of objects.

The pedestal should be kept low in height adjustment (one hole exposed) when firing the MK 19 GMG. Stoppages can occur in the higher positions, especially in cold temperatures. Movement of the pedestal during recoil interferes with the recoil action of the MK 19. The M2 has also shown this problem in cold temperatures.

The depression stop (plain hexagon nut and hexagon head machine bolt) must be in place when firing the MK 19 GMG. If the depression stop are not installed the weapon can be depressed below the safety limit of 200 meters elevation, thus endangering personnel.

Cleaning solvent is FLAMMABLE and TOXIC and must be kept away from open flames and used in a well-ventilated area. Use of rubber gloves is necessary to protect the skin when washing weapons parts.

Appropriate eye protection is recommended when cleaning parts.

Appropriate eye protection is required when performing any maintenance procedures.

The operator must ensure the legs of the tripod are securely emplaced in the ground, with or without sandbags, prior to and during firing.

When firing without sandbags, the gunner must expect the tripod's front leg to lift slightly from emplaced position.

The use of this mount configuration is not authorized for overhead fire training without application of modification required in accordance with SOUM 04-007. Death or serious injury can occur. Contact TRADOC for further information.

For additional first aid data, see FM 21-11.

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HEADQUARTERS,  
DEPARTMENTS OF THE ARMY,  
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WASHINGTON D.C., 17 APRIL 2005

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**MK93 MOD 2 MACHINE GUN MOUNT (1005-01-502-7547)**

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Tripod Frame Assembly (13001671) .....	0135 00
Leg Assembly, Left (13001694).....	0136 00
Leg Assembly, Right (13001708) .....	0136 00
Traversing and Elevating Mechanism (13001738) .....	0137 00
Mounting Bracket Assembly (13001717).....	0138 00

**M3 TRIPOD**

M3 Machine Gun Tripod (Assembled View) (8403398) .....	0139 00
M3 Machine Gun Tripod (8403398) .....	0140 00
M3 Machine Gun Tripod (8403398) .....	0141 00
Head, Bearing Assembly (8448211) .....	0141 00
Bolt Machine (6108395) .....	0141 00
Leg Assembly, Right (6507136).....	0142 00
Leg Assembly, Left (6507137) .....	0142 00
Leg Assembly, Front (5559423).....	0143 00
Latch, Pintle (6108402) .....	0144 00
Traversing and Elevating Mechanism (5830128)	
Traversing and Clamping Unit .....	0145 00
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**M142 MACHINE GUN MOUNT**

M142 Machine Gun Mount (Assembled View) (10900945) .....	0147 00
M142 Machine Gun Mount (10900945) .....	0148 00
Platform Assembly (10900947).....	0148 00
Adapter, Gun Mounting (12598081).....	0149 00

**6650, .50 CALIBER MACHINE GUN MOUNT**

6650, .50 Caliber Machine Gun Mount (Assembled View) (7046650).....	0150 00
6650, .50 Caliber Machine Gun Mount (7046650).....	0151 00
Ammunition Box Tray Assembly (6590078).....	0152 00

**M197 MACHINE GUN MOUNT**

M197 Machine Gun Mount (Assembled View) (12956264) .....	0153 00
M197 Machine Gun Mount (12956264) .....	0154 00
Travel Lock Assembly (12956265-2) .....	0155 00
Bracket Assembly, Travel Lock (5830063) .....	0156 00
Pintle Adapter Assembly (5830131).....	0157 00
Parts Kit, Adapter Assembly (13008479).....	0158 00
Ammo Adapter Bracket Assembly (12986106).....	0159 00

**MK64 MACHINE GUN MOUNT (MOD 5 AND 9)**

MK64 Machine Gun Mount, MOD 5 (5831467) .....	0160 00
MK64 Machine Gun Mount, MOD 9(12972474) .....	0160 00
Carriage and Cradle Assembly (5830052) .....	0161 00
Cradle and Bushing Assembly (5830134) .....	0161 00
Pintle Lock Assembly (5830116) .....	0161 00
Universal Pintle Adapter (12012061) .....	0162 00
Traverse Arm Assembly (12012089) .....	0162 00
Body Assembly (12012062).....	0162 00
Caliber .50 Mounting Adapter Assembly (5830097) .....	0163 00
Platform Assembly (5831546) .....	0164 00
Catch Bag Assembly (6650759) .....	0165 00
Ammunition Box Mounting Tray Assembly (5830093) .....	0166 00
Ammunition Box Mounting Tray Assembly (5830114) .....	0166 00
Multipurpose Ammunition Can Bracket Assembly (12929150) .....	0167 00
Train and Elevation Assembly (5830123).....	0168 00

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MK93 MOD 1 Machine Gun Mount (6680717) .....	0169 00
MK93 MOD 2 Machine Gun Mount (13001175) .....	0169 00
Carriage and Cradle Assembly (6650450) .....	0170 00
MK93 Dual Machine Gun Mount (13001176) .....	0170 00
Dual Mount Carriage Assembly (6650434).....	0171 00
Depression Stop Assembly (6650651) .....	0171 00
.50 Caliber Ammunition Holder Assembly (6650724).....	0172 00
Catch Bag Assembly (6650723) .....	0173 00
 BULK Materiel .....	 0174 00
 Index (Part Number).....	 0175 00
Index (National Stock Number).....	0176 00

**CHAPTER 12 – COMPONENTS OF THE END ITEM; BASIC ISSUE ITEMS;  
ADDITIONAL AUTHORIZED LIST AND EXPENDABLE DURABLE ITEMS LIST**

Components of the End Item and Basic Issue Items.....	0177 00
Additional Authorized List.....	0178 00
Expendable Durable Items List .....	0179 00
Index (alphabetical).....	0180 00

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## HOW TO USE THIS MANUAL

**GENERAL.** In order to use this manual efficiently, there are several things you need to know.

- All references in the manual are to work packages or to another manual.
- Whenever the male gender is mentioned (i.e., crewman, repairman) in the manual, it also pertains to females.
- Procedures apply to all models unless otherwise noted.

**INDEXES.** This manual is organized to help you quickly find the information you need. There are several useful indexes.

- Table of Contents. Lists in order all chapters, work packages, and appendixes.
- Nomenclature Cross Reference List. Gives an alphabetical list of the common names that are substituted for the official nomenclature in the manual.
- Chapter Overviews. Summarize material covered in the chapter.
- Troubleshooting Symptom Index. Lists in alphabetical order parts of the weapon with possible malfunctions. References work package pages of the troubleshooting table.
- Alphabetical Index. Located at the end of the manual. An extensive subject index for everything in the manual. It gives work package references.

**MAINTENANCE PROCEDURES.** Each mount is located separately in a chapter. The chapter contains operator instructions, and both unit and direct support maintenance procedures. Each maintenance procedure has an initial setup containing a list of the following things you will need in order to do your maintenance task.

- Tool and Special Tools. List tool kit and tools not found in your tool kit.
- Material/Parts. Lists expendable/durable materials and 100% replaceable parts. A part number or work package reference follows each material or part. If more than one part is needed, the quantity needed will follow the part number or reference.
- References. List other publications containing necessary information.
- Equipment Condition. Lists conditions to be met before starting a procedure. The reference following the condition is the work package reference to instructions for setting up the condition.
- Maintenance Procedures. Step-by-step illustrated procedures for maintenance authorized by the Maintenance Allocation Chart (MAC), WP 0121 00.

TM 9-1005-245-13&P

**CHAPTER 1**  
**OPERATOR GENERAL INSTRUCTIONS**  
**FOR ALL TRIPODS AND MOUNTS**

TM 9-1005-245-13&P

**GENERAL INFORMATION FOR MOUNTS**

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**SCOPE**

Type of Manual: Operator, Unit and Direct Support Maintenance Manual.

Model Number(s) and Equipment Name:

- M122 Machine Gun Tripod
- M122A1 Machine Gun Tripod
- M192 Machine Gun Tripod
- M3 Machine Gun Tripod
- M142 Machine Gun Mount
- 6650 .50 Cal Machine Gun Mount
- M197 Machine Gun Mount
- MK64 Machine Gun Mount (MOD 5, 9)
- MK93 MOD 0 Machine Gun Mount (USMC only)
- MK93 MOD 1 Machine Gun Mount
- MK93 MOD 2 Machine Gun Mount

Purpose of Equipment: To provide a stable weapon support system for use on tactical/armored vehicles, and ground mounting applications of various weapon systems.

**MAINTENANCE FORMS, RECORDS, AND REPORTS.** Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA PAM 738-750, The Army Maintenance Management System (TAMMS). Air Force users will use procedures prescribed in TO 00-35D-54, USAF Material Deficiency Reporting and Investigating System. Marine Corps users will use procedures prescribed in TM 4700-15/1, Equipment Record Procedures.

**REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR).** If your machine gun needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design or performance. Put in an SF 368 (Product Quality Deficiency Report). Mail it to us at Commander, Armament Research, Development and Engineering Center, ATTN: AMSTA-AR-QAW-A (R), 1 Rock Island Arsenal, Rock Island, IL 61299-7630. Air Force users submit Materiel Deficiency Report (MDR) and Quality Deficiency Report (QDR) to: Director, Materiel Management, Robins AFB, GA//MMQC// in accordance with TO 00-35D-54, Technical Manual, USAF, Materiel Deficiency Reporting and Investigating System. Marine Corps users submit QDR'S on SF 368 in accordance with MCO 4855.10 to Commanding General, Marine Corps Logistics Base (Code 808), Albany, GA 31704-5000.

**GENERAL INFORMATION FOR MOUNTS**

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**CORROSION PREVENTION AND CONTROL (CPC).** Corrosion prevention and control of material is a continuing concern. It is important that any corrosion problems with this item be reported so that the problem can be corrected and improvements can be made to prevent the problem in the future. While corrosion is typically associated with rusting of metals, it can also include deterioration of other materials such as rubber and plastic. Unusual cracking, softening, swelling, or breaking of these materials may be a corrosion problem. If a corrosion problem is identified, it can be reported using SF 368, Product Quality Deficiency Report. Use of key words such as “corrosion”, “rust”, “deterioration”, or “cracking” will assure that the information is identified as a CPC problem. The form should be submitted to Commander, Armament Research, Development and Engineering Center, ATTN: AMSTA-AR-QAW-A/Customer Feed back Center, 1 Rock Island Arsenal, Rock Island, IL 61299-7300. Air Force users submit Material Deficiency Report (MDR) to Dir Mat Mgt Robins AFB GA/MMQC//IAW Technical Order 00-35D-54, Technical Manual, USAF, Materiel Deficiency Reporting and Investigating System. Marine Corps users reference TM 3080-12.

**DESTRUCTION OF MATERIEL TO PREVENT ENEMY USE.** Procedure and materials used for the destruction of a mount to prevent enemy use will be found in TM 750-244-7.

**PREPARATION FOR STORAGE AND SHIPMENT.** Tripods and mounts should be placed in their stowed positions for shipment. Refer to individual work packages (where applicable).

**OFFICAL NOMENCLATURE, NAMES, AND DESIGNATIONS.**

<u>Common Name</u>	<u>Official Name</u>
Equilibrator spring.....	Torsion spiral spring
Flexible wire .....	Non-electrical wire
Helical torsion spring.....	Torsion helical spring
Traverse and Elevation Mechanism (T&E).....	Elevating mechanism
Pintle lock cap .....	Pintle socket cap
Remote control lever .....	Manual control lever
Retaining pin .....	Spring pin
Roller bearing .....	Plain solid disk
Seal .....	Mechanical felt
Traversing and Elevating mechanism.....	Elevating and traversing mechanism

**QUALITY OF MATERIAL.** Material used for replacement, repair, or modification must meet the requirements of TM 9-1005-245-13&P. If the quality of material requirements is not stated in TM 9-1005-245-13&P, the material must meet the requirements of the drawings, standards, specifications, or approved engineering changes proposals applicable to the subject equipment.

**SAFETY, CARE AND HANDLING.** Not applicable.

**OPERATION UNDER USUAL CONDITIONS**

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**GENERAL**

This work package applies to all machine gun tripods, mounts and combinations for tactical/armored vehicles found in this manual.

**SECURITY MEASURES FOR ELECTRONIC DATA.** Not applicable.

**OPERATING PROCEDURES**

Refer to the specific chapter for your tripod/mount.



**OPERATION UNDER UNUSUAL CONDITIONS**

---

This work package applies to all machine gun tripods, mounts and combinations for tactical/armored vehicles found in this manual.

**GENERAL**

In addition to the normal preventive maintenance service found in each chapter, special care in cleaning and lubrication must be observed where extremes of temperature, humidity, and atmospheric conditions are present or anticipated. Proper cleaning, lubrication, and storage and the use of oils and lubricants not only ensure proper operation and functioning but also guard against excessive wear of the working parts and deterioration of the materiel.

When chronic failure of the materiel results from subjection to extreme conditions, report of such chronic failure should be made on DA Form 2407, Maintenance Request.

**SECURITY MEASURES FOR ELECTRONIC DATA**

Not applicable.

**OPERATION IN EXTREME COLD WEATHER**

When operating in cold climates, all gun mounts should be thoroughly cleaned and dried. If possible, cleaning and lubrication should be performed in a warm place, allowing equipment to warm to room temperature. Leave no unfinished metal surfaces exposed without a protective layer of solid film lubricant (SFL) (item 10, WP 0178 00). Make a thorough inspection and provide as much protection as possible for all parts. Lubricate daily; operate mount/tripod frequently through entire range of motion to help prevent freezing.

Ensure carrying bags are in good condition and provide as much cover for the equipment as possible.

When equipment is protected with a cover, moisture may form on metal surfaces. To prevent rusting, remove the cover daily and inspect all surfaces for moisture and or ice. If found, clean and dry the surface thoroughly and coat sparingly with SFL (item 10, WP 0179 00) (except the T&E).

For Artic operations, refer to FM 9-207, Operation and Maintenance of Ordnance Materiel in Cold Weather (0° – 65°F).

**OPERATION IN EXTREME HOT WEATHER**

In hot climates, inspect and clean the materiel as frequently as required rather than at fixed intervals.

Clean and lubricate as soon as possible after operation to prevent corrosion.

**OPERATION IN EXTREME DUSTY OR SANDY CONDITIONS**

Inspect and clean the materiel more frequently when operating under sandy or dirty conditions; however, lubricant should be applied sparingly, as oil will collect dust and sand, which act as abrasives. Lubricate only moving parts.

Use particular care to keep sand and dirt out of the T&E when performing inspection, lubrication, or adjustments or repairs.

Keep the materiel covered as much as the tactical situation permits. Make sure that the cover is in good condition and fastens securely.

**OPERATION UNDER UNUSUAL CONDITIONS (cont)**

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**OPERATION IN RAINY, HUMID, AND SALT AIR CONDITIONS**

The moisture in the atmosphere will emulsify the lubricants and destroy their corrosion-preventative qualities. Therefore, perform inspection, cleaning, and lubrication more frequently and carefully. Salt in the air, such as occurs in salt-water areas, adds to the corrosive activity of moisture. Salty atmosphere conditions require extra precautions when inspecting, cleaning, and lubricating materiel. Lubricate all points as often as necessary to prevent corrosion.

Inspect, clean, air, and dry canvas covers more frequently.

**EMERGENCY PROCEDURES.** Not applicable.

**LUBRICATION**

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**GENERAL**

This work package applies to all machine gun tripods, mounts and combinations for tactical/armored vehicles found in this manual.

**WARNING**

Cleaning solvent is FLAMMABLE and TOXIC and must be kept away from open flames and used in a well-ventilated area. Use of rubber gloves is necessary to protect the skin when washing weapons parts.

Appropriate eye protection is recommended when cleaning parts.

**NOTE**

Lubrication instructions are mandatory. Do not mix lubricants on the same mount. The mount must be thoroughly cleaned during change from one lubricant to another. Cleaning solvent (available to unit maintenance) (item 17, WP 0179 00) is recommended for cleaning during change from one lubricant to another. Only lubricants and cleaners specified in this manual are authorized for use on all mounts/tripods.

Clear ammunition from machine gun and remove machine gun from the machine gun mount.

Remove ammunition tray (detachable type trays only).

Remove the machine gun mount from the pintle socket.

Thoroughly clean all components of the machine gun mount.

Wipe dry, and lubricate following the steps appropriate for each type of mount.

Refer to the specific chapter for your mount for any additional requirements.

**MACHINE GUN MOUNTS**

Lubricate the securing pins, travel lock pin, screws, hinge pins, locking cam, and guide grooves on the ammunition trays weekly with general purpose lubricating oil (item 13, WP 0179 00).

Lubricate all exposed metal surfaces weekly with a light coat of general purpose lubricating oil (item 13, WP 0179 00).

Lubricate the pintle shank weekly with a light coat of automotive and artillery grease (item 9, WP 0179 00).



**CLEANING**

---

**GENERAL**

This work package applies to all machine gun mounts and combinations for tactical/armored vehicles and ground mounts found in this manual.

**WARNING**

Cleaning solvent is **FLAMMABLE** and **TOXIC** and must be kept away from open flames and used in a well-ventilated area. Use of rubber gloves is necessary to protect the skin when washing gun mount parts.

Appropriate eye protection is recommended when cleaning your weapon or its parts.

Fill a suitable container with cleaning solvent (item 17, WP 0178 00). Using a bristle brush, clean dirt, grease and residue from all surfaces. Dry all surfaces with clean dry wiping rags (item 14, WP 0179 00).

**CAUTION**

When using abrasive cloth, make certain not to remove too much metal, as this will change the dimension of components.

Using abrasive cloth (item 4, WP 0179 00), remove paint and rust from quick release and secure pins, sides of holes, pintle shanks, and sockets.

Lubricate in accordance with WP 0004 00 and specific tripod/mount work packages for location of lubricating points (as applicable).



**TROUBLESHOOTING PROCEDURES**

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**GENERAL**

This work package applies to all machine gun tripods, mounts and combinations for tactical/armored vehicles found in this manual.

Tables list the common malfunctions that you may find during operation or maintenance. You should perform the test/inspections and corrective actions in the order listed.

Common malfunctions, including the specific test, inspection and corrective action, are listed in each chapter for your specific mount.

This manual cannot list all malfunctions that may occur, nor all tests or inspections and corrective actions. If a malfunction is not listed or is not corrected by listed corrective actions, notify your supervisor.

Corrosion problems shall be reported in accordance with WP 0001 00.

Refer to lubrication instructions (WP 0004 00) and specific tripod/mount chapter for location of lubricating points (as applicable).

**Troubleshooting Procedure Tables**

<b><u>System</u></b>	<b><u>Work Package</u></b>
M122 Machine Gun Tripod and M122A1 Machine Gun Tripod .....	WP 0011 00
M192 Machine Gun Tripod .....	WP 0025 00
M3 Machine Gun Tripod .....	WP 0036 00
M142 Machine Gun Mount.....	WP 0049 00
6650, .50 Caliber, Machine Gun Mount .....	WP 0057 00
M197 Machine Gun Mount.....	WP 0066 00
MK64 Machine Gun Mount (MOD 5 and 9) .....	WP 0073 00
MK93 MOD 0; MK93 MOD 1; and MK93 MOD 2 Machine Gun Mount.....	WP 0107 00



## **OPERATOR PREVENTIVE MAINTENANCE CHECKS AND SERVICES**

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### **GENERAL**

This work package applies to all machine gun tripods, mounts and combinations for tactical/armored vehicles found in this manual.

Your PMCS table has been provided so you can keep your equipment in good operating condition and ready for its primary use. Refer to the chapter for your mount for specific requirements.

### **INTRODUCTION TO PMCS TABLE**

#### **WARNINGS AND CAUTIONS**

Always observe WARNINGS and CAUTIONS appearing in your PMCS table BEFORE, DURING, and AFTER you operate your equipment. The warning and cautions appear before certain procedures. You must observe these WARNINGS and CAUTIONS to prevent injury to yourself and others or to prevent your equipment from being damaged.

#### **EXPLANATION OF TABLE ENTRIES**

**Item Number Column.** Numbers in this column are for reference. When completing DA Form 2404, Equipment Inspection and Maintenance Worksheet, include the item number for the check/service indicating a fault. Item numbers also appear in the order that you must do checks and services for the intervals listed.

**Interval Column.** This column tells you when you must do the procedure in the procedure column. BEFORE procedures must be done before you operate or use the equipment for its intended mission. DURING procedures must be done during the time you are operating or using the equipment for its intended mission. AFTER procedures must be done immediately after you have operated or used the equipment.

**Man-hour Column.** This column shows man-hours required to complete all prescribed lubrication services, stated to the nearest tenth of an hour.

**Item to be Checked Column.** This column provides the location and the item to be checked or serviced.

**Procedure Column.** This column gives you the procedure you must do to check or service the item listed in the Item to Check/Service column to determine if the equipment is ready or available to perform its intended mission or for operation. You must do the procedure at the time stated in the interval column.

**“Not Fully Mission Capable If:” Column.** Information in this column tells you what faults will keep your equipment from being capable of performing its primary mission. If you make check and service procedures that show faults listed in this column, do not operate the equipment. Follow standard operating procedures for maintaining the equipment or reporting equipment failure.

**OPERATOR PREVENTIVE MAINTENANCE CHECKS AND SERVICES**

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**Operator Preventive Maintenance Checks and Services Tables**

<u>System</u>	<u>Work Package</u>
M122 Machine Gun Tripod and M122A1 Machine Gun Tripod .....	WP 0012 00
M192 Machine Gun Tripod.....	WP 0026 00
M3 Machine Gun Tripod.....	WP 0037 00
M142 Machine Gun Mount .....	WP 0050 00
6650, .50 Caliber, Machine Gun Mount .....	WP 0058 00
M197 Machine Gun Mount .....	WP 0067 00
MK64 Machine Gun Mount (MOD 5 and 9).....	WP 0074 00
MK93 MOD 0; MK93 MOD 1; and MK93 MOD 2 Machine Gun Mount .....	WP0108 00

**SERVICE UPON RECEIPT**

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Upon receipt of materiel, it is the responsibility of the officer in charge to determine whether the materiel has been properly prepared for service by the supplying organization, and to be sure it is in condition to perform its function. For this purpose, inspect all assemblies, subassemblies, and accessories to be sure they are properly assembled, secured, correctly adjusted, cleaned, and lubricated.

Before materiel is activated, perform the following procedures:

- Check the equipment against the packing slip to see if the shipment is complete. Report all discrepancies in accordance with DA PAM 738-750.
- Inspect the equipment of damage incurred during shipment. If the equipment has been damaged, report the damage on SF 364, Report of Discrepancy (ROD).
- Perform Operator PMCS. Refer to work package for your specific mount.
- Clean and lubricate for appropriate climatic condition.
- Check for proper operation. Refer to work package for your specific tripod/mount.



**CHAPTER 2**  
**M122 MACHINE GUN TRIPOD**  
**AND**  
**M122A1 MACHINE GUN TRIPOD**

TM 9-1005-245-13&P

**TM 9-1005-245-13&P**

**OPERATOR  
INSTRUCTIONS**

TM 9-1005-245-13&P

**EQUIPMENT DESCRIPTION AND DATA FOR  
M122 MACHINE GUN TRIPOD, NSN 1005-00-710-5599, P/N 7790723 AND  
M122A1 MACHINE GUN TRIPOD, NSN 1005-01-433-1617, P/N 12976948**

**EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES**

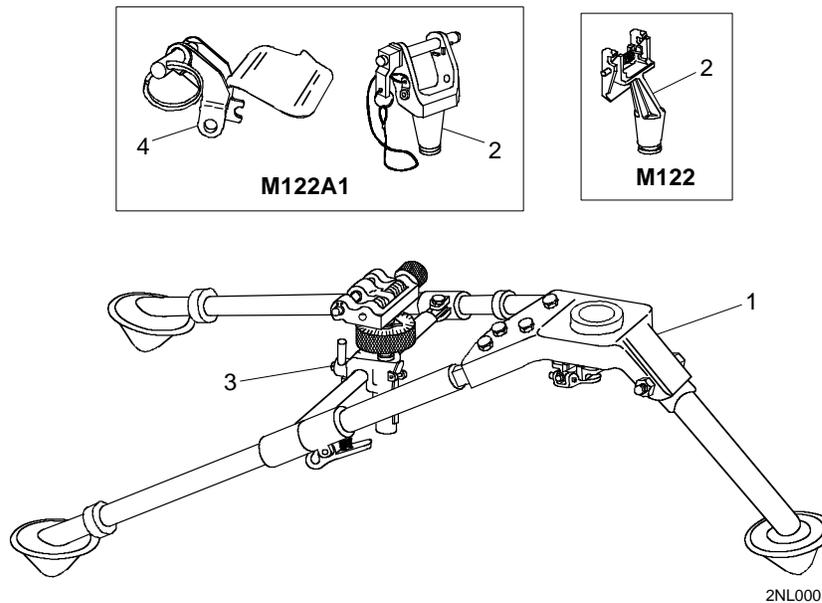
**M122/M122A1 Machine Gun Tripod Mount**

The M122 tripod is a component assembly designed as a defensive ground mounting system for the M60 machine gun, M240G machine gun (with the M240E1 flexible mount assembly (Marine Corps only)), and M249 squad automatic weapon system (SAWS) (with adapter assembly) in the light machine gun role.

The M122A1 tripod is a component assembly designed as a defensive ground mounting system for the M240B and M249 SAWS machine guns.

Both tripods provide a stable and relatively lightweight base that is superior to the bipod legs of the weapon. The tripods consist of a folding tripod leg assembly, pintle, and traversing and elevating mechanism (T&E). The tripods are capable of accepting various adapters.

**LOCATION AND DESCRIPTION OF MAJOR COMPONENTS**



**TRIPOD LEG ASSEMBLY (1) (M122/M122A1)** – Consists of three tubular folding legs connected at the head assembly. The rear legs are joined together by the traversing bar assembly. The head assembly furnishes a front support for the machine gun through a pintle (2) attached to the machine gun and tripod.

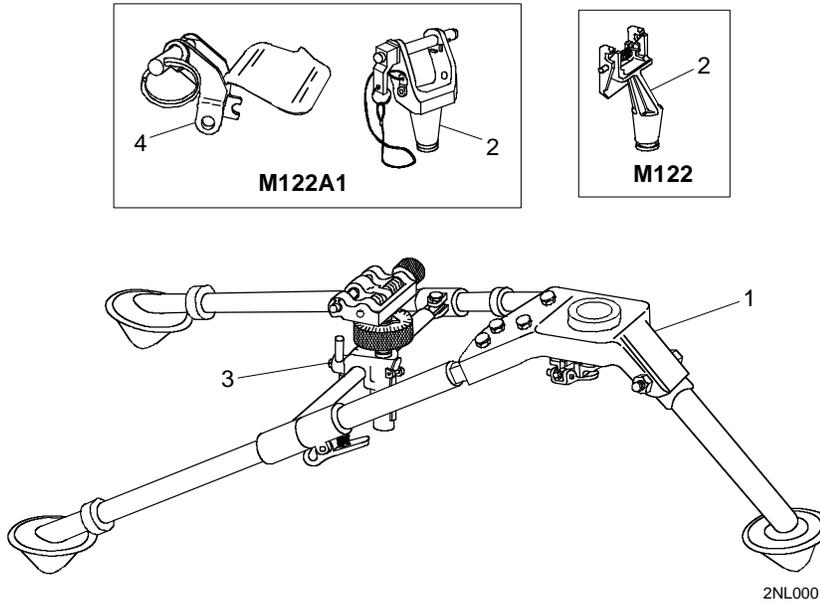
**PINTLE ASSEMBLY (2) (M122)** – Provides a means of attaching the M249 (SAWS) in the light machine gun role and M60 machine gun. The pintle locks into the brass-bushing sleeve in the tripod head assembly of the tripod. Weapons attach by means of a spring loaded clamping spring on the pintle.

**PINTLE ASSEMBLY (2) (M122A1)** – Provides a means of attaching the M240/M249 machine gun. The pintle locks into the brass-bushing sleeve in the tripod head assembly of the tripod. Weapons attach by means of a quick release pin on the pintle.

**EQUIPMENT DESCRIPTION AND DATA FOR  
M122 MACHINE GUN TRIPOD, NSN 1005-00-710-5599, P/N 7790723 AND  
M122A1 MACHINE GUN TRIPOD, NSN 1005-01-433-1617, P/N 12976948**

**TRaversing AND ELEVATING MECHANISM (3) (M122/M122A1)** – Provides a means of controlled manipulation, and the ability to engage predetermined targets. Consists of a lock assembly, elevation assembly, and traversing assembly. Specific adapters must be used with the T&E for various weapons.

**ADAPTER ASSEMBLY (4) (M122A1)** – Consists of a fork assembly and deflector, to deflect ejected cartridges cases from the M240B machine gun.



Gun mount adapter (Addition Authorized Equipment (AAL)) is used with the M122 pintle when mounting a M60 machine gun. For maintenance procedures of the gun mount adapter refer to WP 0069 00; for repair parts refer to WP 0158 00.

**EQUIPMENT DATA**

M122 (7790723) and M122A1 (12976949) Machine Gun Tripods

Weight – M122.....	15.00 lb (6.80 kg)
M122A1 .....	14.8 lb (6.71 kg)
Elevation – (free gun).....	996 mil (+56 degrees)
(locked T&E).....	247 mil (+14 degrees)
Depression - (free gun).....	996 mil (-56 degrees)
(locked T&E).....	200 mil (-12 degrees)
Traverse - (free gun).....	6400 mil (360 degrees)
(w/traversing bar).....	875 mil (50 degrees)
(w/traverse wheel (fine adjustment).....	100 mils (6 degrees)

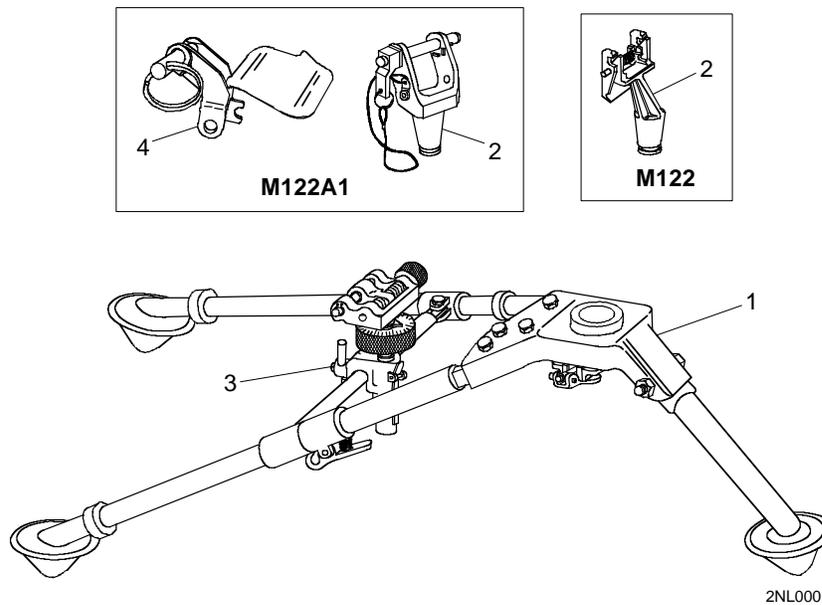
**DESCRIPTION AND USE OF OPERATOR'S CONTROLS AND INDICATORS**

Not Applicable.



**THEORY OF OPERATION FOR  
M122 MACHINE GUN TRIPOD, NSN 1005-00-710-5599, P/N 7790723 AND  
M122A1 MACHINE GUN TRIPOD, NSN 1005-01-433-1617, P/N 12976948**

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Both the M122 and M122A1 tripods (1) have three tubular folding legs connected at the head assembly. The head assembly provides a support base for the machine gun through a pintle attached to the weapon and tripod. Each leg end has a metal shoe that can be stamped into the ground, for stability. The rear legs are joined together by the traversing bar assembly. The traversing bar assembly is hinged on one side; with an adjustable sleeve and sleeve latch on the other. This allows the tripod to collapse to a closed position for carrying and storage; or to lock in an open position for use. The traversing bar serves as a rear support for the traversing and elevating mechanism (T&E) (3), that in turn supports the machine gun. When in the M122A1 configuration the T&E has an adapter assembly (4) attached, to deflect ejected cartridge cases from the M240B machine gun. The T&E requires an adapter for the M60 (WP 0158 00) and M249 (WP 0131 00) machine guns when used on the M122 machine gun tripod.

The T&E mechanism (3) is used to engage pre-selected target areas. Direction and elevation readings can be obtained from the traversing bar and the T&E mechanism. A scale shows approximately 250-mil depression and 100-mil elevation, graduated in 5 mil increments. In traverse it is numbered every 100-mils from 0 (center) to 450-mils (left) and 425-mils (right). Graduation movements of the hand wheel are synchronized to the upper elevating screw. The T&E is locked to the traversing bar by the traversing lever. The T&E is properly mounted when the traversing lever is to the rear and the traversing hand wheel is to the left.

The M122 machine gun tripod utilizes the M240E1 flexible machine gun mount for the M240G machine gun (USMC only).



**TROUBLESHOOTING PROCEDURES FOR  
M122 MACHINE GUN TRIPOD AND M122A1 MACHINE GUN TRIPOD**

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**Table 1. Troubleshooting Procedures for  
M122 Machine Gun Tripod and M122A1 Machine Gun Tripod****TRIPOD****SYMPTOM**

Legs will not fully extend and/or lock.

**MALFUNCTION**

Leg(s) are dirty, bent or broken.

**CORRECTIVE ACTION**

Clean (WP 0005 00) and lubricate (WP 0004 00), touch-up any shiny areas with solid film lubricant (SFL) (item 10, WP 0179 00). Notify unit maintenance for repair/replacement.

**SYMPTOM**

Leg latch will not lock leg in fully extend position.

**MALFUNCTION**

Latch is dirty, rusted, or missing parts.

**CORRECTIVE ACTION**

Clean (WP 0005 00) and lubricate (WP 0004 00), touch-up any shiny areas with SFL (item 10, WP 0179 00). Notify direct support maintenance for repair/replacement.

**SYMPTOM**

Leg(s) is loose.

**MALFUNCTION**

Leg(s) will not hold in set position.

**CORRECTIVE ACTION**

Notify unit maintenance for repair/replacement.

**TROUBLESHOOTING PROCEDURES FOR  
M122 MACHINE GUN TRIPOD AND M122A1 MACHINE GUN TRIPOD**

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**Table 1. Troubleshooting Procedures for  
M122 Machine Gun Tripod and M122A1 Machine Gun Tripod (cont)****PINTLE****SYMPTOM**

Pintle will not insert into bushing on tripod head.

**MALFUNCTION**

Pintle socket is dirty, distorted, or missing.

**CORRECTIVE ACTION**

Clean (WP 0005 00) and lubricate (WP 0004 00), touch-up any shiny areas with SFL (item 10, WP 0179 00). Notify unit/direct support maintenance for repair.

**SYMPTOM**

Pintle latch will not lock pintle into place.

**MALFUNCTION**

Pintle lock assembly is burred, dirty, broken or missing.

**CORRECTIVE ACTION**

Clean (WP 0005 00) and lubricate (WP 0004 00), touch-up any shiny areas with SFL (item 10, WP 0179 00). Notify unit maintenance for repair/replacement.

**SYMPTOM**

Mounting (quick release) pin(s) will not lock into pintle yoke.

**MALFUNCTION**

Pins are dirty, bent or broken.

**CORRECTIVE ACTION**

Clean (WP 0005 00) and lubricate (WP 0004 00). Notify unit maintenance for repair/replacement.

**TRAVERSING AND ELEVATING (T&E) MECHANISM**

**SYMPTOM**

Scales are illegible.

**MALFUNCTION**

Scales are faded, dirty or missing.

**CORRECTIVE ACTION**

Clean (WP 0005 00) and lubricate (WP 0004 00). Notify unit maintenance for repair/replacement.

**SYMPTOM**

T&E will not elevate and/or traverse.

**MALFUNCTION**

T&E is dirty, rusty, or broken.

**CORRECTIVE ACTION**

Clean (WP 0005 00) and lubricate (WP 0004 00), touch-up any shiny areas with SFL (item 10, WP 0179 00). Notify unit/direct support maintenance for repair/replacement.

**END OF WORK PACKAGE**



**OPERATOR PREVENTIVE MAINTENANCE CHECKS AND SERVICES FOR  
M122 MACHINE GUN TRIPOD AND M122A1 MACHINE GUN TRIPOD**

**Table 1. Operator Preventive Maintenance Checks and Services  
for M122 Machine Gun Tripod and M122A1 Machine Gun Tripod**

**NOTE**

There are no replacement parts required for these PMCS procedures.

Item	Interval	Man-Hours	Item to be Checked	Procedures	Not Ready/ Available If:
1	Before/ After		Tripod Mount	<p>Emplace mount. Ensure legs are properly latched and held in rigid position. Check for any missing or broken parts.</p> <p>Ensure scale on traversing bar is legible.</p> <p>Check to ensure pintle latch locks pintle in bushing on head assembly.</p> <p>Check to ensure pintle rotates freely and without binding.</p> <p>Check tripod mount for cleanliness and proper lubrication.</p>	<p>Parts are broken or missing, preventing safe use of tripod mount.</p> <p>Scale is not legible.</p> <p>Pintle will not lock into bushing.</p> <p>Pintle will not rotate or binds.</p> <p>Mount is dirty and/or not properly lubricated.</p>
2	Before/ After		Leg(s), Tripod	<p>Ensure legs are not bent, and that sleeve latch will securely lock the rear legs in the open position.</p>	<p>Leg(s) are bent; sleeve latch will not securely lock the rear legs in the open position.</p>
3	Before/ After		Pintle	<p>Check to ensure pintle will insert into bushing and rotates freely.</p> <p>Check quick release pin for bends and breaks.</p>	<p>Pintle will not insert into bushing. Pintle binds.</p> <p>Quick release pin is bent, broken or will not retain weapon to T&amp;E.</p>
4	Before/ After		Traversing and Elevating Mechanism	<p>Elevate and depress T&amp;E to ensure operation without binding.</p> <p>Ensure scales are legible; securely attached.</p> <p>Ensure T&amp;E moves free in both directions on traversing bar.</p>	<p>T&amp;E will not elevate and/or depress; T&amp;E binds.</p> <p>Scales are not legible or are loose.</p> <p>Movement binds in either direction.</p>

**OPERATOR PREVENTIVE MAINTENANCE CHECKS AND SERVICES FOR  
M122 MACHINE GUN TRIPOD AND M122A1 MACHINE GUN TRIPOD**

**Table 1. Operator Preventive Maintenance Checks and Services  
for M122 Machine Gun Tripod and M122A1 Machine Gun Tripod (cont)**

Item	Interval	Man- Hours	Item to be Checked	Procedures	Not Ready/ Available If:
5	Before/ After		M122/M122A1 Tripod Assembly	Check for loose or broken parts. Tighten as necessary.  Clean all surfaces with dry rag (item 14, WP 0179 00).  Check for shiny or bare surfaces, and corrosion. If present, clean with cleaning compound (item 17, WP 0178 00) and touch-up with SFL (item 10, WP 0179 00).	Parts are missing or broken.  Surfaces are dirty.  Corrosion and/or shiny/bare surfaces are present.
				Lightly lubricate all moving parts and unpainted surfaces.	Surfaces are not lubricated.

**NOTE**

If you are part of a rapid deployment or divisional combat unit, you can touch up no more than one-third of the tripod with SFL. If more than one-third of the finish is gone, you should turn-in the tripod for replacement. All other units can touch-up 100% of the tripod.

**END OF WORK PACKAGE**

## OPERATOR INSTRUCTIONS FOR M122 MACHINE GUN TRIPOD AND M122A1 MACHINE GUN TRIPOD

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### GENERAL

The M122 machine gun tripod includes the following items:

- Tripod Leg Assembly, P/N 7790948
- Traversing and Elevating Mechanism Assembly, P/N 7791119
- Pintle Assembly, P/N 11010408

Additional Authorized List:

- Fork Assembly, Tripod, P/N 9378233 (used with the M249 Machine Gun)
- Adapter Assembly, P/N 13008479 (used with the M60 Machine Gun)

The M122A1 machine gun tripod includes the following items:

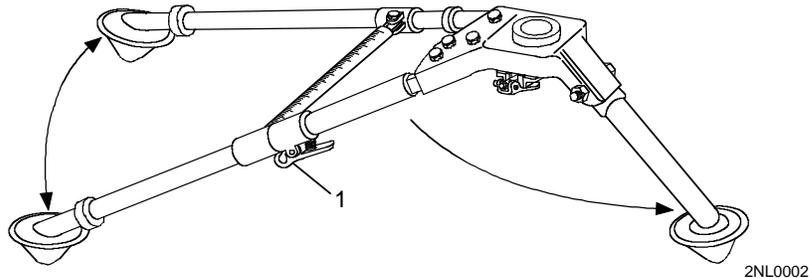
- Tripod Leg Assembly, P/N 7790948
- Traversing and Elevating Mechanism Assembly, P/N 7791119
- Pintle Assembly, P/N 12986102
- Adapter Assembly, P/N 12990570

### PLACING INTO OPERATION

#### NOTE

Set-up of the M122 and M122A1 machine gun tripods are the same, except where identified. M122A1 configuration is shown for illustration purposes only.

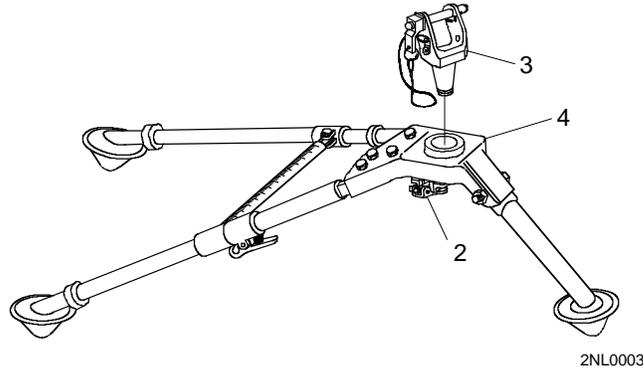
Expand the two rear legs outward until you hear the sleeve latch (1) engage, locking the legs in the expanded position. Turn the front leg fully forward.



**OPERATOR INSTRUCTIONS FOR  
M122 MACHINE GUN TRIPOD AND M122A1 MACHINE GUN TRIPOD (cont)**

**PLACING INTO OPERATION (cont)**

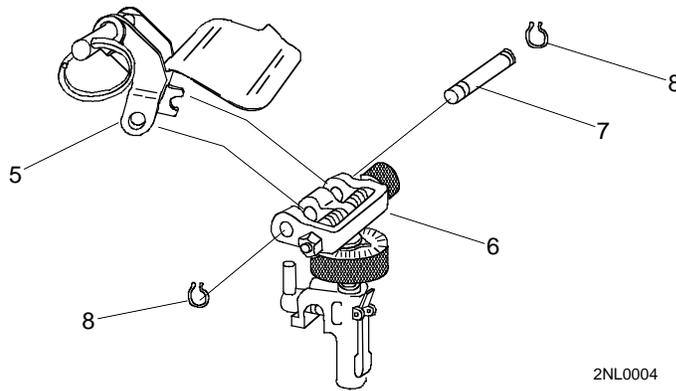
Depress pintle lock (2) and insert the pintle assembly (3) into the bushing on tripod head (4). Release pintle lock (2) to secure the pintle assembly to tripod.



**NOTE**

Adapter assembly (5) applies only to the M122A1 machine gun tripod. The tripod fork assembly (not shown) used with the M249 machine gun is attached in the same manner.

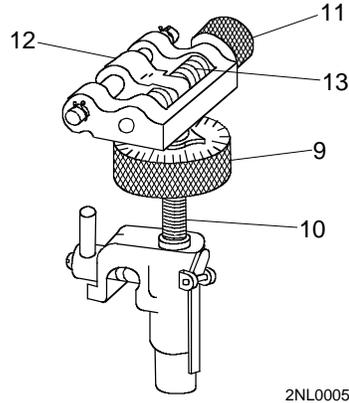
Align holes in adapter assembly (5) to traversing and elevating mechanism (6), insert pin (7) through the T&E and fork assembly. Install retaining clips (8).



**NOTE**

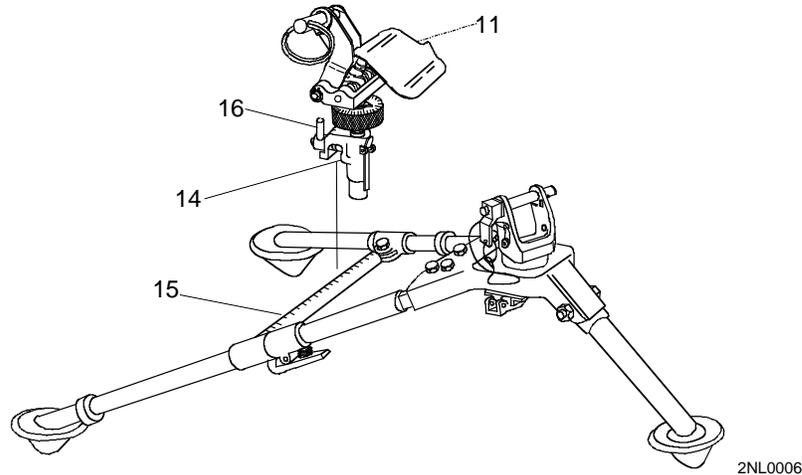
Fork assembly has been removed for clarity.

Turn the elevating knob (9) until approximately 1 1/2 inches (approx. width of two fingers) of the lower elevating screw (10) is visible. Turn the traversing knob (11) until the yoke (12) is centered on the traversing screw (13). The T&E is now roughly centered.



2NL0005

Lower the T&E sleeve (14) over the traverse bar (15) with the traverse lever (16) to the rear and traversing knob (11) to the left. Tighten traverse lever (16) to secure to traverse bar (15). When the T&E is properly mounted to the traverse bar, the traverse lever (16) is to the rear and the traverse knob (11) is to the left.



2NL0006

## OPERATOR INSTRUCTIONS FOR M122 MACHINE GUN TRIPOD AND M122A1 MACHINE GUN TRIPOD (cont)

### PLACING INTO OPERATION (cont)

#### NOTE

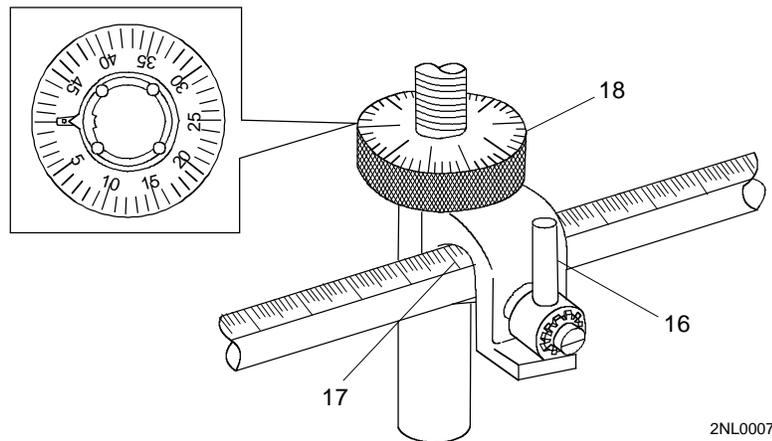
Readings on the traverse bar shall be taken on the left side of the T&E.

To make traverse changes loosen the traverse lever (16) and slide the T&E (right or left) from the zero index (17) on the traverse bar. (Allows 400 mils traverse left or right of the zero index (17)).

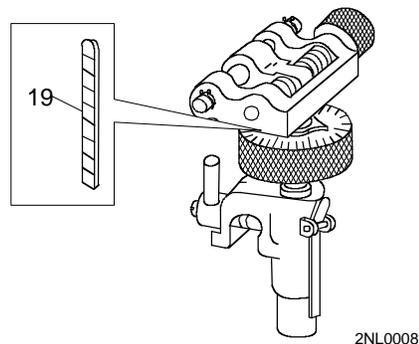
#### NOTE

To make a bold adjustment of the elevation (more than 50-mils) rotate the entire elevating screw assembly.

To make a deflection change of 50 mils or less turn the traversing hand wheel (18) of the screw assembly. The elevating hand wheel is marked in 1-mil increments (0 to 50); one click of the hand wheel equals 1 mil in elevation of the weapon barrel.

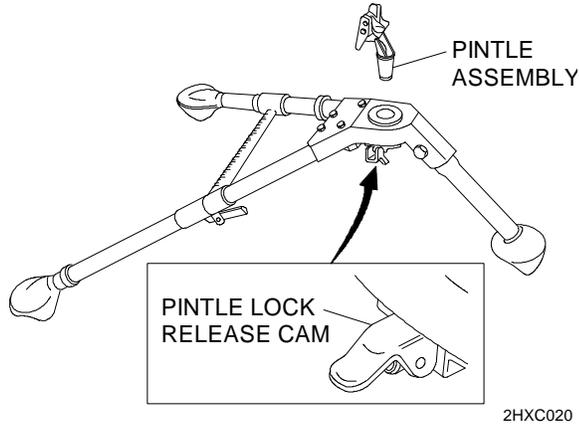


A scale (19), graduated in mils, is fitted to the upper screw to indicate elevation. The scale shows 200-mils of depression and 200-mils of elevation from the zero setting.



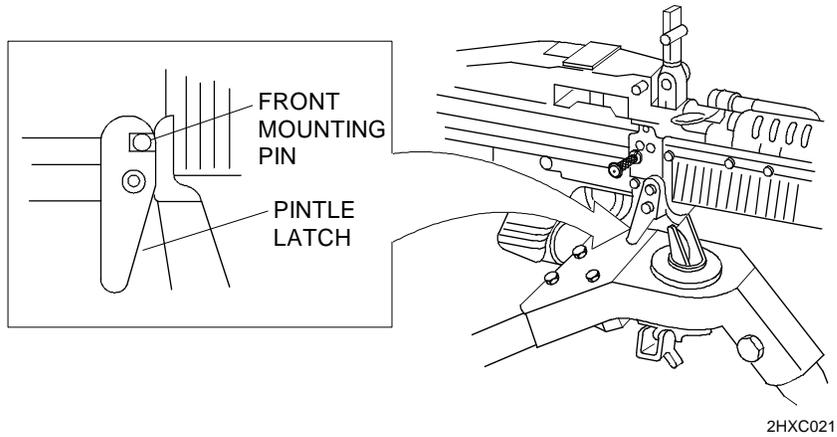
**MOUNTING OF THE M60 MACHINE GUN TO M122 TRIPOD**

Insert pintle assembly. Rotate pintle lock release cam to lock (see FM 23-67).



Place ends of machine gun's front mounting pin on top of pintle assembly.

Press bottom of latch to open pintle assembly. The ends of machine gun mounting pin should lock in place on pintle assembly.



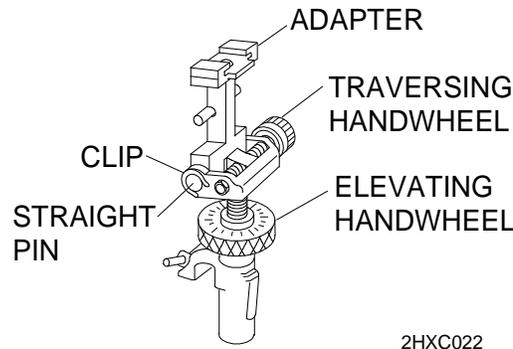
**OPERATOR INSTRUCTIONS FOR  
M122 MACHINE GUN TRIPOD AND M122A1 MACHINE GUN TRIPOD (cont)**

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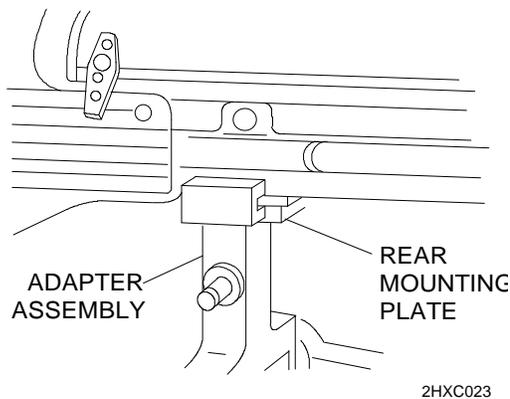
**MOUNTING OF THE M60 MACHINE GUN TO M122 TRIPOD (CONT)**

Attach gun mount adapter to Traversing and Elevating Mechanism using straight pin and clips.

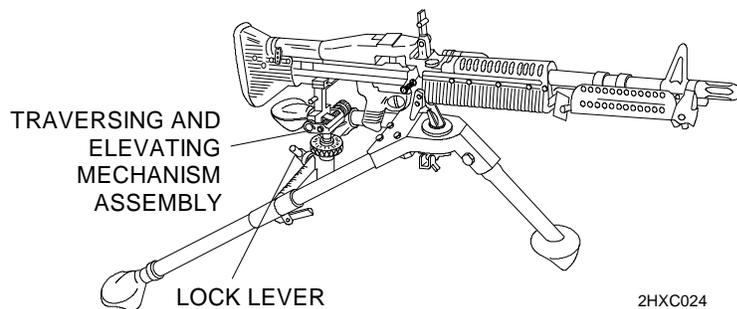
Center (zero) traversing hand-wheel and elevating hand-wheel on traversing and elevating mechanism assembly (see FM 23-67).



Slide adapter assembly on machine gun's rear mounting plate from the rear to the front.



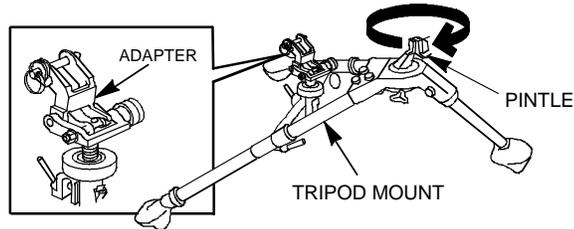
Position traversing and elevating mechanism assembly on traversing bar. Rotate lock lever to secure. Reference TM 9-1005-224-10 and FM 3-22.68 for additional information.



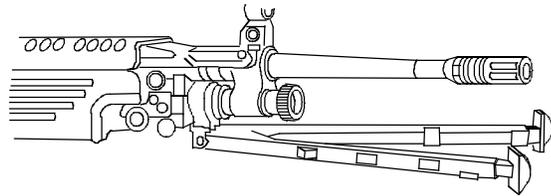
**MOUNTING OF M249 MACHINEGUN ON M122 TRIPOD W/ADAPTER ASSEMBLY WHEN USED IN THE LMG ROLE**

The weapon can be fitted on the M122 Tripod by means of a special adapter.

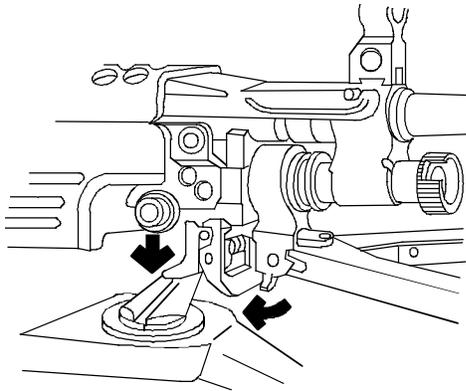
- Assure release lever of the pintle is forward.
- Assure Adapter Assembly yoke is rearward.
- Adjust elevation ring of T&E mechanism to midway.



Extend Bipod forward.



Engage the mounting pin of the gun into the pintle of the tripod by squeezing the locking lever of the pintle.



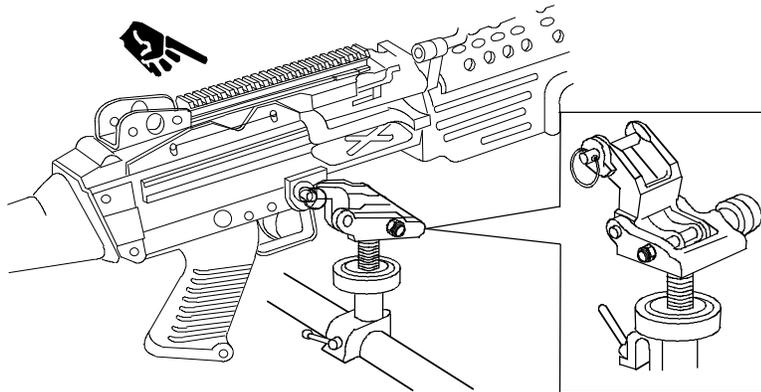
## OPERATOR INSTRUCTIONS FOR M122 MACHINE GUN TRIPOD AND M122A1 MACHINE GUN TRIPOD (cont)

### MOUNTING OF M249 MACHINEGUN ON M122 TRIPOD W/ADAPTER ASSEMBLY WHEN USED IN THE LMG ROLE (cont)

Above the trigger guard there is a hole thru the trigger mechanism. Engage this part of the machine gun into the fork of the adapter assembly and push in the locking pin.

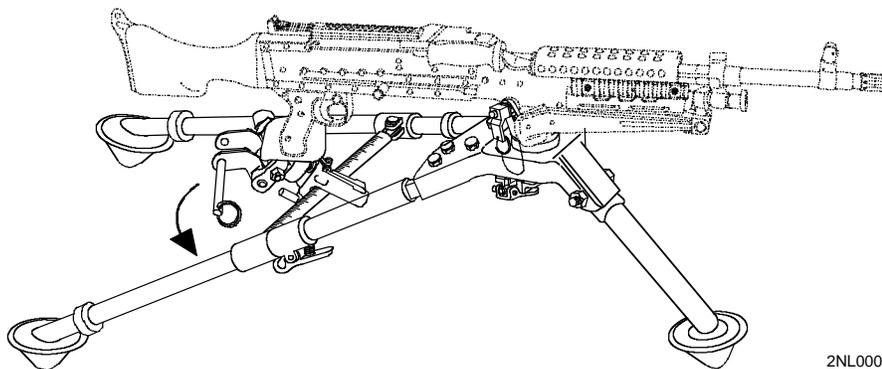
When mounted on the tripod, ammunition can be attached to the weapon using an adapter.

- Insert adapter in magazine well.
- Pull back on adapter to ensure its retention by the magazine door.



### FREE GUN

M240 and M249 Machine Guns: Pull quick release pin clear from rear of weapon receiver, loosen traverse lever and allow the T&E mechanism to rotate downward. Gun is now free to rotate a full 360°, if needed. To reengage, align the T&E mechanism to the rear mounting point of the weapon and push the quick release pin through until secured.



2NL0009

M60 Machine Gun: Slide adapter assembly rearward from weapons rear mounting plate. To reengage, slide adapter assembly on machine gun's rear mounting plate from the rear to the front.

**TAKING OUT OF OPERATION**

Clear the weapon in accordance with applicable weapons manual. Remove the quick release pin from both the front and rear mounting points of the weapon. Remove the weapon from the tripod.

Use non-electrical wire to attach pintles, T&E, adapters, etc. to tripod, to ensure components are kept together.

**PREPARATION FOR MOVEMENT**

Disengage the pintle lock and remove pintle assembly. Turn traversing lever counterclockwise until loose, and lift the T&E mechanism from the traverse bar. Depress the sleeve latch and fold the rear legs together, fold the front leg rearward.

**END OF WORK PACKAGE**



## **UNIT MAINTENANCE**



**UNIT MAINTENANCE FOR  
M122 MACHINE GUN TRIPOD NSN 1005-00-710-5599, P/N 7790723 AND  
M122A1 MACHINE GUN TRIPOD, NSN 1005-00-433-1617, P/N 12976948**

---

**INITIAL SETUP**

This task covers: a. Inspection/Repair b. Cleaning c. Refinishing d. Lubrication

**Tools and Special Tools:**

Tool Kit, Small Arms Repairman,  
PN SC 5180-95-B71

**Materials/Parts (cont):**

Lubricant, Solid Film, (item 10, WP 0179 00)  
Rag, Wiping, (item 14, WP 0179 00)  
Solvent, Cleaning, (item 17, WP 0179 00)

**Materials/Parts:**

Cleaner, Lubricant and Preservative, (CLP),  
(item 3, WP 0179 00)

**Equipment Condition:**

Mount components separated.

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**INSPECTION/REPAIR**

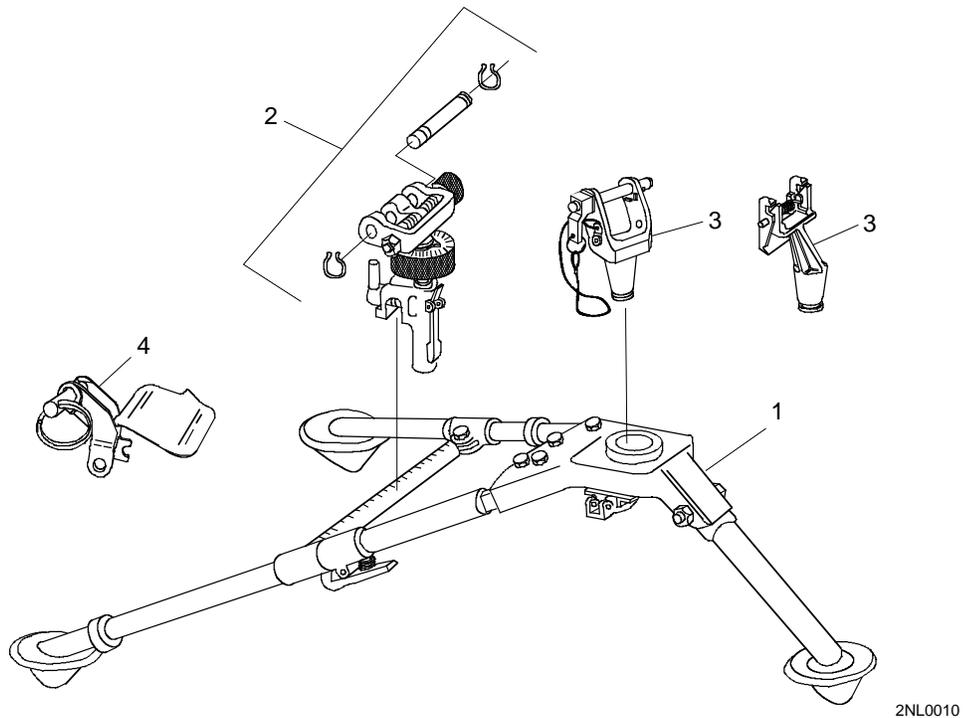
Inspect for broken, damaged, or missing parts.

Tripod leg assembly (1) is repairable, refer to WP 0015 00.

Traversing and elevating mechanism (2) is a repairable assembly, refer to WP 0016 00.

Pintle mount (3) is a repairable assembly, refer to WP 0017 00/WP 0018 00.

Adapter assembly (4) (M122A1 only) is a repairable assembly, refer to WP 0019 00.



**UNIT MAINTENANCE FOR  
M122 MACHINE GUN TRIPOD MOUNT, NSN 1005-00-710-5599, P/N 7790723 AND  
M122A1 MACHINE GUN TRIPOD MOUNT, NSN 1005-00-433-1617, P/N 12976948 (cont)**

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**CLEANING**

Clean tripod components with CLP, wipe dry, and apply light coat of CLP.

**REFINISHING**

**NOTE**

Deploying or combat units may touch-up no more than one third of the tripod with SFL. If more than one third of the surface needs touch-up turn the tripod in for replacement (free issue). All other units may touch-up the entire tripod.

Refinish any shiny spots on tripod leg assembly. Clean the surface with cleaning solvent. Apply solid film lubricant in accordance with manufacturers instructions, and allow SFL to dry. Apply light coat of CLP.

**LUBRICATION**

Apply light coat of CLP to all surfaces.

**END OF WORK PACKAGE**



## UNIT MAINTENANCE FOR TRIPOD LEG ASSEMBLY, NSNA, P/N 7790948 (cont)

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### INSPECTION/REPAIR

#### NOTE

Tripod is a Class VII item, replaceable to unit at no cost.

Inspect for broken, damaged, or missing parts.

Pintle lock assembly (3) is a repairable assembly. Notify direct support maintenance.

If head (4) is cracked or damaged, repair is by replacement of the next higher assembly.

Repair is by replacement of authorized parts.

### CLEANING

Clean all components with CLP, wipe dry and apply light coat of CLP.

### REFINISHING/LUBRICATION

Clean area to be refinished with cleaning solvent, wipe dry, and touch-up with SFL. Allow to dry per manufacturer's instructions. Apply light coat of CPL.

### REASSEMBLY

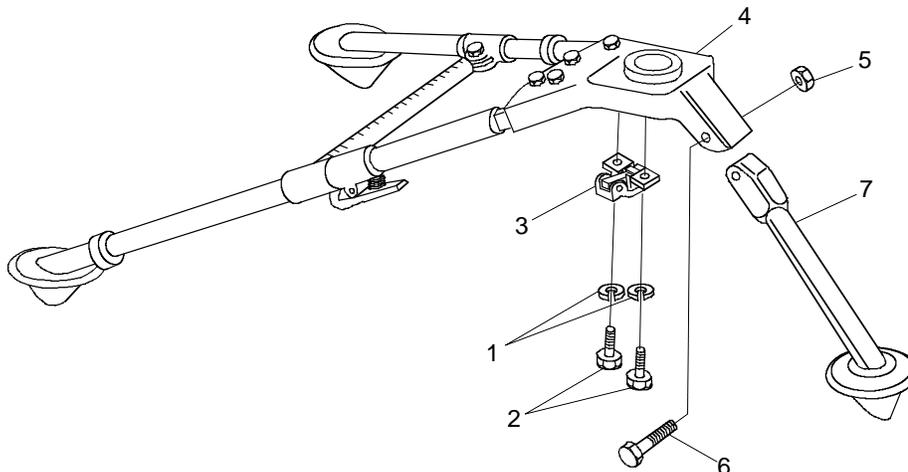
Install tripod mount leg (7) and secure to head (4) with machine bolt (6) and hex plain nut (5).

#### NOTE

Adjust hex plain nuts for 0.003 in. (0.008 cm) maximum clearance between head and legs. Legs must pivot freely.

HINT: One sheet of tablet paper is approximately .003 thick. Tighten nut, with paper between the leg (9) and nut, until the paper can be pulled out but a drag is felt.

Stake plain hex nut (5) to machine bolt (6) in three places.



2NL0011

**END OF WORK PACKAGE**

**UNIT MAINTENANCE FOR TRAVERSING AND ELEVATING MECHANISM  
(TRAVERSING AND CLAMPING UNIT), NSNA, P/N 7791119**

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This task covers: a. Disassembly      b. Inspection/Repair      c. Cleaning  
                                  d. Refinishing/Lubrication      e. Assembly

**INITIAL SETUP**

Tools and Special Tools:  
 Tool Kit, Small Arms Repairman,  
 PN SC 5180-95-B71

Materials/Parts (cont):  
 Lubricant, Solid Film, (item 10, WP 0179 00)  
 Rag, Wiping, (item 14, WP 0179 00)  
 Solvent, Cleaning, (item 17, WP 0179 00)

Materials/Parts:  
 Cleaner, Lubricant and Preservative, (CLP),  
 (item 3, WP 0179 00)  
 Lock-washer, P/N 11010413

Equipment Condition:  
 Traversing and elevating mechanism removed  
 from tripod.

---

**DISASSEMBLY**

**NOTE**

Retaining rings (1) and headless grooved pin (2) are not components of the T&E.  
 Replacement parts must be ordered separately.

Remove two retaining rings (1) from grooved pin (2).

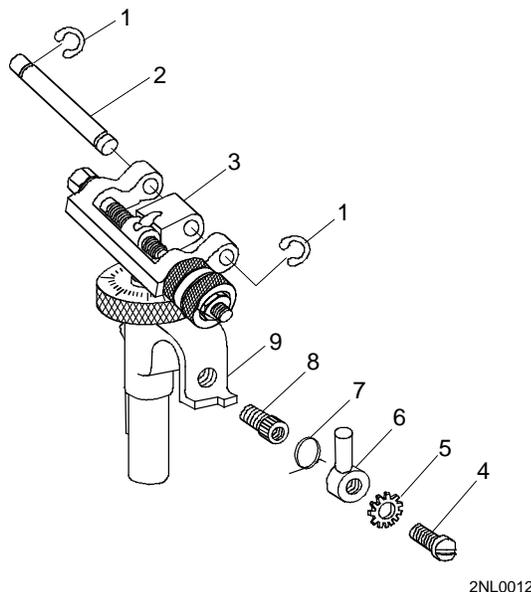
Remove headless grooved pin (2) by sliding out of yoke (3).

**WARNING**

To avoid injury to eyes, use care when removing/installing spring loaded parts.

Remove machine screw (4) and lock-washer (5) from traversing lever (6). Discard lock-washer. Remove  
 traversing lever (6), helical torsion spring (7) and machine screw (8) from elevating mechanism sleeve (9).

Further disassembly of traversing and elevating mechanism is not authorized.



## UNIT MAINTENANCE FOR TRAVERSING AND ELEVATING MECHANISM (TRAVERSING AND CLAMPING UNIT), NSNA, P/N 7791119 (cont)

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### INSPECTION /REPAIR

Inspect for broken, damaged, or missing parts.

If T&E will not elevate and/or traverse notify direct support maintenance.

Repair is by replacement of authorized parts.

### CLEANING

#### NOTE

Assembly may be immersed for cleaning.

Clean all parts with cleaning solvent. Allow solvent to drain from crevices, wipe dry, and apply light coat of CLP.

### REFINISHING/LUBRICATION

#### NOTE

Do not apply SFL to screw threads or internal parts.

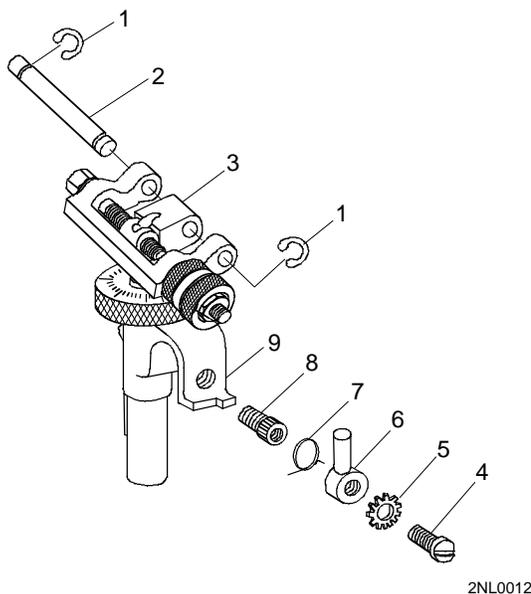
Clean area to be refinished with cleaning solvent, wipe dry, and touch-up with SFL. Allow SFL to dry per manufacturer's instructions. Apply light coat of CLP.

### ASSEMBLY

#### NOTE

Machine screw (8) will need to be adjusted when traversing lever (6) is installed.  
Traversing lever (6) must be aligned with traverse bar assembly.

Insert machine screw (8) into hole of elevating screw assembly (9). Place the T&E assembly on the tripod traverse bar and tighten the machine screw (8). Assembly should remain upright without support.



Place end of spring (7) into hole in backside of traversing lever (6); ensure opposite leg of spring is horizontal and pointing left. Install helical torsion spring (7) and traversing lever (6) (pointed to the right), new lock-washer (5) and machine screw (4). Tighten machine screw (4). Function test. When lever is disengaged T&E should slip off the traversing bar.

Insert grooved pin (2) into yoke (3) and install retaining rings (1) to grooved pin (2).

**END OF WORK PACKAGE**



**UNIT MAINTENANCE FOR  
PINTLE MOUNT, NSN 1005-00-945-9756, P/N 11010408**

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This task covers: a. Disassembly      b. Inspection/Repair      c. Cleaning  
d. Refinishing/Lubrication      e. Assembly

**INITIAL SETUP**

**Tools and Special Tools:**

Tool Kit, Small Arms Repairman,  
PN SC 5180-95-B71

**Materials/Parts (cont):**

Rag, Wiping, (item 14, WP 0179 00)  
Solvent, Cleaning, (item 17, WP 0179 00)

**Materials/Parts:**

Cleaner, Lubricant and Preservative, (CLP),  
(item 3, WP 0179 00)  
Lubricant, Solid Film, (item 10, WP 0179 00)

**Personnel Required**

2

**Equipment Condition:**

Mount pintle removed from tripod.

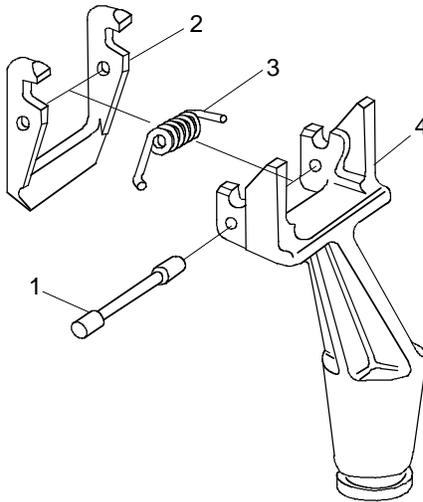
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**DISASSEMBLY**

**WARNING**

To avoid injury to your eyes, use care when removing and installing spring-loaded parts.

Secure pintle in vise or tripod head, tap out and remove headless grooved pin (1), lock-release lever (2), and helical torsion spring (3) from pintle (4).



2NL0013

**INSPECTION/REPAIR**

Inspect for broken, damaged, or missing parts.

If pintle (4) is broken or damaged, repair is by replacement of next higher assembly.

Repair is by replacement of authorized parts.

**UNIT MAINTENANCE FOR  
MOUNT PINTLE, NSN 1005-00-945-9756, P/N 11010408 (cont)**

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**CLEANING**

Clean all components with CLP; wipe dry and apply light coat of CLP.

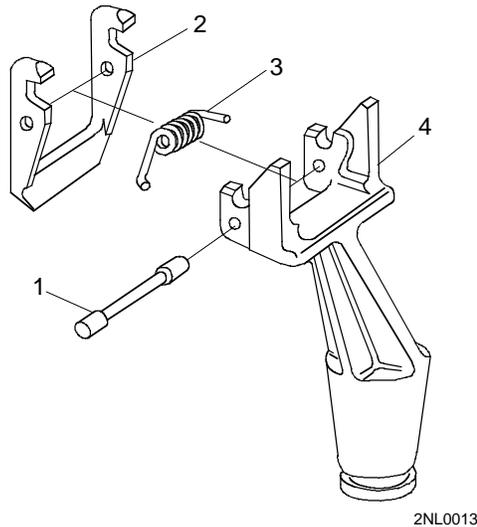
**REFINISHING/LUBRICATION**

Clean area to be refinished with cleaning solvent, wipe dry, and touch-up with SFL. Allow to dry per manufacturer's instructions. Apply light coat of CPL.

**ASSEMBLY****NOTE**

Have helper assist in assembly.

Secure pintle (4) in vise or tripod head. Align helical torsion spring (3) and lock-release lever (2) to pintle (4), secure with headless grooved pin (1).



**END OF WORK PACKAGE**

**UNIT MAINTENANCE FOR  
PINTLE, NSN 1005-01-461-2656, P/N 12986102**

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This task covers: a. Disassembly      b. Inspection/Repair      c. Cleaning  
d. Refinishing/Lubrication      e. Assembly

**INITIAL SETUP**

**Tools and Special Tools:**

Tool Kit, Small Arms Repairman,  
PN SC 5180-95-B71

**Materials/Parts (cont):**

Lubricant, Solid Film, (item 10, WP 0179 00)  
Rag, Wiping, (item 14, WP 0179 00)  
Solvent, Cleaning, (item 17, WP 0179 00)

**Materials/Parts:**

Cleaner, Lubricant and Preservative, (CLP),  
(item 3, WP 0179 00)

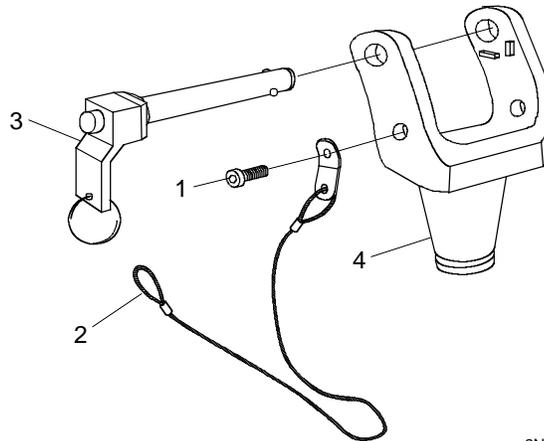
**Equipment Condition:**

Mount pintle removed from tripod.

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**DISASSEMBLY**

Loosen and remove cap screw (1), cable assembly (2), and quick release pin (3) from pintle (4). Pry up one leg of split ring and rotate over cable assembly until loose.



2NL0014

**INSPECTION/REPAIR**

Inspect for cracked, broken, damaged, or missing parts.

If pintle (4) is broken or damaged, repair is by replacement of next higher assembly.

Repair is by replacement of authorized parts.

**CLEANING**

Clean all metal components with CLP, wipe dry and apply light coat of CLP.

**UNIT MAINTENANCE FOR  
PINTLE, NSN 1005-01-461-2656, P/N 12986102 (cont)**

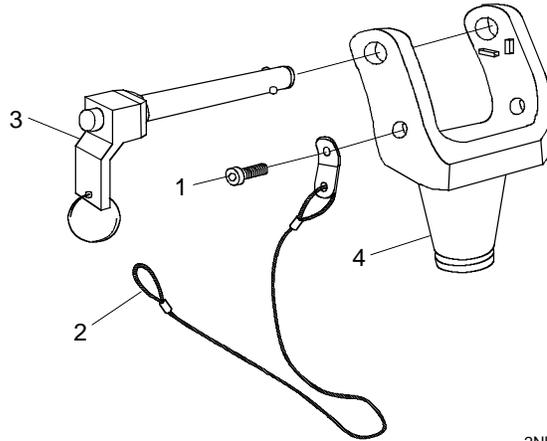
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**REFINISHING/LUBRICATION**

Clean area to be refinished with cleaning solvent, wipe dry, and touch-up with SFL. Allow to dry per manufacturer's instructions. Apply light coat of CPL.

**ASSEMBLY**

Insert cap screw (1) through bracket on cable assembly (2), and attach to pintle (4). Looped end of cable assembly should be attached to the ring on quick release pin (3). Insert quick release pin (3) into pintle (4).



2NL0014

**END OF WORK PACKAGE**

**UNIT MAINTENANCE OF  
ADAPTER ASSEMBLY, FORK, NSNA, P/N 12990570; AND  
FORK ASSEMBLY, 1055-01-225-1156, P/N 9378233**

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This task covers: a. Disassembly      b. Inspection/Repair      c. Cleaning  
d. Refinishing/Lubrication      e. Assembly

**INITIAL SETUP**

**Tools and Special Tools:**  
Tool Kit, Small Arms Repairman,  
PN SC 5180-95-B71

**Materials/Parts (cont):**  
Lubricant, Solid Film, (item 10, WP 0179 00)  
Rag, Wiping, (item 14, WP 0179 00)  
Solvent, Cleaning, (item 17, WP 0179 00)

**Materials/Parts:**  
Cleaner, Lubricant and Preservative, (CLP),  
(item 3, WP 0179 00)

**Equipment Condition:**  
Fork assembly removed from T&E.

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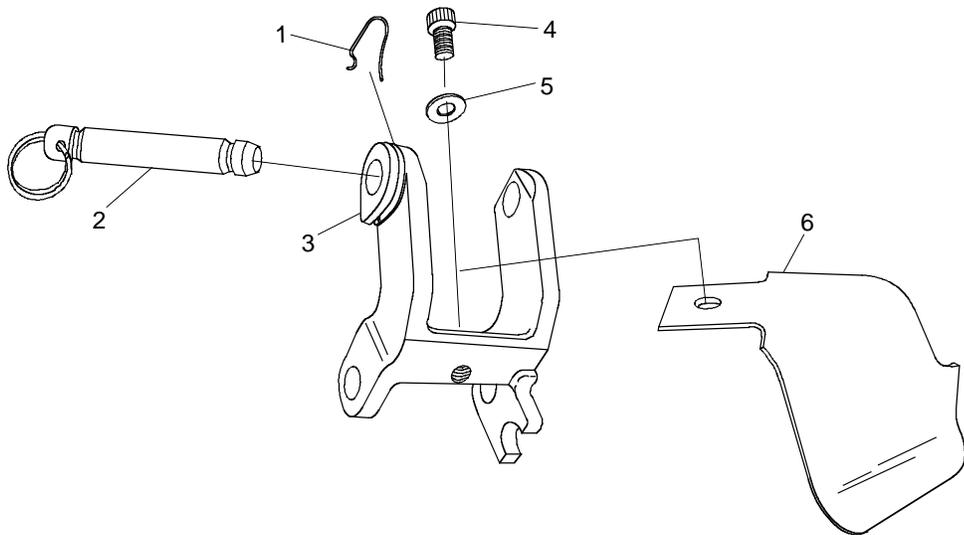
**NOTE**

Fork assembly (P/N 12990570) is AAL to the M122 machine gun tripod. Maintenance procedures are the same.

**DISASSEMBLY**

Remove clip (1), and pull quick release pin (2) from fork (3).

Loosen and remove cap screw (4), flat washer (5), and deflector (6).



2NL0015

**INSPECTION/REPAIR**

Inspect for cracked, broken, damaged, or missing parts.

If fork assembly (3) is broken or damaged, repair is by replacement of next higher assembly.

Repair is by replacement of authorized parts.

**UNIT MAINTENANCE OF  
ADAPTER ASSEMBLY, FORK, NSNA, P/N 12990570; AND  
FORK ASSEMBLY, 1055-01-225-1156, P/N 9378233 (cont)**

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**CLEANING**

Clean all components with CLP, wipe dry and apply light coat of CLP.

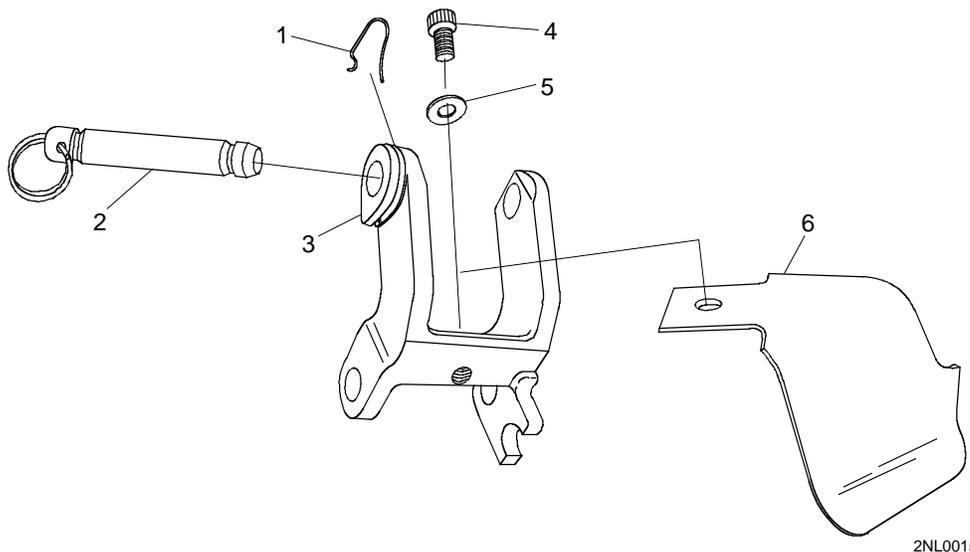
**REFINISHING/LUBRICATION**

Clean area to be refinished with cleaning solvent, wipe dry, and touch-up with SFL. Allow to dry per manufacturer's instructions. Apply light coat of CPL.

**REASSEMBLY**

Align deflector (6) with hole in fork assembly (4) and install flat washer (5), and cap screw (4).

Install quick release pin (2) through holes in fork (3) and insert clip (1).



2NL0015

**END OF WORK PACKAGE**

**DIRECT SUPPORT MAINTENANCE**



**DIRECT SUPPORT MAINTENANCE FOR  
TRIPOD LEG ASSEMBLY, NSNA, P/N 7790948 AND  
TRIPOD LEG ASSEMBLY, NSN 1005-00-555-9337, P/N 5559337**

This task covers: a. Disassembly b. Inspection/Repair c. Cleaning  
d. Refinishing/Lubrication e. Assembly

**INITIAL SETUP**

**Tools and Special Tools:**  
Shop Set, Small Arms: Field  
Maintenance, Basic, Less Power,  
PN SC 4933-95-CL-A11  
Tool Kit, Small Arms Repairman,  
PN SC 5180-95-B71

**Materials/Parts (cont):**  
Lock-washer (2), P/N MS35333-40  
Lubricant, Solid Film, (item 10, WP 0179 00)  
Rag, Wiping, (item 14, WP 0179 00)  
Sealing Compound, (item 16, WP 0179 00)  
Solvent, Cleaning, (item 17, WP 0179 00)

**Materials/Parts:**  
Cleaner, Lubricant and Preservative, (CLP),  
(item 3, WP 0179 00)

**Equipment Condition:**  
Tripod legs extended and locked; pintle and  
T&E mechanism removed.

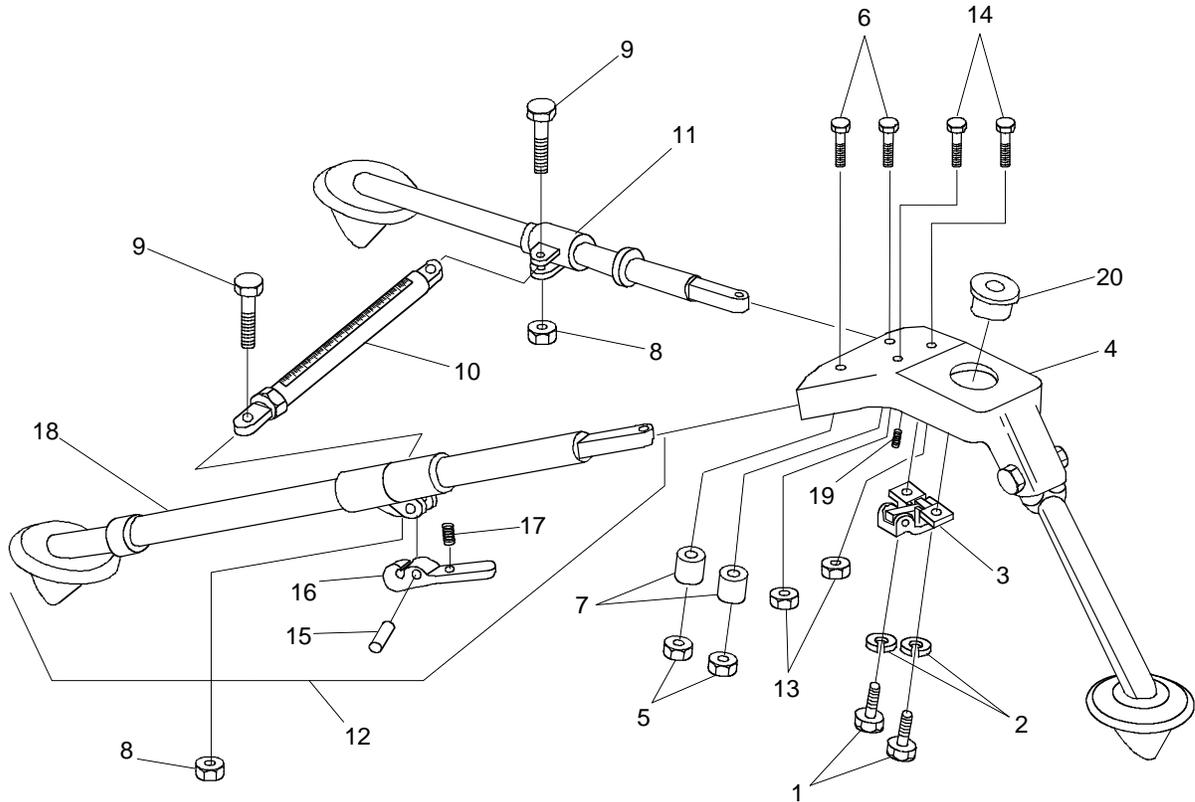
**DISASSEMBLY**

**NOTE**

Remove pintle lock assembly (3) only if repair is required (WP 0021 00).

Make sure pintle lock assembly (3) is in the locked position before removing.

Loosen and remove two machine screws (1), two lock-washers (2), and pintle lock assembly (3) from head (4). Discard two lock-washers.



2NL0016

**DIRECT SUPPORT MAINTENANCE FOR  
TRIPOD LEG ASSEMBLY, NSNA, P/N 7790948 AND  
TRIPOD LEG ASSEMBLY, NSN 1005-00-555-9337, P/N 5559337 (cont)**

**NOTE**

Remove rear leg(s) only for repair/replacement.

If damaged, remove two hex plain nuts (5), two machine bolts (6), and two sleeve spacers (7) from head (4).

Remove two hex plain nuts (8), two machine bolts (9), and traverse bar assembly (10) from pintle tripod legs (11 and 12).

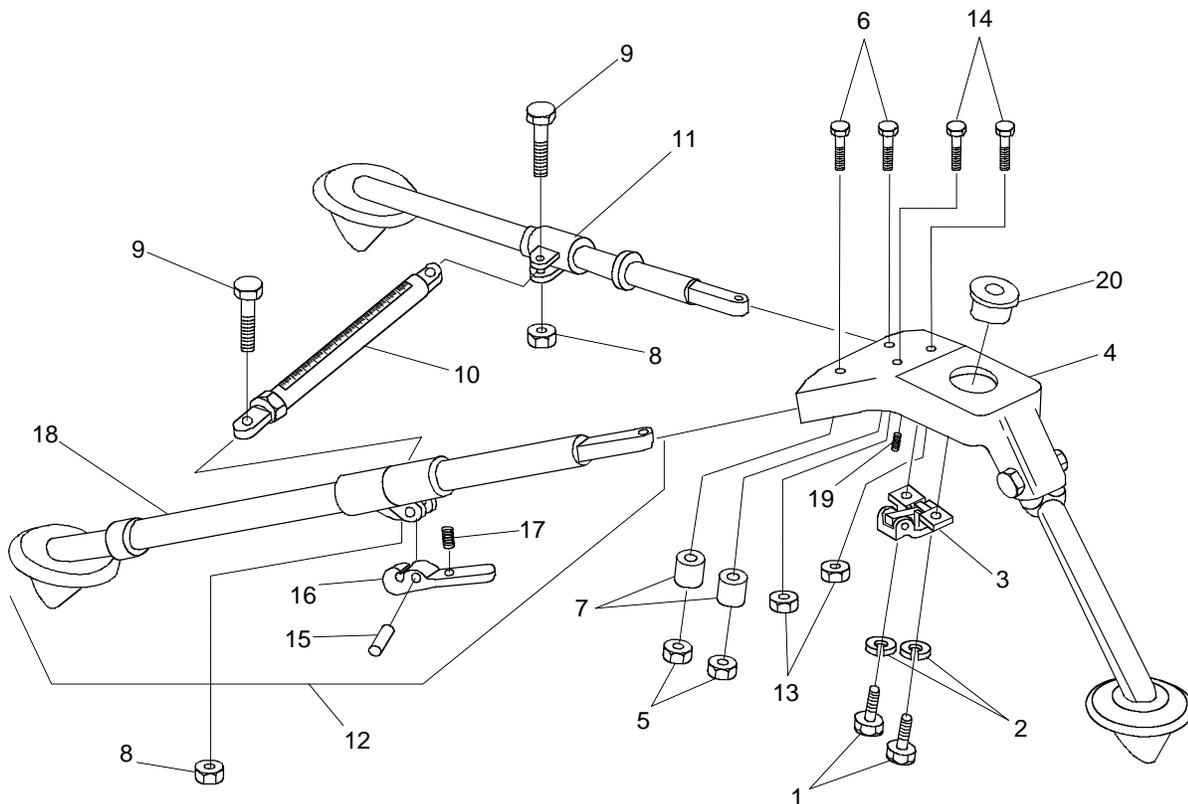
Remove two hex head plain nuts (13), two machine bolts (14), and tripod legs (11 and 12), from head (4).

**WARNING**

To avoid injury to eyes, use care when removing and installing spring-loaded parts.

Remove straight pin (15), sleeve latch (16), and helical spring (17) from leg (18).

If, damaged, remove setscrew (19) from sleeve bushing (20), and remove sleeve bushing (20) from head (4).



2NL0016

**INSPECTION/REPAIR**

Inspect for broken, damaged, or missing parts.

Pintle lock assembly is a repairable assembly, refer to WP 0021 00.

If head (4) is cracked or damaged, repair is by replacement of the next higher assembly.

Repair is by replacement of authorized parts.

**CLEANING**

Clean all components with CLP, wipe dry and apply light coat of CLP.

**REFINISHING/LUBRICATION**

Clean area to be refinished with cleaning solvent, wipe dry, and touch-up with SFL. Allow to dry per manufacturer's instructions. Apply light coat of CPL.

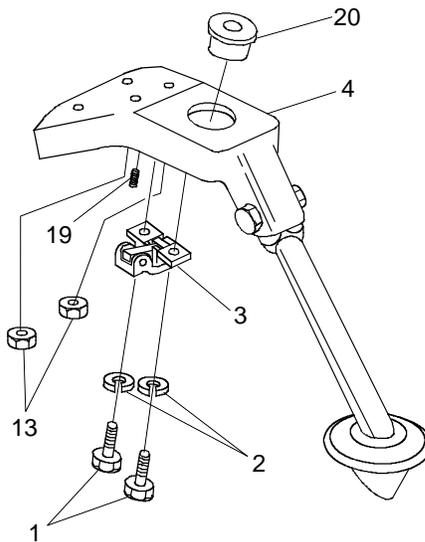
**NOTE**

Deploying or combat units may touch-up no more than one third of the tripod with SFL. If more than one third of the surface needs touch-up turn the tripod in for replacement (free issue). All other units may touch-up the entire tripod.

**ASSEMBLY**

If removed, apply sealing compound to sleeve bushing (20) and install in head (4). Install setscrew (19) in sleeve bushing (20).

If removed, install pintle lock assembly (3), two new lock-washers (2), and two machine screws (1) on head (4).



2NL0017

**DIRECT SUPPORT MAINTENANCE FOR  
TRIPOD LEG ASSEMBLY, NSNA, P/N 7790948 (cont)**

Install tripod leg (11) and tripod leg (12) on head (4) and secure with two machine bolts (14), and two hex plain nuts (13).

**NOTE**

Adjust hex plain nuts for 0.003 in. (0.008 cm) maximum clearance between head and legs. Legs must pivot freely.

Place legs in vise before staking.

Stake two hex plain nuts (13) to two machine bolts (14) in three places.

Install helical spring (17), sleeve latch (16), and straight pin (15) on leg (18).

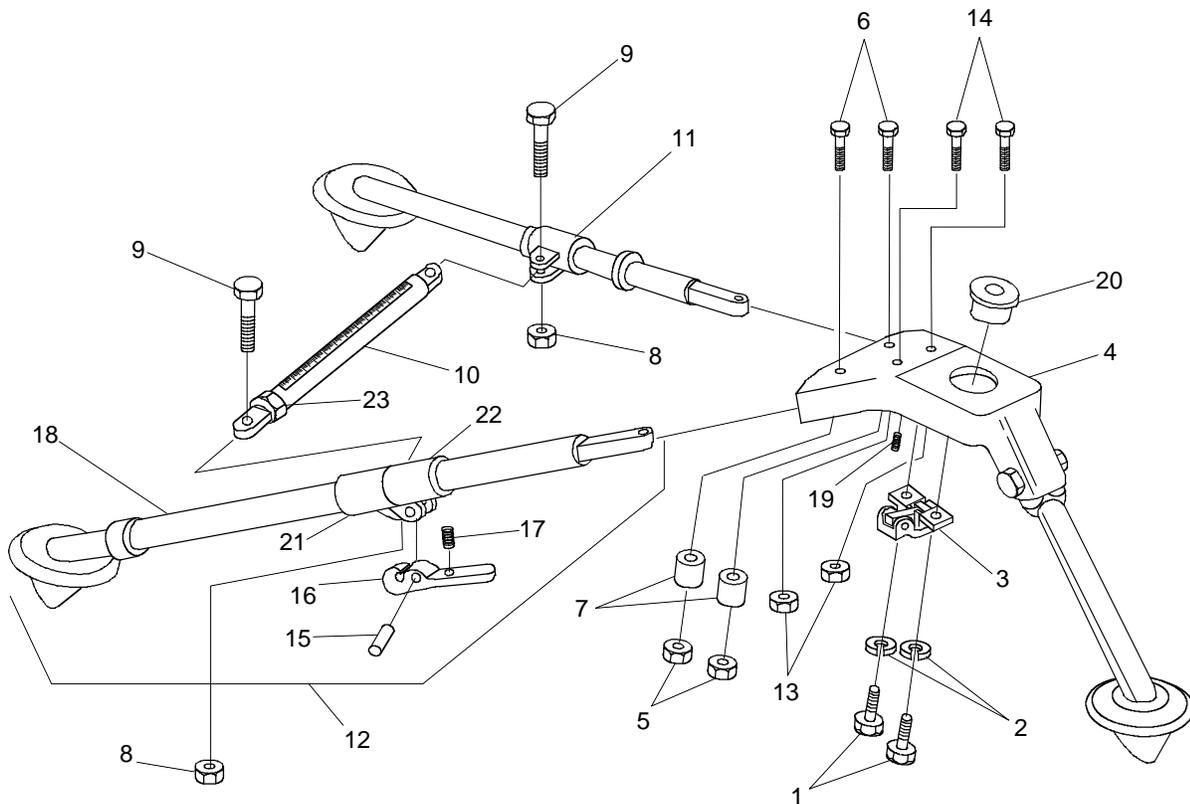
**NOTE**

Traverse bar assembly (10) must be adjusted so the sleeve (21) and stop (22) are 0.25 (1/4) to 0.38 (3/8) inch apart before locking. Rotate nut (23) until finger tight.

Install traverse bar assembly (10) to tripod legs (11 and 12), and secure with two machine bolts (9) and two hex plain nuts (8).

Stake hex nuts (8) to machine bolts (9) in three places.

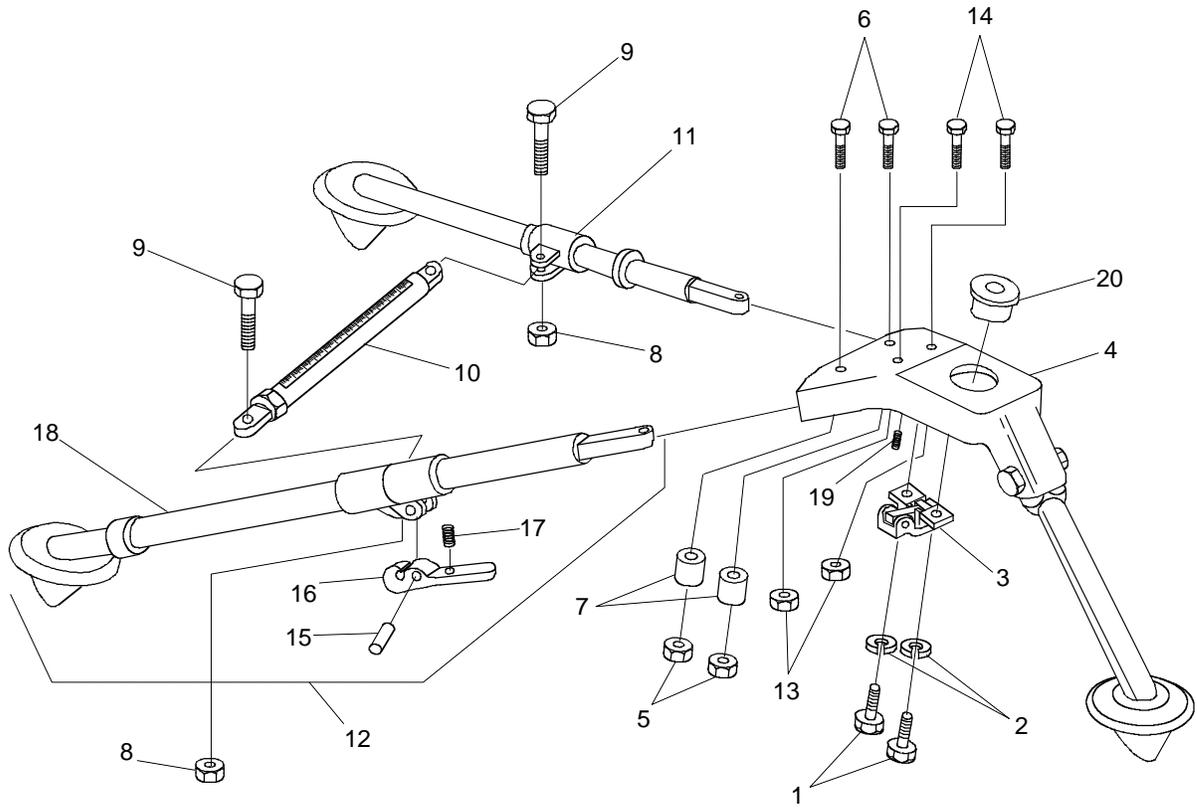
Tighten nut (23) and stake in slot on traverse bar assembly (10).



2NL0016A

**ASSEMBLY (cont)**

If removed, install two machine bolts (6), and two sleeve spacers (7), two hex plain nuts (5), to head (4).



2NL0016

**NOTE**

After repair, attach tripod components to the leg assembly with non-electrical wire to ensure entire system is returned to unit.

**END OF WORK PACKAGE**



**DIRECT SUPPORT MAINTENANCE FOR  
PINTLE LOCK ASSEMBLY, NSN 1005-00-610-8986, P/N 6108986**

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This task covers: a. Disassembly      b. Inspection/Repair      c. Cleaning  
d. Refinishing/Lubrication      e. Assembly

**INITIAL SETUP**

**Tools and Special Tools:**

Shop Set, Small Arms: Field  
Maintenance, Basic, Less Power,  
PN SC 4933-95-CL-A11  
Tool Kit, Small Arms Repairman,  
PN SC 5180-95-B71

**Materials/Parts (cont):**

Rag, Wiping, (item 14, WP 0179 00)  
Solid rivet, P/N 11010448  
Solvent, Cleaning, (item 17, WP 0179 00)

**Equipment Condition:**

Tripod legs extended and locked; pintle and T&E  
mechanism removed.

**Materials/Parts:**

Cleaner, Lubricant and Preservative, (CLP),  
(item 3, WP 0179 00)  
Lubricant, Solid Film, (item 7, WP 0179 00)

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**DISASSEMBLY**

**WARNING**

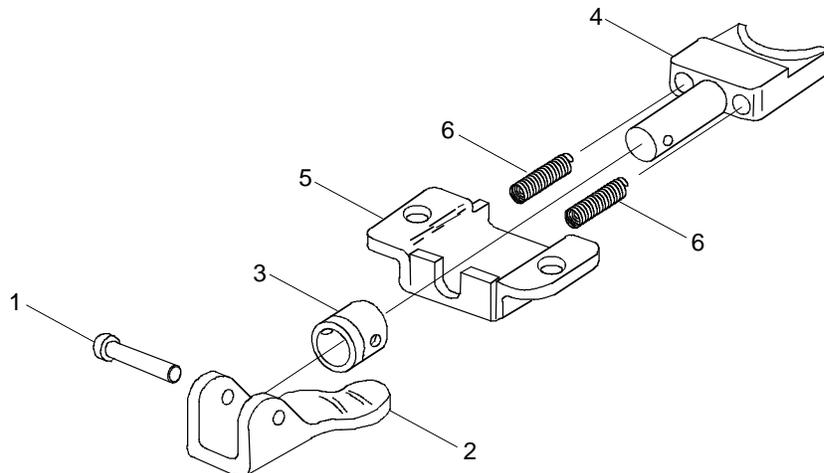
To avoid injury to your eyes, use care when removing and installing spring-loaded parts.

To avoid injury to your eyes, wear safety glasses when grinding parts.

Grind head off solid rivet (1). Remove solid rivet and pintle lock release cam (2). Discard solid rivet.

Remove shaft collar (3) from body (4).

Remove housing (5) and two helical springs (6) from body (4).



2NL0018

**DIRECT SUPPORT MAINTENANCE FOR  
PINTLE LOCK ASSEMBLY, NSN 1005-00-610-8986, P/N 6108986**

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**INSPECTION/REPAIR**

Inspect for broken, damaged, or missing parts.

If shaft collar (3), body (4), or housing (5) are broken or damaged, repair is by replacement of next higher assembly.

Repair is by replacement of authorized parts.

**CLEANING**

Clean all components with CLP, wipe dry and apply light coat of CLP.

**REFINISHING/LUBRICATION**

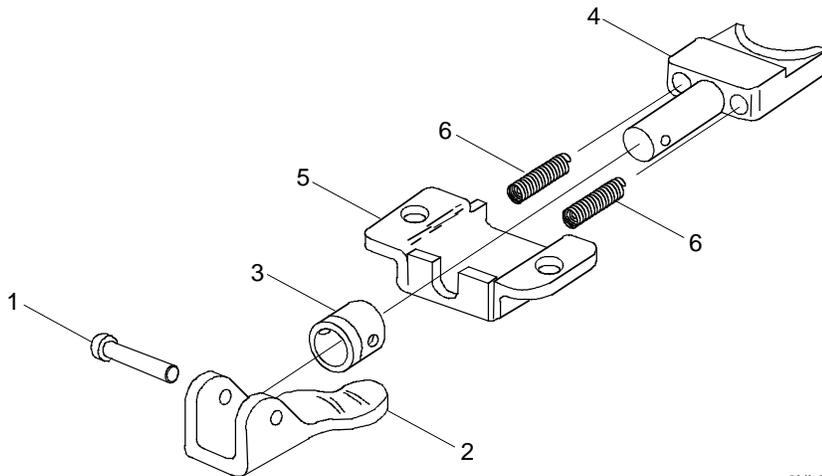
Clean area to be refinished with cleaning solvent, wipe dry, and touch-up with SFL. Allow to dry per manufacturer's instructions. Apply light coat of CPL.

**ASSEMBLY**

Install two helical springs (6) in body (4). Slide body into housing (5) so post sticks out through U-shaped opening of housing.

Slide shaft collar (3) on body (4).

Position pintle lock release cam (2) over body (4), insert new solid rivet (1) through the cam collar and body. Peen over end of rivet. Pintle lock release cam should pivot freely after riveting.



2NL0018

**END OF WORK PACKAGE**

**DIRECT SUPPORT MAINTENANCE FOR  
ELEVATING AND TRAVERSING MECHANISM ASSEMBLY,  
NSN 1005-00-603-4834, P/N 7791119**

This task covers: a. Disassembly      b. Inspection/Repair      c. Cleaning  
d. Refinishing/Lubrication      e. Assembly

**INITIAL SETUP**

**Tools and Special Tools:**

- Shop Set, Small Arms: Field Maintenance, Basic, Less Power, PN SC 4933-95-CL-A11
- Tool Kit, Small Arms Repairman, PN SC 5180-95-B71
- Spanner Wrench, (item 5, WP 0121 00)
- Spanner Wrench, (item 6, WP 0121 00)

**Materials/Parts:**

- Cleaner, Lubricant and Preservative, (CLP), (item 3, WP 0179 00)

**Materials/Parts (cont):**

- Lock-washer, P/N 11010413
- Lubricant, Solid Film, (item 10, WP 0179 00)
- Rag, Wiping, (item 14, WP 0179 00)
- Self-locking Nut, P/N MS51943-2
- Self-locking Nut, P/N MS51943-4
- Solvent, Cleaning, (item 17, WP 0179 00)
- Spring pin, P/N MS16562-120

**Equipment Condition:**

- Tripod legs extended and locked; pintle and T&E mechanism removed.

**DISASSEMBLY**

**NOTE**

Retaining rings and grooved headless pin are not components of the T&E and must be ordered separately.

Remove two retaining rings (1) from headless grooved pin (2).

Remove headless grooved pin (3) from traversing and elevating mechanism.

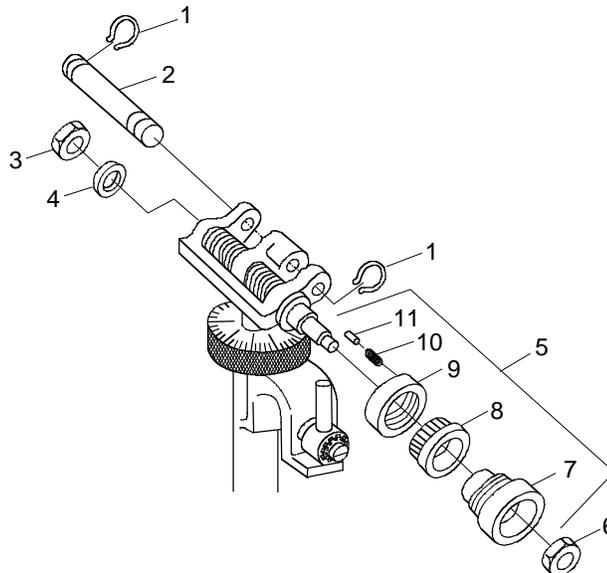
Remove self-locking nut (3) and flat washer (4). Discard nut.

Remove self-locking nut (6), and slide off traversing hand-wheel (5) as a unit. Discard nut.

**WARNING**

To avoid injury to eyes, use care when removing and installing spring-loaded parts.

Separate union nut (9), scale dial (8), headless straight pin (11) compression helical spring (10), and knob (7).

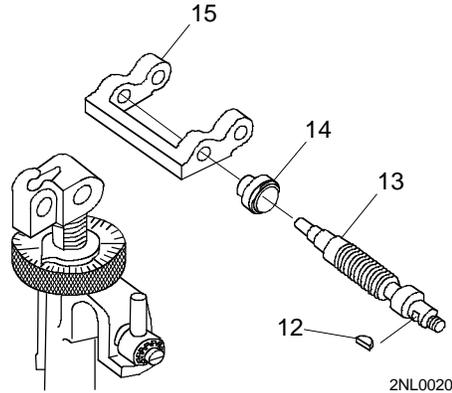


2NL0019

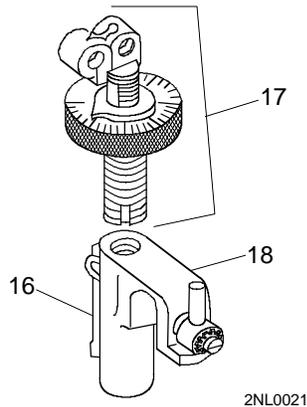
**DIRECT SUPPORT MAINTENANCE FOR  
ELEVATING AND TRAVERSING MECHANISM ASSEMBLY,  
NSN 1005-00-603-4834, P/N 7791119 (cont)**

**DISASSEMBLY (cont)**

Remove woodruff key (12) from traversing screw (13). Push traversing mechanism ring (14) from yoke (15) and remove traversing screw (13) from yoke (15) by turning counterclockwise.



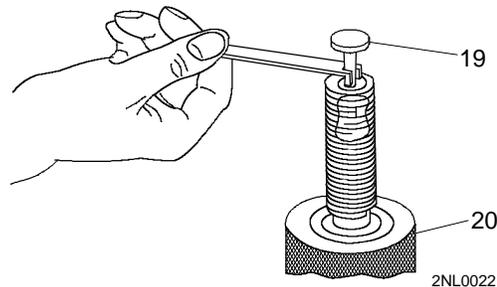
Pull out slightly on elevating stop assembly (16) and remove elevating screw assembly (17) from elevating mechanism sleeve (18) by turning counterclockwise.



**NOTE**

Break staking on stop screw with punch and hammer before removing stop.

Secure elevating stop assembly upside down in vise (clamp on dial knob). Turn top elevating screw assembly until compressed flush with dial. Using spanner wrench (item 5, WP 0121 00), remove stop (19) from end of lower elevating screw (20).

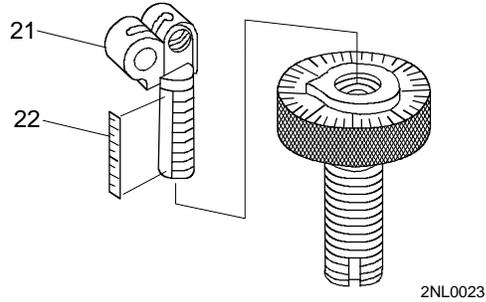


Remove upper elevating screw (21) with scale plate (22) attached by turning counterclockwise.

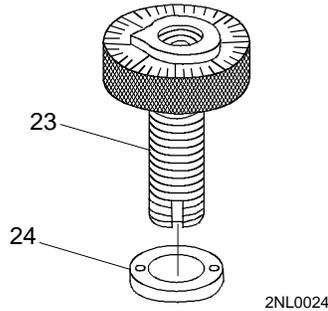
**NOTE**

Remove scale only for replacement. Do not damage threads of elevating screw when removing staking.

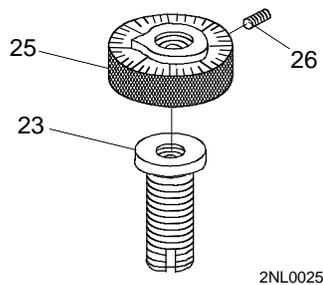
File off staking at top and bottom of scale. Slide scale down and out of the channel.



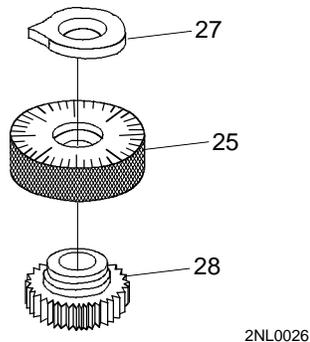
Using spanner wrench (item 6, WP 0121 00), remove externally threaded ring (24) from lower elevating screw (23).



Remove set screw (26) and lower elevating screw (23) from knob (25).



Smooth stake marks on hand-wheel click ring (28) with a small file and remove ring. Remove dial pointer (27) from knob (25).



**DIRECT SUPPORT MAINTENANCE FOR  
ELEVATING AND TRAVERSING MECHANISM ASSEMBLY,  
NSN 1005-00-603-4834, P/N 7791119 (cont)**

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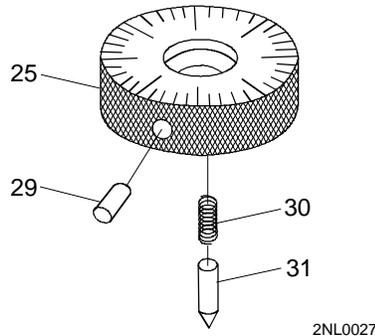
**DISASSEMBLY (cont)**

**WARNING**

To avoid injury to eyes, use care when removing and installing spring-loaded parts.

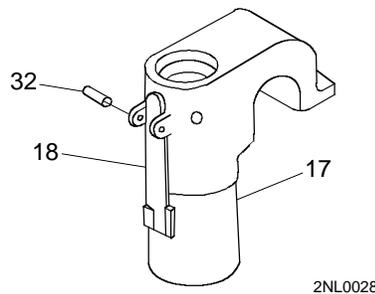
Tap headless straight pin (31) and compression helical spring (30) out through the center hole of knob (25).

If plain solid disk (29) is damaged, drill out using 0.125 (1/8) in. twist drill.



Drive out and discard spring pin (32).

Smooth staked metal on elevating stop assembly (18) and slide out of channel on elevating mechanism sleeve (17).



**INSPECTION /REPAIR**

Inspect for broken, damaged, or missing parts.

If yoke is broken or missing, repair is by replacement of next higher assembly.

If upper elevation screw (21), lower elevation screw (20), traversing screw (13), or elevating mechanism sleeve (18) are broken or damaged, repair is by replacement of next higher assembly.

Repair is by replacement of authorized parts.

**CLEANING**

Clean all components with CLP, wipe dry and apply light coat of CLP.

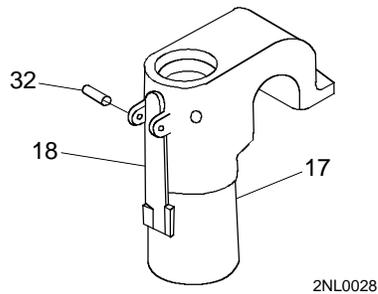
**REFINISHING/LUBRICATION****NOTE**

Do not apply SFL to threads or any internal components.

Clean area to be refinished with cleaning solvent, wipe dry, and touch-up with SFL. Allow to dry per manufacturer's instructions. Apply light coat of CPL.

**ASSEMBLY**

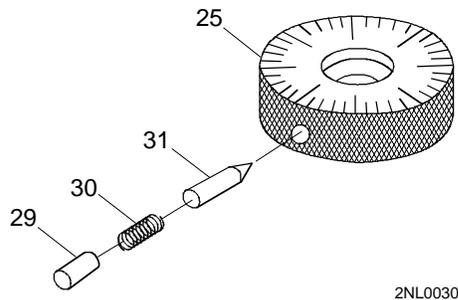
Install elevating stop assembly (18) in channel of elevating mechanism sleeve (17) and stake in four places near bottom. Install new spring pin (32) and stake material of elevating mechanism sleeve (17) over spring pin on both ends.

**NOTE**

If plain solid disk (29) was removed perform the following two steps.

Drill out any portion of plain solid disk remaining in hole of knob (25) using 0.125 (1/8) in. twist drill.

Tap headless straight pin (31), compression helical spring (30), and plain solid disk (29) in side of knob (25). Disk is to be flush to 0.010 in. (0.025 cm) below outer diameter of knob (25). Stake rim of hole in three equally spaced places.



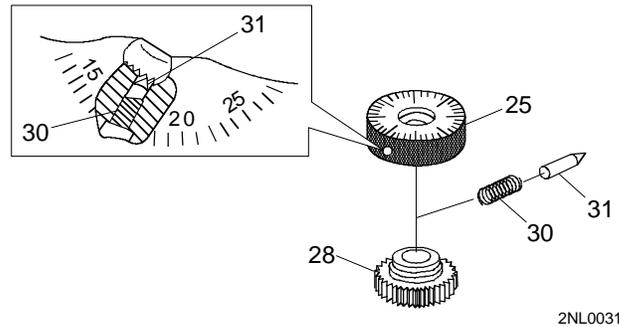
**DIRECT SUPPORT MAINTENANCE FOR  
ELEVATING AND TRAVERSING MECHANISM ASSEMBLY,  
NSN 1005-00-603-4834, P/N 7791119 (cont)**

**ASSEMBLY (cont)**

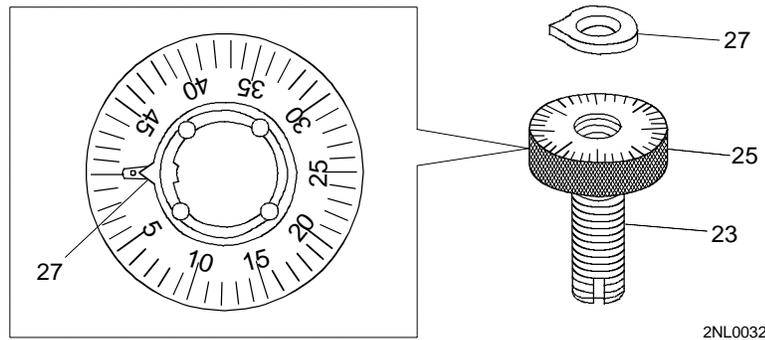
**NOTE**

If plain solid disk was not removed perform the following step.

Insert spring (30) and flat end of headless straight pin (31) into hole of knob through the center of knob (25). Apply pressure to pointed end of headless straight pin (31) and hold it recessed into hole while inserting hand-wheel click ring (28). Make sure key of hand-wheel click ring is aligned with 0 graduation mark on knob (25).



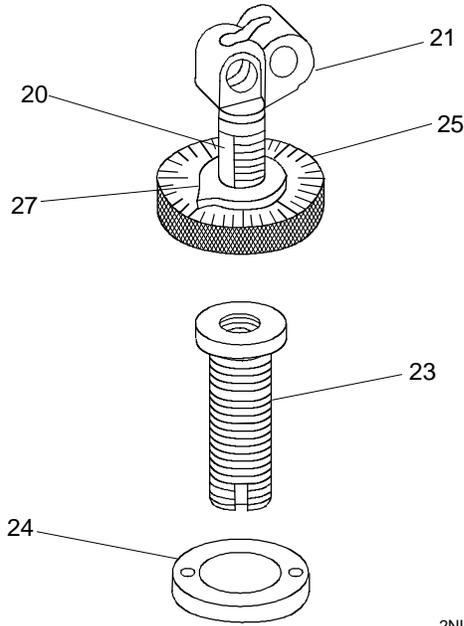
Position lower elevating screw (23) under hand-wheel click ring (25) and rest it on a flat surface. Position dial pointer (27) on hand-wheel click ring, making sure dial pointer aligns within 0.030 in. (0.076 cm) of 0 graduation. Stake in four places, 90 degrees  $\pm$  5 degrees apart.



If removed, install scale plate (20). Position scale plate as far as possible toward upper (curved) end of groove. Stake on both sides at top, middle, and bottom of scale plate (six locations total) in the base (root) of threaded area to prevent thread damage.

Slide knob (25) on upper elevating screw (21). Align top of dial pointer (27) with 0 graduation on scale plate (20). Screw lower elevating screw (23) on upper elevating screw (21) until fully seated in knob (25). Recheck graduation alignment to make sure it is correct.

Install externally threaded ring (24) on elevating screw (23). Tighten externally threaded ring until flush with bottom on knob using spanner wrench (item 7, WP 0179 00) and stake in two places 180 degrees apart.



2NL0033

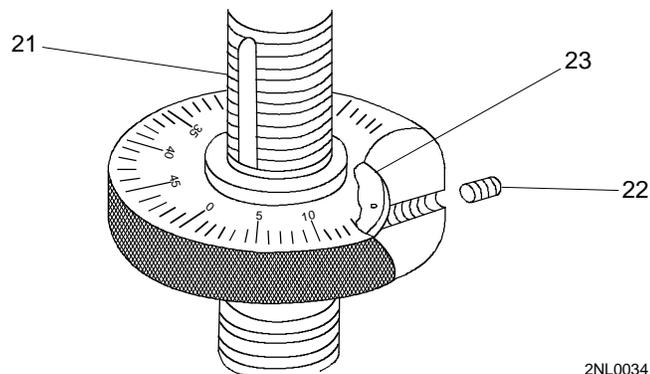
**NOTE**

If threaded hole in knob does not align with original hole in flange of lower elevation screw, perform next step. If holes are aligned, skip next step.

Using a 0.078 (5/64) in. twist drill, put the drill point through threaded hole of knob (25) and drill new hole in flange of the lower elevation screw (23) to a depth of 0.30 in. (0.76 cm).

Recheck to make sure graduation alignment has been maintained. Insert and tighten setscrew (22).

Screw upper elevating screw (21) in lower elevating screw (23).

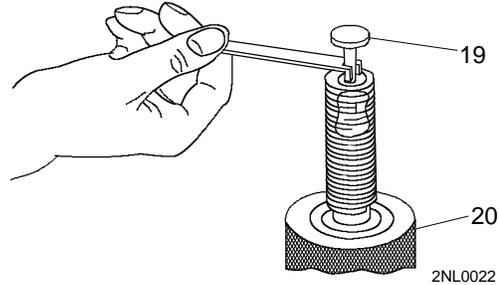


2NL0034

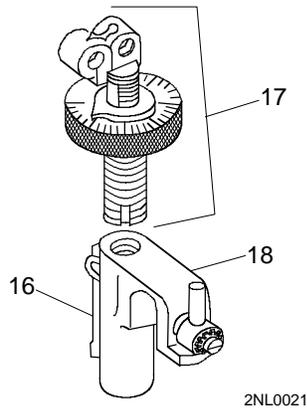
**DIRECT SUPPORT MAINTENANCE FOR  
ELEVATING AND TRAVERSING MECHANISM ASSEMBLY,  
NSN 1005-00-603-4834, P/N 7791119 (cont)**

**REASSEMBLY (cont)**

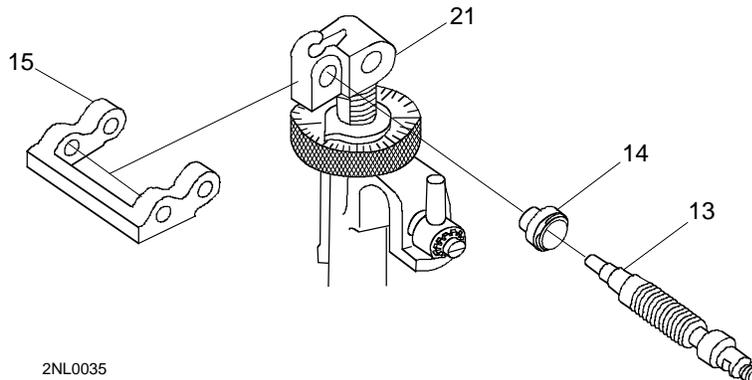
Place elevating stop assembly upside down in vise (clamp on dial knob). Using spanner wrench (item 6, WP 0121 00) install automatic stop (19) until flush, and stake in two places 180 degrees apart.



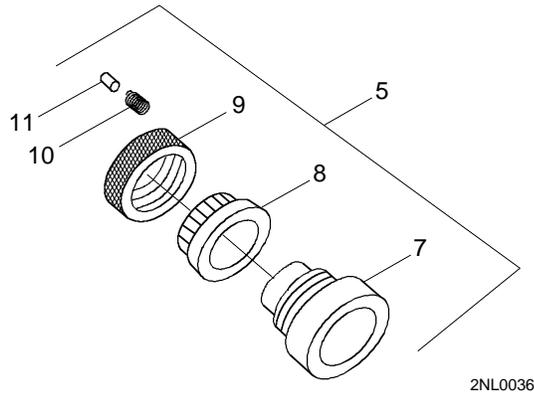
Pull back slightly on elevating stop assembly (16) and screw elevating screw assembly (17) in elevating mechanism sleeve (18) by turning clockwise.



Push traversing mechanism ring (14) onto traversing screw (13). Thread traversing screw (13) through yoke (15) and elevating screw (21) and center yoke (15) on elevating screw (21).



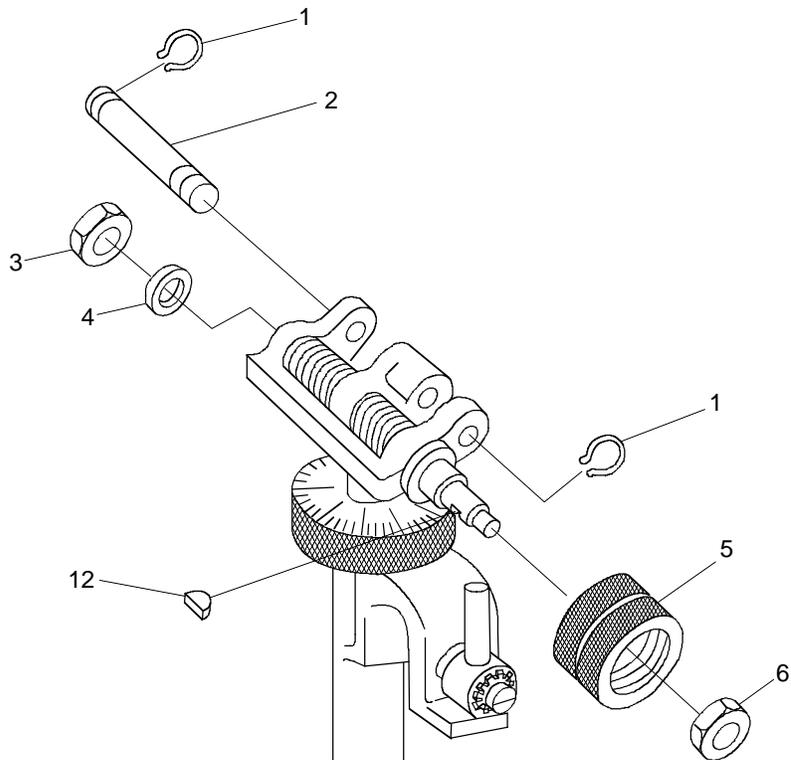
Assemble union nut (8), scale dial (7), headless straight pin (10), compression helical spring (9), and knob (6) to make traversing hand-wheel (5).



Insert washer (4) on shaft of traversing screw. Install and tighten new self-locking nut (3).

Install woodruff key (12) in slot of traversing screw. Align keyway on inside of traversing hand-wheel (5) with woodruff key (12), and push hand wheel (5) onto shaft. Install and tighten new self-locking nut (3). Traversing hand-wheel should move freely with no more than 1/16 of a turn backlash.

Install retaining ring (1) on one end of headless grooved pin (2). Insert other end completely through yoke and top of elevating screw, and install retaining ring (1).



**END OF WORK PACKAGE**



## **CHAPTER 3**

### **M192 MACHINE GUN TRIPOD**



**TM 9-1005-245-13&P**

**OPERATOR  
INSTRUCTIONS**

TM 9-1005-245-13&P

**EQUIPMENT DESCRIPTION AND DATA FOR  
M192 MACHINE GUN TRIPOD, NSN 1005-01-503-0141, P/N 13001669**

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**EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES**

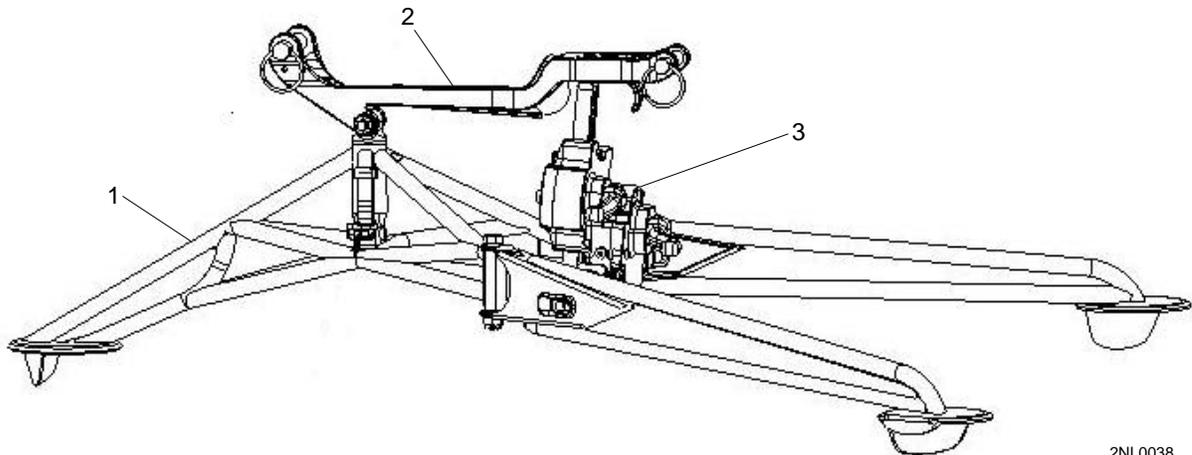
**M192 Machine Gun Tripod**

The M192 machine gun tripod is a component assembly designed as a defensive ground mount for the M240B machine gun and M249 squad automatic weapon system (SAWS) in the machine gun role.

The tripod is composed of a folding tripod, traverse and elevating mechanism, and mounting bracket assembly. The M192 machine gun tripod is easily transported in any of the following:

- Spare barrel case, NSN 1005-01-470-3006
- Alice pack, NSN 8465-01-019-9103
- MOLLE (MG), NSN 8405-01-459-6580
  - a. Air pack, NSN 1670-01-413-7836
  - b. PEIR2, NSN 1670-01-415-0035
  - c. Side Mount, NSN 1670-01-414-2757
- Modified 1950 Jump Bag, NSN 8465-00-261-4995

**LOCATION AND DESCRIPTION OF MAJOR COMPONENTS**



**TRIPOD (1)** – Consists of an integrated front leg and two rear folding legs. The frame assembly furnishes front support for the machine gun using a pintle and bushing system. A traverse and elevation (T&E) assembly (3) (with integrated scales) attaches to the tripod with two shoulder bolts.

**MOUNTING BRACKET (2)** – Provides a means of attaching the weapon to the tripod. Consists of a pintle and bracket. The mounting bracket attaches to the T&E by a quick release lock. The weapon is secured to the bracket by two quick release pins.



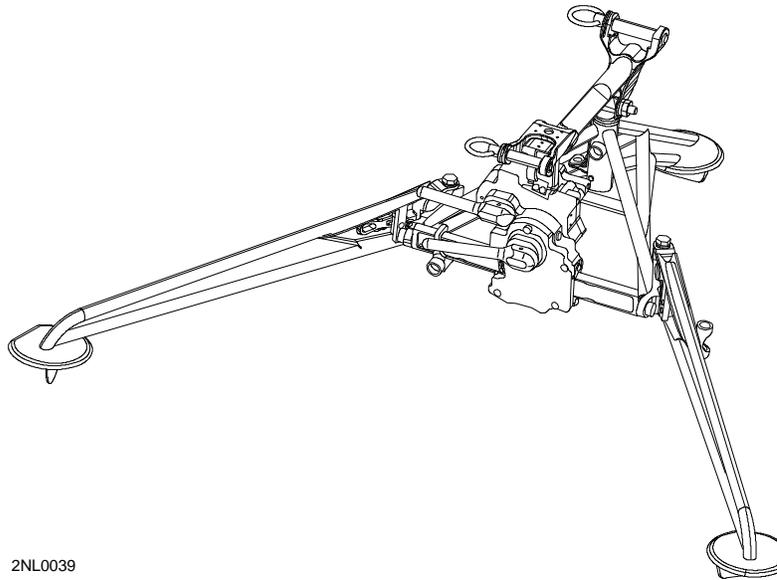
**THEORY OF OPERATION FOR  
M192 MACHINE GUN TRIPOD, NSN 1005-01-503-0141, P/N 13001669**

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The M192 machine gun tripod is a tripod with an integrated traversing and elevation mechanism (T&E). The traverse bar and mounting bracket assembly serves as rear support for the T&E, which in turn supports, the rear of the M240B/M249 machine gun. The scale range is 0 to approximately 530 mils in elevation with 1 mil readability. The traverse bar is joined to the Frame Assembly by two shoulder bolts, and the elevation bar fits into a quick release socket on the bottom of the mounting bracket assembly. The traverse scale range is 0 to approximately 900 mil in 1 mil increments.

The M192 machine gun tripod has two folding legs connected to the frame. The rear legs can be folded to a forward position for stowing (i.e. M240B Spare Barrel Bag, ALICE Pack, MOLLE (MG), and/or Modified 1950 Jump Bag). The mounting bracket is attached to the right rear leg for stowage and/or transport. The frame (with integrated front leg) furnishes front support for the machine gun with the use of a pintle and mounting bracket assembly. The weapon is attached to the mounting bracket with mounting pins, and the mounting bracket is secured to the tripod by a pintle and the elevation bar of T&E.

The M192 machine gun tripod has a mechanical stop for setting a right traverse limit. Traverse and Elevation actions are independent of one another and have hand levers for controlling both bold and fine adjustments. The M192 machine gun tripod is compatible for use with both day or night optics or lasers.



2NL0039

**WARNING**

Assistant gunner must clear spent cartridge casings from under tripod when firing M240B machine gun to prevent build-up that will eventually cause spin-back stoppages.

Spin-back stoppages may occur when firing blank ammunition from M240B machine gun.

Only the M249 and M240 series machine guns can be fired off the M192 machine gun tripod.

The operator must ensure the legs of the tripod are securely emplaced in the ground, with or without sandbags, prior to and during firing.

When firing without sandbags, the gunner must expect the tripod's front leg to lift slightly from emplaced position.



**TROUBLESHOOTING PROCEDURES FOR  
M192 MACHINE GUN TRIPOD**

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**Table 1. Troubleshooting Procedures for  
M192 Machine Gun Tripod****TRIPOD****SYMPTOM**

Leg(s) will not fully extend and/or lock.

**MALFUNCTION**

Leg or legs are bent, broken or missing.

**CORRECTIVE ACTION**

Notify unit maintenance for repair.

**SYMPTOM**

Leg latch will not lock leg in position.

**MALFUNCTION**

Check for dirt and/or rust on leg latch and ball stud.

**CORRECTIVE ACTION**

Remove dirt and/or rust on leg latch and/or stud. Notify unit maintenance for repair.

**MALFUNCTION**

Latch and/or ball stud are broken or missing.

**CORRECTIVE ACTION**

Notify unit maintenance for repair.

**T&E ASSEMBLY****SYMPTOM**

Scales are illegible or missing.

**MALFUNCTION**

Scales are dirty or worn.

**CORRECTIVE ACTION**

Wipe dirt or debris from scale. If still unreadable, notify unit maintenance for repair.

**TROUBLESHOOTING PROCEDURES FOR  
M192 MACHINE GUN TRIPOD (cont)**

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**Table 1. Troubleshooting Procedures for  
M192 Machine Gun Tripod (cont)**

**T&E ASSEMBLY (cont)**

**SYMPTOM**

T&E will not elevate and/or traverse.

**MALFUNCTION**

T&E is dirty and or broken; oil on T&E bar.

**CORRECTIVE ACTION**

Wipe bar(s) with clean rag and alcohol/cleaning fluid.

Exercise elevation and traverse in each direction, using both bold and fine adjustment procedures (WP 0028 00).

Remove dirt following flushing procedure (WP 0027 00).

**SYMPTOM**

Mechanical stop will not loosen.

**MALFUNCTION**

Mechanical stop is dirty.

**CORRECTIVE ACTION**

**NOTE**

Do not use anything other than your fingers; mechanical stop is a self-locking device.

Attempt to loosen clamping screw (WP 0028 00).

Remove dirt and lubricate cleaned areas. Notify unit maintenance for repair.

**MALFUNCTION**

Mechanical stop will not tighten.

**CORRECTIVE ACTION**

**NOTE**

Do not use anything other than your fingers; mechanical stop is a self-locking device.

Attempt to tighten clamping screw. Notify unit maintenance for repair.

**MOUNTING BRACKET****SYMPTOM**

Pintle will not fit into bushing.

**MALFUNCTION**

Pintle and/or pintle socket is dirty or broken.

**CORRECTIVE ACTION**

Remove dirt. Lubricate cleaned areas. Touch up any bare shiny spots on pintle with SFL (item 10, WP 0179 00). Notify unit maintenance for repair.

**SYMPTOM**

Pintle latch will not lock pintle into place.

**MALFUNCTION**

Pintle latch assembly is burred, dirty, broken, or missing.

**CORRECTIVE ACTION**

Remove dirt and lubricate cleaned areas. If still not functional, notify unit maintenance for repair.

**SYMPTOM**

Quick release pins will not lock into mounting bracket.

**MALFUNCTION**

Pins are dirty, bent or missing.

**CORRECTIVE ACTION**

Remove dirt. Lubricate cleaned areas. If still not functional, notify unit maintenance for repair.

**SYMPTOM**

Quick Release Assembly will not securely fasten to the ball end of elevation bar.

**MALFUNCTION**

Quick Release Assembly is dirty, rusty or broken.

**CORRECTIVE ACTION**

If possible, remove dirt and rust, lubricate cleaned areas. If still not functional, notify unit maintenance for repair.

**END OF WORK PACKAGE**

**0025 00-3/4 blank**



**PREVENTIVE MAINTENANCE CHECKS AND SERVICES FOR  
M192 MACHINE GUN TRIPOD**

**Table 1. Preventive Maintenance Checks and Services for  
M192 Machine Gun Tripod**

Item	Interval	Man-Hours	Item to be Checked	Procedures	Not Fully Mission Capable if:
1	Before		M192 Machine Gun Tripod	Emplace mount. Ensure legs are properly latched and held in a rigid position. Check for any missing or broken parts	Parts are broken or missing and prevents safe operation of tripod.
2	Before		Legs	Check to ensure legs are not bent and the leg latch will securely lock the leg in position.	Legs will not latch sufficiently to safely operate the tripod.
3	Before		T&E Mechanism	Check the operation of T&E in both elevation and traverse to make sure functionality is good.  Ensure scales are legible and securely fastened on bars.  Ensure elevation and traverse bars will travel in both bold adjustment and fine adjustment.	T&E will not elevate and/or traverse.  Scales are loose and/or missing. Scales cannot be read.  Traverse and/or elevation functions will not operate.
4	Before		Mounting Bracket	Check Mechanical Stop for functionality.  Check pins for proper closure.  Check to ensure pintle will insert into bushing.  Check to ensure pintle latch will secure pintle in bushing  Check to insure quick release assembly is operable.	Mechanical stop will not loosen and or tighten.  Missing or broken parts.  Pintle will not insert into bushing.  Pintle will not lock into bushing.  Quick release assembly will not secure elevation bar.
5	During		T&E Mechanism	Check the operation of T&E in both elevation and traverse to make sure functionality is good.	T&E will not elevate and/or traverse.

**PREVENTIVE MAINTENANCE CHECKS AND SERVICES FOR  
M192 MACHINE GUN TRIPOD (cont)**

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**Table 1. Preventive Maintenance Checks and Services for  
M192 Machine Gun Tripod (cont)**

Item	Interval	Man-Hours	Item to be Checked	Procedures	Not Fully Mission Capable if:
6	After		M192 Machine Gun Tripod	Install mounting bracket into pintle socket and onto elevating bar.  Clean and lubricate mount.  Check for loose or broken parts.  Check elevating and traversing scales for legibility.  Make sure all screws and bolts are tight.	Mount is dirty, preventing safe operation of tripod.  Parts are loose, broken or missing.  Scales are illegible/missing.  Screws/bolts are loose/missing.

**END OF WORK PACKAGE**

**OPERATOR MAINTENANCE  
CLEANING— TRAVERSING AND ELEVATING MECHANISM**

---

This task covers: Cleaning

**INITIAL SETUP****Materials/Parts:**

- Alcohol, Denatured, (item 2, WP 0179 00)
  - Cleaner, lubricant, and preservative, (CLP), (item 3, WP 0179 00)
  - Cloth, Abrasive, (item 4, WP 0179 00)
  - Lubricate, Solid Film, (item 10, WP 0179 00)
  - Rag, Wiping, (item 14, WP 0179 00)
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**CLEANING****NOTE**

Cleaning should be done weekly to prevent unnecessary corrosion of equipment.

Clean, refinish and lubricate the tripod using the following procedure:

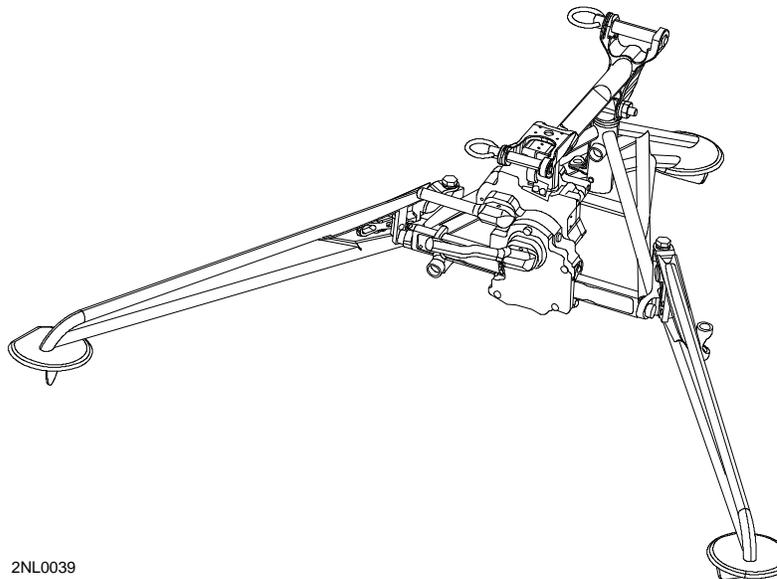
- Using abrasive cloth, remove any brass residue from mounting bracket, T&E, and right leg of tripod.

**NOTE**

Do not apply SFL to traverse or elevation bars. SFL will cause fine adjustment movement to stop.

Deploying or combat units may touch-up no more than one third of the tripod with SFL. If more than one third of the surface needs touch-up turn the tripod in for replacement (free issue). All other units may touch-up the entire tripod.

- After thorough cleaning, touch up any shiny spots or scratches with SFL.
- Using CLP applied to a wiping rag, wipe down the components of mount and lubricate all moving parts. Use a clean wiping rag to remove any excess CLP.
- Periodically remove flushing plug and lubricate internal components of T&E (WP 0031 00/WP 0032 00).



2NL0039

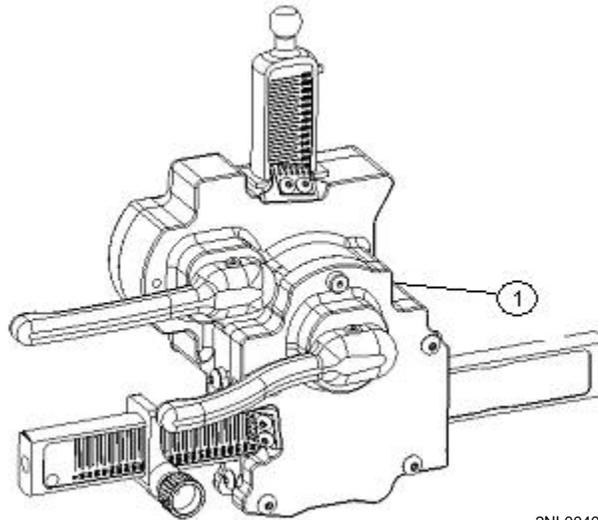
**OPERATOR MAINTENANCE  
CLEANING – TRAVERSING AND ELEVATING MECHANISM (cont)**

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**T&E FLUSHING**

Remove flushing plug (1) from side of T&E housing.

Completely fill housing with cleaning fluid/alcohol and reinstall flushing plug (1). Rotate housing in all directions to rinse entire housing interior. Remove flushing plug (1) and shake fluid from housing. This should be done in all directions to completely remove fluid from housing. Fluid will expel from both flushing plug holes in bottom of housing. Pour CLP into flushing plug hole. Rotate housing to distribute CLP throughout mechanism. Allow excess to drain. Reinstall flushing plug (1).



2NL0040

**END OF WORK PACKAGE**

## OPERATOR INSTRUCTIONS FOR M192 MACHINE GUN TRIPOD

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### PLACING INTO OPERATION

#### NOTE

Perform PMCS (WP 0026 00) prior to use.

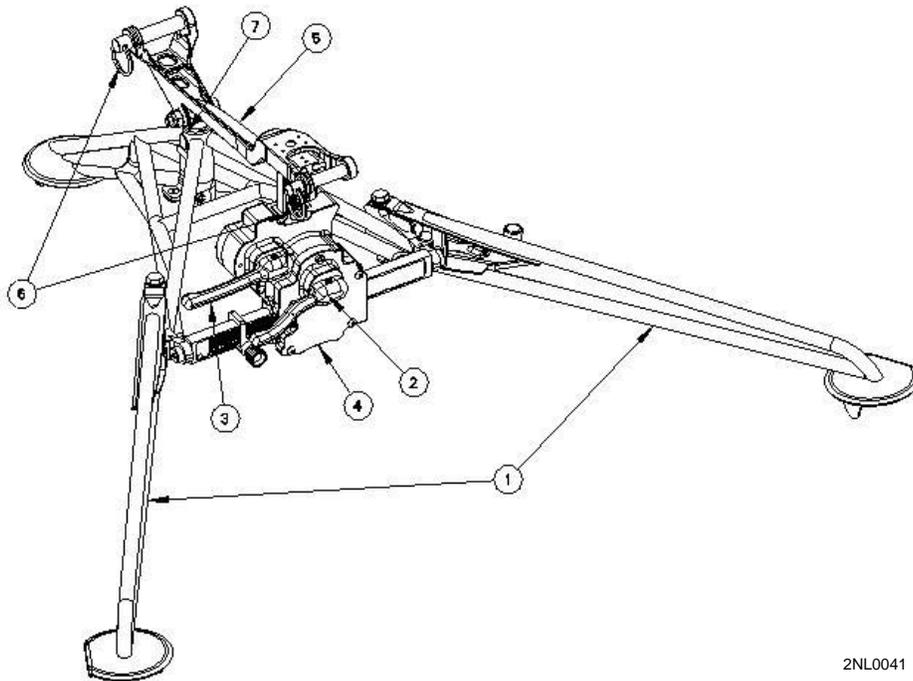
Fold legs (1) rearward until they latch. Ensure legs are securely latched.

Pull elevation handle (3) out with left hand and hold while grasping the elevation bar and pulling down from stowage point. Depress approximately halfway. Rotate T&E (4) up and towards you until elevation bar is vertical. Manipulate traversing handle (2) until T&E is centrally located on traversing bar.

#### NOTE

Only pull quick release pins out of one side of the mounting bracket. A feature of the mount is that the pins are clipped to avoid complete removal and possible loss.

Remove mounting bracket (5) by pulling up quick release pins (6). Remove mounting bracket from leg by pulling outward. Rotate pintle until perpendicular to mounting bracket. Insert pintle into pintle socket (7) of tripod. Using hand force, depress until latch engages. Using hand force, press down on the rear of mounting bracket to elevation bar until click is heard.



2NL0041

## OPERATOR INSTRUCTIONS FOR M192 MACHINE GUN TRIPOD (cont)

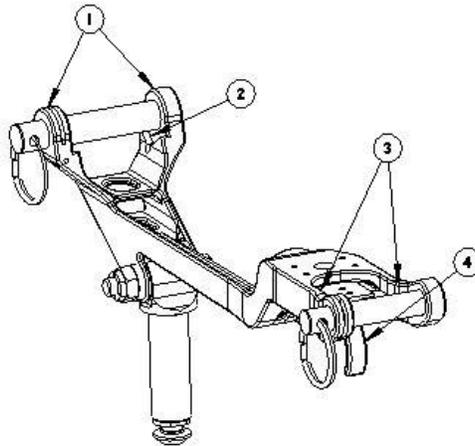
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### INSTALLING WEAPON

#### NOTE

M240B bipod legs fold to the rear. M249 bipod legs must fold forward.

Pull quick release pins to the left. Insert front mounting point of weapon into front (1) of mounting bracket and secure with quick release pin. Lower the weapon (butt stock) down into rear yoke (3) and secure with quick release pin to the rear mounting point of weapon. Ensure pin rings are not lodged between weapon and mounting bracket. Reverse procedure to remove weapon.



2NL0042

### TAKING OUT OF OPERATION

Clear the weapon in accordance with weapons operator manual (M240B: TM 9-1005-313-10; M249: TM 9-1005-201-10). Position T&E to center of traversing bar (approximately 520-mils). Disengage both front and rear-attaching pins of the mounting bracket assembly from weapon and remove machine gun.

### BASIC OPERATION

#### READING SCALES

The tripod T&E is equipped with traverse and elevation scales. The housing of the T&E mechanism has a secondary scale for fine adjustment reading. The large scales (traversing and elevation) are in 10-mil increments and the secondary scale is in increments of one mil. A reading is taken by first looking at the position of the large scale and the point where the secondary scale line intersects the large scale then adding the two readings together. The elevation vernier scale, reads in one-mil increments, begins at 0 corresponding to a gun depression of approximately 275-mils. The elevation bar movement stops at 510-mil, which corresponds to an elevation of approximately 235-mils. The scale continues past this point to 520 mils, but the T&E mechanism will not move past the internal stop at 510-mil. Traverse movement is approximately 900-mils from side to side. The traverse scale begins at 0, extreme left, and the numbers increase as the T&E traverses to the right.

**BOLD ADJUSTMENT**

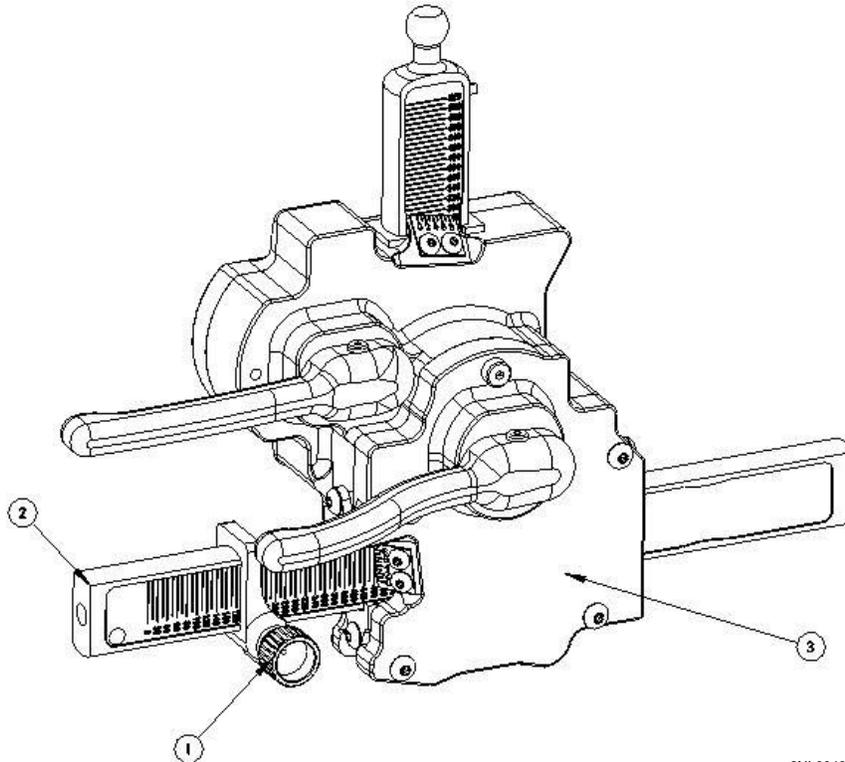
Both the traverse and elevation of T&E may be disengaged for bold movements by pushing or pulling appropriate handle fully forward or fully rearward. Bold adjustments can be made in both traverse and elevation at the same time by squeezing and pushing or pulling both handles. T&E will automatically re-engage (lock in place) when handles are released.

**FINE ADJUSTMENT**

Fine adjustments may be made to both traverse and elevation by vertically manipulating appropriate handle in appropriate direction. To elevate the weapon, manipulate elevation handle (forward-most handle) upward. Depression movements may be accomplished by manipulating handle downward. Right traverse may be accomplished by manipulating traverse handle downward. Upward movement of handle traverses left.

**NOTE**

Each full handle manipulation will change direction of fire approximately 5-mils. No movement will occur unless handle is returned to neutral before the next adjustment. However, adjustments smaller than 5-mils may be accomplished by partial manipulation of handle.



2NL0043

## OPERATOR INSTRUCTIONS FOR M192 MACHINE GUN TRIPOD (cont)

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### BASIC OPERATION (cont)

#### MECHANICAL STOP

Left traverse travel of weapon is ultimately limited when T&E housing reaches right end of traverse bar. Right traverse travel limit may be adjusted via use of the mechanical stop. The mechanical stop is located on the traversing bar (2) left of the T&E mechanism.

#### LOOSENING MECHANICAL STOP

##### CAUTION

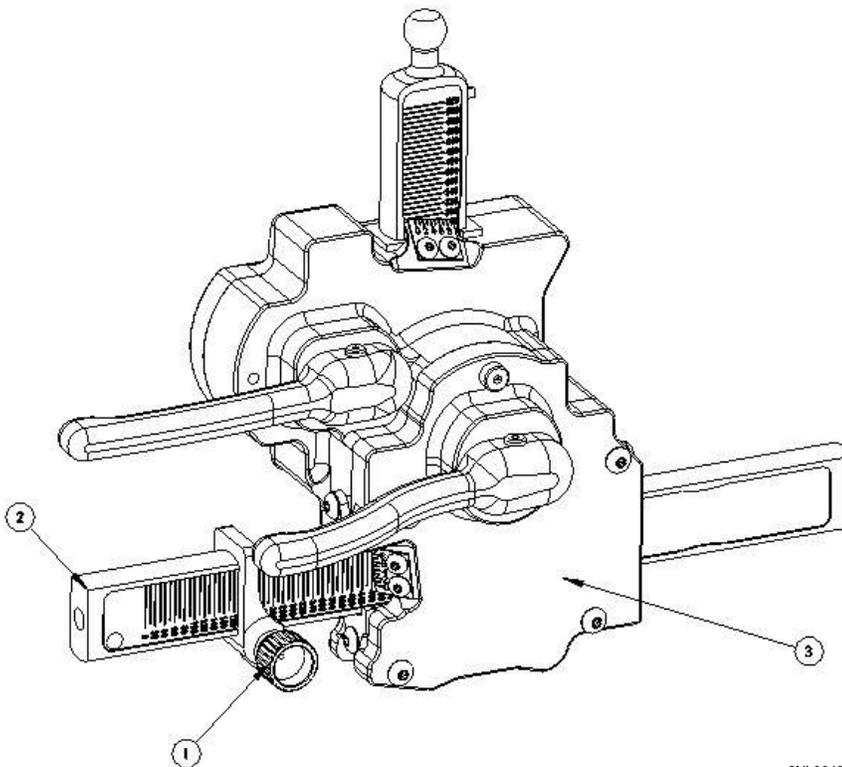
Never use anything other than fingers to tighten or loosen. Limit stop is a self-binding stop. Never use tools to tighten or loosen.

Mechanical stop (1) may be freed by pushing the T&E until contact is made with the stop. While applying pressure to hold in place, loosen screw approximately one full turn.

Alternate Method: Loosen screw while simultaneously applying pressure toward the left on the bottom and to the right on the top of the mechanical stop.

#### SETTING MECHANICAL STOP

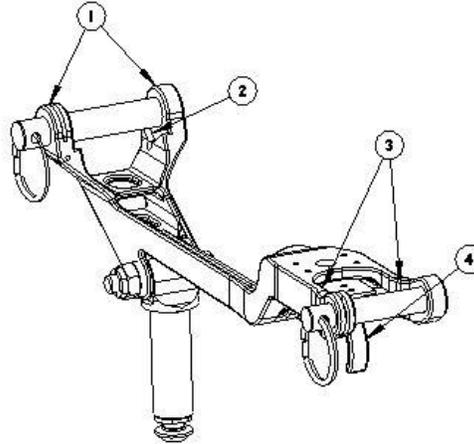
Stop may be set at any desired location by sliding along bar to desired location and tightening clamping screw snugly.



2NL0043

**FREE GUN**

Pull back on latch of quick release assembly (4) to disengage mounting bracket from T&E. Rotate T&E forward. Gun is now free to travel 360 degrees. To re-engage, position elevation bar of T&E under socket of quick release assembly (4). Using hand pressure press down until bar engages with mounting bracket.



2NL0042

**PREPARATION FOR STOWAGE**

Pull quick release latch and raise rear of mounting bracket from elevation bar of T&E. With left thumb depressing pintle latch release, remove mounting bracket from pintle socket. Rotate pintle until flat against mounting bracket. Install mounting bracket on outside of right rear leg of tripod with quick release facing front of mount (or pintle facing rear of mount). Line up rear of bracket with attaching tube and rotate front yoke over leg. Engage pins. Rotate T&E mechanism forward in order to line up with stowage point. Pull out on elevation handle while pushing up on bottom of elevation bar with thumb. Apply pressure until seated into stowage point. Depress elevation handle until elevation bar is seated into stowage point. While holding down leg latch release, fold rear legs forward.

**STOWAGE**

Placed folded tripod into appropriate carrying bag.



## **UNIT MAINTENANCE**



**UNIT MAINTENANCE FOR  
TRIPOD ASSEMBLY, NSNA, P/N 13001670**

This task covers: a. Disassembly b. Inspection/Repair c. Cleaning  
d. Refinishing/lubrication e. Assembly

**INITIAL SETUP**

**Tools and Special Tools:**

Tool Kit, Small Arms Repairman,  
PN SC 5180-95-B71

**Materials/Parts (cont):**

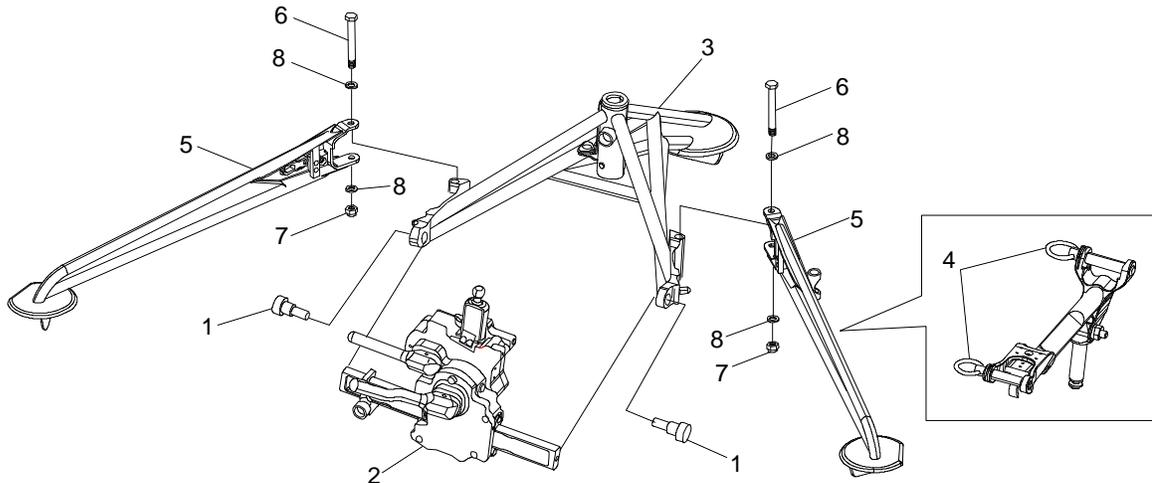
Lubricant, Solid Film, (item 10, WP 0179 00)  
Rag, Wiping, (item 14, WP 0179 00)  
Solvent, Cleaning, (item 17, WP 0179 00)  
Setscrew (2), P/N 13001790  
Stud, Ball (2), P/N 13000682  
Nut, Self-locking (2), P/N 13001704

**Materials/Parts:**

Bushing, Pintle, P/N 13001683  
Cleaner, Lubricant and Preservative, (CLP),  
(item 3, WP 0179 00)  
Cloth, Abrasive, (item 4, WP 0179 00)  
Compound, Sealing, (item 15, WP 0179 00)

**DISASSEMBLY**

Using a hex head wrench, remove two shoulder bolts (1) from ends of traverse bar. Pull traverse and elevation mechanism (2) from yoke or frame assembly (3).



2NL0346

Pull up on quick release pins (4) and remove mounting bracket from stowed position on leg.

Fold legs (5) rearward until latched.

Using a combination wrench to hold bolt (6), remove self-locking nut (7). Remove bolt (6), washers (8), and leg (5) from frame (3).

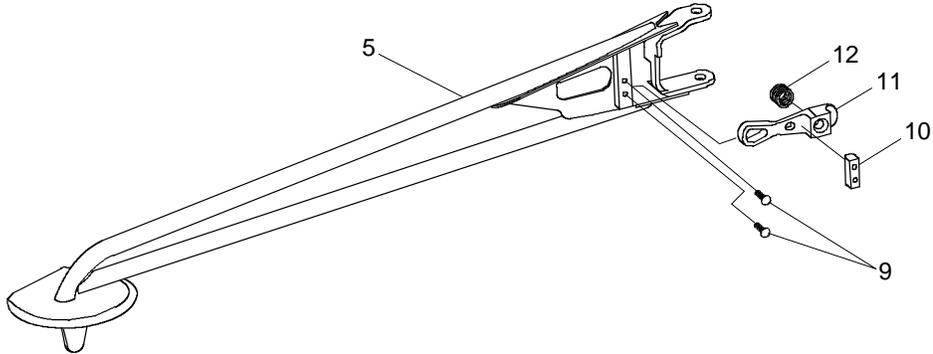
**UNIT MAINTENANCE FOR  
TRIPOD ASSEMBLY, NSNA, P/N 13001670 (cont)**

**DISASSEMBLY (cont)**

**NOTE**

Procedures for both right and left rear legs are the same.

Loosen and remove two button head screws (9) on inside of leg (5), extract latch block (10). Maneuver leg lever (11) through the cutout of the leg, and remove spring (12).

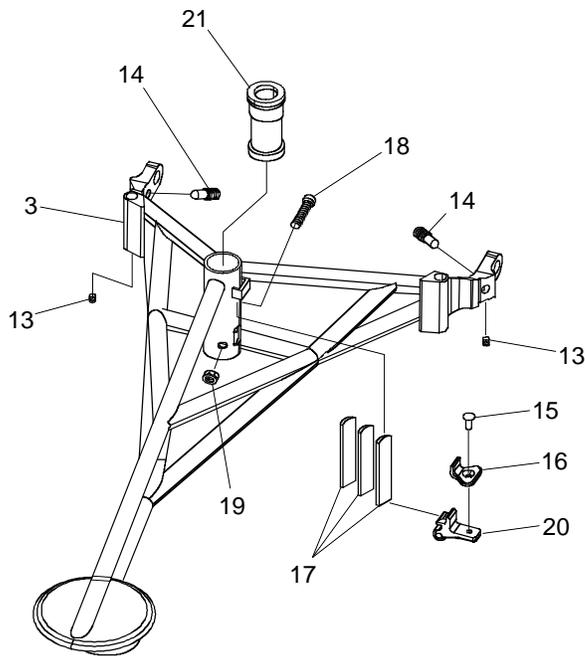


2NL0045

Loosen and remove setscrews (13), turn ball studs (14) clockwise and thread through outside of frame assembly (3).

Loosen and remove flathead screw (15) on release lever (16). Remove release lever (16).

Remove flat springs (17) by pulling out and down.



2NL0046

Loosen and remove shoulder bolt (18) and lock nut (19). Extract pintle latch lever (20) out of slot.

Turn frame assembly upside down and position blocks under frame near bushing. Using a flat tip punch and brass hammer strike evenly around rim of pintle bushing (21) until it slides out of the frame.

**INSPECTION/REPAIR**

Inspect all parts for bends, breaks, cracks and distorted threads.

Remove any nicks or burrs using abrasive cloth.

Touch up any shiny areas using solid film lubricant.

Repair is by replacement of any broken, worn or missing parts.

**CLEANING**

Clean all components with CLP, wipe dry and apply light coat of CLP.

**REFINISHING/LUBRICATION**

Clean area to be refinished with cleaning solvent, wipe dry, and touch-up with SFL. Allow to dry per manufacturer’s instructions. Apply light coat of CPL.

**NOTE**

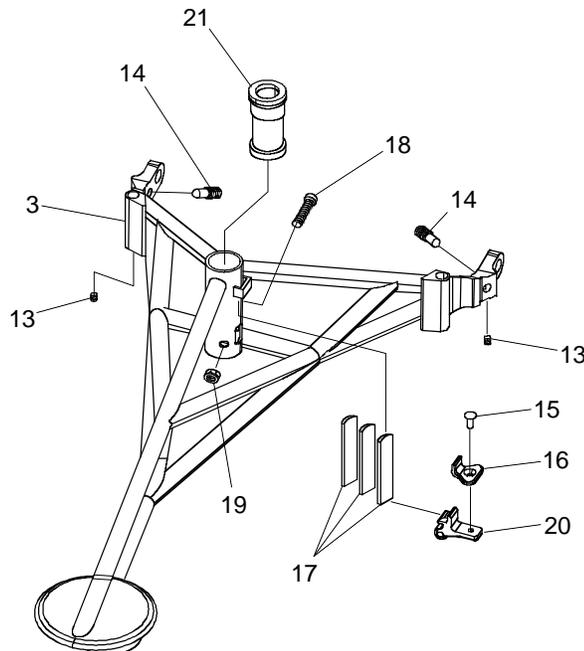
Deploying or combat units may touch-up no more than one third of the tripod with SFL. If more than one third of the surface needs touch-up turn the tripod in for replacement (free issue). All other units may touch-up the entire tripod.

**ASSEMBLY**

**NOTE**

Apply sealing compound to threads of all bolts/screws to be replaced, unless otherwise noted.

Start new pintle bushing (21) into tube. Cover the bushing with a clean wiping rag, strike evenly around the rim with a soft face hammer until bushing lip seats on the rim of the tube.



2NL0046

**UNIT MAINTENANCE FOR  
TRIPOD ASSEMBLY, NSNA, P/N 13001670 (cont)**

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**ASSEMBLY (cont)**

Insert pintle latch lever (20) into slot, aligning hole in lever with hole in tube. Ensure lip on lever is above the bolt position. Insert shoulder bolt (18) and new lock nut (19).

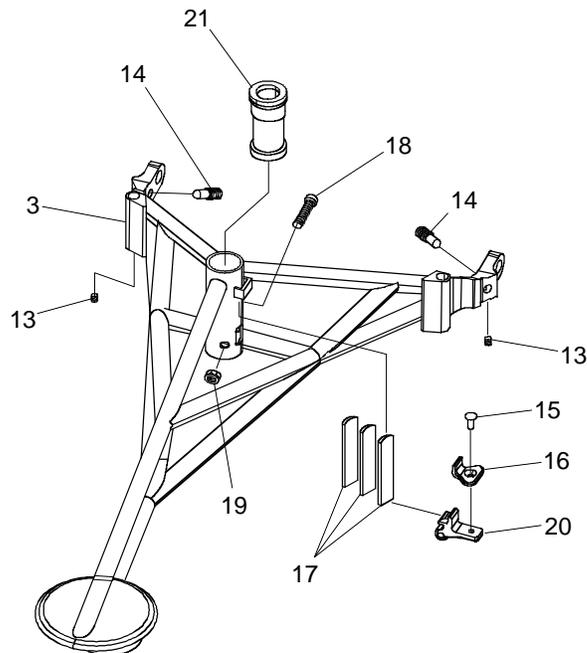
**NOTE**

Ensure springs are below top surface of bushing.

Insert rounded tips of flat springs (17) into bracket above lever. Rest bottom of springs on the face of the lever. Hold release lever (16) onto pintle latch lever and align screw holes; install flathead screw (15) and tighten.

Install new ball studs (14) from the inside of frame assembly yoke (3) by turning clockwise with a screwdriver. Leave approximately 7/16" of ball stud protruding on outside of frame.

Install new setscrews (13) and tighten.



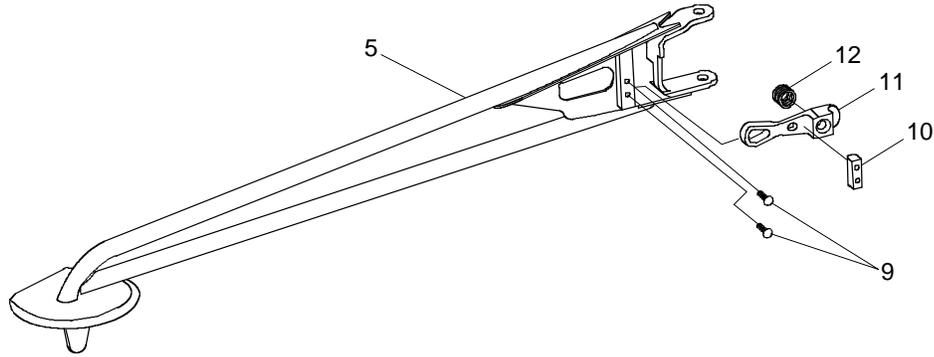
2NL0046

**NOTE**

Rounded end of latch (11) goes into slot in leg (5).

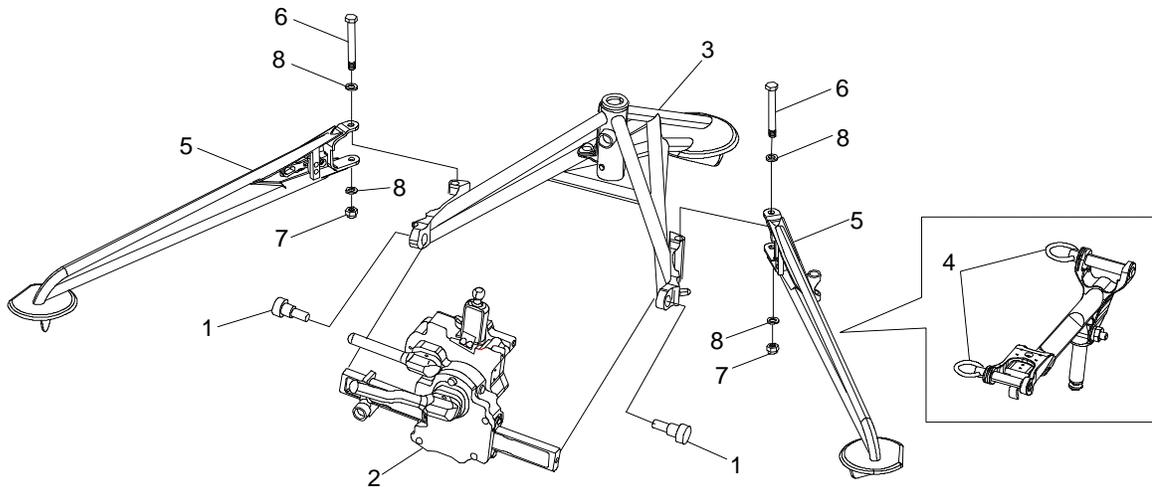
Insert spring (12) and leg lever (11) from outside of leg (5). Compress spring (12) with fingers while pushing leg lever (11) into position.

Hold leg lever (11) down, and insert latch block (10) (beveled side to leg lever). Align holes in latch block (10) to holes in bar on leg (5). Insert two button-head screws (9) and tighten.



2NL0045

Align leg (right or left) with frame assembly and install bolt (6), two washers (8) and new self-locking nut (7). Do not over tighten; leg must be able to rotate to stowed position. Repeat procedure for opposite leg.



2NL0346

Maneuver traversing bar of the T&E into position at the back yoke of frame assembly (3). Align bolt holes, insert shoulder bolts (1) and tighten, do NOT use sealing compound. Do not over tighten; T&E must be able to rotate.

Pull quick release pins (4); align mounting bracket with right leg and secure with quick release pins (4).

**END OF WORK PACKAGE**



**UNIT MAINTENANCE FOR  
MOUNTING BRACKET ASSEMBLY, NSN 1005-01-515-8270, P/N 13001717**

This task covers: a. Disassembly b. Inspection/Repair c. Cleaning  
d. Refinishing/lubrication e. Assembly

**INITIAL SETUP**

**Tools and Special Tools:**

Tool Kit, Small Arms Repairman,  
PN SC 5180-95-B71

**Materials/Parts:**

Cleaner, Lubricant and Preservative, (CLP),  
(item 3, WP 0179 00)  
Cloth, Abrasive, (item 4, WP 0179 00)  
Compound, Sealing, (item 15, WP 0179 00)

**Materials/Parts (cont):**

Lubricant, Solid Film, (item 10, WP 0179 00)  
Rag, Wiping, (item 14, WP 0179 00)  
Solvent, Cleaning, (item 17, WP 0179 00)  
Nut, Self-Locking, P/N 13001737

**Equipment Condition:**

Mounting bracket removed from tripod.

**DISASSEMBLY**

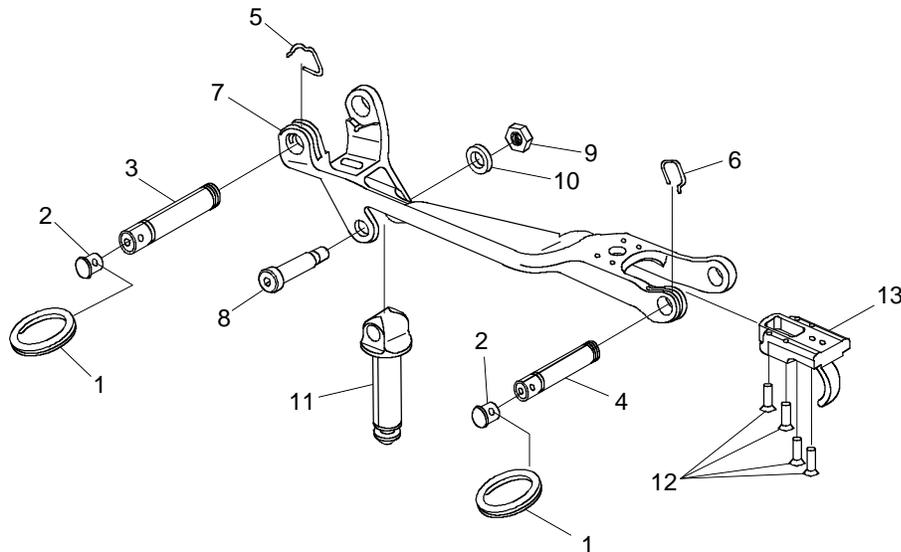
Remove split rings (1), and extract caps (2) from quick release pins (3 and 4).

**NOTE**

Front and rear quick release pins and clips are different. The back (small pin and clip) has a retaining hole on the front side of the yoke while the front (large pin and clip) has a retaining hole on the backside of yoke.

Remove front and rear retaining clips (5 and 6) and front and rear quick release pins (3 and 4) from bracket (7).

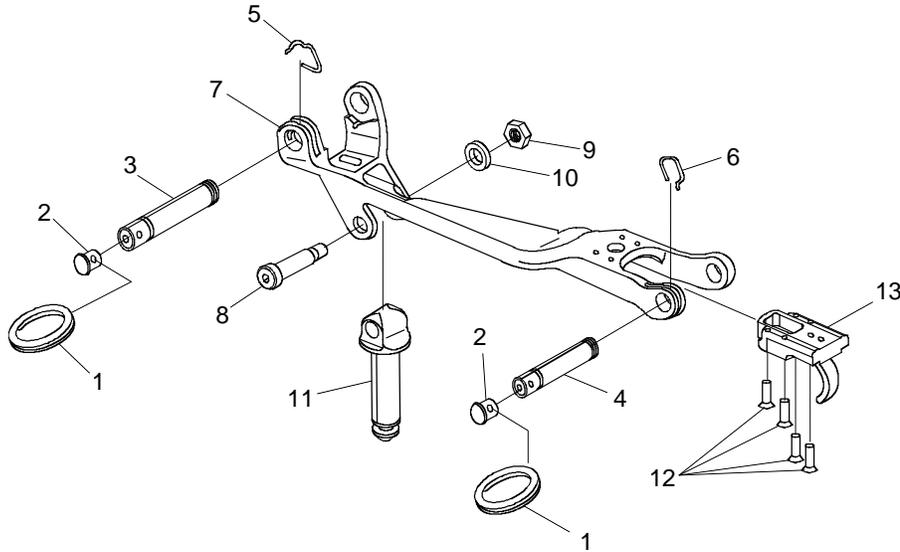
Hold bolt (8) secure with a wrench and remove self-locking nut (9) and washers (10). Discard self-locking nut (9). Remove bolt (8). Pintle (11) should remove easily from bracket (7).



2NL0047

**UNIT MAINTENANCE FOR  
MOUNTING BRACKET ASSEMBLY, NSN 1005-01-515-8270, P/N 13001717**

Loosen and remove four screws (12) on the quick release lock (13). Lock should fall away from bracket.



2NL0047

**INSPECTION/REPAIR**

Inspect all parts for bends, breaks, cracks and distorted threads.

Remove any nicks or burrs using abrasive cloth.

Touch up any shiny areas using dry film lubricant.

Repair is by replacement of any broken, worn or missing parts.

**CLEANING**

Clean all components with CLP, wipe dry and apply light coat of CLP.

**REFINISHING/LUBRICATION**

Clean area to be refinished with cleaning solvent, wipe dry, and touch-up with SFL. Allow to dry per manufacturer's instructions. Apply light coat of CPL.

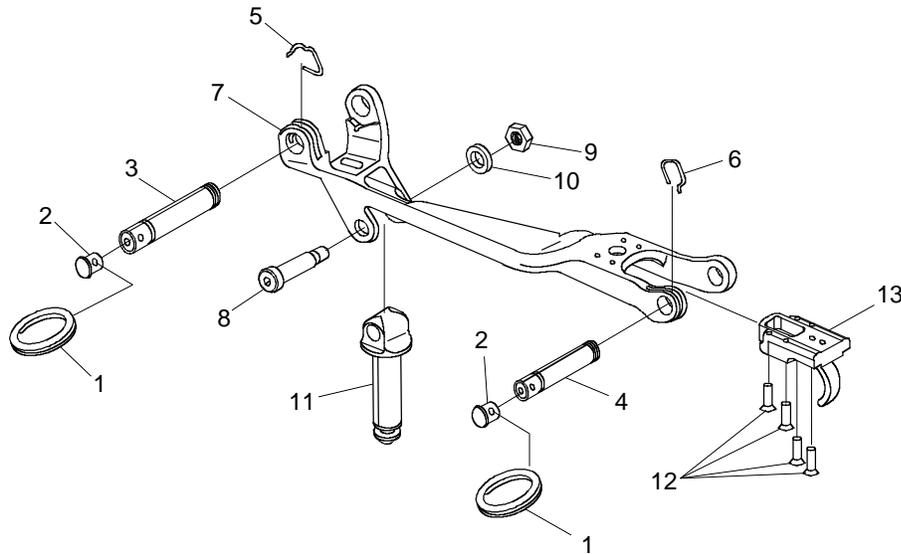
**ASSEMBLY**

**NOTE**

Apply sealing compound to threads of all bolts/screws to be replaced.

Attach quick release lock (13) to mounting bracket (7) with four screws (12). Check for functionality.

Center pintle (11) in front bracket yoke and install bolt (8) washer (10), and nut (9). Do not over tighten; pintle must rotate freely to stowed position.



2NL0047

**NOTE**

Front and rear mounting pins and clips are different. The back (small pin and clip) has a retaining hole on the front side of the yoke while the front (large pin and clip) has a retaining hole on the backside of yoke.

Insert end caps (2) into ends of mounting pins (3 and 4), aligning holes in pin with holes in cap. Pry up one leg of split ring (1) and slide into aligned holes. Continue rotating ring until fully inserted through mounting pin.

Slide front and rear mounting pins (3 and 4) halfway into bracket (7). Insert curved end of front and rear retaining clips (5 and 6) into slot of bracket yoke and straight end in retaining holes. Push down on clips until they snap into place.

**END OF WORK PACKAGE**



**UNIT MAINTENANCE FOR  
TRAVERSING AND ELEVATING MECHANISM ASSEMBLY,  
(TRAVERSE MECHANISM), NSN 1005-01-517-1759, P/N 13001738**

This task covers: a. Disassembly      b. Inspection/Repair      c. Cleaning  
d. Refinishing/lubrication      e. Assembly

**INITIAL SETUP**

Tools and Special Tools:  
Tool Kit, Small Arms Repairman,  
PN SC 5180-95-B71

Materials/Parts (cont):  
Lubricant, Solid Film, (item 10, WP 0179 00)  
Rag, Wiping, (item 14, WP 0179 00)  
Rivet (2), P/N 13001794  
Solvent, Cleaning, (item 17, WP 0179 00)  
Nut, Self-Locking, P/N 13001792

Materials/Parts:  
Cleaner, Lubricant and Preservative, (CLP),  
(item 3, WP 0179 00)  
Cloth, Abrasive, (item 4, WP 0179 00)  
Compound, Sealing, (item 15, WP 0179 00)

Equipment Condition:  
T&E removed from tripod.

**TRAVERSE MECHANISM**

**NOTE**

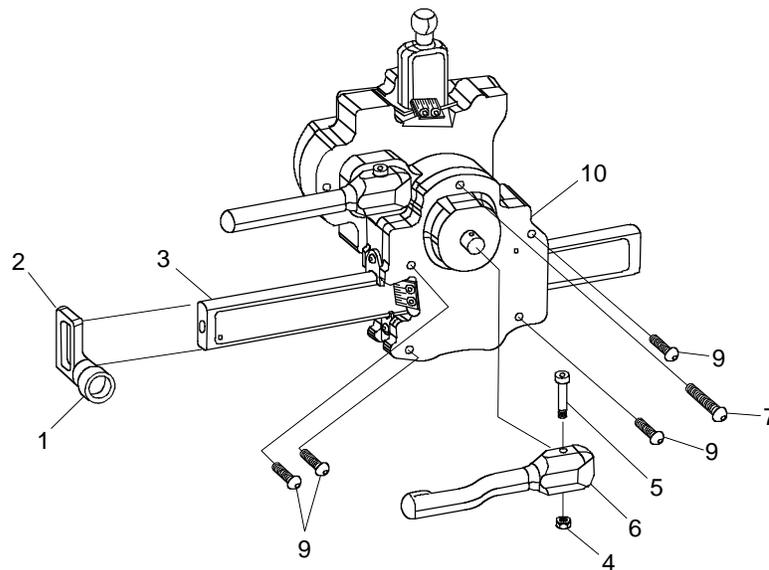
Handles and scales of T&E are on traverse side.

**DISASSEMBLY**

While simultaneously applying pressure toward the left on the bottom and to the right on the top of the mechanical stop (2), loosen thumbscrew (1); slide mechanical stop from the traverse bar (3).

Loosen and remove locking nut (4) and bolt (5) from traverse handle (6). Lift off handle (6). Discard nut.

Loosen and remove shoulder screw (7), and four button head screws (9); carefully lift off traverse cover (10).



2NL0048

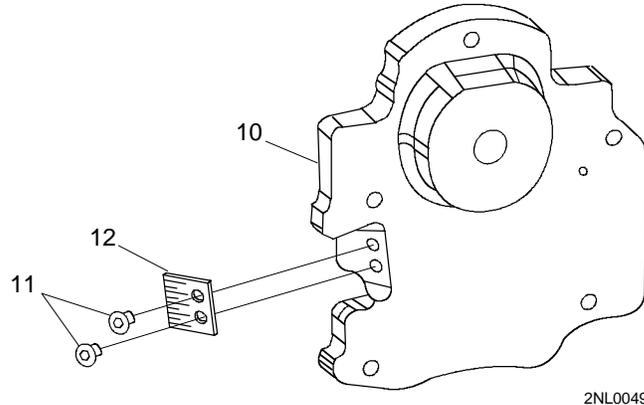
**UNIT MAINTENANCE FOR  
TRAVERSING AND ELEVATING MECHANISM ASSEMBLY,  
(TRAVERSE MECHANISM), NSN 1005-01-517-1759, P/N 13001738 (cont)**

**DISASSEMBLY (cont)**

**NOTE**

Do not remove reader scale unless replacement is required.

Loosen and remove two button head screws (11) and reader scale (12) from traverse cover (10).



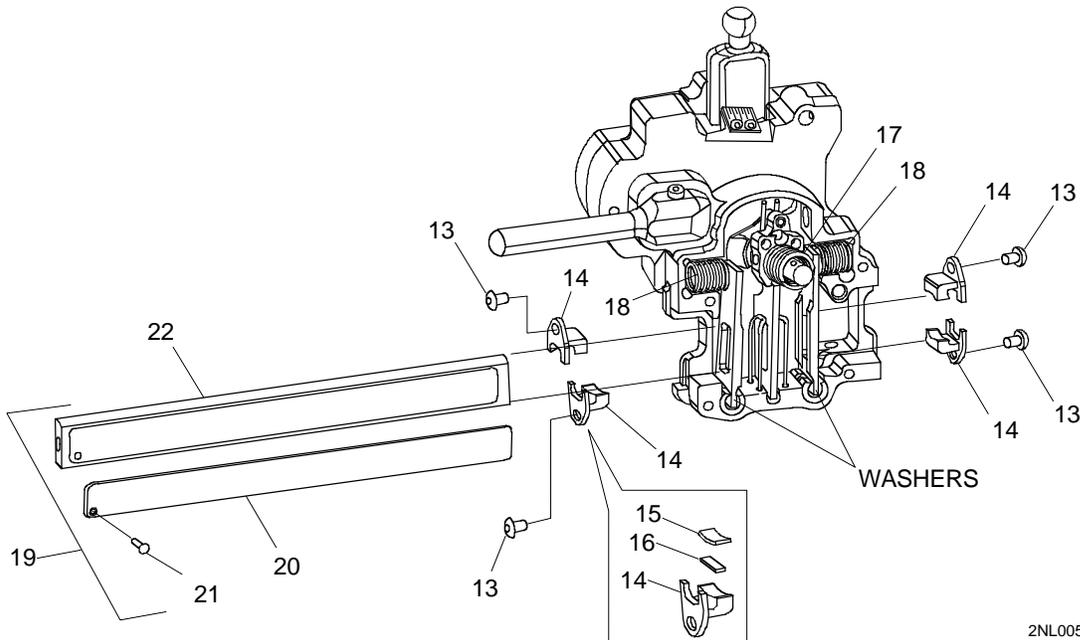
2NL0049

Loosen and remove screws (13), slide out traverse glides (14). If present, remove shims with glides; annotate their size and location for reassembly. Slide traverse guide wiper (15) and rubber seal (16) from traverse glides (14).

**WARNING**

Use care when removing or installing spring-loaded parts.

Lift out bold compression spring (17). Cover traverse compression springs (18) with a cloth. With tip of screwdriver, pry up and remove traverse compression springs (18).



2NL0050

Slide the traverse bar assembly (19) to the left and remove. Maneuver plates (back and forth) if needed to remove traverse bar assembly (19).

**NOTE**

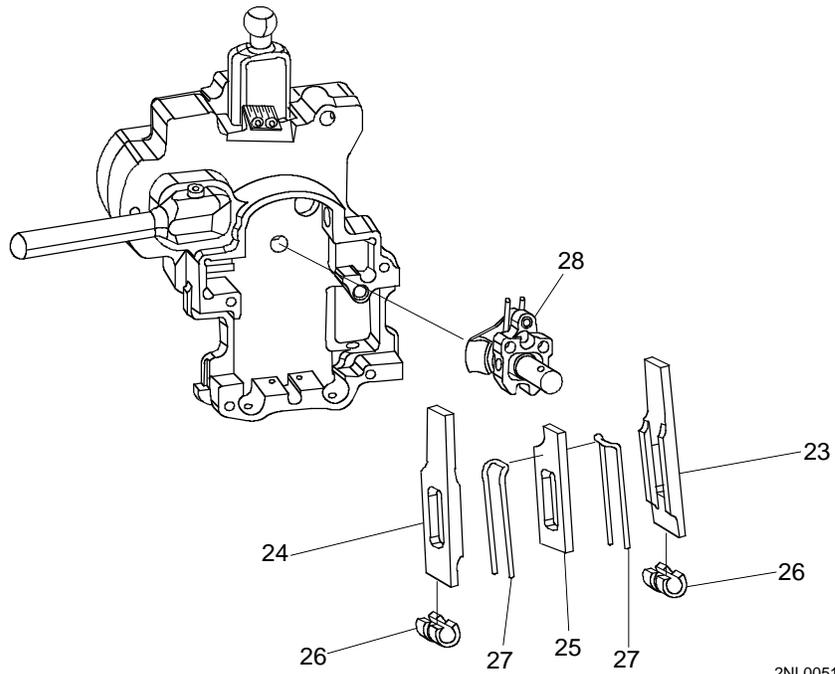
Do not remove scale (20) unless replacement is required.

Remove rivet (21) and slide scale (20) out of bar (21).

**WARNING**

Use care when removing or installing spring-loaded parts.

Lift out left and right plates (23 and 24), locking plate (25), and two keyway washers (26). Slide two centering springs (27) up from holes in housing and lift out. Lift traverse actuator (28) from housing.



2NL0051

**INSPECTION/REPAIR**

Inspect all parts for bends, breaks, cracks and distorted threads.

Remove any nicks or burrs using abrasive cloth.

Touch up any shiny areas (except internal components and scales) using solid film lubricant.

Repair is by replacement of any broken, worn or missing parts.

**CLEANING**

Clean all components with CLP, wipe dry and apply light coat of CLP.

**UNIT MAINTENANCE FOR  
TRAVERSING AND ELEVATING MECHANISM ASSEMBLY,  
(TRAVERSE MECHANISM), NSN 1005-01-517-1759, P/N 13001738 (cont)**

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**REFINISHING/LUBRICATION**

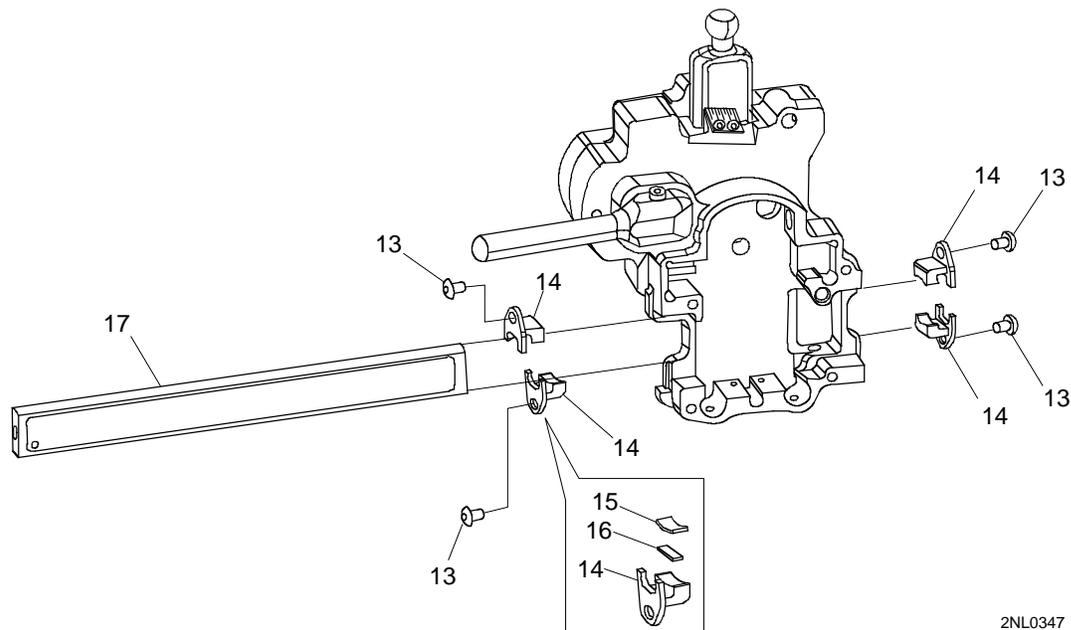
Clean area to be refinished (except internal components and scales) with cleaning solvent, wipe dry, and touch-up with SFL. Allow to dry per manufacturer's instructions. Do NOT use SFL on internal components. Apply light coat of CPL.

**ASSEMBLY**

**WHEN INSTALLING OLD GLIDES**

Insert glides with traverse wipers (15), rubber seals (16) and old shim(s) (if present), into channel of housing.

Install screws (13) and tighten.



2NL0347

**WHEN INSTALLING NEW GLIDES**

**NOTE**

If you are installing new glides use the following procedure. Alignment must be done with internal traverse components removed.

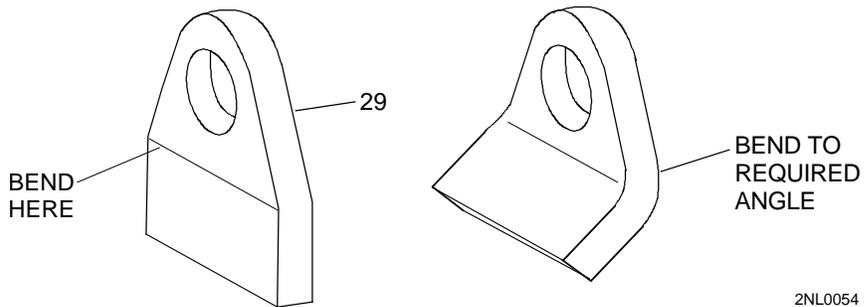
Install traverse glides (14), without traverse wipers (15) and rubber seals (16). Slide traverse bar (17) into channel. Do not install screws (13). Check to see if glides (14) are in contact with the traverse bar (19). The traverse bar (17) must be in contact with glides (14) and still move back and forth easily.

If glides (14) are in contact with bar, continue assembly.

If glides (14) are not in contact with the traverse bar you must remove the glides and insert a shim (29). Begin with the smallest shim and work up until you find the size that allows contact with the traverse bar without binding. Slip the corner of the shim (29) behind the glide and maneuver the bar back and forth.

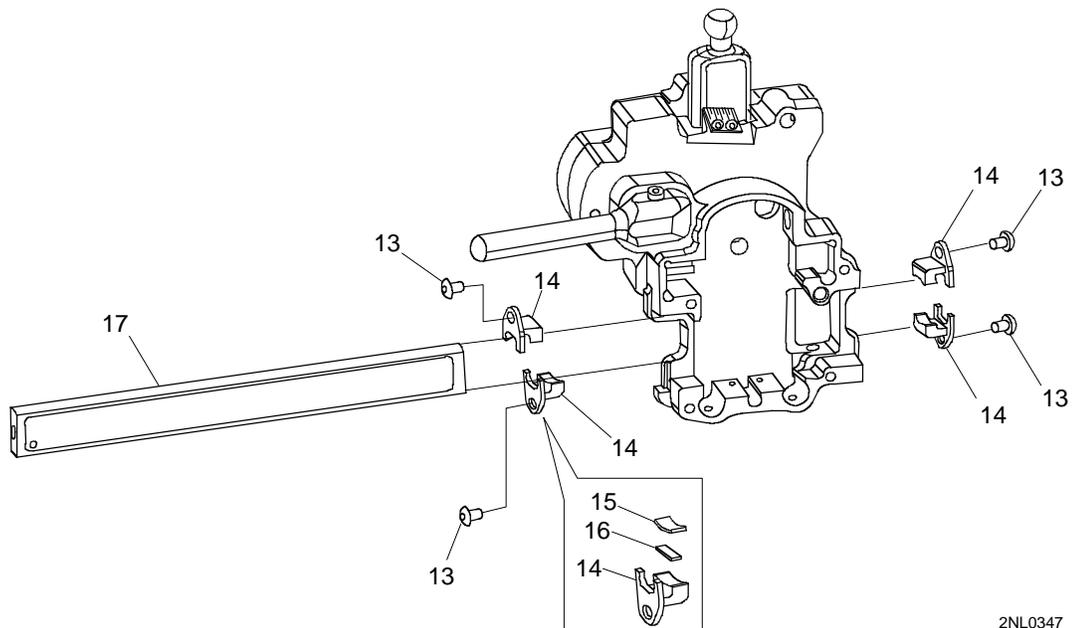
**NOTE**

There is a possibility one or more shims may be needed behind any one glide; or a combination of different shims provides the best fit. There is no need to have the same shims behind any glide to have the best fit. Shims may not be needed under all glides.



2NL0054

Once the shim is selected, bend the shim at the point where taper begins. Place the bent shim (29) behind the glide (14). Install traverse wipers (15) and rubber seals (16) on glides (14). Slide the glides (14) and shims (29) together into housing on top and bottom of traverse bar. Install screws (13) and tighten. Remove traverse bar (17).



2NL0347

**UNIT MAINTENANCE FOR  
TRAVERSING AND ELEVATING MECHANISM ASSEMBLY,  
(TRAVERSE MECHANISM), NSN 1005-01-517-1759, P/N 13001738 (cont)**

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**ASSEMBLY (cont)**

**WARNING**

Use care when removing or installing spring-loaded parts.

Insert actuator cam (28) with spring prongs toward the top. Push actuator (28) completely into housing.

Slide in two keyway washers (26), ensuring slot faces up.

**NOTE**

Plate cutaway is toward the top and face down. The ridge of each plate should face the center of housing.

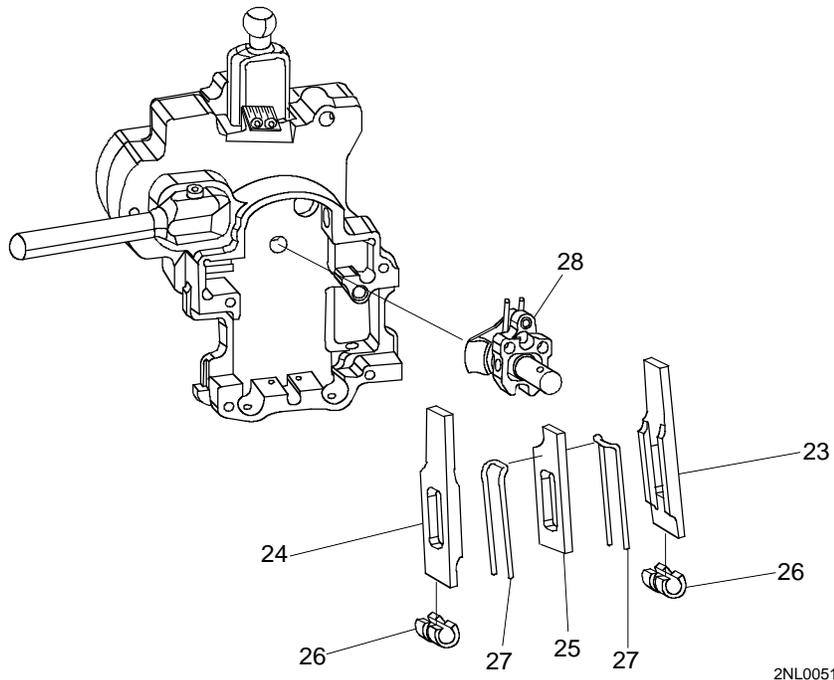
Slide two plates (23 and 24) into slots of keyway washers (26) and along sides of actuator (28).

With curved end of centering springs (26) toward center, insert centering springs (22) into holes of housing.

**NOTE**

Locking plate (25) cutaway is toward the top and facing down.

Slide plate (25) into slot in bottom of actuator and bottom of housing.



2NL0051

If removed, install new scale (20) in traverse bar (22) and secure with rivet (21). Peen over head.

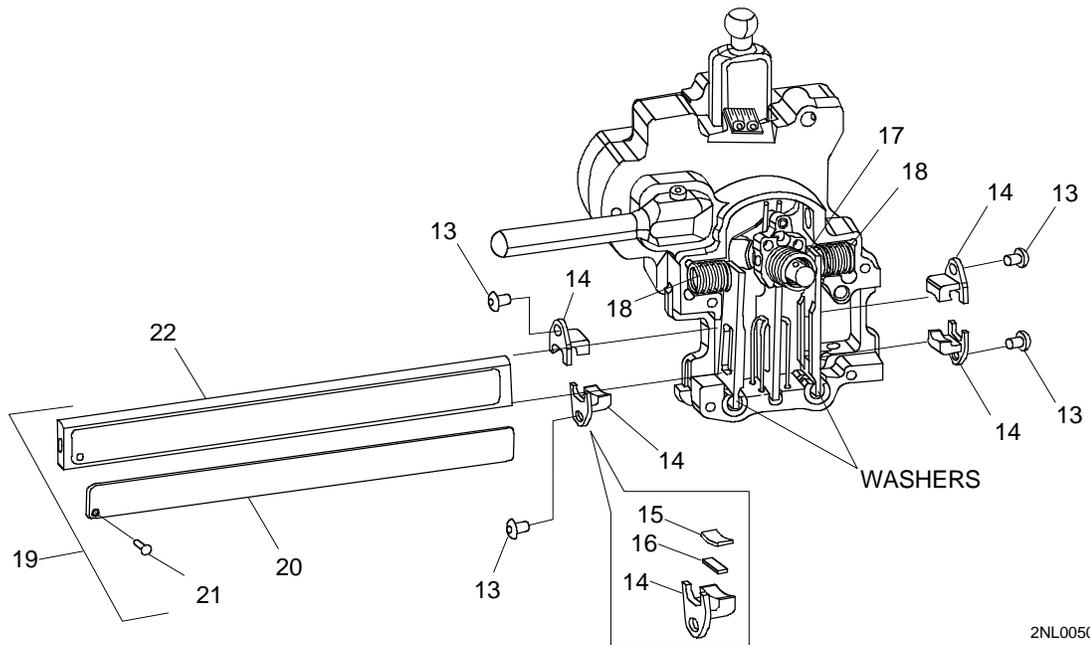
Install traverse bar assembly (19) (scale facing up) blank end first through plates. Maneuver plates (back and forth) if needed to install traverse bar assembly (19). Scale should protrude equally on either side of housing. Ensure centering springs are snug on the top of the traverse bar.

**WARNING**

Use care when removing or installing spring-loaded parts.

Install two traverse compression springs (18). Insert one end of spring in housing, compress and push down on spring at the same time, this requires some effort.

Place bold spring (17) on actuator shaft.



2NL0050

**UNIT MAINTENANCE FOR  
TRAVERSING AND ELEVATING MECHANISM ASSEMBLY,  
(TRAVERSE MECHANISM), NSN 1005-01-517-1759, P/N 13001738 (cont)**

---

**ASSEMBLY (cont)**

**NOTE**

Apply sealing compound to threads of all bolts/screws to be installed.

Adjustment of locking springs may be required to align cover. Use tip of screwdriver to push spring in while installing cover.

Top most screw in housing is the long shoulder screw.

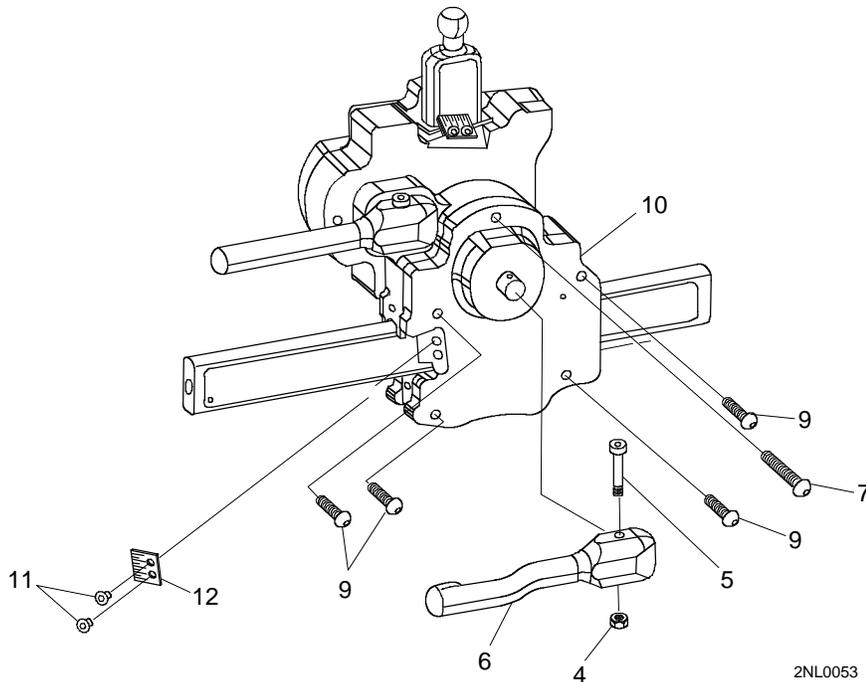
Carefully install cover (10). Engage only a few threads of two screws (9) in opposite corners of the cover. Using a small screwdriver, position the centering springs into slots in cover. Install and tighten all screws (7 and 9).

If removed, install reader scale (12) and two button head screws (11) on traverse cover (10).

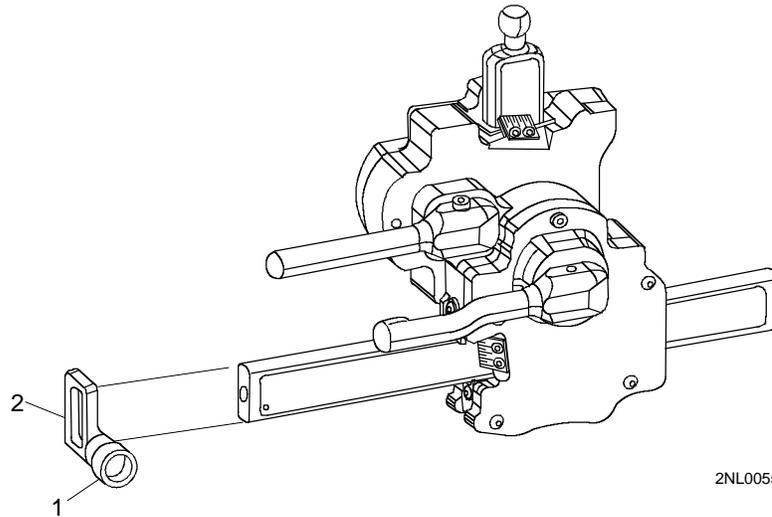
**NOTE**

Do not use sealing compound on handle fasteners.

Install traverse handle (6) (with lever to the left) on actuator shaft. With a small punch, come up from the bottom of handle and align holes in actuator with holes in handle. Install bolt (5) from the top while removing punch. Attach locking nut (4) and tighten.



Slide mechanical stop (2) on left end of traverse bar (thumbscrew up) and tighten thumbscrew screw (1).



Function test the traverse handle. Each complete manipulation of the handle shall move the T&E approximately 5 mils.

END OF WORK PACKAGE

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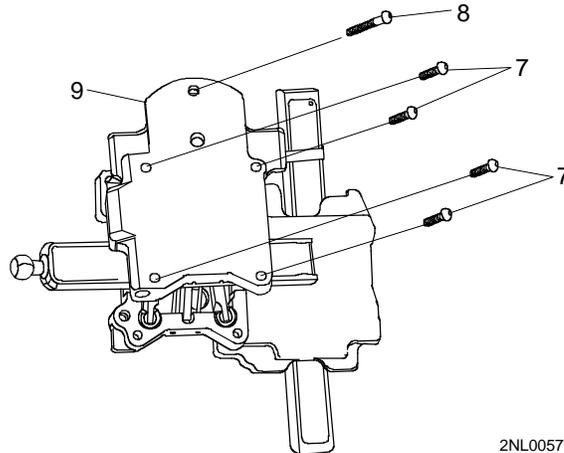


**UNIT MAINTENANCE FOR  
TRAVERSING AND ELEVATING MECHANISM ASSEMBLY,  
(ELEVATING MECHANISM), NSN 1005-01-517-1749, P/N 13001738 (cont)**

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**DISASSEMBLY (cont)**

Loosen and remove four screws (7) and shoulder screw (8) from elevation cover (9). Carefully remove elevation cover (9).



**WARNING**

Use care when removing or installing spring-loaded parts.

**NOTE**

For easier access, rotate the housing so the elevation bar is horizontal (ball end to the left).

Cover T&E with a cloth; with tip of screwdriver pry up and remove two elevation compression springs (10).

Lift out actuator (12) and bold compression spring (11).

Remove button head screw (18) and washer (19) from bottom of elevation bar assembly (15). Carefully remove elevation bar assembly (15) by sliding to the left. (Maneuvering left and right plates back and forth will assist in removal.)

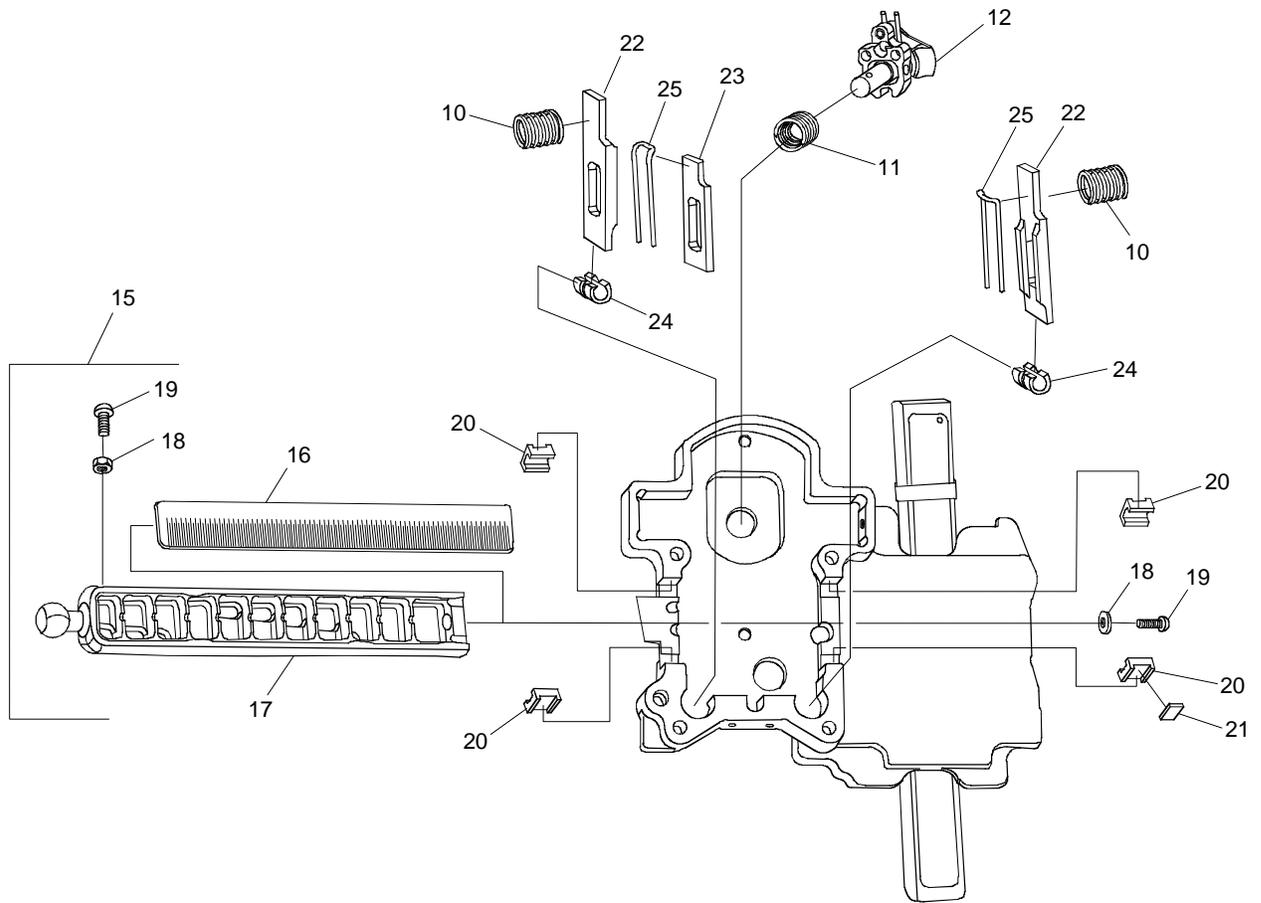
**NOTE**

Do not remove scale (16) unless replacement is required.

Slide the scale (16) down and out of bar (17). Loosen and remove self-locking nut (18) and screw (19). Discard self-locking nut.

Remove elevation glides (20). If present, remove shims (21) with glides and annotate their size and location for reassembly.

Remove elevation plates (22) by pulling up and sliding out. Remove locking plate (23), two keyway washers (24), and two centering springs (25).



2NL0058

**UNIT MAINTENANCE FOR  
TRAVERSING AND ELEVATING MECHANISM ASSEMBLY,  
(ELEVATING MECHANISM), NSN 1005-01-517-1749, P/N 13001738 (cont)**

---

**INSPECTION/REPAIR**

Inspect all parts for bends, breaks, cracks and distorted threads.

Remove any nicks or burrs using abrasive cloth.

Repair is by replacement of any broken, worn or missing parts.

**CLEANING**

Clean all components with CLP; wipe dry and apply light coat of CLP.

**REFINISHING/LUBRICATION**

Clean area to be refinished (except internal components and scales) with cleaning solvent, wipe dry, and touch-up with SFL. Allow to dry per manufacturer's instructions. Apply light coat of CPL.

**ASSEMBLY**

Insert screw (19) and new self-locking nut (19). If removed, slide new scale (16) in elevation bar (17).

**WHEN INSTALLING OLD GLIDES**

Replace old shim(s) (21) in elevation glides (20). Insert glides (20) into channel of housing.

**WHEN INSTALLING NEW GLIDES**

**NOTE**

If you are installing new glides use the following alignment procedure. Alignment must be done with internal elevation components removed.

Install glides (20) into channel of housing. Slide elevation bar (15) into channel. Check if the glides are in contact with the elevating bar (15). The elevation bar (15) must be in contact with glides (20) and still move back and forth freely.

If glides (20) are in contact with elevation bar, continue assembly.

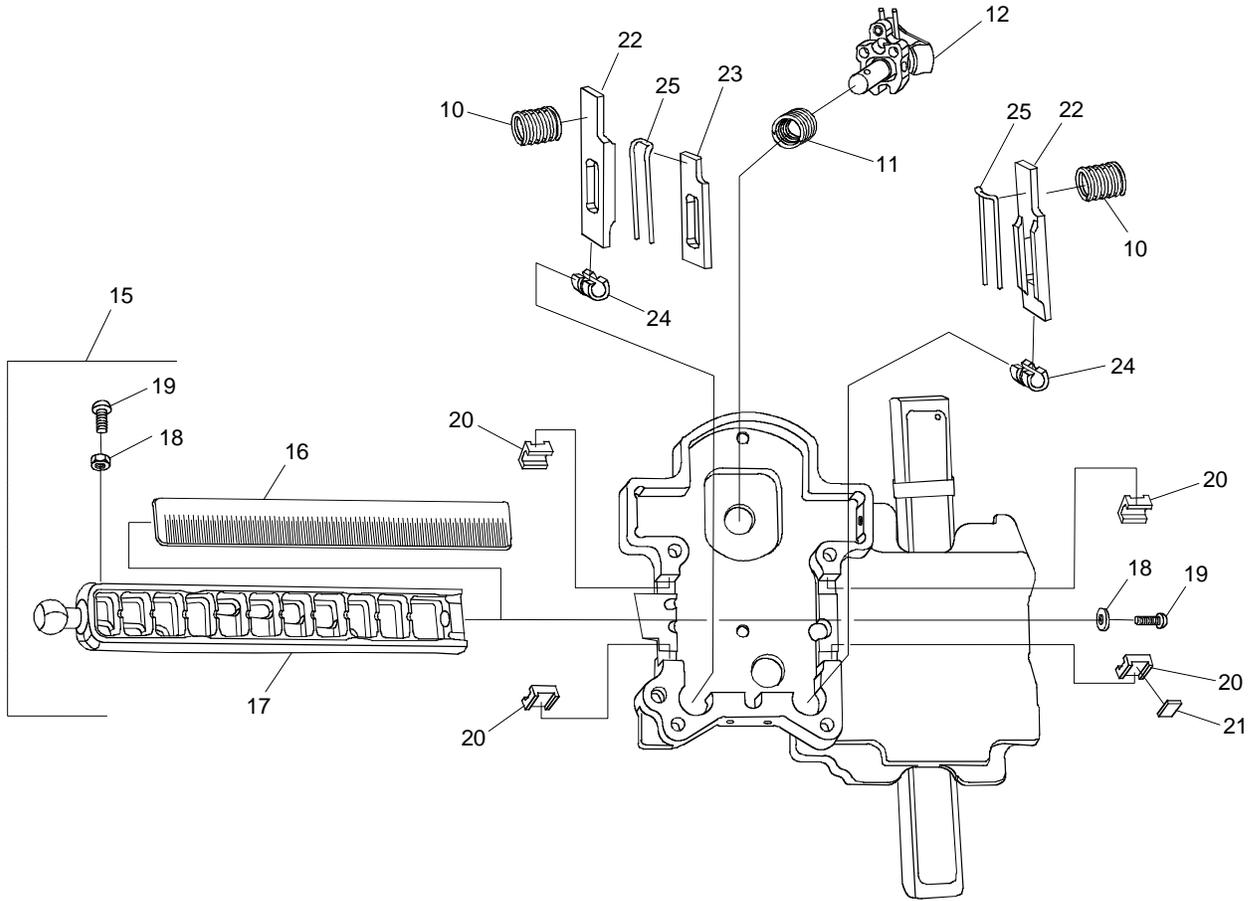
If glides (20) are not in contact with the elevation bar you must remove the glides and insert a shim (21). Begin with the smallest shim and work up until you find the size that allows contact with the elevation bar without binding. Slip the corner of the shim (21) behind the glide and maneuver the bar back and forth.

**NOTE**

There is a possibility one or more shims may be needed behind any one glide; or a combination of different shims provides the best fit. There is no need to have the same shims behind any glide to have the best fit. Shims may not be needed under all glides.

Once the shim is selected, place the shim (21) behind the guide (20). Slide the glides (20) and shims (21) together into housing on top and bottom of elevation bar. Remove elevation bar (15).

Put bold spring (11) on shaft (with hole) of actuator (12) and insert into housing (spring down); ensuring prongs of actuator are facing up. Push down until seated.



2NL0058

Install two keyway washers (24), ensuring slot faces up.

**NOTE**

Plate cutaway is toward the top and face up. The ridge of each washer should face the center of housing.

Slide cutaway of two elevation plates (22) under sides of actuator (12) and into slots of keyway washers (24).

**NOTE**

Locking plate cutaway is toward the top and face up.

Slide locking plate (23) into slot in bottom of actuator (12) and in bottom of housing.

With curved end of centering springs (25) toward center, insert centering springs (25) into holes of housing.

**UNIT MAINTENANCE FOR  
TRAVERSING AND ELEVATING MECHANISM ASSEMBLY,  
(ELEVATING MECHANISM), NSN 1005-01-517-1749, P/N 13001738 (cont)**

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**ASSEMBLY (cont)**

**NOTE**

Maneuver plates and springs to ease installation of elevation bar.

Carefully insert elevation bar assembly (15) by sliding (scale facing down) square end first through plates (22 and 23) and centering springs (25). Elevation bar should protrude equally on either side of housing. Ensure the glides are in contact with the elevation bar.

Apply sealing compound and install washer (14) and button head screw (13).

**WARNING**

Use care when removing or installing spring-loaded parts.

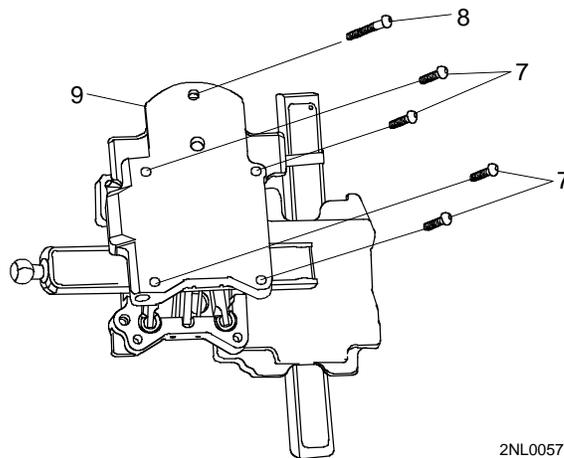
Install two elevation compression springs (10). Insert one end of spring in housing, compress and push down on spring at the same time, this requires some effort.

**NOTE**

Apply sealing compound to threads of all bolts/screws to be replaced.

Adjustment of elevation compression springs (10) may be required to align cover.

Carefully slide on cover (9). Engage only a few threads of two screws in opposite corners of the cover. Using a small screwdriver, position the centering springs (21) into slot on housing. Install and tighten all screws.



2NL0057

**UNIT MAINTENANCE FOR  
TRAVERSING AND ELEVATING MECHANISM ASSEMBLY,  
(ELEVATING MECHANISM), NSN 1005-01-517-1749, P/N 13001738 (cont)**

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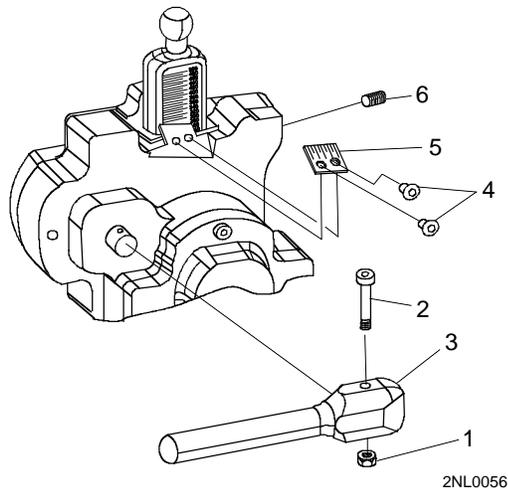
**ASSEMBLY (cont)**

If removed, install elevation handle (3) (with handle to the left) on actuator shaft. Using a punch (inserted from the bottom) align the holes in actuator shaft and handle. Insert shoulder bolt (2) from the top (pushing out the punch), install new locking nut (1) and tighten. NOTE: Do not use sealing compound on bolt.

If removed, install reading scale (5) with two screws (4).

Function test the elevation handle, each complete manipulation of elevation handle shall move the scale approximately 5-mils.

Install flushing plug (6). NOTE: Do not use sealing compound on plug.



**END OF WORK PACKAGE**



**DIRECT SUPPORT MAINTENANCE**



**DIRECT SUPPORT MAINTENANCE FOR  
M192 MACHINE GUN TRIPOD, NSN 1005-01-503-0141, P/N 13001669**

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There are no direct support maintenance procedures for the M192 machine gun tripod.

**END OF WORK PACKAGE**

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## **CHAPTER 4**

### **M3 TRIPOD**



**TM 9-1005-245-13&P**

**OPERATOR  
INSTRUCTIONS**

TM 9-1005-245-13&P

**EQUIPMENT DESCRIPTION AND DATA FOR  
M3 MACHINE GUN TRIPOD, NSN 1005-00-322-9716, P/N 8403398**

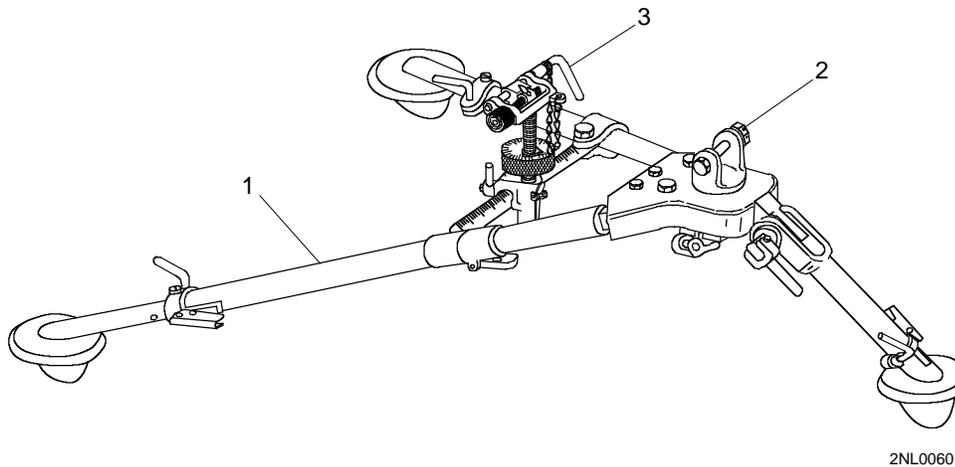
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**EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES**

The M3 machine gun tripod is the standard ground mount for the M2, .50 caliber, Heavy Machine Gun and MK19 Mod 3 Grenade Machine Gun (GMG), with the addition of the MK64 Mod 9 Machine Gun Mount or MK93 Mod 1 or Mod 2 Machine Gun Mount.

It has a folding tripod with three telescopic tubular legs connected at the tripod head. Each leg ends in a metal shoe that can be stamped into the ground for greater stability. The two rear legs are joined together by a traversing bar. The traversing bar serves as a support for the traverse and elevating mechanism, that in turn support the rear of the weapon. The tripod head provides a front support for the weapon that is further supported by the front leg.

**LOCATION AND DESCRIPTION OF MAJOR COMPONENTS**



**TRIPOD (1):** Consists of three telescopic tubular legs connected at the tripod head. A traversing bar joins the two rear legs together.

**PINTLE ASSEMBLY (2):** Provides a means of attaching the M2, .50 caliber, Heavy Machine Gun. The pintle inserts into a brass-bushing sleeve on the head assembly of the tripod. The weapon is secured to the pintle with a bolt, nut and pin.

**ELEVATING MECHANISM (T&E) (3):** Provides means of controlled manipulation and ability to engage pre-determined targets. Elevation mechanism allows for traversing, elevating, and locking of T&E to traverse bar.

**DIFFERENCES BETWEEN MODELS**

Not Applicable.

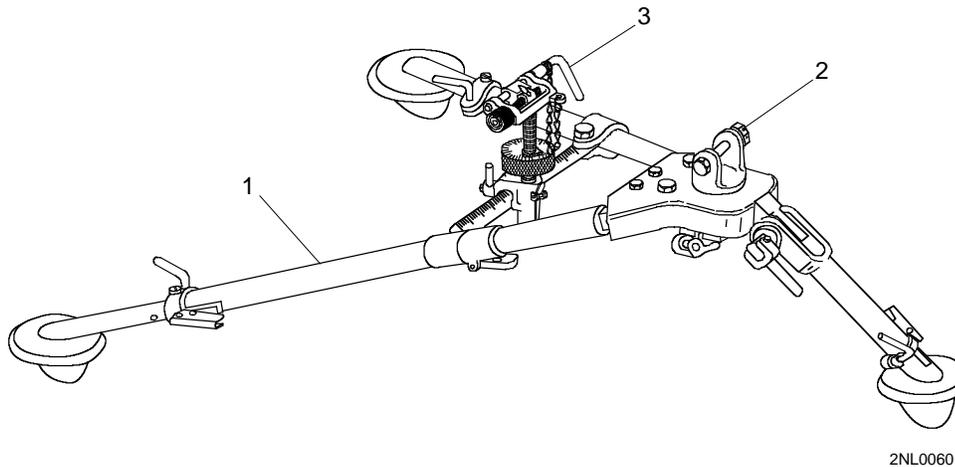


**THEORY OF OPERATION FOR  
M3 MACHINE GUN TRIPOD, NSN 1005-00-322-9716, P/N 8403398**

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The M3 Machine Gun Tripod is a folding tripod with three telescopic tubular legs connected at the tripod head. The two rear legs are joined together by a traversing bar. Each leg ends in a metal shoe that can be stamped into the ground for greater stability. The traversing bar is hinged on one side with a sleeve and on the other side with a sleeve latch. The traversing bar serves as a support for the traverse and elevating mechanism, that in turn support the rear of the weapon. The T&E mechanism is used to engage pre-selected target areas. The elevation scale shows 250-mil depression and 100-mil elevation, graduated in 1-mil increments. The traverse scale shows 400-mil traverse to the right or left. The T&E is clamped in place by a traversing slide lock lever. The head provides a front support for the weapon through a pintle attached to the weapon and tripod.

Components of the M3 Machine Gun Tripod Mount are a tripod (1), pintle (2) and T&E Mechanism (3).



**END OF WORK PACKAGE**



**TROUBLESHOOTING PROCEDURES FOR  
M3 TRIPOD**

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**Table 1. Troubleshooting Procedures for  
M3 Tripod****TRIPOD****SYMPTOM**

Leg(s) will not fully extend and/or lock.

**MALFUNCTION**

Leg or legs are bent.

**CORRECTIVE ACTION**

Notify unit maintenance for repair.

**SYMPTOM**

Leg latch and/or leg sleeve latch will not lock leg in position.

**MALFUNCTION**

Dirt and/or rust on leg latch and/or leg sleeve latch.

**CORRECTIVE ACTION**

Remove dirt and/or rust on leg latch and/or leg sleeve latch. Notify unit maintenance for repair.

**SYMPTOM**

Leg(s) pivot on tripod head.

**MALFUNCTION**

Bolt(s) and nut(s) are missing or loose.

**CORRECTIVE ACTION**

Notify unit maintenance for repair.

**TROUBLESHOOTING PROCEDURES FOR  
M3 TRIPOD (cont)**

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**Table 1. Troubleshooting Procedures for  
M3 Tripod (cont)****PINTLE ASSEMBLY****SYMPTOM**

Pintle will not fit into bushing.

**MALFUNCTION**

Pintle and/or pintle socket is burred and/or dirty.

**CORRECTIVE ACTION**

Remove dirt. Lubricate cleaned areas. Notify unit maintenance for repair.

**SYMPTOM**

Pintle latch will not lock pintle into place.

**MALFUNCTION**

Pintle latch assembly is burred or dirty.

**CORRECTIVE ACTION**

Remove dirt. Lubricate cleaned areas. Notify unit maintenance for repair.

**SYMPTOM**

Adapter quick release pins will not lock weapon onto mount.

**MALFUNCTION**

Pins are bent or dirty.

**CORRECTIVE ACTION**

Remove dirt. Lubricate cleaned areas. Notify unit maintenance for repair.

**T&E ASSEMBLY****SYMPTOM**

Scales are illegible or missing.

**MALFUNCTION**

Scales are worn and/or dirty.

**CORRECTIVE ACTION**

Wipe dirt or debris from scale. Notify unit maintenance for repair.

**SYMPTOM**

T&E will not elevate and/or traverse.

**MALFUNCTION**

T&E is broken, rusty and/or dirty.

**CORRECTIVE ACTION**

Exercise elevation and traverse in each direction. Remove dirt and/or rust. Notify unit maintenance for repair.

**END OF WORK PACKAGE**



**PREVENTIVE MAINTENANCE CHECKS AND SERVICES FOR  
M3 TRIPOD**

**Table 1. Preventive Maintenance Checks and Services for  
M3 Tripod**

Item	Interval	Man-Hours	Item to be Checked	Procedures	Not Fully Mission Capable if:
1	Before/ After		Tripod Mount	Emplace mount. Ensure legs are properly locked and held in a rigid position. Check for broken or missing parts. Apply light coat of CLP to entire mount.  Check legs for bends. Ensure legs will fully extend and sleeve latch will securely lock leg in position.	Parts are broken or missing, preventing safe operation of mount.  Legs are bent; legs will not lock securely in position.
2	Before/ After		Pintle	Check bushing on tripod head for burrs.  Check pintle, bolt and nut for cracks, bends, or burrs.	Bushing is burred and prevents mounting of pintle. Parts are cracked, bent or burred and prevent mounting of weapon. Parts are missing.
3	Before/ After		T&E Mechanism	Function check operation, both elevation/depression and traverse.  Check that scales are securely attached and for legibility.	T&E will properly not elevate/depress or traverse  Scales are loose or illegible.
4	Before/ After		M3 Tripod	Check tripod mount for cleanliness and proper lubrication.  Check for shiny or bare surfaces, and corrosion. If present, clean with cleaning compound (item 14, WP 0179 00) and touch up with SFL (item10, WP 0179 00).	Tripod is dirty and/or not properly lubricated.  Corrosion and/or shiny/bare surfaces are present.

**NOTE**

If you are part of a rapid deployment or divisional combat unit, you can touch up no more than one-third of the tripod with SFL. If more than one-third of the finish is gone, you should turn-in the tripod for replacement. All other units can touch-up 100% of the tripod.

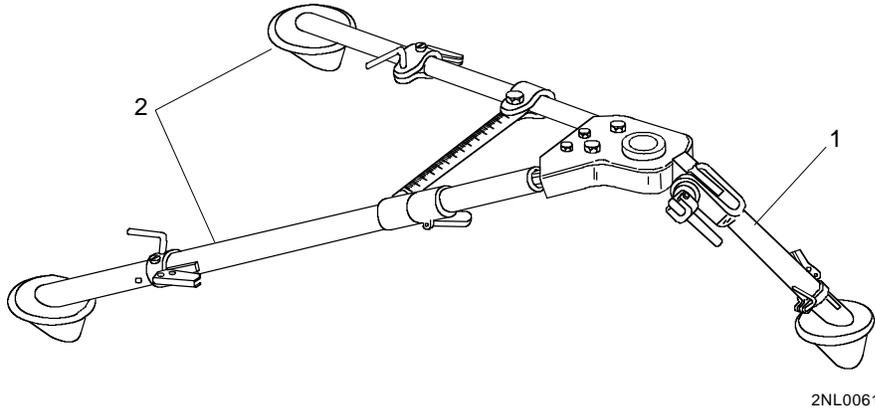
**END OF WORK PACKAGE**



**OPERATOR INSTRUCTIONS FOR  
M3 TRIPOD**

**PLACING INTO OPERATION**

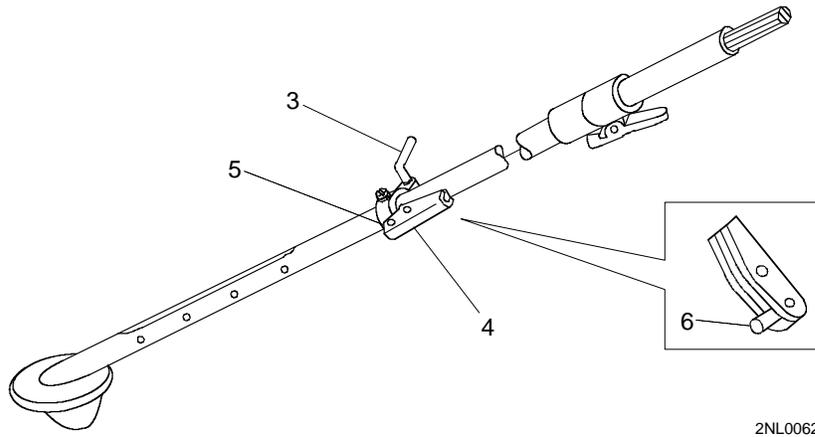
Fully extend front (1) and rear (2) legs of tripod and lock in position.



To adjust the length of the right or left rear leg, loosen manual control handle (3), apply pressure to the manual control lever (4) and extend leg to desired length. Align a hole in lower leg section with hole in upper leg section (5), release manual control lever (4) allowing the stud (6) on lever to lock leg sections together. Tighten manual control handle (3).

**NOTE**

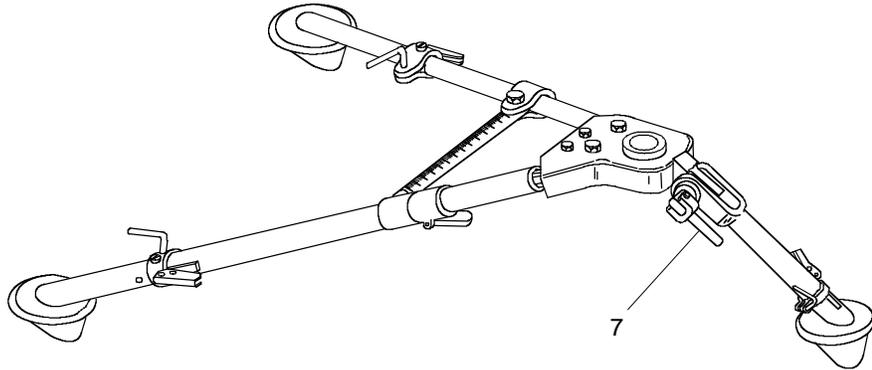
Only right leg is shown removed for illustration purposes.



## OPERATOR INSTRUCTIONS FOR M3 TRIPOD (cont)

### PLACING INTO OPERATION (cont)

Adjust the length of the front leg following the same procedure as the rear legs. The angle of the front leg is adjusted by loosening the manual control handle (7). If desired, sandbag each leg of stability.



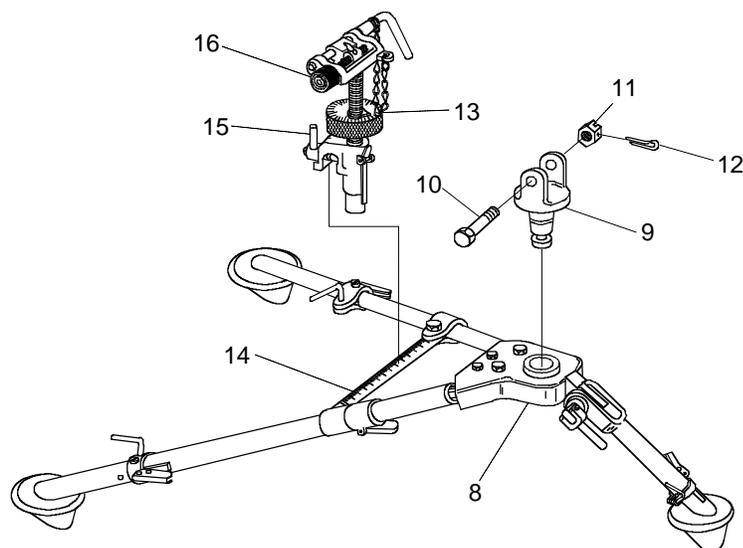
2NL0063

Unlock the pintle latch (8) and insert pintle (9) into bushing on tripod. Release the pintle latch (8) to secure the pintle. Bolt (10), nut (11), and pin (12) are used for mounting of weapon.

#### NOTE

When mounting a weapon, approximately 1 1/2 inches (width of two fingers) of the lower elevating screw should be visible, and the traversing head should be centered on the traversing screw.

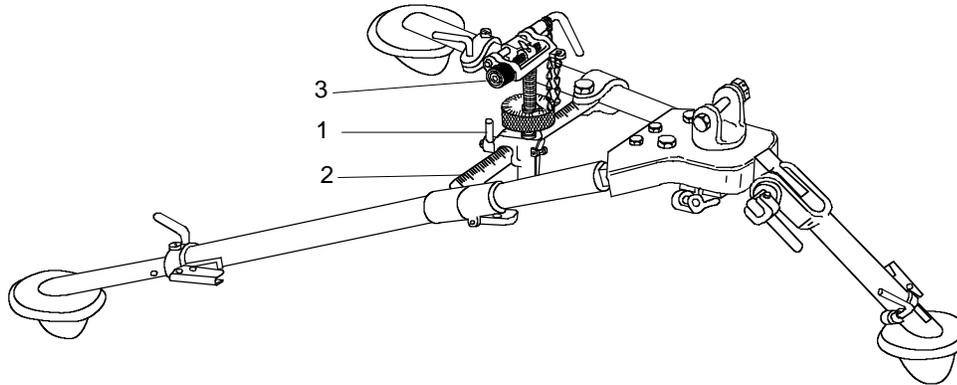
The T&E mechanism (13) is clamped in place on the traverse bar (14) by the locking lever (15). When the T&E mechanism (13) is properly installed it is centered on the traverse bar (14), the locking lever (15) is to the rear, and the traversing hand-wheel (16) is to the right.



2NL0064

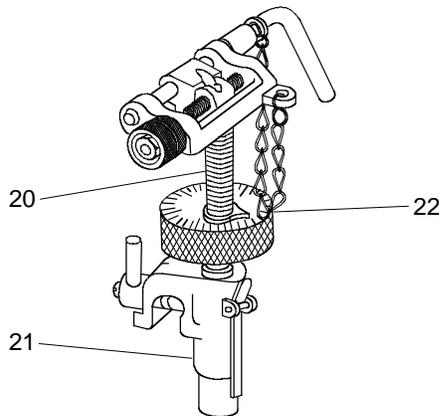
**T&E MECHANISM**

When the T&E is locked to the traverse bar the traversing hand-wheel should be centered. To make changes in direction (right or left), loosen the traversing lock lever (17) and move the sleeve along the traverse bar (18). The T&E will traverse 400-mils left or right from the zero index. The traverse bar is graduated in 5-mil increments and is numbered every 100-mil from the zero index (right or left) up to 400-mils. Readings are taken off the traverse bar from the left side of the traversing sleeve. To make changes of 25-mils or less (right or left) turn the traversing hand wheel (19), the head will appear to move along the traverse screw, moving the weapon right or left. Each click of the traversing hand wheel (19) is 1-mil deflection. The traverse screw has 50-mils total traverse.



2NL0065

The T&E elevation portion consists of the upper (20) and lower (21) elevating screw and elevating hand-wheel (22). The upper screw has a scale that is graduated in 50-mil increments ( $\pm 200$ -mils). The hand-wheel has a dial scale that is graduated in 5-mil increments (50-mil total). Each click of the hand-wheel indicates 1-mil of elevation or depression. Turn the hand-wheel clockwise to depress and counterclockwise to elevate.

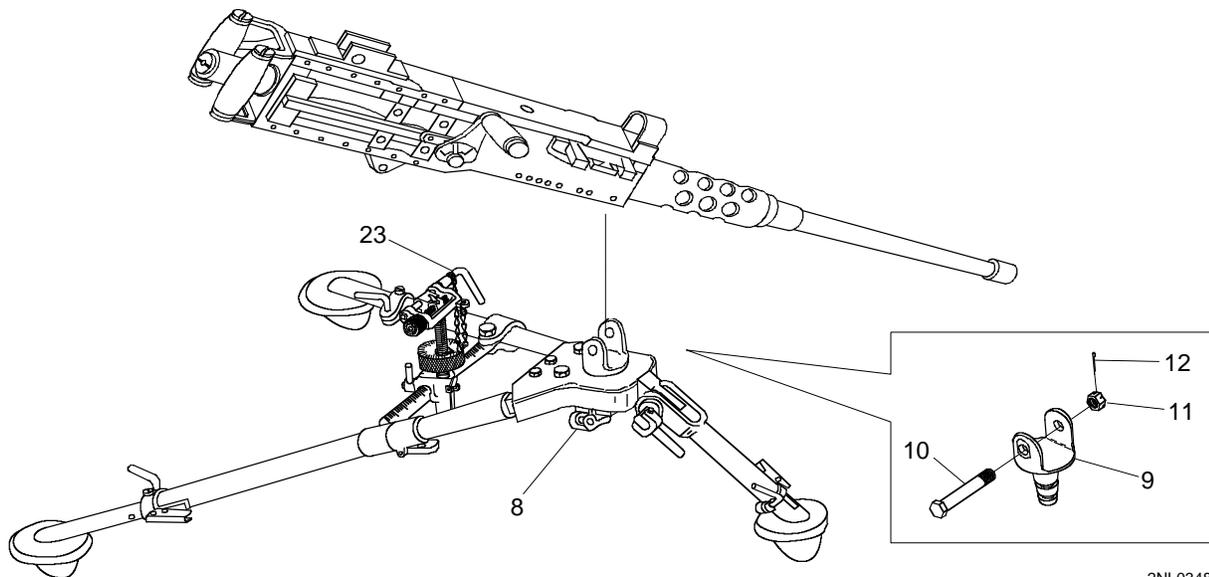


2NL0066

## OPERATOR INSTRUCTIONS FOR M3 TRIPOD (cont)

### MOUNTING M2, .50 CAL, MACHINE GUN

Insert pintle into tripod bushing and lock pintle latch. Pull up on pintle to ensure it is locked on place. Lower weapon onto the pintle aligning the front mounting holes of the weapon with holes in pintle. Insert bolt (10) through both pintle and weapon. Attach nut (11) aligning locking holes in nut with holes in bolt (10). Insert cotter pin (12) and bend legs around nut (11).



2NL0348

### MOUNTING MK19 GRENADE MACHINE GUN

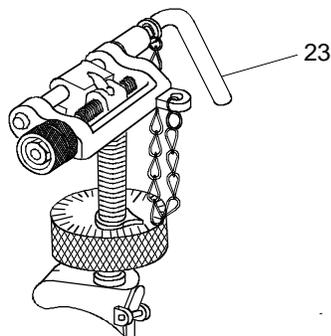
The MK64 Mod 9 (WP 0076 00) or the MK93 Mod 1 or Mod 2 (WP 0109 00) is required in order to utilize the MK19 on the M3 Tripod. Refer to the indicated work packages for instructions on mounting either the M2 or MK19 using the MK64 Mod 9 or the MK93 Mod 1 or Mod 2.

### FREE GUN

Remove quick release pin (23) from rear of weapon and T&E. Gun is now free to rotate 360° if needed. To re-engage align the rear mounting holes of the weapon to the traversing head and insert quick release pin (23).

#### NOTE

Weapon not shown for clarity.



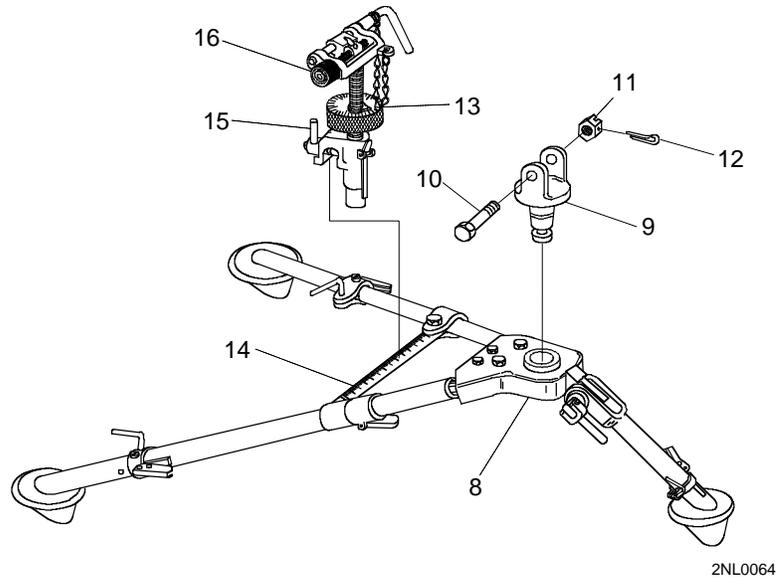
2NL0067

**TAKING OUT OF OPERATION**

Clear the weapon in accordance with applicable weapon's operator's technical manual. Remove quick release pin (17) from rear of weapon and T&E. Remove pin (12), nut (11), and remove bolt (10) from pintle (9) and weapon.

**PREPARATION FOR MOVEMENT**

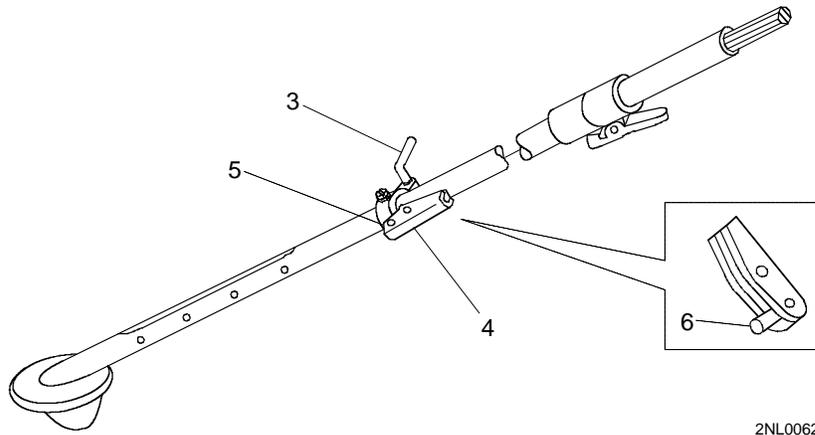
Disengage the pintle latch and remove pintle (9). Turn traverse lock lever (15) counterclockwise until loose, and lift the T&E mechanism (13) from the traverse bar.



If rear legs are extended loosen manual control handle (3), apply pressure to the manual control lever (4), and slide the lower leg section into upper leg section. Align last hole in lower leg section with hole in upper leg section (5), release manual control lever (4) allowing the stud (6) on lever to lock leg sections together.

**NOTE**

Only right leg is shown removed for illustration purposes.

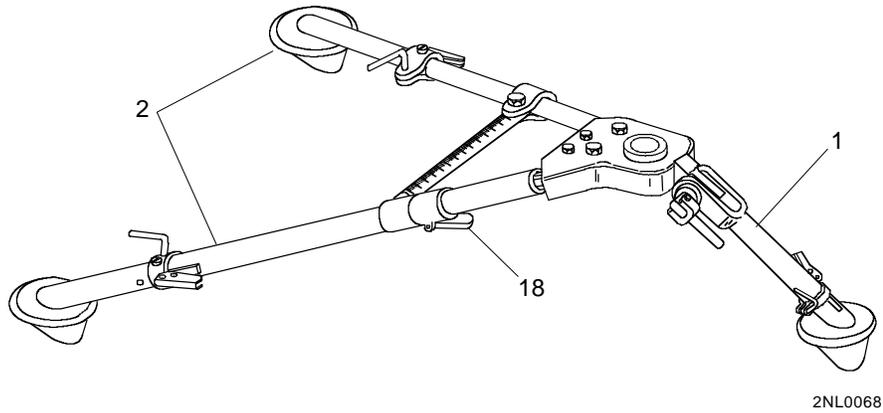


**OPERATOR INSTRUCTIONS FOR  
M3 TRIPOD (cont)**

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**PREPARATION FOR MOVEMENT (cont)**

Depress the sleeve latch (18) and fold the rear legs (2) together, fold the front leg (1) rearward.

**NOTE**

Use non-electrical wire to attach components to folded tripod.

**END OF WORK PACKAGE**

## **UNIT MAINTENANCE**



**UNIT MAINTENANCE FOR  
M3 MACHINE GUN TRIPOD, NSN 1005-00-322-9716, P/N 8403398**

This task covers: a. Disassembly b. Inspection/Repair c. Cleaning  
d. Refinishing/Lubrication e. Assembly

**INITIAL SETUP**

Tools and Special Tools:  
Tool Kit, Small Arms Repairman,  
PN SC 5180-95-B71

Materials/Parts (cont):  
Lubricant, Solid Film, (item 10, WP 0179 00)  
Rag, Wiping, (item 14, WP 0179 00)  
Solvent, Cleaning, (item 16, WP 0179 00)

Materials/Parts:  
Cleaner, Lubricant and Preservative, (CLP),  
(item 3, WP 0179 00)  
Cotter pin, P/N MS24665-834

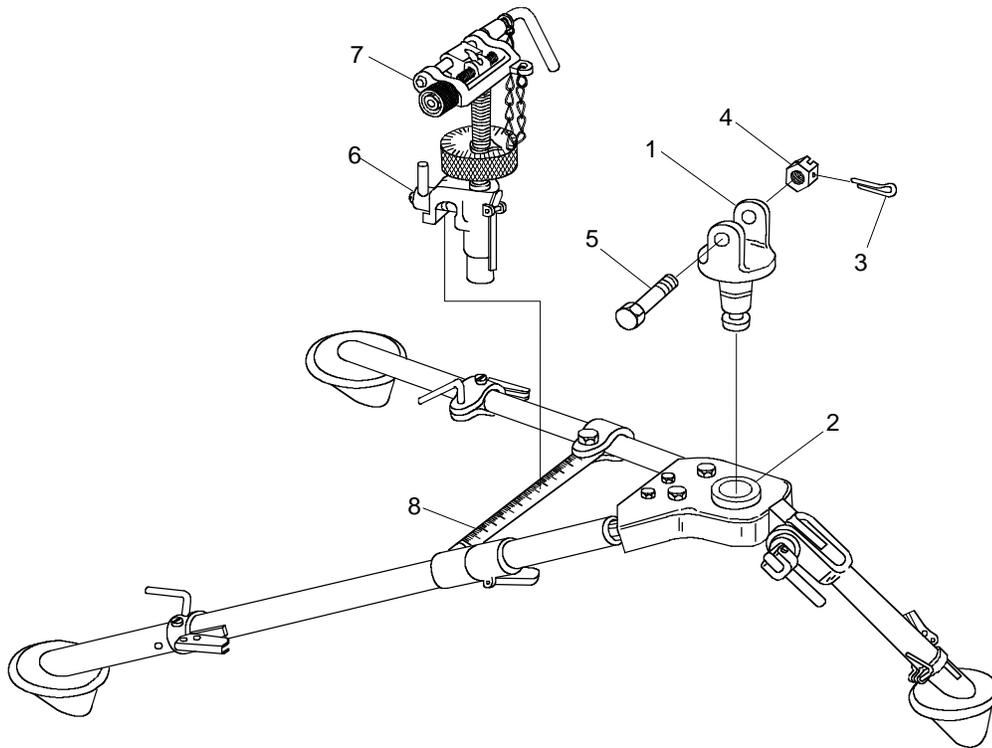
Equipment Condition:  
Pintle and T&E separated from tripod.

**DISASSEMBLY**

If damaged, remove mount pintle (1) from sleeve bearing (2).

Remove cotter pin (3), slotted plain nut (4), and machine bolt (5) from mount pintle (1). Discard cotter pin.

Turn remote control lever (6) counterclockwise and remove elevation mechanism (7) from traversing bar assembly (8).



2NL0069

## UNIT MAINTENANCE FOR M3 MACHINE GUN TRIPOD, NSN 1005-00-322-9716, P/N 8403398 (cont)

### INSPECTION/REPAIR

Inspect for broken, damaged, or missing parts; check welds for cracks.

The T&E mechanism is a repairable assembly, notify direct support maintenance.

Repair is by replacement of authorized parts.

### CLEANING

Clean all components with CLP, wipe dry and apply light coat of CLP.

### REFINISHING/LUBRICATION

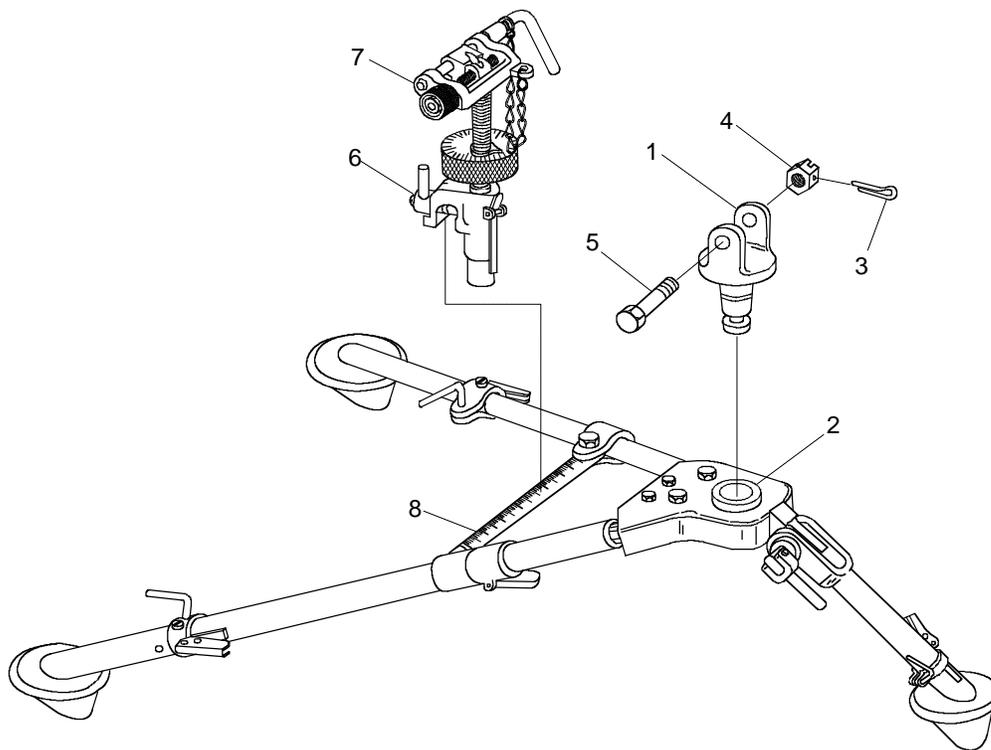
#### NOTE

Deploying or combat units may touch-up no more than one third of the tripod with SFL. If more than one third of the surface needs touch-up turn the tripod in for replacement (free issue). All other units may touch-up the entire tripod.

Clean area to be refinished with cleaning solvent, wipe dry, and touch-up with SFL. Allow to dry per manufacturer's instructions. Apply light coat of CPL.

### ASSEMBLY

Place T&E mechanism (7) on traversing bar assembly (8) and secure by turning remote control lever (6) clockwise.



2NL0069

Insert machine bolt (5) through holes in pintle (1), attach slotted plain nut (4) and tighten aligning holes in nut (4) and bolt (5). Insert new cotter pin (3), bend legs of cotter pin only enough to secure.

Install mount pintle (1) on sleeve bearing (2).

**END OF WORK PACKAGE**

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**UNIT MAINTENANCE FOR -  
 LEG, TRIPOD MOUNT (LEFT REAR), NSN 1005-00-650-7137, P/N 6507137; AND  
 LEG, TRIPOD MOUNT (RIGHT REAR), NSN 1005-00-650-7136, P/N 6507136**

This task covers: a. Disassembly    b. Inspection/Repair    c. Cleaning  
 d. Refinishing/Lubrication    e. Assembly

**INITIAL SETUP**

Tools and Special Tools:  
 Tool Kit, Small Arms Repairman,  
 PN SC 5180-95-B71

Materials/Parts (cont):  
 Lubricant, Solid Film, (item 10, WP 0179 00)  
 Rag, Wiping, (item 14, WP 0179 00)  
 Solvent, Cleaning, (item 17, WP 0179 00)

Materials/Parts:  
 Cleaner, Lubricant and Preservative, (CLP),  
 (item 3, WP 0179 00)  
 Lock-washer, P/N 11010530

Equipment Condition:  
 Pintle and T&E removed from tripod.

**NOTE**

Unit maintenance on the tripod legs (left rear, and right rear) consists of replacing hardware that is missing or damaged. Procedures for both legs are identical, except where noted. Only the right leg is illustrated, and is shown removed for clarity.

**DISASSEMBLY**

**WARNING**

To avoid injury to your eyes, use care when removing and installing spring-loaded parts.

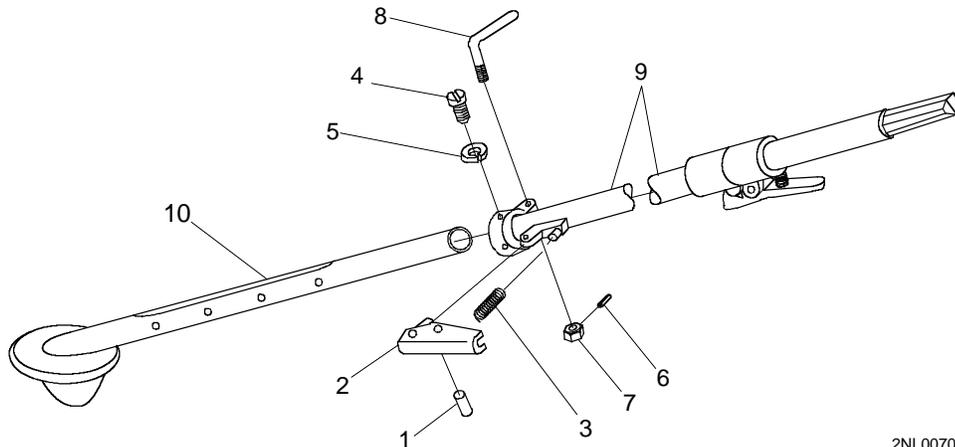
To avoid injury to your eyes, wear safety glasses when grinding parts.

**NOTE**

If straight pin (1) cannot be removed, notify direct support maintenance.

Remove headless straight pin (1). Remove manual control lever (2) and helical compression spring (3). (Right leg only.)

Remove setscrew (4) and lock-washer (5). Discard lock-washer (5).



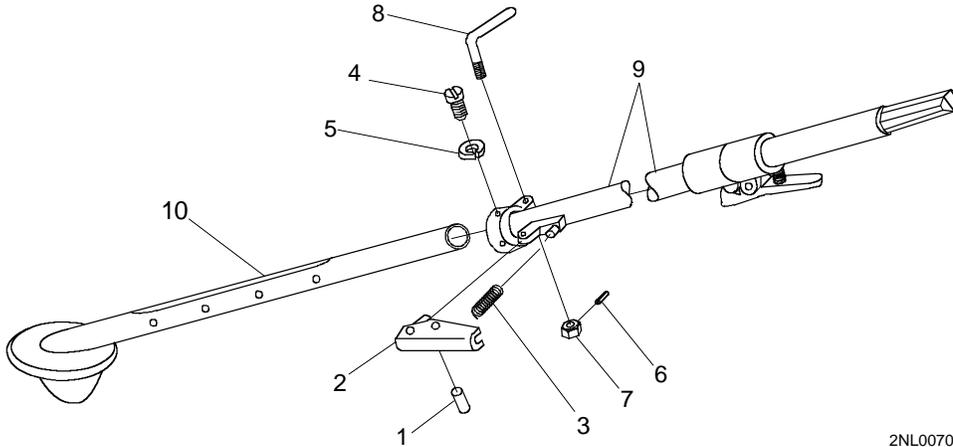
2NL0070

**UNIT MAINTENANCE FOR -  
LEG, TRIPOD MOUNT (LEFT REAR), NSN 1005-00-650-7137, P/N 6507137; AND  
LEG, TRIPOD MOUNT (RIGHT REAR), NSN 1005-00-650-7136, P/N 6507136 (cont)**

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Using a hammer and punch, remove spring pin (6), hexagon plain nut (7), and manual control handle (8) from leg (9). Discard spring pin (6).

Remove lower leg section (10) from leg (9).



2NL0070

**INSPECTION/REPAIR**

Inspect for broken, damaged, or missing parts.

Repair is by replacement of authorized parts.

If leg (9) is damaged, repair is by replacement of next higher assembly.

**CLEANING**

Clean all components with CLP, wipe dry and apply light coat of CLP.

**REFINISHING/LUBRICATION**

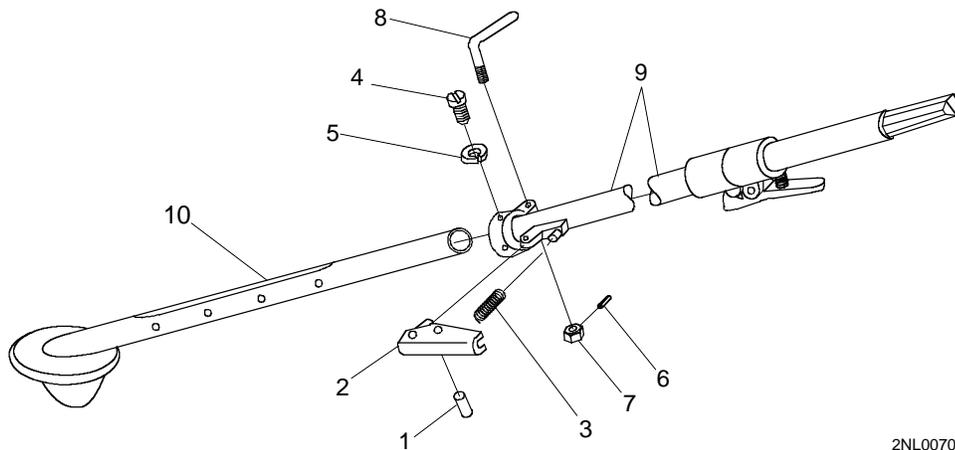
Clean area to be refinished with cleaning solvent, wipe dry, and touch-up with SFL. Allow to dry per manufacturer's instructions. Apply light coat of CPL.

**ASSEMBLY**

Slide lower leg section (10) into leg (9) and install new lock-washer (5) and setscrew (4).

Install manual control handle (11) in leg (12). Screw hexagon plain nut (10) on manual control handle and tighten, leaving a 0.005 + 0.015 in. (0.013 + 0.038 cm) clearance between hexagon plain nut and leg. If new manual control handle (8) is installed, drill a 0.062 + 0.003 in. (0.157 + 0.008 cm) diameter hole for spring pin (6) in manual control handle (8), using hexagon plain nut (7) as a guide. Install new spring pin (6). Stake nut at both ends of spring pin.

**HINT:** Three sheets of paper are approximately .003 thick. Tighten nut, with paper between the leg (9) and nut, until the paper can be pulled out but a drag is felt.



2NL0070

Install helical compression spring (3), manual control lever (2), and headless straight pin (1). Stake headless straight pin (1) securely at both ends.

**NOTE**

Manual control should pivot freely after staking and return to original position by spring force after compression.

Tripod leg section (10) should slide freely when clamping is released.

**END OF WORK PACKAGE**

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**UNIT SUPPORT MAINTENANCE FOR  
LEG TRIPOD MOUNT (FRONT), NSNA, P/N 5559423;  
BEARING HEAD ASSEMBLY, NSNA, P/N 8448211; AND  
MACHINE BOLT, NSN 5306-00-610-8395, P/N 6108395**

This task covers: a. Disassembly    b. Inspection/Repair    c. Cleaning  
d. Refinishing/Lubrication    e. Assembly

**INITIAL SETUP**

**Tools and Special Tools:**

Tool Kit, Small Arms Repairman,  
PN SC 5180-95-B71

**Materials/Parts (cont):**

Lubricant, Solid Film, (item 10, WP 0179 00)  
Rag, Wiping, (item 14, WP 0179 00)  
Solvent, Cleaning, (item 17, WP 0179 00)  
Spring pin, P/N MS39086-54  
Spring pin, P/N MS39086-95

**Materials/Parts:**

Cleaner, Lubricant and Preservative, (CLP),  
(item 3, WP 0179 00)  
Lock-washer (2), P/N 11010529  
Lock-washer, P/N 11010530

**Equipment Condition:**

Pintle and T&E separated from tripod.

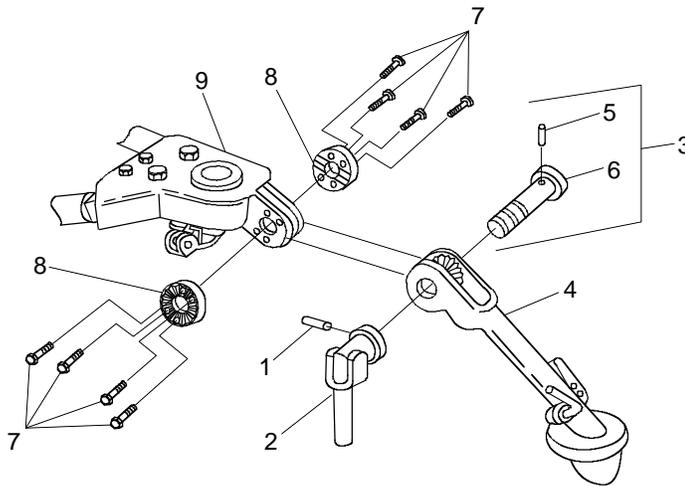
**DISASSEMBLY**

Using a hammer and punch, remove spring pin (1), turn front leg clamping nut (2) counterclockwise and remove. Discard spring pin.

Remove machine bolt (3) and front tripod mount leg (4).

Using a hammer and punch, remove headless straight pin (5) from screw (6).

Remove eight machine screws (7) and two retaining plates (8) from bearing assembly head (9).



2NL0071

**UNIT SUPPORT MAINTENANCE FOR  
LEG TRIPOD MOUNT (FRONT), 1005-00-555-9423, P/N5559423;  
BEARING HEAD ASSEMBLY, NSNA, P/N 8448211; AND  
MACHINE BOLT, NSN 5306-00-610-8395, P/N 6108395 (cont)**

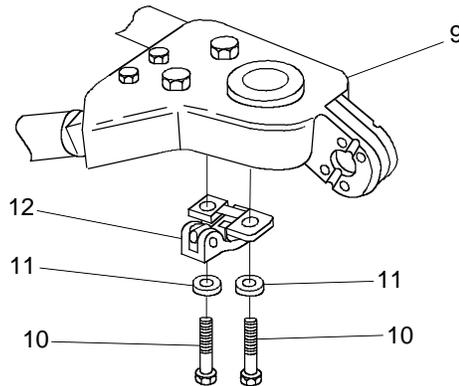
**DISASSEMBLY (cont)**

**NOTE**

Be sure the mount latch is locked before removing.

Loosen and remove two machine screws (10), two lock-washers (11), and pintle mount latch (12) from bearing assembly head (9). Discard lock-washers (11).

Further disassembly of pintle mount latch (12) is not authorized, for repair notify direct support maintenance.



2NL0072

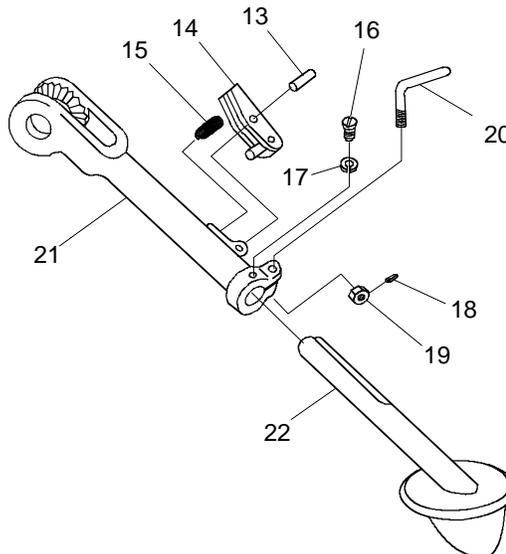
**WARNING**

To avoid injury to eyes, use care when removing/installing spring loaded parts.

**NOTE**

Remove parts only for repair/replacement.

Using a hammer and punch, remove headless straight pin (13) and discard. Remove remote control lever (14) and helical spring (15).



2NL0073

Remove setscrew (16) and lock-washer (17). Discard lock-washer (17).

Using a hammer and punch, remove spring pin (18), hexagon plain nut (19), and manual control handle (20) from upper leg (21). Discard spring pin (18).

Remove lower leg (22) from upper leg (21).

### INSPECTION/REPAIR

Inspect for broken, damaged, or missing parts.

Pintle mount latch is a repairable assembly; notify direct support maintenance.

If screw (6) is broken or damaged, repair is by replacement of next higher assembly.

Repair is by replacement of authorized parts.

### CLEANING

Clean all components with CLP, wipe dry and apply light coat of CLP.

### REFINISHING/LUBRICATION

Clean area to be refinished with cleaning solvent, wipe dry, and touch-up with SFL. Allow to dry per manufacturer's instructions. Apply light coat of CPL.

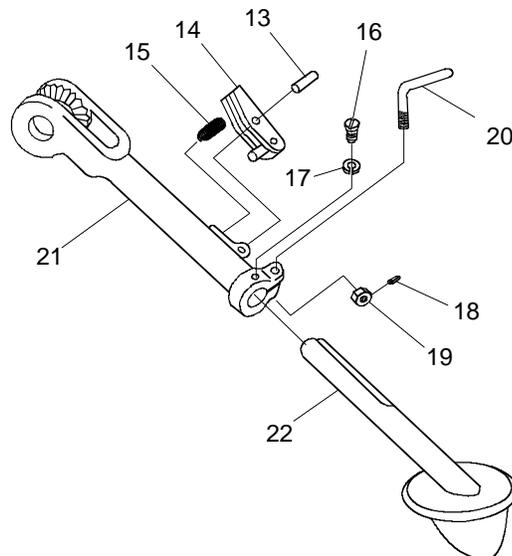
### NOTE

Deploying or combat units may touch-up no more than one third of the tripod with SFL. If more than one third of the surface needs touch-up turn the tripod in for replacement (free issue). All other units may touch-up the entire tripod.

### ASSEMBLY

Insert lower leg (22) into upper leg (21) aligning groove with setscrew hole. Install new lock-washer (17) and setscrew (16), and tighten.

Install manual control handle (20) into upper leg (21). Screw hexagon plain nut (19) on manual control handle (20) and tighten, leaving a 0.005 + 0.015 in. (0.013 + 0.038 cm) clearance between hexagon plain nut (19) and upper leg (21). If a new manual control handle is installed, drill a 0.062 + 0.003 in. (0.157 + 0.008 cm) hole through nut and new manual control handle for new spring pin (18). Install new spring pin (18). Stake nut at both ends of spring pin.

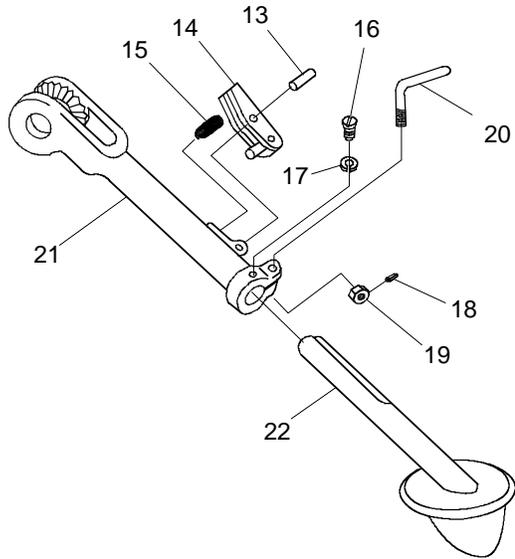


2NL0073

**UNIT SUPPORT MAINTENANCE FOR  
LEG TRIPOD MOUNT (FRONT), 1005-00-555-9423, P/N5559423;  
BEARING HEAD ASSEMBLY, NSNA, P/N 8448211; AND  
MACHINE BOLT, NSN 5306-00-610-8395, P/N 6108395 (cont)**

**ASSEMBLY (cont)**

If removed, install helical spring (15), remote control lever (14) and new headless straight pin (13). Stake nut at both ends of spring pin.



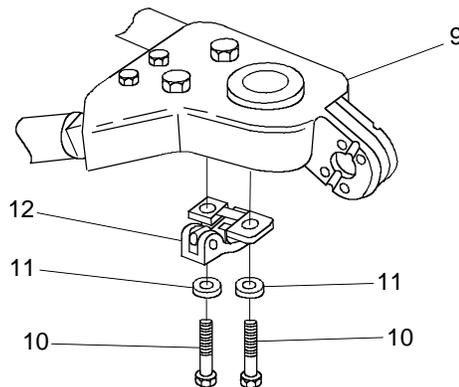
2NL0073

**NOTE**

Remote control lever (14) should pivot freely after staking and return to original position by spring tension.

Leg (22) should slide freely when clamping is released and remote control lever (14) is retracted.

Install pintle mount latch (12), two new lock-washers (11), and two machine screws (10) to bearing assembly head (9).

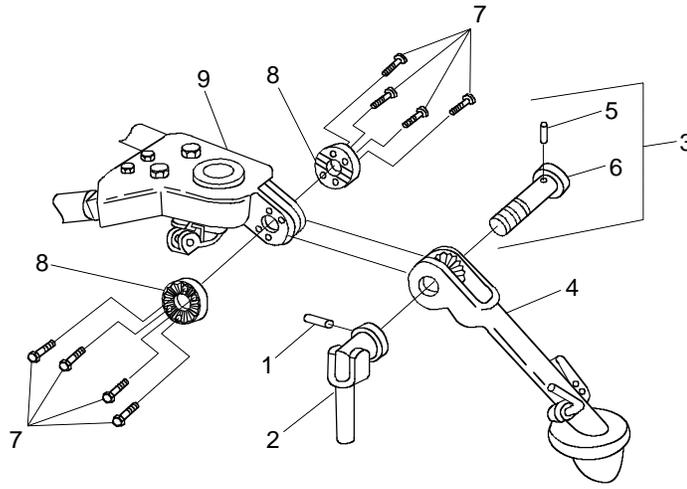


2NL0072

Install two retaining plates (8) on bearing assembly head (9) and secure with eight machine screws (7).

Install headless straight pin (5) into screw (6).

Position front tripod mount leg (4) on bearing assembly head (9). Slide bolt (3) through front tripod mount leg (4) and bearing assembly head (9) and secure with front leg clamping nut (2) and new spring pin (1). Stake pin at both ends.



END OF WORK PACKAGE



**UNIT MAINTENANCE FOR  
ELEVATION MECHANISM (TRAVERSING AND CLAMPING UNIT) AND  
ELEVATION MECHANISM (ELEVATING UNIT), NSN 1010-01-151-6227, P/N 5830128**

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This task covers: a. Disassembly b. Inspection/Repair c. Cleaning  
d. Refinishing/Lubrication e. Assembly

**INITIAL SETUP**

Tools and Special Tools:  
Tool Kit, Small Arms Repairman,  
PN SC 5180-95-B71

Materials/Parts (cont):  
Lubricant, Solid Film, (item 10, WP 0179 00)  
Rag, Wiping, (item 14, WP 0179 00)  
Solvent, Cleaning, (item 16, WP 0179 00)

Materials/Parts:  
Cleaner, Lubricant and Preservative, (CLP),  
(item 3, WP 0179 00)  
Lock-washer, P/N 11010413

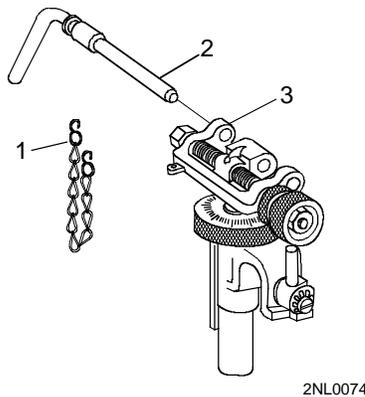
Equipment Condition:  
T&E separated from tripod.

**DISASSEMBLY**

**NOTE**

Remove chain from quick release pin only for replacement.

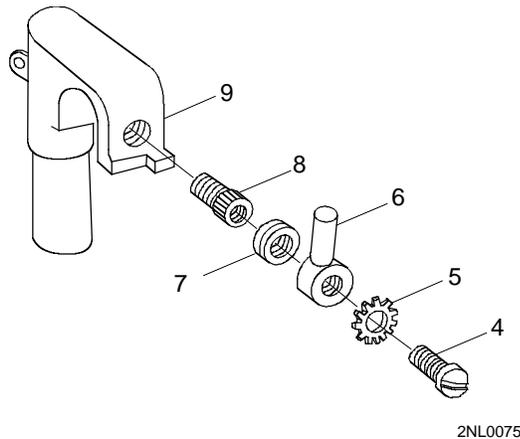
Pry open links on ends of single chain assembly (1) and remove single chain assembly from yoke (3) and quick release pin (2). Remove quick release pin (2) from of yoke (3).



**WARNING**

To avoid injury to your eyes, use care when removing and installing spring-loaded parts.

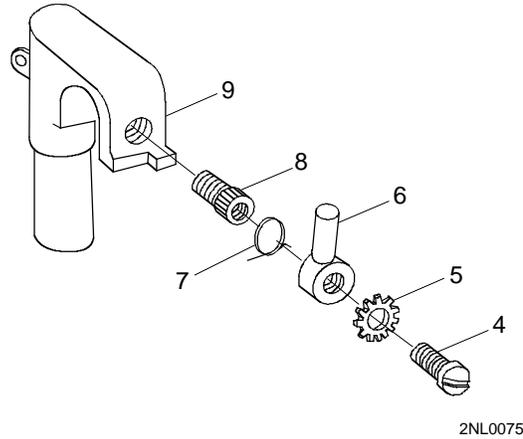
Remove machine screw (4) and lock-washer (5) from locking lever (6). Discard lock-washer (5).



**UNIT MAINTENANCE FOR  
ELEVATION MECHANISM (TRAVERSING AND CLAMPING UNIT) AND  
ELEVATION MECHANISM (ELEVATING UNIT), NSN 1010-01-151-6227, P/N 5830128 (cont)**

---

Remove helical torsion spring (7), turn self-locking screw (8) counterclockwise and remove from elevating mechanism sleeve (9).



2NL0075

**INSPECTION/REPAIR**

Inspect for broken, damaged, or missing parts.

If yoke is broken or damaged, repair is by replacement of next higher assembly.

Repair is by replacement of authorized parts.

**CLEANING**

Clean all components with CLP, wipe dry and apply light coat of CLP.

**REFINISHING/LUBRICATION**

Clean area to be refinished with cleaning solvent, wipe dry, and touch-up with SFL. Allow to dry per manufacturer's instructions. Apply light coat of CPL.

**ASSEMBLY**

Install self-locking screw (8) halfway into elevating mechanism sleeve (9).

**NOTE**

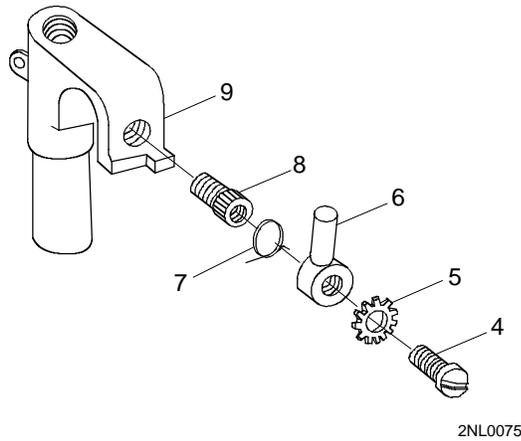
Self-locking screw (8) will need to be adjusted when locking lever is installed

Place elevating mechanism sleeve (9) on traverse bar, and tighten self-locking screw (8). Elevating mechanism sleeve (9) should remain on bar without support.

Place helical torsion spring (7) in hole on backside of locking lever (6).

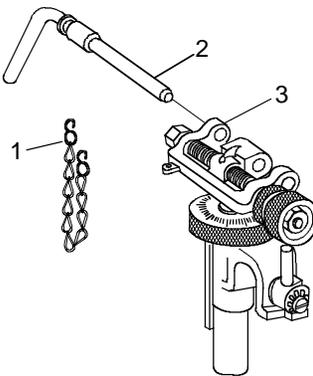
Slide helical torsion spring (7) with locking lever (6) onto self-locking screw (8); with locking lever (6) pointed to the right and leg of spring pointed to the left. Secure to the elevating mechanism sleeve (9) with new lock-washer (5) and machine screw (4). Locking lever should point to right and be horizontal to the traverse bar.

Function test; when locking lever is disengaged T&E should slide off traverse bar.



2NL0075

Push quick release pin (2) into yoke (3). Rotate quick release pin (2) to lock. Crimp links on ends of single chain assembly (1) to yoke (3) and quick release pin (2).



2NL0074

**END OF WORK PACKAGE**



**DIRECT SUPPORT MAINTENANCE**



**DIRECT SUPPORT MAINTENANCE FOR  
TRIPOD LEG ASSEMBLY, NSNA, NPN;  
BEARING ASSEMBLY HEAD, NSNA, P/N 8448211; AND  
MACHINE BOLT, NSN 5306-00-610-8395, P/N 6108395**

This task covers: a. Disassembly    b. Inspection/Repair    c. Cleaning  
d. Refinishing/Lubrication    e. Assembly

**INITIAL SETUP**

**Tools and Special Tools:**

Shop Set, Small Arms: Field  
Maintenance, Basic, Less Power,  
PN SC 4933-95-CL-A11  
Tool Kit, Small Arms Repairman,  
PN SC 5180-95-B71

**Materials/Parts (cont):**

Lubricant, Solid Film, (item 10, WP 0179 00)  
Rag, Wiping, (item 14, WP 0179 00)  
Sealing Compound, (item 16, WP 0179 00)  
Solvent, Cleaning, (item 17, WP 0179 00)

**Equipment Condition:**

Pintle and T&E mechanism removed.

**Materials/Parts:**

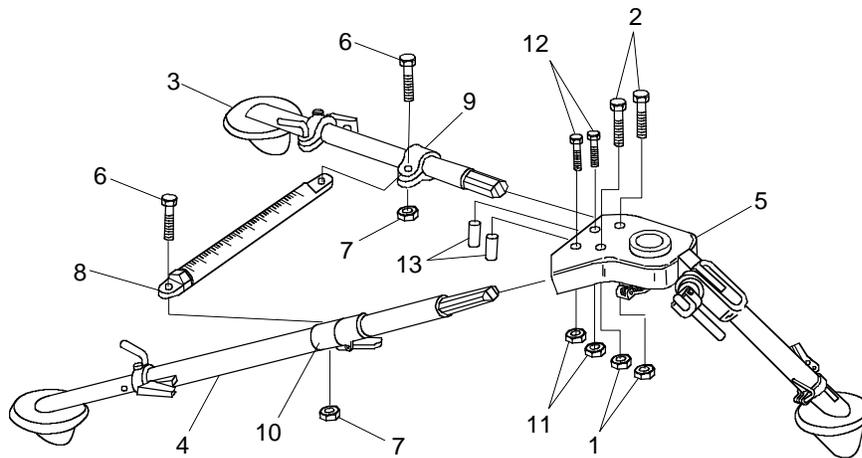
Cleaner, Lubricant and Preservative, (CLP),  
(item 3, WP 0179 00)

**DISASSEMBLY**

Remove two hexagon plain nuts (1) and two machine bolts (2). Pull left tripod mount leg (3) and right rear tripod mount leg (4) from bearing head assembly (5).

Remove two hexagon plain nuts (6), two machine bolts (7), and pull traversing bar assembly (8) from collar (9) and sliding sleeve (10).

Remove two hexagon plain nuts (11), two machine bolts (11), and two sleeve spacers (13) from bearing assembly head (5).



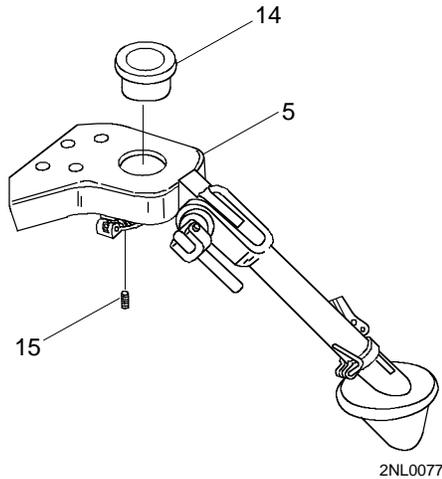
2NL0076

**DIRECT SUPPORT MAINTENANCE FOR  
TRIPOD LEG ASSEMBLY, NSNA, NPN;  
BEARING ASSEMBLY HEAD, NSNA , P/N 8448211; AND  
MACHINE BOLT, NSN 5306-00-610-8395, P/N 6108395 (cont)**

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**DISASSEMBLY (cont)**

Remove setscrew (15). Using punch and hammer, tap sleeve bearing (14) from bearing head assembly (5).



**INSPECTION/REPAIR**

Inspect for broken, damaged, or missing parts.

Left rear tripod mount leg is a repairable assembly.

Right rear tripod mount leg is a repairable assembly.

If bearing assembly head is broken or damaged, repair is by replacement of assembly.

If tripod head is broken or damaged, repair is by replacement of next higher assembly.

Repair is by replacement of authorized parts.

**CLEANING**

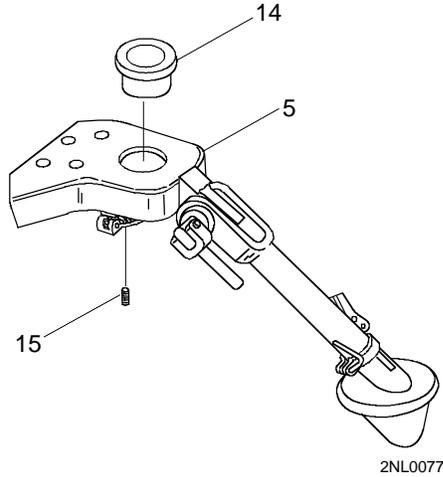
Clean all components with CLP, wipe dry and apply light coat of CLP.

**REFINISHING/LUBRICATION**

Clean area to be refinished with cleaning solvent, wipe dry, and touch-up with SFL. Allow to dry per manufacturer's instructions. Apply light coat of CPL.

**ASSEMBLY**

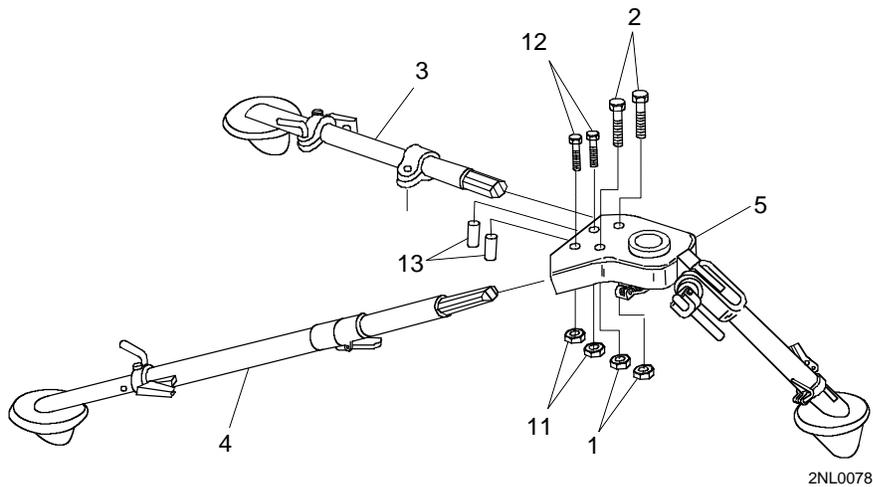
Apply a bead of sealing compound under lip of sleeve bearing. Push sleeve bearing (14) into tripod head (5), if needed tap evenly around sleeve bearing (14) with brass hammer until fully seated. Install setscrew (15).



Position sleeve spacers (13) under bearing head (5); install and tighten two machine bolts (12), and two hexagon plain nuts (11) in bearing head assembly (5).

Slide left rear tripod leg (3) and right rear tripod mount leg (4) in bearing head assembly (5) and secure with two machine bolts (2) and two nuts (1). Legs should pivot freely in unlocked position.

Turn tripod upside down and stake nuts (1 and 11) to machine bolts (2 and 12) in three places.



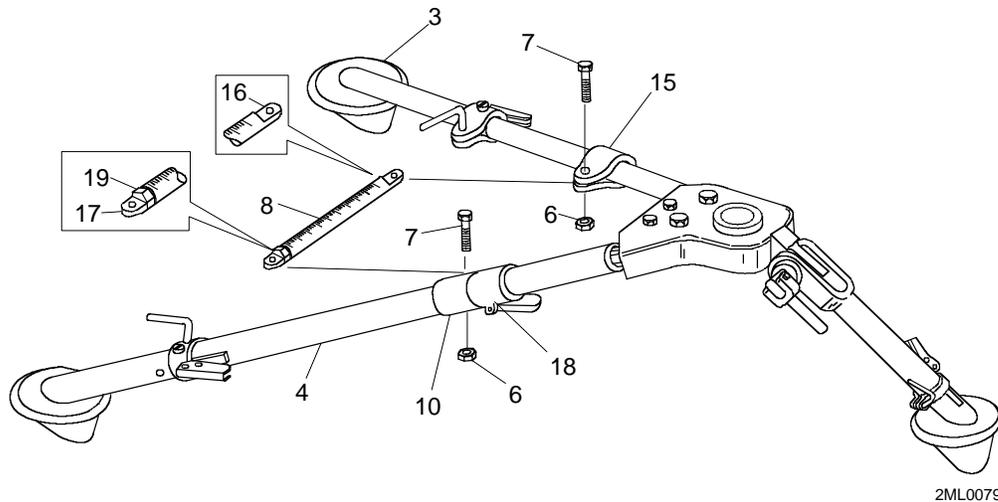
**DIRECT SUPPORT MAINTENANCE FOR  
TRIPOD LEG ASSEMBLY, NSNA, NPN;  
BEARING ASSEMBLY HEAD, NSNA , P/N 8448211; AND  
MACHINE BOLT, NSN 5306-00-610-8395, P/N 6108395 (cont)**

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**ASSEMBLY (cont)**

Position nonadjustable end (16) of traversing bar assembly (8) into collar (9) of left rear tripod mount leg (3) and secure with machine bolt (7) and hexagon plain nut (6). Stake nut (6) to machine bolt in three places.

Position adjustable end (17) of traversing bar assembly (8) into sliding sleeve (10) of right rear tripod mount leg (4) and loosely install machine bolt (7) and hexagon plain nut (6). Adjust traversing bar assembly (8) so that gap between sliding sleeve (10) and locking sleeve (18) is between 0.50 and 0.75 in. (1.27 and 1.91 cm). Stake adjustable nut (19) in one place. Tighten and stake nut (6) to machine bolt in three places.



**NOTE**

After repair, attach tripod components to leg assembly with non-electrical wire to ensure entire system is returned to unit.

**END OF WORK PACKAGE**

**DIRECT SUPPORT MAINTENANCE FOR  
RIGHT REAR TRIPOD LEG, NSN 1005-00-650-7136, P/N 6507136 AND  
LEFT REAR TRIPOD LEG, NSN 1005-00-650-7137, P/N 6507137**

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This task covers: a. Disassembly    b. Inspection/Repair    c. Cleaning  
d. Refinishing/Lubrication    e. Assembly

**INITIAL SETUP**

**Tools and Special Tools:**

Shop Set, Small Arms: Field  
Maintenance, Basic, Less Power,  
PN SC 4933-95-CL-A11  
Tool Kit, Small Arms Repairman,  
PN SC 5180-95-B71

**Materials/Parts (cont):**

Headless Straight Pin, P/N 5140217  
Lubricant, Solid Film, (item 10, WP 0179 00)  
Rag, Wiping, (item 14, WP 0179 00)  
Solvent, Cleaning, (item 16, WP 0179 00)

**Materials/Parts:**

Cleaner, Lubricant and Preservative, (CLP),  
(item 3, WP 0179 00)

**Equipment Condition:**

Pintle and T&E mechanism removed.

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**DISASSEMBLY**

**WARNING**

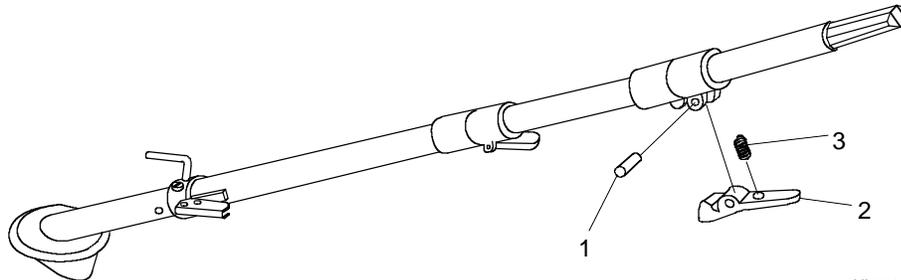
To avoid injury to your eyes, use care when removing and installing spring-loaded parts.

To avoid injury to your eyes, wear safety glasses when grinding parts.

**NOTE**

Right leg only shown removed for clarity.

Grind down staking on one end of headless straight pin (1) and remove. Remove lock-release lever (2) and helical spring (3). Discard headless straight pin (1).



**INSPECTION/REPAIR**

Inspect for broken, damaged, or missing parts.

If leg is damaged, repair is by replacement of next higher assembly.

Repair is by replacement of authorized parts.

**DIRECT SUPPORT MAINTENANCE FOR  
RIGHT REAR TRIPOD LEG, NSN 1005-00-650-7136, P/N 6507136 AND  
LEFT REAR TRIPOD LEG, NSN 1005-00-650-7137, P/N 6507137 (cont)**

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**CLEANING**

Clean all components with CLP, wipe dry and apply light coat of CLP.

**REFINISHING/LUBRICATION**

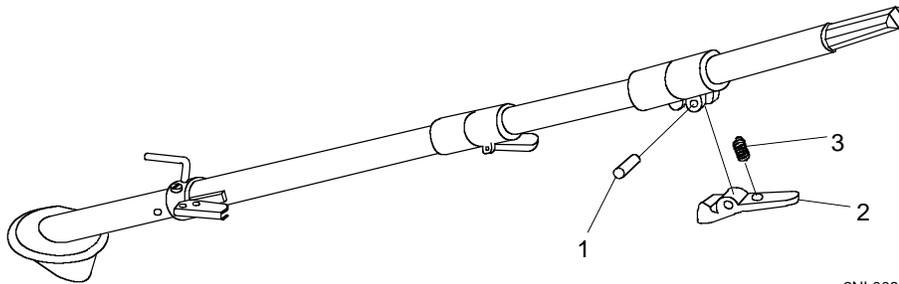
**NOTE**

If you are part of a rapid deployment or divisional combat unit, you can touch up no more than one-third of the tripod with SFL. If more than one-third of the finish is gone, you should turn-in the tripod for replacement. All other units can touch-up 100% of the tripod.

Clean area to be refinished with cleaning solvent, wipe dry, and touch-up with SFL. Allow to dry per manufacturer's instructions. Apply light coat of CPL.

**ASSEMBLY**

Insert helical spring (3), into hole of lock-release lever (2). Align lock-release lever (2) to leg and insert new headless straight pin (1). Stake headless straight pin securely at both ends.



2NL0080

**END OF WORK PACKAGE**

**DIRECT SUPPORT MAINTENANCE FOR  
PINTLE MOUNT LATCH, NSN 5340-00-610-8402, P/N 6108402**

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This task covers: a. Disassembly    b. Inspection/Repair    c. Cleaning  
d. Refinishing/Lubrication    e. Assembly

**INITIAL SETUP**

**Tools and Special Tools:**

Shop Set, Small Arms: Field  
Maintenance, Basic, Less Power,  
PN SC 4933-95-CL-A11  
Tool Kit, Small Arms Repairman,  
PN SC 5180-95-B71

**Materials/Parts (cont):**

Lock-washer (2), P/N 11010529  
Lubricant, Solid Film, (item 10, WP 0179 00)  
Rag, Wiping, (item 14, WP 0179 00)  
Solid rivet, P/N 11010448  
Solvent, Cleaning, (item 17, WP 0179 00)

**Materials/Parts:**

Cleaner, lubricant and preservative, (CLP),  
(item 3, WP 0179 00)

**Equipment Condition:**

Pintle and T&E mechanism removed.

---

**DISASSEMBLY**

Remove machine screws (1), and lock-washers (2), then lower latch assembly away from tripod head. Discard lock-washers

**WARNING**

To avoid injury to your eyes, wear safety glasses when grinding parts.

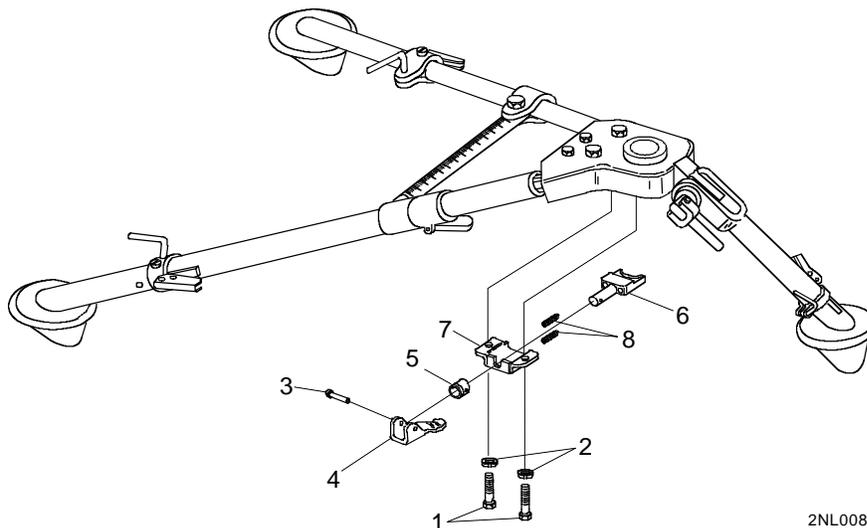
Grind head off solid rivet (3). Remove solid rivet and pintle lock release cam (4). Discard solid rivet.

Remove shaft collar (5) from lock (6).

**WARNING**

To avoid injury to your eyes, use care when removing and installing spring-loaded parts.

Remove housing (7) and two helical compression springs (8) from lock (6).



2NL0081

**DIRECT SUPPORT MAINTENANCE FOR  
PINTLE MOUNT LATCH, NSN 5340-00-610-8402, P/N 6108402 (cont)**

---

**INSPECTION/REPAIR**

Inspect for broken, damaged, or missing parts.

If shaft collar, lock, or housing are broken, repair is by replacement of next higher assembly.

Repair is by replacement of authorized parts.

**CLEANING**

Clean all components with CLP, wipe dry and apply light coat of CLP.

**REFINISHING/LUBRICATION**

Clean area to be refinished with cleaning solvent, wipe dry, and touch-up with SFL. Allow to dry per manufacturer's instructions. Apply light coat of CPL.

**ASSEMBLY**

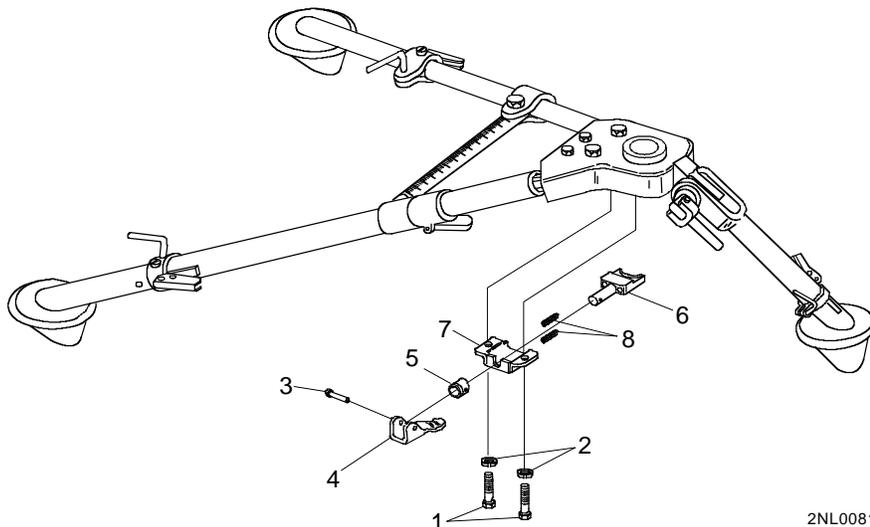
**WARNING**

To avoid injury to your eyes, use care when removing and installing spring-loaded parts.

Insert two helical compression springs (8) in lock (6). Slide lock (6) in housing (7) so that post sticks out through U-shaped opening of housing.

Slide shaft collar (5) on lock (6), align hole in lock with hole in collar.

Position pintle lock release cam (4) over lock (6) and secure with new solid rivet (3). Peen over end of rivet. Pintle lock release cam (4) should pivot freely after riveting.



2NL0081

Align latch assembly to underside of tripod head, insert new lock-washers (2) and machine screws (1).

**END OF WORK PACKAGE**

**DIRECT SUPPORT MAINTENANCE FOR  
ELEVATION MECHANISM (TRAVERSING AND CLAMPING UNIT) AND  
ELEVATION MECHANISM (ELEVATING UNIT), NSN 1010-01-151-6227, P/N 5830128**

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This task covers: a. Disassembly b. Inspection/Repair c. Cleaning  
d. Refinishing/Lubrication e. Assembly

**INITIAL SETUP**

**Tools and Special Tools:**

- Shop Set, Small Arms: Field Maintenance, Basic, Less Power, PN SC 4933-95-CL-A11
- Tool Kit, Small Arms Repairman, PN SC 5180-95-B71
- Spanner Wrench (item 5, WP 0121 00)
- Spanner Wrench, (item 6, WP 0121 00)

**Materials/Parts (cont):**

- Lock-washer, P/N 11010413
- Lubricant, Solid Film, (item 10, WP 0179 00)
- Rag, Wiping, (item 14, WP 0179 00)
- Self-locking Nut, P/N MS51943-2
- Self-locking Nut, P/N MS51943-4
- Self-locking Screw, P/N 5140383
- Solvent, Cleaning, (item 14, WP 0179 00)
- Spring, Pin, P/N MS16562-120
- Plug, Elevation, P/N 5140765

**Materials/Parts:**

- Cleaner, Lubricant and Preservative, (CLP), (item 3, WP 0179 00)

**Equipment Condition:**

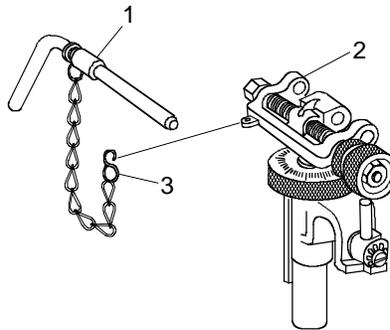
T&E mechanism removed from tripod.

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**DISASSEMBLY**

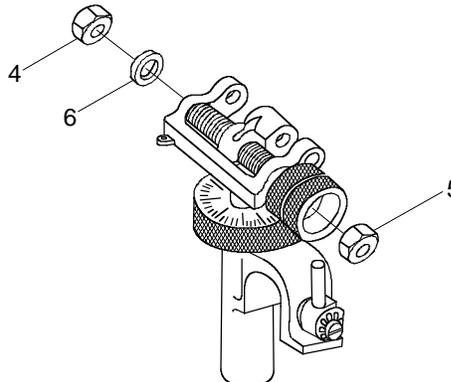
Remove quick release pin (1) from yoke (2).

Pry open link on end of single chain assembly (3) and remove from yoke (2).



2NL0082

Remove two self-locking nuts (4 and 5), and flat washer (6). Discard self-locking nuts (4 and 5).



2NL0083

**DIRECT SUPPORT MAINTENANCE FOR  
ELEVATION MECHANISM (TRAVERSING AND CLAMPING UNIT) AND  
ELEVATION MECHANISM (ELEVATING UNIT), NSN 1010-01-151-6227, P/N 5830128 (cont)**

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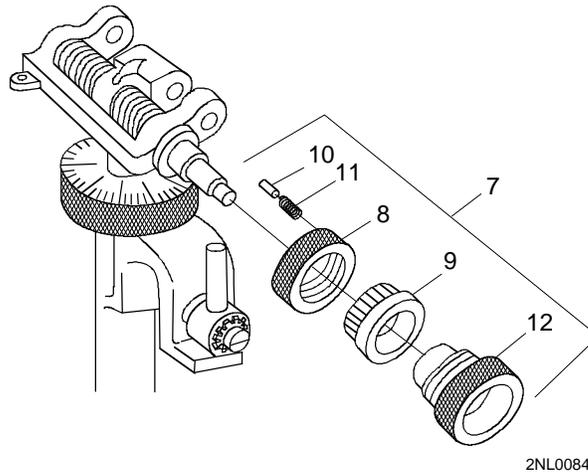
**DISASSEMBLY (cont)**

Slide the traversing hand-wheel (7) off the traversing screw as a unit.

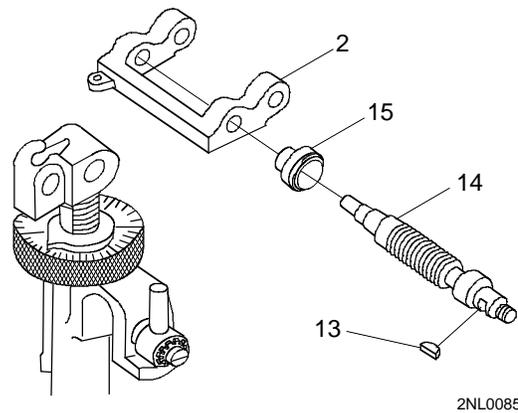
**WARNING**

To avoid injury to your eyes, use care when removing and installing spring-loaded parts.

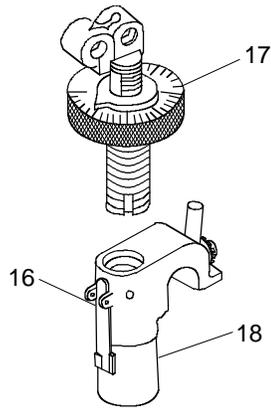
Separate union nut (8), scale dial (9), headless straight pin (10), helical compression spring (11), and knob (12).



Remove woodruff key (13) from traversing screw (14). Push traversing click ring (15) from yoke (2) and remove traversing screw (14) from yoke (2) by turning counterclockwise.

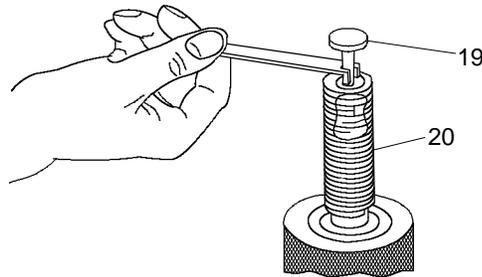


Pull out slightly on flat spring (16) and remove elevating screw assembly (17) from elevating mechanism sleeve (18) by turning counterclockwise.



2NL0086

Remove staking from stop (19). Turn elevating screw till flush with topside of dial. Turn elevating screw upside down and clamp the knob of stop assembly in a vise with brass jaw covers. Using spanner wrench (item 5, WP 0121 00), remove stop (19) from end of lower elevation screw (20).



2NL0087

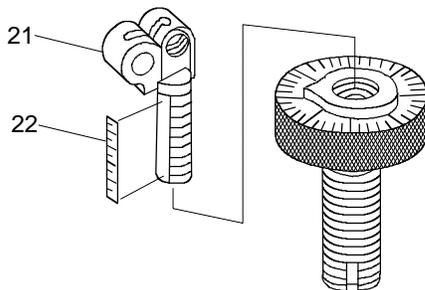
Remove upper elevation screw (21) with scale (22) attached by turning counterclockwise.

**NOTE**

Remove scale only for replacement.

Be careful not to damage threads of elevating screw.

Break staking on side of scale (22), and slide plate out the bottom of the channel



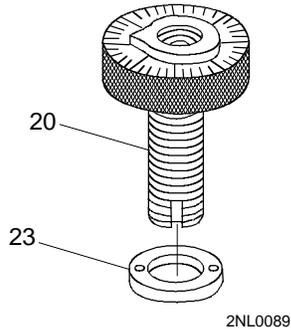
2NL0088

**DIRECT SUPPORT MAINTENANCE FOR  
ELEVATION MECHANISM (TRAVERSING AND CLAMPING UNIT) AND  
ELEVATION MECHANISM (ELEVATING UNIT), NSN 1010-01-151-6227, P/N 5830128 (cont)**

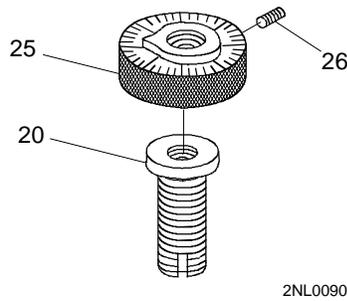
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**DISASSEMBLY (cont)**

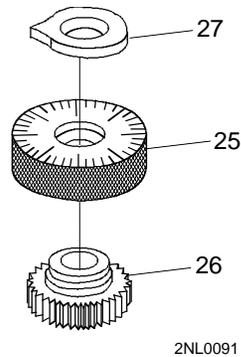
Using spanner wrench (item 6, WP 0193 00), remove externally threaded ring (23) from lower elevation screw (20) by turning counterclockwise.



Remove setscrew (24), and separate lower elevation screw (20) from knob (25).



Smooth stake marks on elevating click ring (26) with a small file and remove ring. Separate the dial pointer (27) from knob (25).

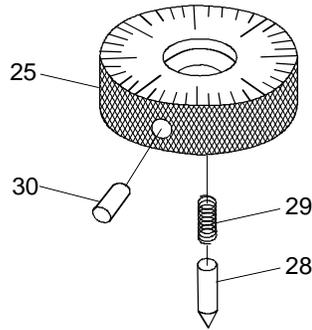


**WARNING**

To avoid injury to your eyes, use care when removing and installing spring-loaded parts.

Tap headless straight pin (28) and compression helical spring (29) out through the center hole of knob (25).

If anchor pin (30) has any damage, drill out using a 0.125 (1/8) in. twist drill.



2NL0092

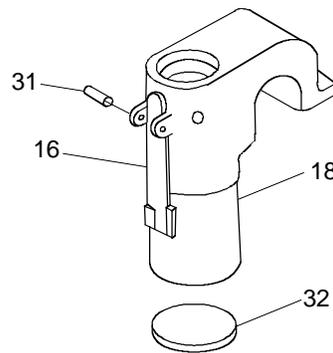
Drive out and discard spring pin (31).

Smooth staked metal on flat spring (16) with a small file and slide out of channel on elevating mechanism sleeve (18).

**NOTE**

Remove plug (32) only if damaged.

Smooth stakes on bottom of elevating sleeve. Remove and discard plug (32).



2NL0093

**INSPECTION/REPAIR**

Inspect for broken, damaged, or missing parts.

If yoke is broken or damaged, repair is by replacement of next higher assembly.

Repair is by replacement of authorized parts.

**DIRECT SUPPORT MAINTENANCE FOR  
ELEVATION MECHANISM (TRAVERSING AND CLAMPING UNIT) AND  
ELEVATION MECHANISM (ELEVATING UNIT), NSN 1010-01-151-6227, P/N 5830128 (cont)**

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**CLEANING**

Clean all components with CLP, wipe dry and apply light coat of CLP.

**REFINISHING/LUBRICATION**

**NOTE**

Do not apply SFL to threads or any internal components.

Clean area to be refinished with cleaning solvent, wipe dry, and touch-up with SFL. Allow to dry per manufacturer's instructions. Apply light coat of CPL.

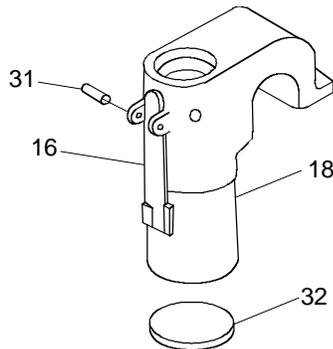
**ASSEMBLY**

Slide flat spring (16) into channel of elevating mechanism sleeve (18), and stake in four places near the bottom. Install new spring pin (31) and stake material of elevating mechanism sleeve (18) over spring pin on both ends.

**NOTE**

Install new plug (32) only if removed.

Invert elevating sleeve and install new plug (32); stake in four equally spaced places.



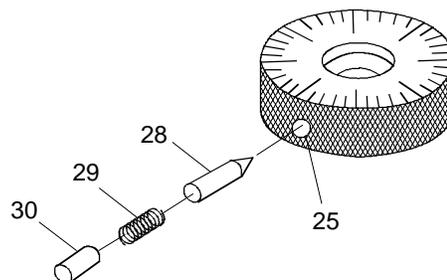
2NL0093

**NOTE**

If anchor pin (30) was removed, perform the following two steps.

Drill out any portion of anchor pin (30) remaining in hole of knob (25) using a 0.125 (1/8) in. twist drill.

Insert headless straight pin (28), helical compression spring (29), and anchor pin (30) in side of knob (25), tap in till flush. Anchor pin is to be flush to 0.010 in. (0.025 cm) below outer diameter of knob (25). Stake rim of hole in three equally spaced places.



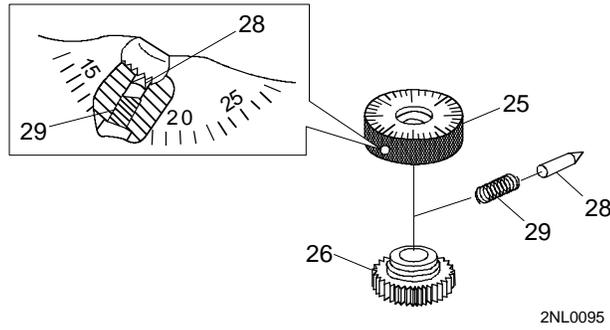
2NL0094

**NOTE**

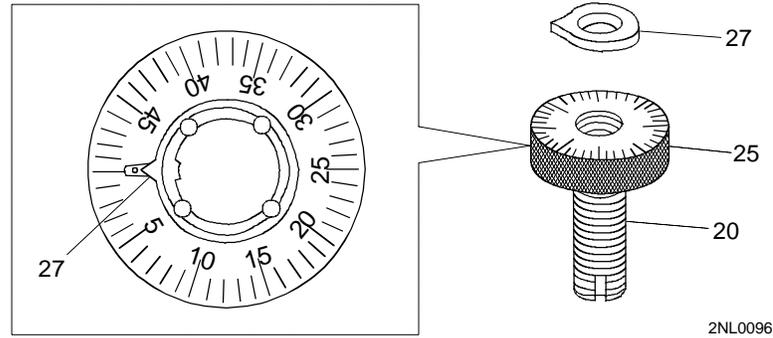
If anchor pin (30) was not removed, perform the following two steps.

Install helical compression spring (29) and headless straight pin (28) through center hole of knob (25).

Apply pressure to end of headless straight pin (28) and hold it recessed in the hole while inserting elevating click ring (26). Make sure key of elevating click ring is aligned with 0 graduation mark on knob (25).



Position lower elevation screw (20) under elevating click ring (25) and rest it on a flat surface. Lay dial pointer (27) on elevation click ring. Make sure dial pointer aligns within 0.030 in. (0.076 cm) of 0 graduation. Stake in three places  $120 \pm 5$  degrees apart.



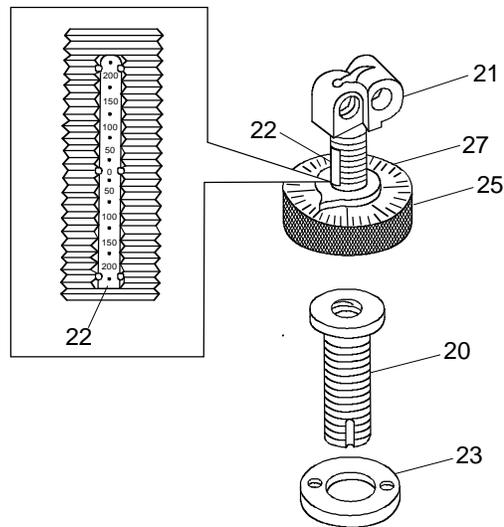
**DIRECT SUPPORT MAINTENANCE FOR  
ELEVATION MECHANISM (TRAVERSING AND CLAMPING UNIT) AND  
ELEVATION MECHANISM (ELEVATING UNIT), NSN 1010-01-151-6227, P/N 5830128 (cont)**

**ASSEMBLY (cont)**

If removed, install slotted line scale (22), position as far as possible toward upper (curved) end of groove. Stake on both sides at top, middle, and bottom of slotted line scale (six locations total) in the base (root) of thread area to prevent thread damage.

Slide knob (25) on upper elevation screw (20). Align top of dial pointer (27) with 0 graduation on designation plate (22). Screw Lower elevation screw (20) on upper elevation screw (221) until fully seated in knob (25). Recheck graduation alignment to make sure it is correct.

Install externally threaded ring (23) on elevating screw (20). Tighten externally threaded ring with spanner wrench (item 6, WP 0121 00) until flush with bottom of knob (25) and stake in two equally spaced places.



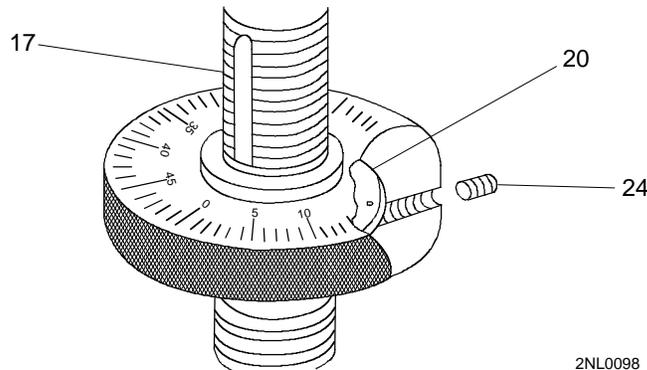
2NL0097

**NOTE**

If threaded hole in knob does not align with original hole in flange of lower elevation screw, perform the following step. If holes are aligned, skip next step.

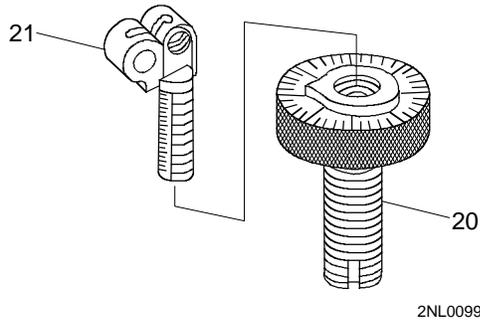
Put a 0.078 (5/64) in. twist drill through the threaded flange hole in lower elevation screw (20) and drill to a depth of 0.30 in. (0.76 cm).

Recheck to make sure graduation alignment has been maintained. Install and tighten setscrew (24).

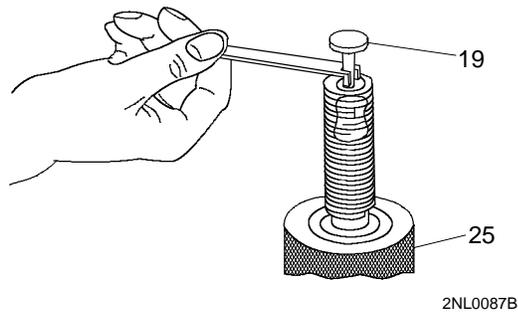


2NL0098

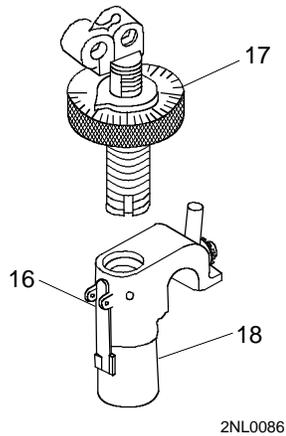
Screw upper elevation screw (21) in lower elevation screw (20).



Turn elevating screw upside down and clamp the knob (25) in a vise with brass jaw covers. Using spanner wrench (item 5, WP 0121 00), install automatic gun stop (19) until flush with knob (25) and stake in two equally spaced places.



Pull back slightly on flat spring (16), and install elevating screw assembly (17) in elevating mechanism sleeve (18) by turning clockwise..

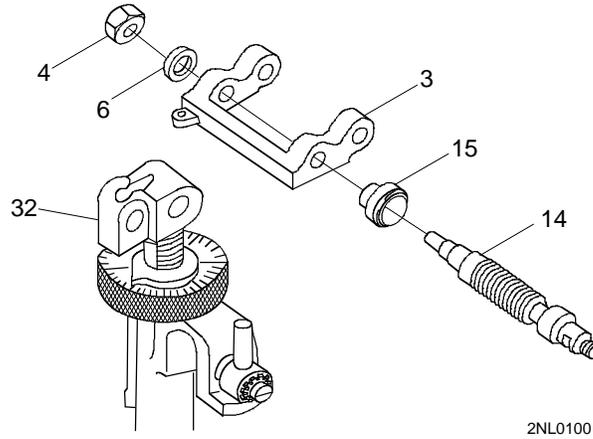


**DIRECT SUPPORT MAINTENANCE FOR  
ELEVATION MECHANISM (TRAVERSING AND CLAMPING UNIT) AND  
ELEVATION MECHANISM (ELEVATING UNIT), NSN 1010-01-151-6227, P/N 5830128 (cont)**

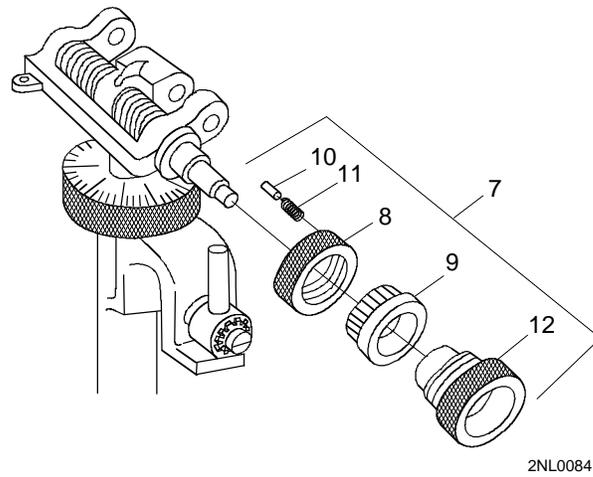
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**ASSEMBLY (cont)**

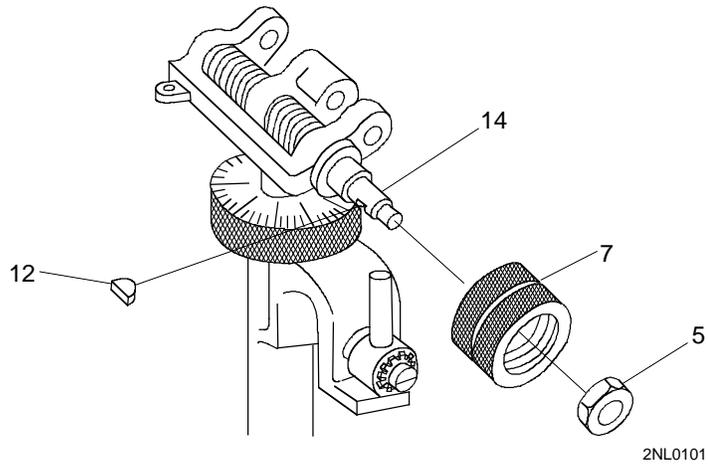
Push traversing click ring (15) onto traversing screw (14). Thread traversing screw (14) through yoke (3) and head of elevating screw (32). Place washer (6) on shaft and install new self-locking nut (4).



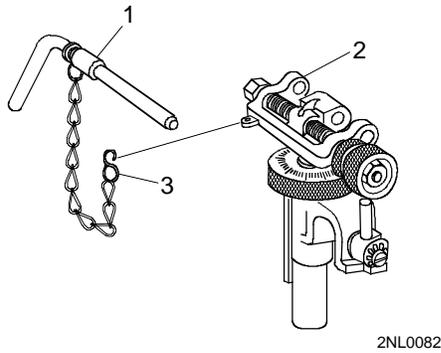
Assemble union nut (8), scale dial (9), headless straight pin (10), helical compression spring (11), and knob (12) to make traversing hand-wheel (7).



Insert woodruff key (12) in slot of traversing screw (14). Align keyway on inside diameter of traversing hand-wheel (7) with woodruff key and push on to traversing screw (14). Secure with new self-locking nut (5). Traversing hand-wheel should move freely with no more than 1/16 of a turn backlash.



Insert quick release pin (1) in yoke (2). Crimp link on end of single chain assembly (3) to yoke (2).



END OF WORK PACKAGE



## **CHAPTER 5**

### **M142 MACHINE GUN MOUNT**



**TM 9-1005-245-13&P**

**OPERATOR  
INSTRUCTIONS**

TM 9-1005-245-13&P

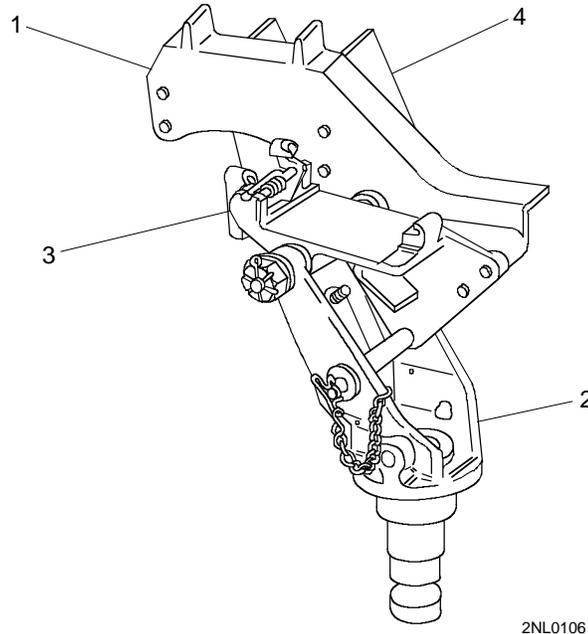
## EQUIPMENT DESCRIPTION AND DATA FOR M142 MACHINE GUN MOUNT

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### EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES

The M142 Machine Gun Mount is a component assembly, designed to mount the M60 machine gun and the M249 SAWS in vehicle applications. The M142 is to be installed into a pintle socket of pedestal, ring, or cupola mount located on a vehicle. The mount consists of a cradle, pintle, ammunition box tray, and securing pins or latches.

### LOCATION AND DESCRIPTION OF MAJOR COMPONENTS



**CRADLE ASSEMBLY (1)** – Designed to provide support for the M60 machine gun or M249 SAWS and an ammunition holder assembly.

**PINTLE ASSEMBLY (2)** – Provides a pintle that is to be inserted into the vehicle socket. Also consists of a quick release pin, used as a travel lock when the vehicle is in motion.

**PLATFORM ASSEMBLY (3)** – Connected to the pintle, the platform provides a means to mount the M60 machine gun or M249 SAWS.

**HOLDER ASSEMBLY (4)** – Connected to the cradle the holder provides a means to support the appropriate ammunition can.

### DIFFERENCES BETWEEN MODELS

Not Applicable.

**EQUIPMENT DESCRIPTION AND DATA  
FOR M142 MACHINE GUN MOUNT, NSN 1005-00-854-4463, P/N 1090045 (cont)**

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**EQUIPMENT DATA**

M142 Machine Gun Mount (10900945)

Weight.....30.00 lb (13.61 kg)  
Elevation .....1422 mil (+80 degrees)  
Depression.....355 mil (-20 degrees)  
Traverse.....6400 mil (360 degrees)

**END OF WORK PACKAGE**

**THEORY OF OPERATION FOR  
M142 MACHINE GUN MOUNT**

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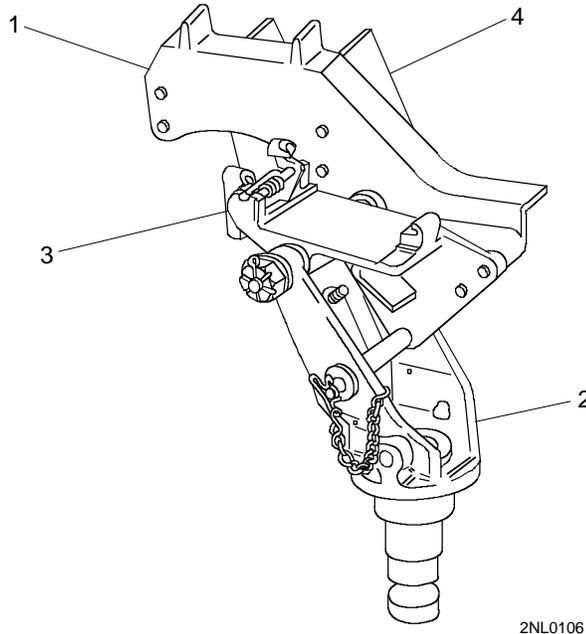
**WARNING**

The use of this mount configuration is not authorized for overhead fire training without application of modification required in accordance with SOUM 04-007. Death or serious injury can occur. Contact TRADOC for further information.

**EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES**

The M142 Machine Gun Mount is a component assembly, designed to mount the M60 machine gun and the M249 SAWS in the light machine gun role in vehicle applications. The M142 is to be installed into a pintle socket of a pedestal, ring, or cupola mount located on a vehicle. The mount consists of a cradle (1), pintle (2), ammunition box tray (4), and securing pins or latches (3).

The purpose of the mount is to hold a machine gun and ammunition while providing the capability to elevate, depress and traverse the weapon.



2NL0106

**END OF WORK PACKAGE**

0048 00-1/2 blank



**TROUBLESHOOTING PROCEDURES FOR  
M142 MACHINE GUN MOUNT**

---

**Table 1. Troubleshooting Procedures for  
M142 Machine Gun Mount****SYMPTOM**

Mount does not swivel smoothly.

**MALFUNCTION**

Pintle is burred.

**CORRECTIVE ACTION**

Remove burrs, clean and apply SFL.

**MALFUNCTION**

Pins and or pinholes are dirty, rusty, burred or painted.

**CORRECTIVE ACTION**

Remove dirt, rust, burrs or paint, and lubricate with CLP.

**SYMPTOM**

Pintle will not insert in pintle socket.

**MALFUNCTION**

Pintle and/or pintle socket are damaged.

**CORRECTIVE ACTION**

Notify unit maintenance.

**MALFUNCTION**

Pintle and/or pintle socket is dirty, rusty, burred or painted.

**CORRECTIVE ACTION**

Remove dirt, rust, burrs or paint, and lubricate with CLP.

**SYMPTOM**

Catch strike spring will not hold machine gun to platform assembly.

**MALFUNCTION**

Check for worn or broken spring.

**CORRECTIVE ACTION**

Notify unit maintenance.

**TROUBLESHOOTING PROCEDURES FOR  
M142 MACHINE GUN MOUNT (cont)**

---

**Table 1. Troubleshooting Procedures for  
M142 Machine Gun Mount (cont)****SYMPTOM**

Mount will not elevate or depress easily.

**MALFUNCTION**

Pin is bent or broken.

**CORRECTIVE ACTION**

Notify unit maintenance.

**MALFUNCTION**

Pins and or pinholes are dirty, rusty, burred or painted.

**CORRECTIVE ACTION**

Remove dirt, rust, burrs or paint, and lubricate with CLP.

**SYMPTOM**

Quick release pin and/or securing pins bind at installation.

**MALFUNCTION**

Pin is bent or broken.

**CORRECTIVE ACTION**

Notify unit maintenance.

**MALFUNCTION**

Pins and or pinholes are dirty, rusty, burred or painted.

**CORRECTIVE ACTION**

Remove dirt, rust, burrs or paint, and lubricate with CLP.

**END OF ORK PACKAGE**

**PREVENTIVE MAINTENANCE CHECKS AND SERVICES FOR  
M142 MACHINE UN MOUNT**

**Table 1. Preventive Maintenance Checks and Services for  
M142 Machine Gun Mount**

Item	Interval	Man-Hours	Item to be Checked	Procedures	Not Fully Mission Capable if:
	Before/After		M142 Machine Gun Mount	<p>Ensure mount is clean and lubricated.</p> <p>Check pins for bends, burrs and corrosion; and for proper installation</p> <p>Check for loose or missing hardware.</p> <p>Ensure ammunition holder is correctly installed.</p> <p>Ensure elevation, depression, and traverse will operate smoothly.</p> <p>Ensure mount will not rotate when travel lock (quick release) is installed.</p>	<p>Mount is dirty or dry.</p> <p>Pins are bent, burred or corroded. Mount not installed correctly.</p> <p>Parts are loose, missing or broken.</p> <p>Holder will not hold ammunition can securely.</p> <p>Elevation/depression, or traverse will operate smoothly.</p> <p>Mount rotates when travel lock (quick release) is installed.</p>

**END OF WORK PACKAGE**



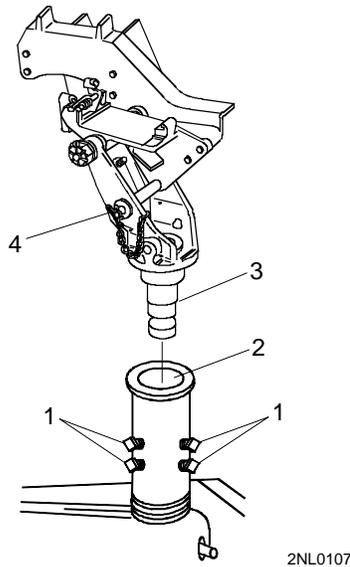
## OPERATOR INSTRUCTIONS FOR M142 MACHINE GUN MOUNT

### PLACING INTO OPERATION

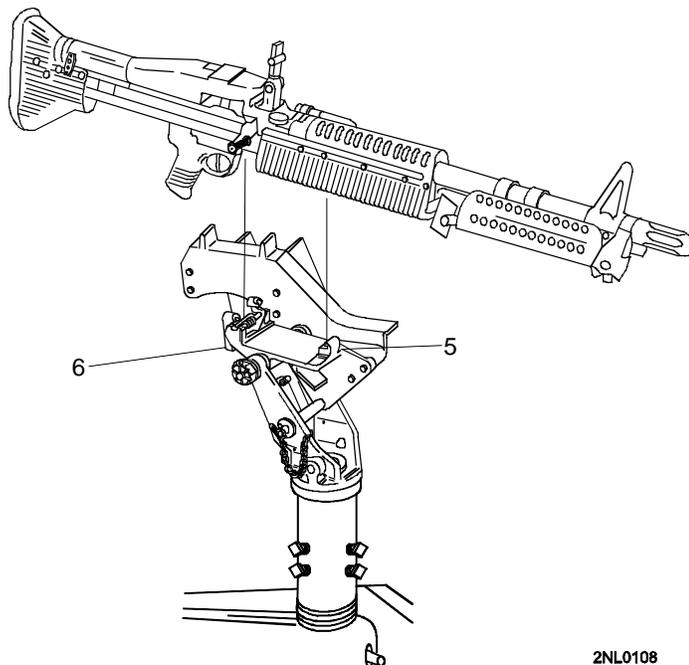
#### NOTE

Procedure applies to all vehicle rings. HMMWV ring show for illustration purposes.

Using a 3/8-inch open-end box wrench, loosen the four lock screws (1) by turning counterclockwise until threaded ends are flush with pedestal's inner wall (2). Insert mount pintle (3) into pintle socket or ring and tighten four lock screws (1) (may vary between mounting system being used) and until mount will not pull out of socket. If installing on a ring, lock the brake assembly to prevent ring traversing. Release pintle lock of ring (see TM 9-1005-335-13&P). Insert mount pintle and reengage lock. Pull up on mount to ensure lock is engaged.



**M60 MACHINE GUN** - To install weapon, place the weapon into the cradle with the forearm over the platform. Engage the platform hook (5) into the forearm hole. Push down and forward on the weapon, open the platform catch (6) and close it over the weapons mounting pin.

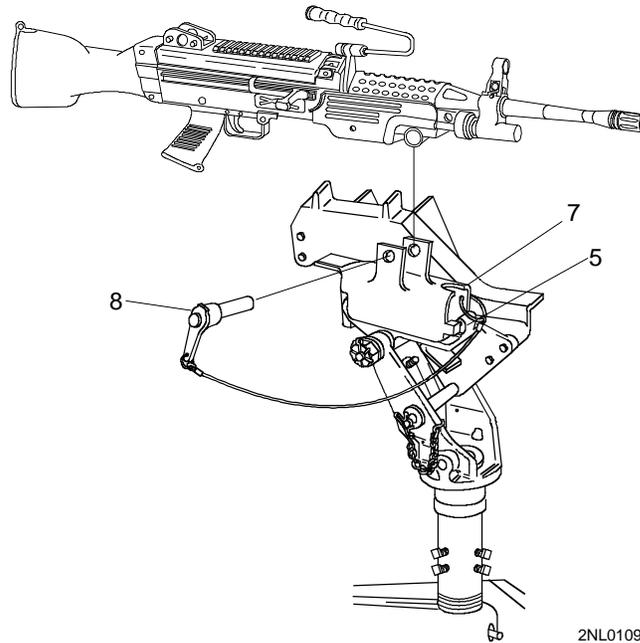


**OPERATOR INSTRUCTIONS FOR  
M142 MACHINE GUN MOUNT (cont)**

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**PLACING INTO OPERATION (cont)**

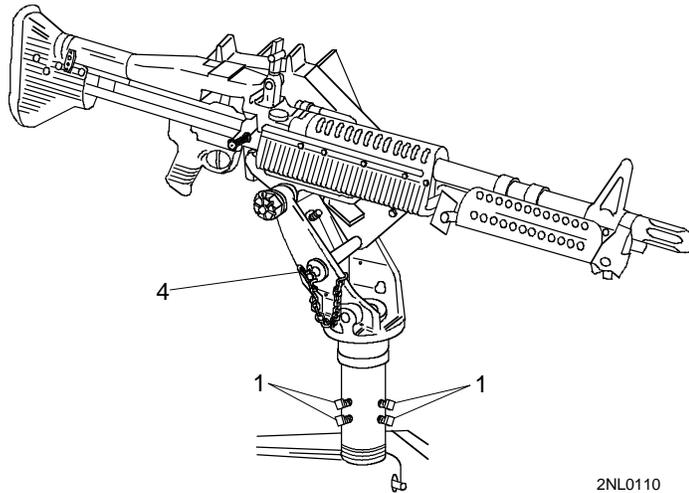
**M249 SQUAD AUTOMATIC WEAPON** – Place the square locking bar at the rear of the adapter (AAL item) (7) in the hook of the platform assembly (5). Engage the round mounting bar at the front of the adapter in the catch strike of the platform assembly (5). Place the weapon between the adapter upright, align mounting holes and engage the locking pin (8) from right to left.

**WARNING**

Weapons shall be manned when mounted for operation in moving vehicles, except when travel lock is engaged. If weapon is not manned in a turret, the ring must be locked forward, the travel lock must be attached, and all adjustment screw must be tightened.

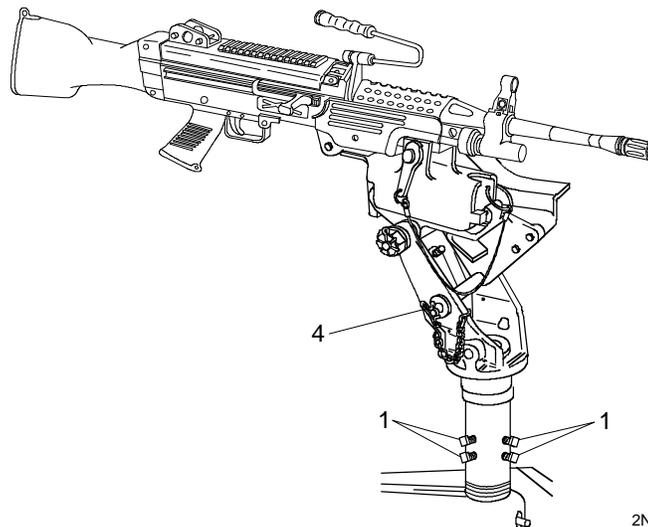
**FREE GUN**

**M60 MACHINE GUN** - Load weapon in accordance with applicable weapons TM. Loosen pintle-clamping screws (1), allowing mount to traverse in socket. (If mount is installed on a ring, release brake assembly and pintle lock.) Remove travel lock pin (quick release pin) (4), weapon is now free to rotate 360°, if needed. To re-engage, insert the travel lock pin (quick release pin) (4) and tighten the pintle-clamping screw (1).



2NL0110

**M249 SQUAD AUTOMATIC WEAPON** - Load weapon in accordance with applicable weapons TM. Loosen pintle-clamping screws (1), allowing mount to traverse in socket. (If mount is installed on a ring, release brake assembly and pintle lock.) Remove travel lock pin (quick release pin) (4).



2NL0111

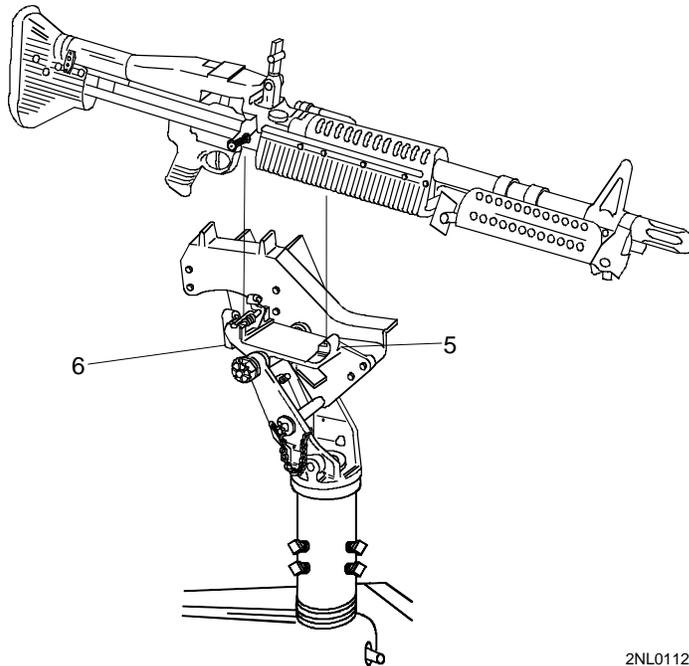
**OPERATOR INSTRUCTIONS FOR  
M142 MACHINE GUN MOUNT (cont)**

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**TAKING OUT OF OPERATION**

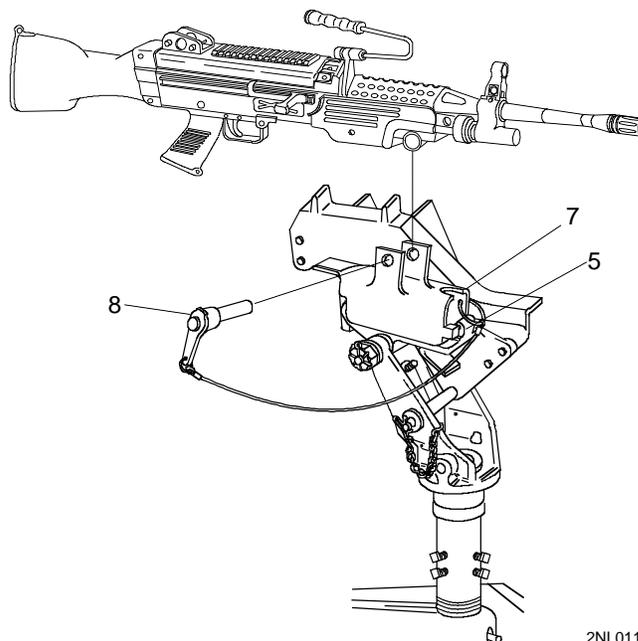
Clear the weapon in accordance with applicable weapon's operator's technical manual.

**M60 MACHINE GUN** - To remove the weapon, open the platform catch (6) and pull up and rearward on the weapons buttstock, disengaging the forearm from the platform hook (5).



2NL0112

**M249 SQUAD AUTOMATIC WEAPON** - Disengage the locking pin (8) and remove the weapon from adapter upright.



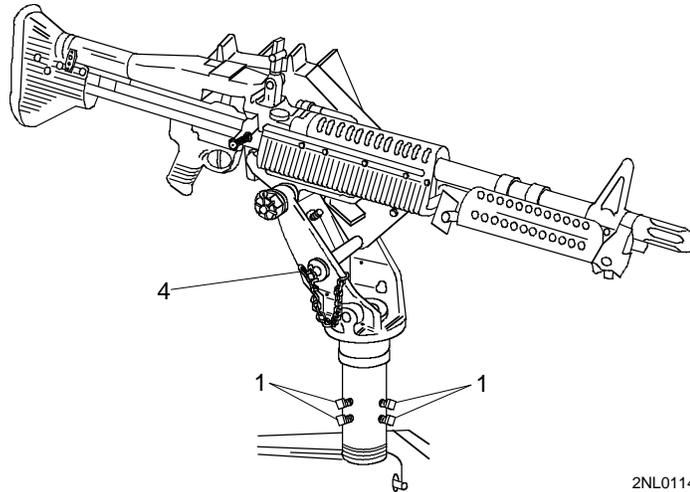
2NL0113

**PREPARATION FOR MOVEMENT**

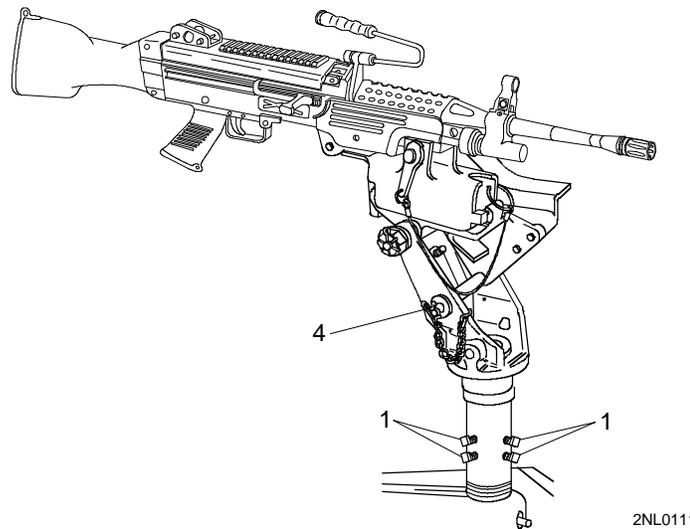
**WARNING**

Weapons shall be manned when mounted for operation in moving vehicles, except when travel lock is engaged. If weapon is not manned in a turret, the ring must be locked forward, the travel lock must be attached, and all adjustment screw must be tightened.

**M60 MACHINE GUN** - Before vehicle movement tighten the pintle clamping screws (1). Insert the travel lock pin (quick release pin) (4) to prevent mount from elevating or depressing. If mount is installed on a ring, engage the pintle clamp and lock the brake assembly.



**M249 SQUAD AUTOMATIC WEAPON** - Tighten pintle-clamping screws (1), locking mount in socket. (If mount is installed on a ring, tighten brake assembly and engage pintle lock.) Install travel lock pin (quick release pin) (4).



**END OF WORK PACKAGE**



## **UNIT MAINTENANCE**

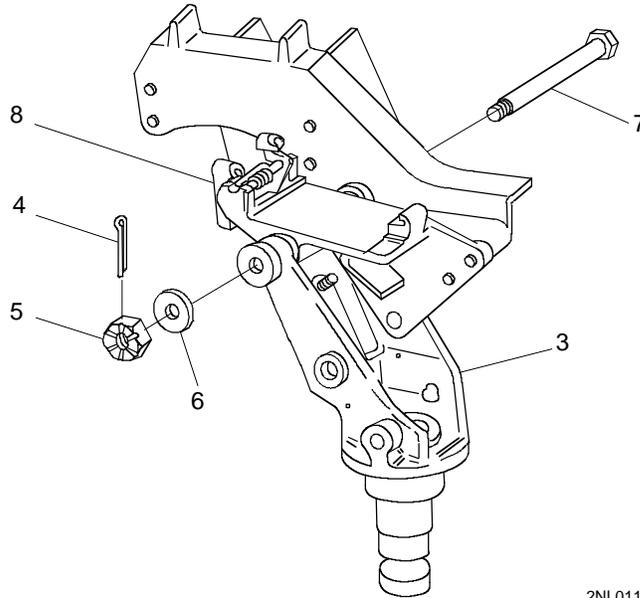




**UNIT MAINTENANCE FOR  
M142 MACHINE GUN MOUNT, NSN 1005-00-854-4463, P/N 10900945 AND  
PLATFORM ASSEMBLY, NSNA, P/N 10900947 (cont)**

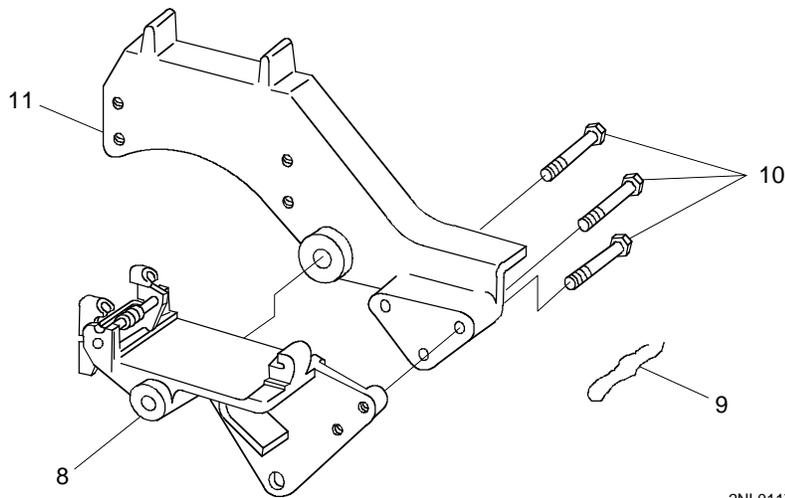
**DISASSEMBLY (cont)**

Remove cotter pin (4), slotted plain nut (5), flat washer (6), and shoulder bolt (7); platform assembly (8) is now free to be lifted from pintle. Discard cotter pin.



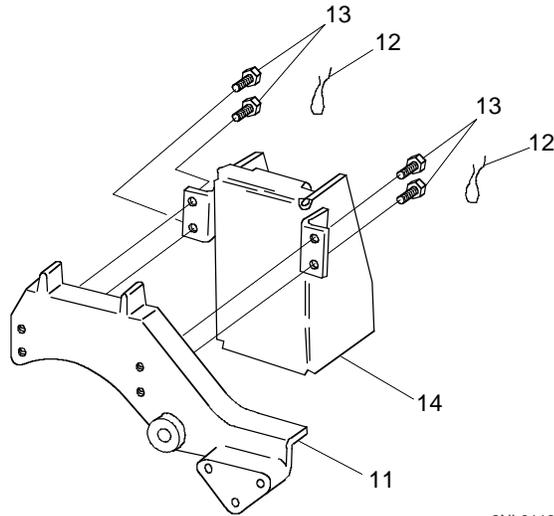
2NL0116

Remove non-electrical wire (9) and three hexagon cap screws (10). Remove machine gun cradle (11) from platform assembly (8). Discard non-electrical wire.



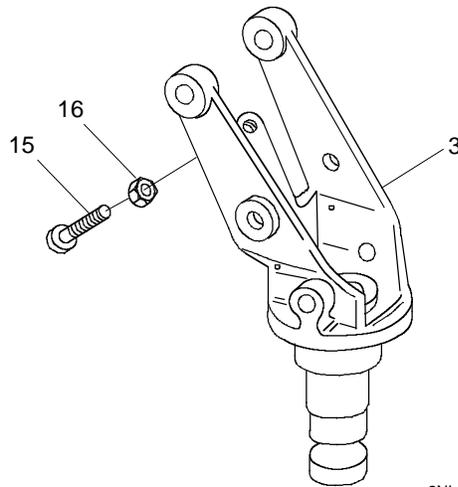
2NL0117

Remove non-electrical wire (12), four hexagon cap screws (13), and holder assembly (14) from machine gun cradle (11). Discard non-electrical wire.



2NL0118

Remove machine screw (15) and hexagon plain nut (16) from mount pintle (3).



2NL0119

### INSPECTION/REPAIR

Inspect for broken, damaged, or missing parts.

Platform assembly is repairable. Notify direct support maintenance.

Repair is by replacement of authorized parts.

**UNIT MAINTENANCE FOR  
M142 MACHINE GUN MOUNT, NSN 1005-00-854-4463, P/N 10900945 AND  
PLATFORM ASSEMBLY, NSNA, P/N 10900947 (cont)**

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**CLEANING**

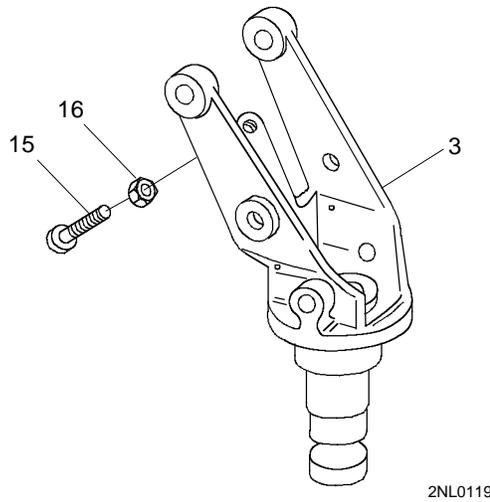
Clean all components with CLP, wipe dry and apply light coat of CLP.

**REFINISHING/LUBRICATION**

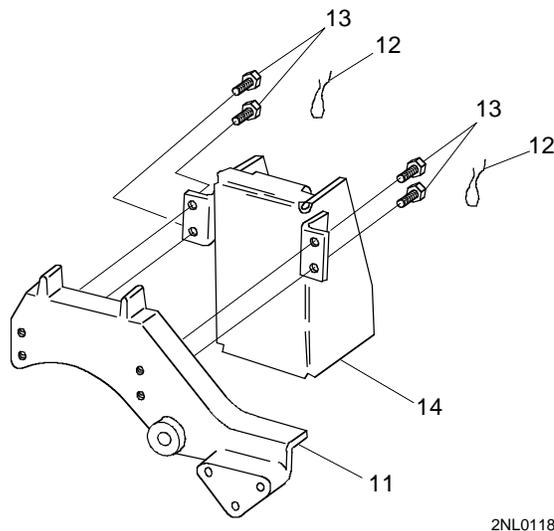
Clean area to be refinished with cleaning solvent, wipe dry, and touch-up with SFL. Allow to dry per manufacturer's instructions. Apply light coat of CPL.

**ASSEMBLY**

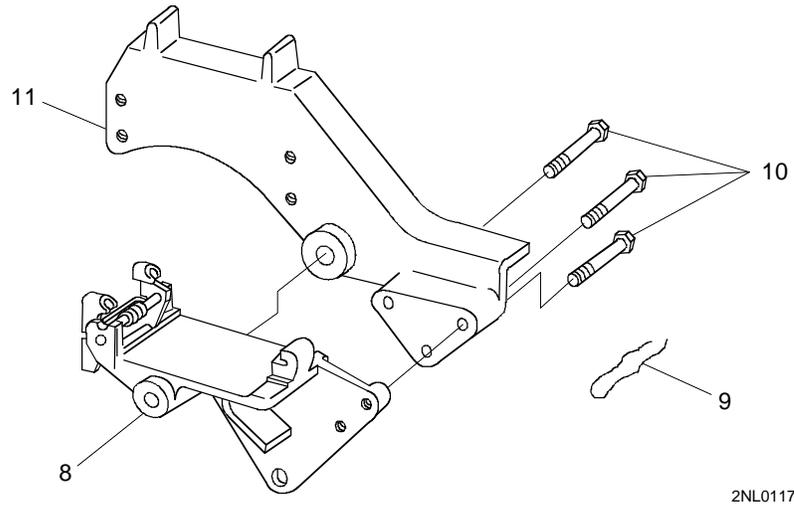
Place hexagon plain nut (15) on machine screw (16) and install in mount pintle (3).



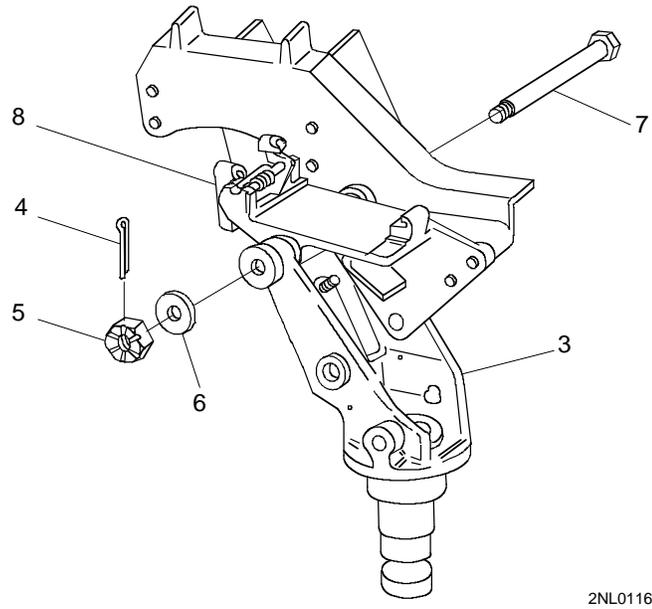
Place gun holder assembly (14) on machine gun cradle (11) and secure with four hexagon cap screws (13). Using new non-electrical wire (9) lock-wire cap screws (13) together on either side.



Place machine gun cradle (11) on platform assembly (8) and secure with three hexagon cap screws (10). Using new non-electrical wire (9) lock-wire cap screws (10) together on either side.



While holding platform assembly (8) on mount pintle (3), secure with shoulder bolt (7), flat washer (6), and slotted plain nut (5). Align slotted plain nut with shoulder bolt and install new cotter pin (4). Bend cotter pin legs around slotted nut.



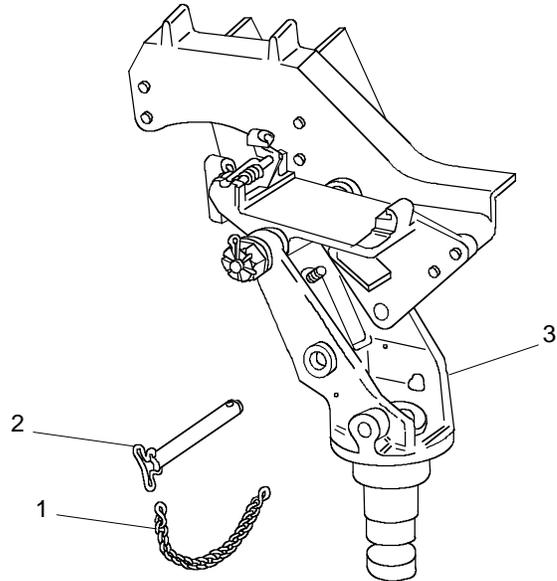
**UNIT MAINTENANCE FOR  
M142 MACHINE GUN MOUNT, NSN 1005-00-854-4463, P/N 10900945 AND  
PLATFORM ASSEMBLY, NSNA, P/N 10900947 (cont)**

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**ASSEMBLY (cont)**

Install quick release pin (2) in mount pintle (3).

Install single chain assembly (1) on mount pintle (3) and quick release pin (2). Crimp ends of chain assembly (1) closed.



2NL0115

**END OF WORK PACKAGE**

**UNIT MAINTENANCE FOR  
GUN MOUNTING ADAPTER, NSN 1005-01-451-7558, P/N 12598081**

---

This task covers: a. Disassembly b. Inspection/Repair c. Cleaning  
d. Refinishing/Lubrication e. Assembly

**INITIAL SETUP**

**Tools and Special Tools:**

Tool Kit, Small Arms Repairman,  
PN SC 5180-95-B71

**Materials/Parts (cont):**

Lubricant, Solid Film, (item 10, WP 0179 00)  
Rag, Wiping, (item 14, WP 0179 00)  
Solvent, Cleaning, (item 17, WP 0179 00)

**Materials/Parts:**

Cleaner, lubricant and preservative, (CLP),  
(item 3, WP 0179 00)  
Enamel, Olive Drab, (item 7, WP 0179 00)  
Enamel, Sand, (item 8, WP 0179 00)

**Equipment Condition:**

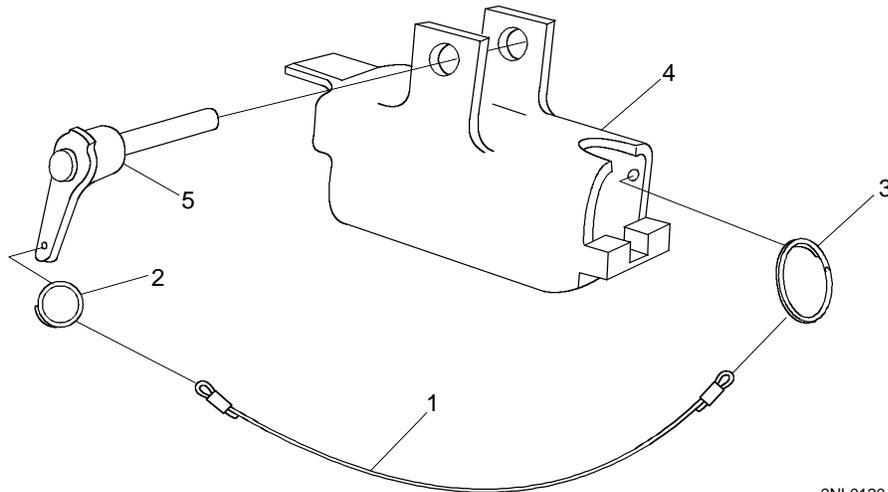
Adapter assembly removed from mount.

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**DISASSEMBLY**

Remove lanyard (1) from rings (2 and 3).

Remove ring (2) from adapter body (4); remove ring (3) from detent pin (5).



2NL0120

**INSPECTION/REPAIR**

Replace detent pin if bent, broken, or will not lock securely in adapter body.

Replace rings if bent or broken.

Replace lanyard if frayed or broken.

Inspect adapter body for bends or cracks; if damaged replace next higher assembly.

Repair is by replacement of authorized parts.

**UNIT MAINTENANCE FOR  
ADAPTER ASSEMBY, NSN 1005-00-772-0194, P/N 7792991**

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**CLEANING**

Clean all components with CLP, wipe dry and apply light coat of CLP.

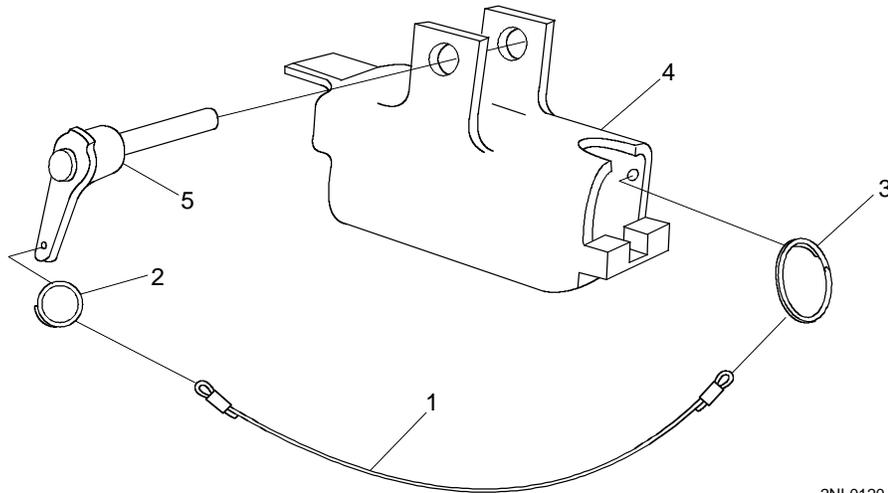
**REFINISHING/LUBRICATION**

Clean area to be refinished with cleaning solvent, wipe dry, and touch-up with enamel paint. Allow to dry per manufacturer's instructions. Apply light coat of CPL.

**ASSEMBLY**

Attach lanyard (1) to rings (2 and 3).

Attach ring (3) to adapter body (4); attach ring (2) to detect pin (5).



2NL0120

**END OF WORK PACKAGE**

**DIRECT SUPPORT MAINTENANCE**



**DIRECT SUPPORT MAINTENANCE FOR  
PLATFORM ASSEMBLY, NSNA, P/N 10900947**

---

This task covers: a. Disassembly    b. Inspection/Repair    c. Cleaning  
d. Refinishing/Lubrication    e. Assembly

**INITIAL SETUP**

**Tools and Special Tools:**

Shop Set, Small Arms: Field  
Maintenance, Basic, Less Power,  
PN SC 4933-95-CL-A11  
Tool Kit, Small Arms Repairman,  
PN SC 5180-95-B71

**Materials/Parts (cont):**

Lubricant, Solid Film, (item 10, WP 0179 00)  
Rag, Wiping, (item 14, WP 0179 00)  
Solvent, Cleaning, (item 17, WP 0179 00)

**Personnel Required**  
2

**Materials/Parts:**

Cleaner, lubricant and preservative, (CLP),  
(item 3, WP 0179 00)

**Equipment Condition:**  
Platform Assembly removed from mount.

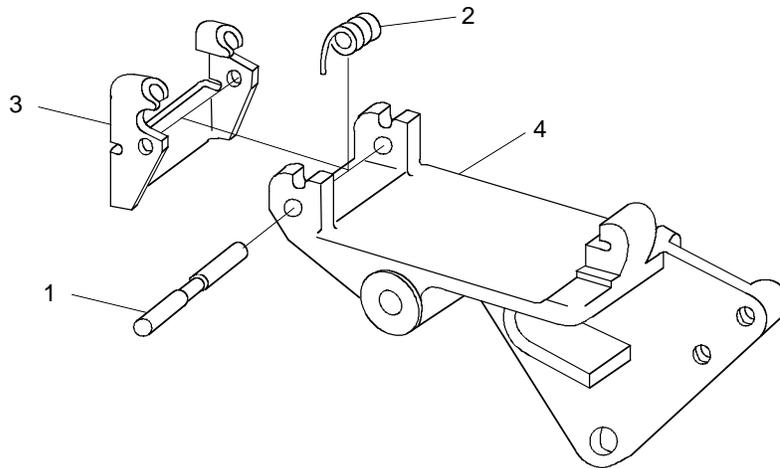
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**DISASSEMBLY**

**WARNING**

To avoid injury to your eyes, use care when removing and installing spring-loaded parts.

Remove headless grooved pin (1), torsion helical spring (2), and catch strike (3) from platform assembly (4).



2NL0121

**INSPECTION/REPAIR**

Inspect for broken, damaged, or missing parts.

Repair is by replacement of authorized parts.

**DIRECT SUPPORT MAINTENANCE FOR  
PLATFORM ASSEMBLY, NSNA, P/N 10900947 (cont)**

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**CLEANING**

Clean all components with CLP, wipe dry and apply light coat of CLP.

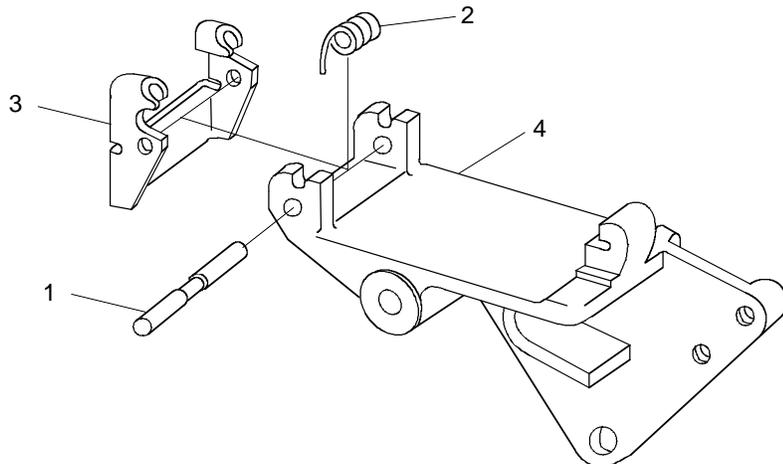
**REFINISHING/LUBRICATION**

Clean area to be refinished with cleaning solvent, wipe dry, and touch-up with SFL. Allow to dry per manufacturer's instructions. Apply light coat of CPL.

**ASSEMBLY****NOTE**

Have helper assist in reassembly.

Place torsion helical spring (2) and catch strike (3) on platform assembly (4) and secure with headless grooved pin (1).



2NL0121

**END OF WORK PACKAGE**

## **CHAPTER 6**

### **6650, .50 CALIBER, MACHINE GUN MOUNT**



**TM 9-1005-245-13&P**

**OPERATOR  
INSTRUCTIONS**

TM 9-1005-245-13&P

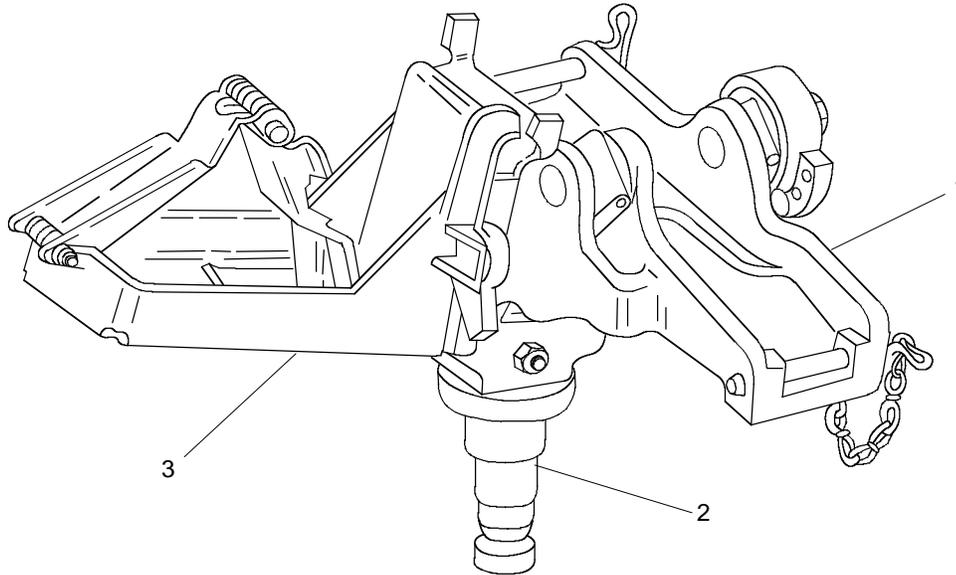
**EQUIPMENT DESCRIPTION AND DATA FOR  
6650, .50 CAL, MACHINE GUN MOUNT, NSN 1005-00-704-6650, P/N 7046650**

---

**EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES**

The 6650, .50 Caliber, Machine Gun Mount is a component assembly designed to mount the M2 Machine Gun in vehicle applications. The 6650, .50 Caliber, Machine Gun Mount is to be installed into a pintle socket of a ring, or cupola mount located on a vehicle. The mount is composed of a cradle, pintle, ammunition box tray, and securing pins or latches.

**LOCATION AND DESCRIPTION OF MAJOR COMPONENTS**



2NL0122

**CRADLE ASSEMBLY (1)** – Designed to provide support for the M2 Machine Gun and an ammunition tray assembly.

**PINTLE (2)** – Provides a pintle that is inserted into the pintle socket of a ring, or cupola mount located on a vehicle.

**TRAY ASSEMBLY, AMMUNITION BOX (3)** – This assembly connects to the ammunition bracket and provides a means of for an ammunition can.

**DIFFERENCES BETWEEN MODELS**

Not Applicable.

**EQUIPMENT DESCRIPTION AND DATA FOR  
6650, .50 CAL, MACHINE GUN MOUNT, NSN 1005-00-704-6650, P/N 7046650 (cont)**

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**EQUIPMENT DATA**

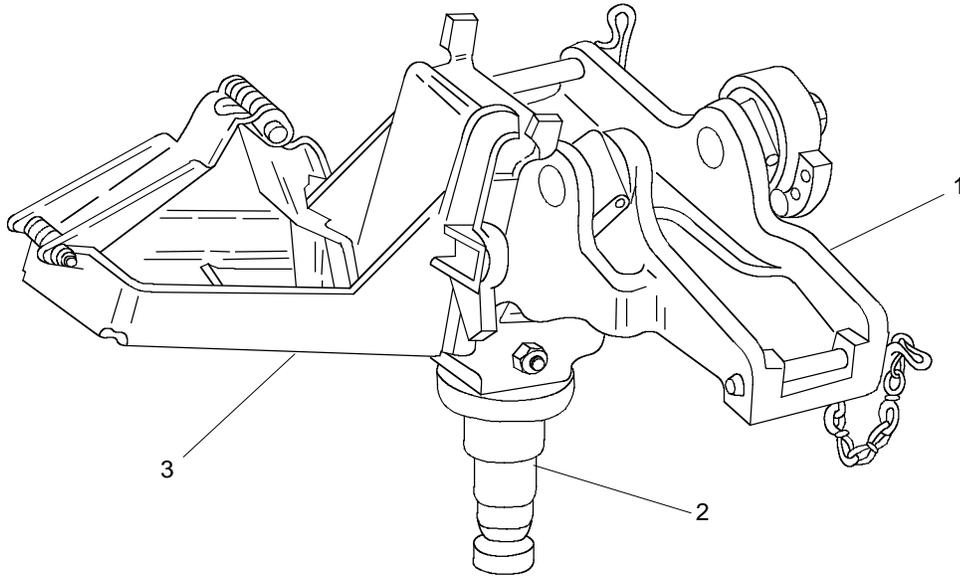
6650, .50 Caliber, Machine Gun Mount (7046650)

Weight.....40.00 lb (13.61 kg)  
Elevation ..... Free Gun .....1422 mil (+80 degrees)  
Depression .....Free Gun .....355 mil (-20 degrees)  
Traverse .....Free Gun .....6400 mil (360 degrees)

**THEORY OF OPERATION FOR  
FOR 6650, .50 CALIBER, MACHINE GUN MOUNT, NSN 1005-00-704-6650, P/N 7046650**

---

The 6650, .50 Caliber, machine gun mount is a component assembly designed to mount the M2 machine gun in vehicle applications. The 6650, .50 Caliber, machine gun mount is to be installed into a pintle socket of a ring, or cupola mount located on a vehicle. The mount is composed of a cradle (1), pintle (2), ammunition box tray (3), and securing pins or latches.



2NL0122



**TROUBLESHOOTING PROCEDURES FOR  
6650, .50 CALIBER, MACHINE GUN MOUNT, NSN 1005-00-704-6650, P/N 7046650**

---

**Table 1. Troubleshooting Procedures for  
6650, .50 Caliber, Machine Gun Mount**

**SYMPTOM**

Machine gun mount will not swivel smoothly.

**MALFUNCTION**

Dirt, rust, burrs, or paint on pintle.

**CORRECTIVE ACTION**

Clean and lubricate pintle.

**SYMPTOM**

Pintle will not insert into pintle socket.

**MALFUNCTION**

Dirt, rust, or paint on pintle.

**CORRECTIVE ACTION**

Clean and lubricate.

**MALFUNCTION**

Pintle is burred and/or damaged.

**CORRECTIVE ACTION**

Remove burrs. If damaged, notify unit maintenance.

**SYMPTOM**

Equilibrator will not hold gun in horizontal position.

**MALFUNCTION**

Machine gun is not mounted properly, or cradle needs adjustment.

**CORRECTIVE ACTION**

Verify machine gun is properly mounted. Notify unit maintenance of adjustment of equilibrator.

**TROUBLESHOOTING PROCEDURES FOR  
6650, .50 CALIBER, MACHINE GUN MOUNT, NSN 1005-00-704-6650, P/N 7046650 (cont)**

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**Table 1. Troubleshooting Procedures for  
6650, .50 Caliber, Machine Gun Mount (cont)**

**SYMPTOM**

Mount will not easily elevate and/or depress.

**MALFUNCTION**

Dirt, rust, or paint on grooved headless straight pin.

**CORRECTIVE ACTION**

Clean and lubricate.

**MALFUNCTION**

Grooved headless straight pin is burred and/or bent.

**CORRECTIVE ACTION**

Remove burrs. If damaged, notify unit maintenance.

**SYMPTOM**

Quick release pin and/or securing pins bind during installation.

**MALFUNCTION**

Dirt, rust, or paint on pins and/or in pinholes.

**CORRECTIVE ACTION**

Clean and lubricate.

**MALFUNCTION**

Pins are burred, bent and/or broken.

**CORRECTIVE ACTION**

Remove burrs. If bent or broken, notify unit maintenance.

**END OF WORK PACKAGE**

**PREVENTIVE MAINTENANCE CHECKS AND SERVICES FOR  
6650, .50 CALIBER, MACHINE GUN MOUNT**

**Table 1. Preventive Maintenance Checks and Services for  
6650, .50 Caliber, Machine Gun Mount**

Item	Interval	Man-Hours	Item to be Checked	Procedures	Not Fully Mission Capable if:
1	Before/ After		6650, .50 Caliber, Machine Gun Mount	<p>Check mount for corrosion, dirt and lubrication.</p> <p>Checks pins and chains for bends, breaks and burrs. Ensure they are properly installed.</p> <p>Check for loose or missing parts.</p> <p>Check ammunition bracket and ammunition box tray assembly for proper installation; and bent or burred components.</p> <p>Visually check weld seams on ammunition box tray assembly for cracks.</p> <p>Check elevation, depression and traverse for smooth operation.</p> <p>Ensure travel lock (quick release pin) prevents rotation of mount when installed.</p> <p>Check equilibrator will maintain horizontal position with machine gun and ammunition can mounted and travel lock (quick release pin) disengaged.</p>	<p>Mount shows corrosion, is dirty, or is not properly lubricated.</p> <p>Pins and/or chains are bent, burred or missing.</p> <p>Parts are loose or missing.</p> <p>Ammunition bracket and/or ammunition box tray assembly are bent or burred or improperly installed.</p> <p>Weld seams on ammunition box tray assembly are cracked.</p> <p>Elevation, depression or traverse will not move smoothly.</p> <p>Mount rotates with travel lock (quick release pin) installed.</p> <p>Equilibrator will not maintain horizontal position with machine gun and ammunition can mounted.</p>

**END OF WORK PACKAGE**



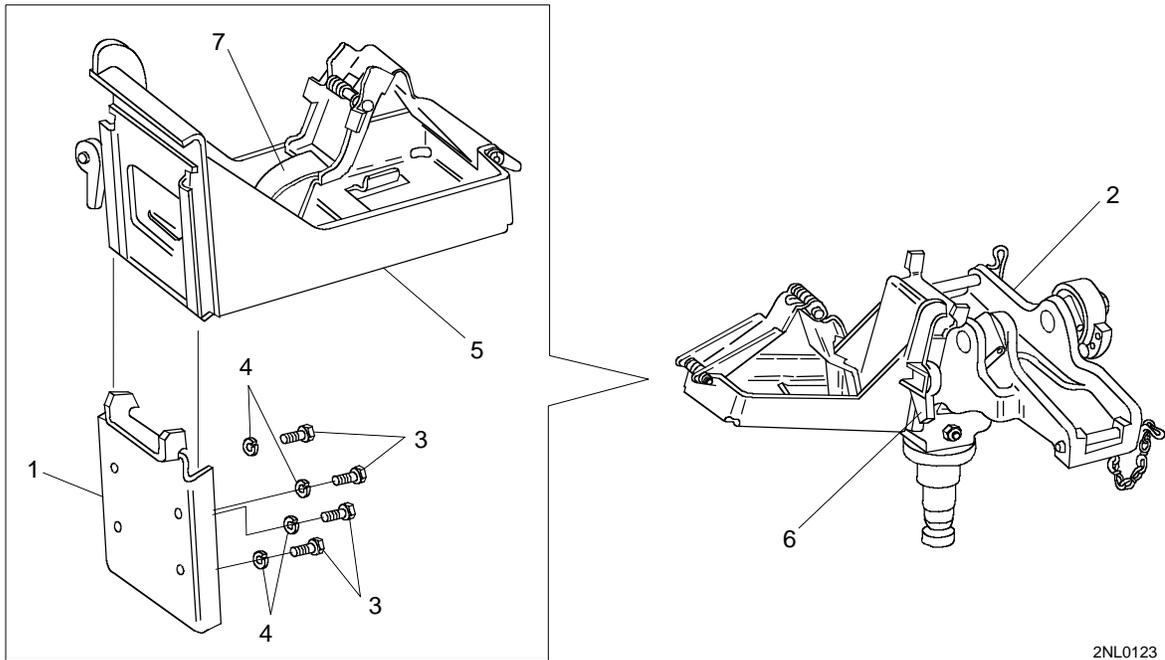
**OPERATOR INSTRUCTIONS FOR  
6650, .50 CALIBER, MACHINE GUN MOUNT**

**PLACING INTO OPERATION**

Attach ammunition bracket (1) to cradle (2) using four machine bolts (3) and washers (4). Attach ammunition tray assembly (5) by sliding the front end into the channels of the ammunition bracket (1). Depress the cam lock (6) to lock in place.

**NOTE**

The pressure foot (7) sets on top of the ammunition to prevent ammunition from falling from ammunition box when mount is fully elevated.



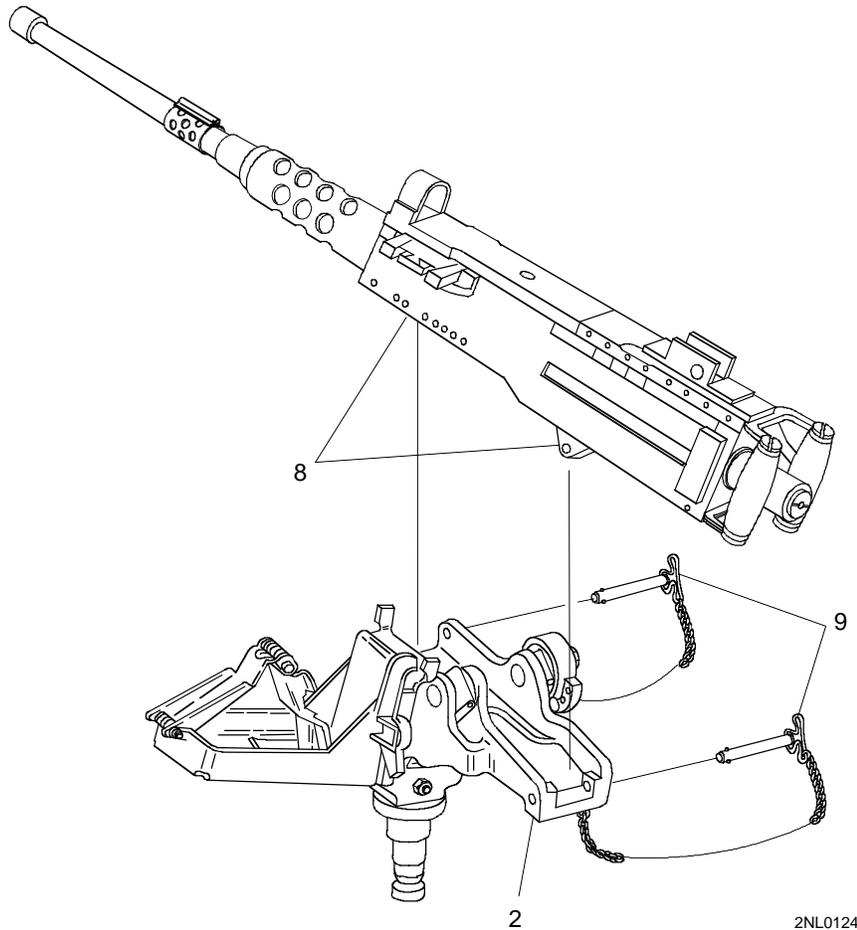
2NL0123

## OPERATOR INSTRUCTIONS FOR 6650, .50 CALIBER, MACHINE GUN MOUNT (cont)

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### PLACING INTO OPERATION (cont)

To attach the M2 machine gun, place the machine gun in the cradle and align the front and rear mounting points (8) of the receiver to the mounting holes of the cradle. Insert two quick release pins (9), making sure they are completely through the gun and both sides of the cradle (2).



2NL0124

### FREE GUN

If engaged, release the mount tie bar from the cradle by moving the cradle to maximum depression. The tie bar will disengage itself (spring action). Remove the travel lock pin (quick release pin) from the pintle mount. Loosen the pintle clamping screw on the vehicle socket enough to allow the mount to traverse in the socket. If installed on a ring, release the brake assembly. The gun is now free to travel 360°, if needed.

## TAKING OUT OF OPERATION

Clear the weapon in accordance with weapons operators TM. Pull two quick release pins from mount and weapons receiver, and lift weapon from mount.

## PREPARATION FOR MOVEMENT

Insert the travel lock pin (quick release pin) (9) to prevent mount from depressing/elevating, making sure they are completely through both sides of the cradle (2). Tighten the pintle clamping screw (engage ring brake assembly).

The 6650 .50 cal machine gun mount has a travel lock tie bar in addition to the travel lock pin. The tie bar is attached to the pintle and connects to the lower portion of the cradle.

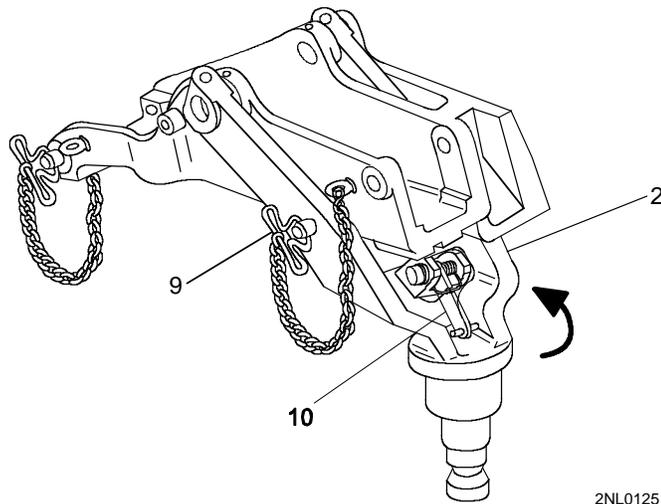
### WARNING

Weapons shall be manned when mounted for operation in moving vehicles, except when travel lock is engaged. If weapon is not manned in a turret, the ring must be locked forward, the travel lock must be attached, and all adjustment screw must be tightened.

### NOTE

Weapon and quick release pins and ammunition tray assembly removed for clarity.

Engage the tie bar (10) by raising the machine gun barrel to maximum elevation, lift the tie bar and insert the end of the tie bar into the forward end of the channel on the bottom of the cradle. Holding the tie bar in position, depress the machine gun barrel and cradle to a horizontal position.



2NL0125

**END OF WORK PACKAGE**



## **UNIT MAINTENANCE**



**UNIT MAINTENANCE FOR  
6650, .50 CALIBER, MACHINE GUN MOUNT, NSN 1005-00-704-6650, P/N 7046650**

This task covers: a. Disassembly b. Inspection/Repair c. Adjustment d. Cleaning  
e. Refinishing/Lubrication f. Assembly

**INITIAL SETUP**

**Tools and Special Tools:**

Tool Kit, Small Arms Repairman,  
PN SC 5180-95-B71

**Materials/Parts:**

Cleaner, lubricant and preservative, (CLP),  
(item 3, WP 0179 00)  
Enamel, Olive Green, (item 7, WP 0179 00)  
Enamel, Sand, (item 8, WP 0179 00)

**Materials/Parts (cont):**

Lock-washer, P/N MS35338-046  
Lubricant, Solid Film, (item 10, WP 0179 00)  
Rag, Wiping, (item 14, WP 0179 00)  
Solvent, Cleaning, (item 17, WP 0179 00)

**Equipment Condition:**

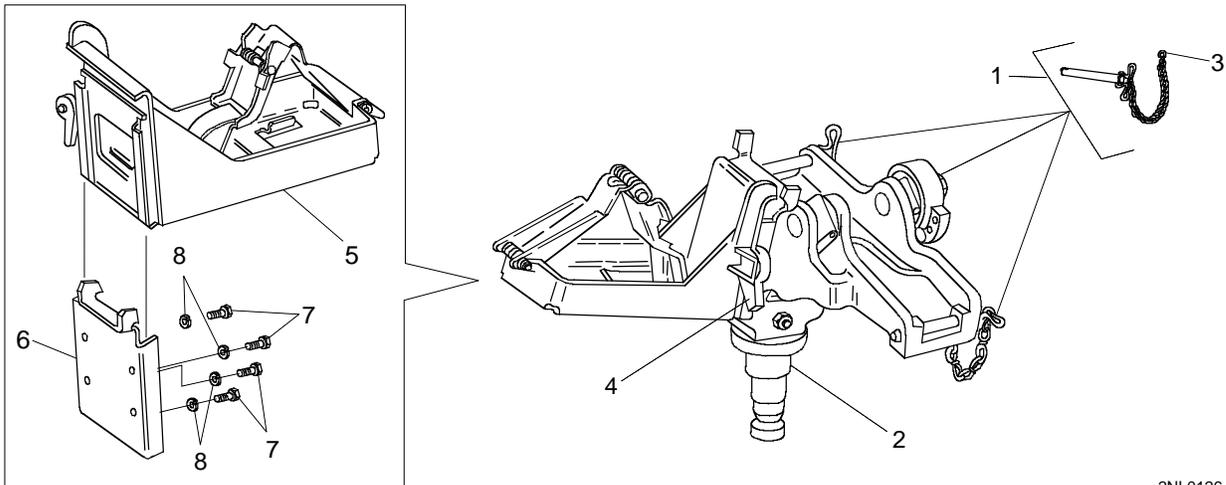
Mount removed from vehicle.

**DISASSEMBLY**

Remove three quick release pins (1) from machine gun mount assembly (2). Open the end link (3) and remove chains from attachment points on cradle.

Rotate cam (4) counterclockwise and remove ammunition box tray assembly (5) from ammunition bracket (6). Remove four hexagon head screws (7), four lock-washers (8), and ammunition bracket (6) from machine gun cradle. Discard lock-washers.

Disassembly of equilibrator is not authorized; notify direct support maintenance for repair. To correct horizontal adjustment of equilibrator proceed to ADJUSTMENT procedure (WP 0061 00).



2NL0126

**UNIT MAINTENANCE FOR  
6650, .50CALIBER, MACHINE GUN MOUNT, NSN 1005-00-704-6650, P/N 7046650 (cont)**

**INSPECTION/REPAIR**

Inspect for loose, broken, damaged, or missing parts.

Inspect welds for cracks.

The 6650, .50 caliber, machine gun mount is a repairable assembly; notify direct support maintenance.

Repair is by replacement of authorized parts.

**CLEANING**

Clean all components with CLP, wipe dry and apply light coat of CLP.

**REFINISHING/LUBRICATION**

Clean area to be refinished with cleaning solvent, wipe dry, and touch-up with enamel paint. Allow to dry per manufacturer's instructions. Apply light coat of CPL.

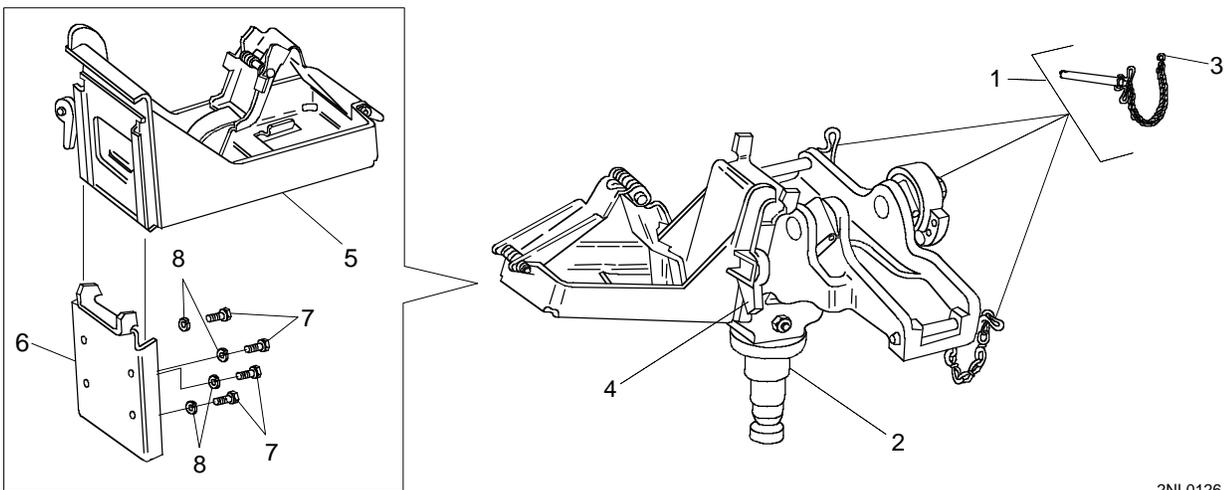
**ASSEMBLY**

Align holes in ammunition bracket (6) to holes of machine gun cradle and secure with four new lock-washers (8) and four hexagon head screws (7).

Place ammunition box (5) on ammunition bracket (6) and rotate cam (4) clockwise to lock.

Insert open link end (3) to attachment points on cradle, and crimp the link closed.

Insert three quick release pins (1) in machine gun cradle.



2NL0126

**END OF WORK PACKAGE**

**UNIT MAINTENANCE FOR  
ADJUSTMENT OF 6650, .50 CALIBER, MACHINE GUN MOUNT,  
NSN 1005-00-704-6650, P/N 7046650**

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**ADJUSTMENT**

**WARNING**

Adjustment of equilibrator must be performed prior to firing of any weapon.

**NOTE**

When the 6650, .50 caliber, machine gun mount is mounted to the vehicle, the equilibrator should act as a counterbalance, retaining the weapon (and full ammunition can) in a horizontal position. If the weapon is not horizontal, note the approximate angle of adjustment required and perform this procedure.

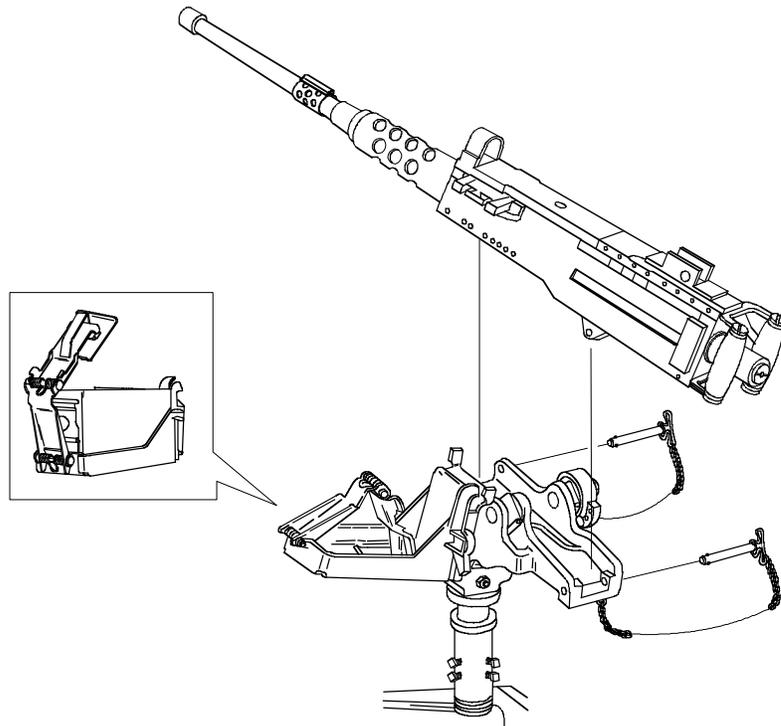
Install 6650 machine gun mount on vehicle ring.

Install .50-caliber machine gun on 6650 (WP 0059 00).

**NOTE**

An ammunition can weighted to approximately 36.5 lbs may be used.

Place a full box of dummy (or live) ammunition in ammunition bracket (WP 0059 00).



2NL0127

**UNIT MAINTENANCE FOR  
ADJUSTMENT OF 6650, .50 CALIBER, MACHINE GUN MOUNT,  
NSN 1005-00-704-6650, P/N 7046650 (cont)**

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**CAUTION**

Do not load ammunition into machine gun.

**NOTE**

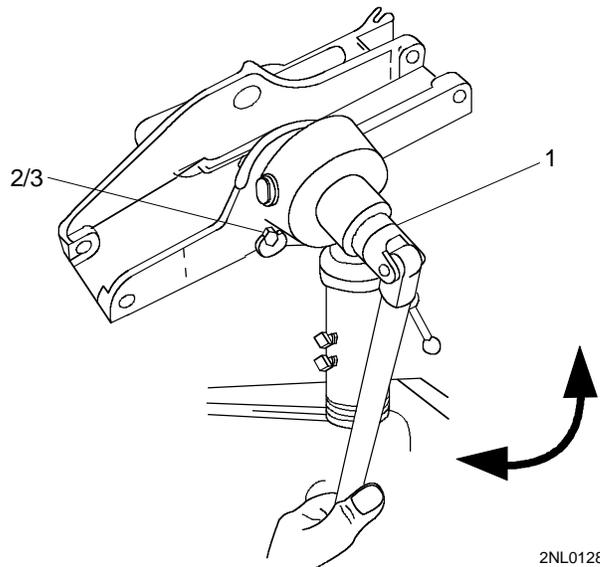
Weapon removed for clarity.

The equilibrator should retain the machine gun in a horizontal position when the travel locks are disconnected.

The equilibrator spring should function to counterbalance the weight of the machine gun and ammunition.

Adjustment is made by placing socket on hexagon portion of case (1), holding the case to the machine gun cradle. Remove hexagon head cap screw (2) and lock-washer (3) from the adjusting hole on the side of the case. Using socket wrench, rotate case in the required direction until the machine is horizontal.

Install lock-washer (3) and hexagon head cap screw (2) into adjusting hole of case (1) and tighten.



**END OF WORK PACKAGE**

**UNIT MAINTENANCE FOR  
AMMUNITION BOX MOUNTING TRAY ASSEMBLY, NSN 8140-01-156-7371, P/N 6590078**

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This task covers: a. Disassembly    b. Inspection/Repair    c. Adjustment    d. Cleaning  
e. Refinishing/Lubrication    f. Assembly

**INITIAL SETUP**

**Tools and Special Tools:**

Tool Kit, Small Arms Repairman,  
PN SC 5180-95-B71

**Materials/Parts:**

Cleaner, lubricant and preservative, (CLP),  
(item 3, WP 0179 00)  
Cotter Pin, P/N M24665-814  
Cotter Pin, P/N NAS24665-283

**Materials/Parts (cont):**

Lubricant, Solid Film, (item 10, WP 0179 00)  
Rag, Wiping, (item 14, WP 0179 00)  
Rivet, P/N 5412816  
Solvent, Cleaning, (item 17, WP 0179 00)

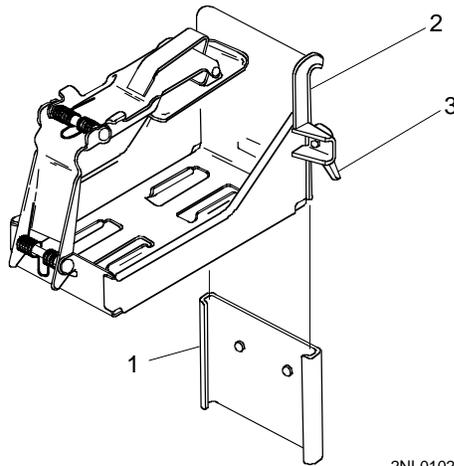
**Equipment Condition:**

Assembly removed from mount.

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**DISASSEMBLY**

Remove ammunition box mounting tray assembly (1) from ammunition loading tray (2) by rotating cam lever (3) upward and sliding ammunition box mounting tray assembly (1) downward from ammunition loading tray.

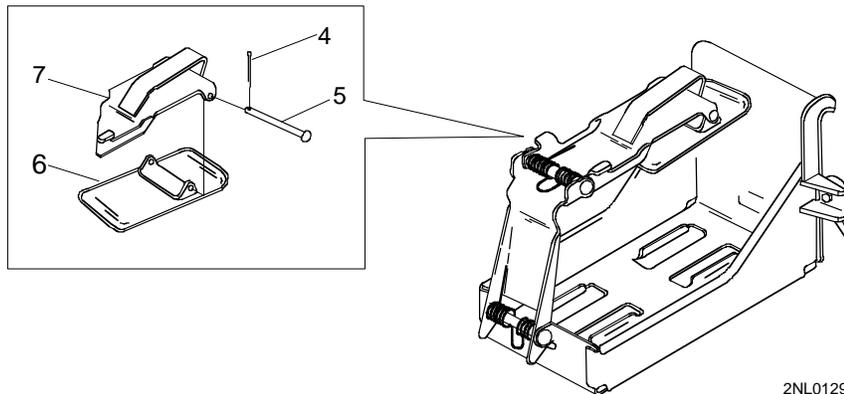


2NL0102

**UNIT MAINTENANCE FOR  
AMMUNITION BOX MOUNTING TRAY ASSEMBLY, NSN 8140-01-156-7371, P/N 6590078 (cont)****DISASSEMBLY (cont)**

Pry up ends of cotter pin (4), remove and discard cotter pin. Tap out straight pin (5).

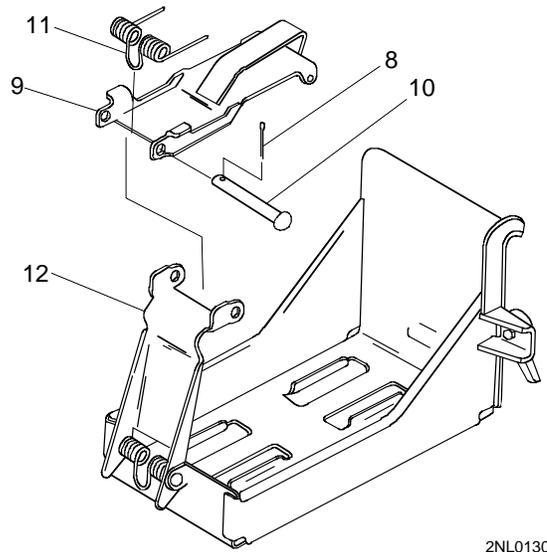
Separate pad assembly (6) from top pressure strap (7).



Pry up ends of cotter pin (6), remove and discard cotter pin.

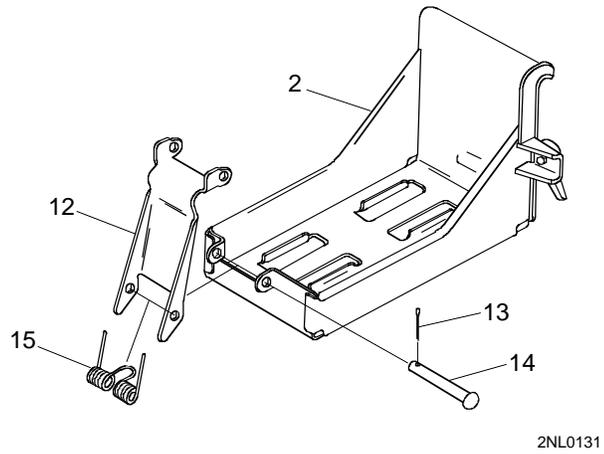
Rotate top pressure strap assembly (7) downward to relieve spring tension.

Tap out straight pin (10), and separate helical torsion spring (11) from top of pressure strap (9) and rear strap assembly (12).



Pry up ends of cotter pin (13), remove and discard cotter pin.

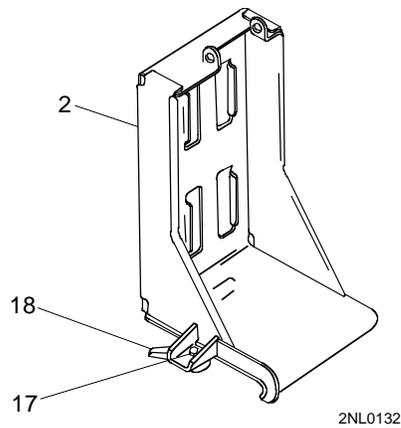
Tap out straight pin (14), and separate helical torsion spring (15) from rear pressure strap (12) and ammunition loading tray (2).



**NOTE**

Remove only if rivet or cam are damaged.

Position a punch under head of solid rivet (17) and hit with a hammer to break-off head of rivet. Discard rivet. Remove cam (18).



**UNIT MAINTENANCE FOR  
AMMUNITION BOX MOUNTING TRAY ASSEMBLY, NSN 8140-01-156-7371, P/N 6590078 (cont)**

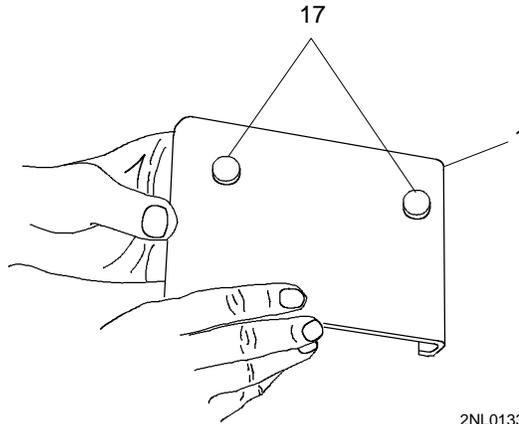
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**INSPECTION/REPAIR**

Inspect for loose, broken, damaged, or missing parts.

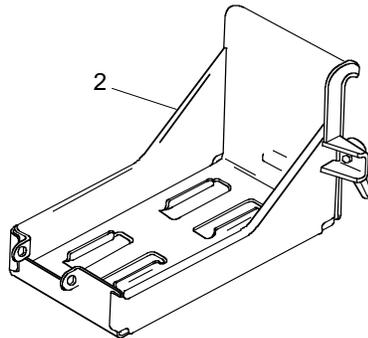
Inspect welds for cracks.

Inspect ammunition box bracket assembly (1); if bracket is damaged; or if welded lugs (19) are missing, damaged or unserviceable, repair is by replacement of assembly.



2NL0133

Inspect ammunition loading tray (2); if damaged, repair is by replacement of next higher assembly.



2NL0134

Repair is by replacement of authorized parts.

**CLEANING**

Clean all components with CLP, wipe dry and apply light coat of CLP.

**REFINISHING/LUBRICATION**

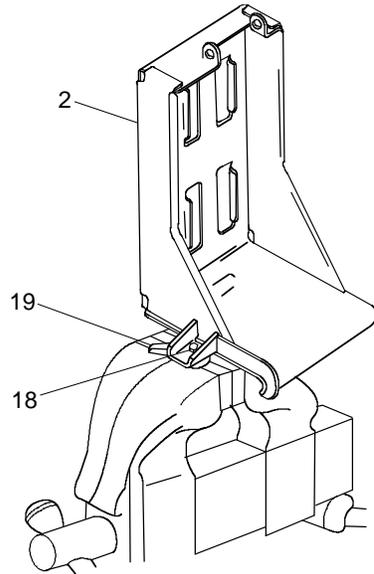
Clean area to be refinished with cleaning solvent, wipe dry, and touch-up with enamel paint. Allow to dry per manufacturer's instructions. Apply light coat of CPL.

**ASSEMBLY**

**NOTE**

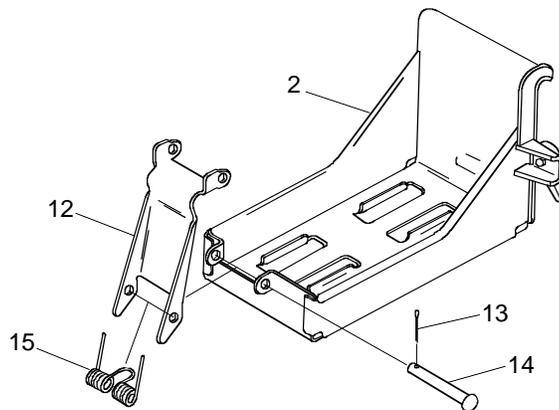
Perform this step only if the rivet was removed.

Align cam (19) to hole in ammunition tray (2) and insert rivet (18). Turn ammunition loading tray upright (on end). Using a hard surface (vise jaw) as an anvil, peen over back end of rivet with punch and hammer.



2NL0135

Position rear strap (12) against ammunition holding tray (2) with pinholes aligned.



2NL0131

Position helical torsion spring (15) between pinholes, ends upward as shown.

Insert straight pin (15) through rear (12) and first set of coils of helical torsion spring (16).

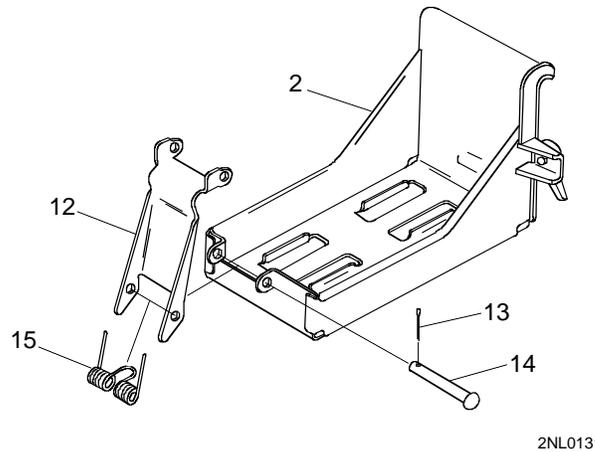
Using pliers, rotate tab on helical torsion spring (15) downward so tab is seated on ammunition holding tray (2).

**UNIT MAINTENANCE FOR  
AMMUNITION BOX MOUNTING TRAY ASSEMBLY, NSN 8140-01-156-7371, P/N 6590078 (cont)**

**ASSEMBLY (cont)**

Tap straight pin (14) through second set of coils and other side of rear strap (12) and ammunition holding tray (2).

Install new cotter pin (13) through hole in end of straight pin. Using pliers, bend the ends of cotter pin around the straight pin (14).



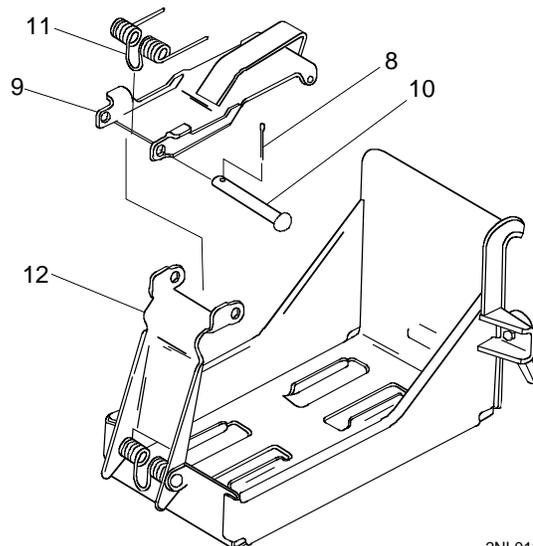
2NL0131

Position top pressure strap (9) against rear strap (12) with pinholes aligned.

Seat tab of helical torsion spring (11) on top pressure strap (9) with coils of helical torsion spring aligned with pinholes in top pressure strap assembly.

**NOTE**

The two ends of helical torsion spring will stick upward and tab will rest on top pressure strap assembly when aligned correctly.



2NL0130

Insert straight pin (10) through top pressure strap (9) and first set of coils on helical torsion spring (11).

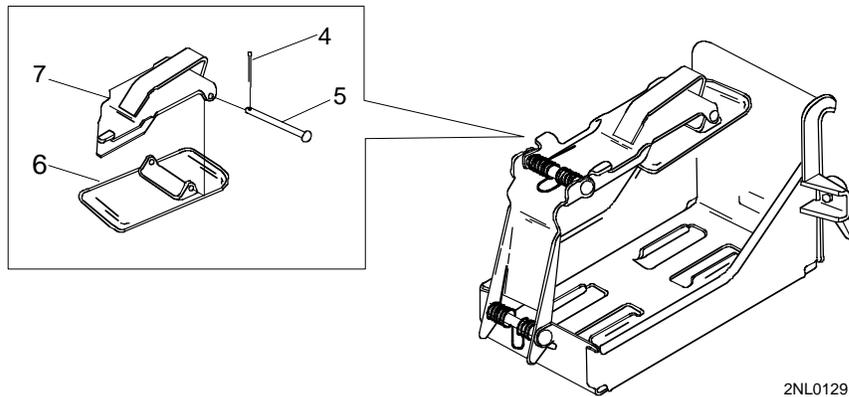
Using pliers, rotate tab on helical torsion spring (11) downward until tab is seated on rear strap (12).

Tap straight pin (10) through second set of coils and other side of pressure strap (9) and rear strap (12).

Install new cotter pin (8) through hole in end of straight pin. Using pliers, bend the ends of cotter pin around the straight pin (10).

Align pinholes in top pressure strap (7) with those in pad assembly (7).

Using hammer, tap in straight pin (6) in direction shown.

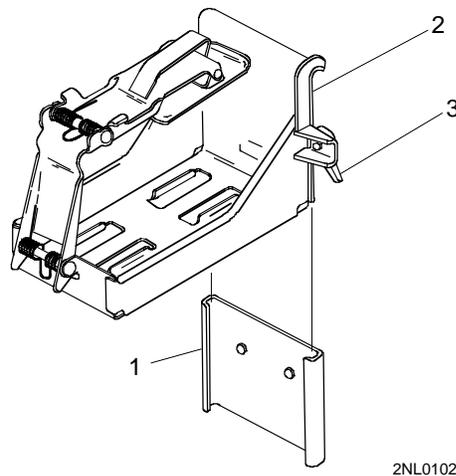


Install new cotter pin (4) through hole in end of straight pin. Using pliers, bend the ends of cotter pin around the straight pin (5).

Position ammunition box bracket assembly (1) below ammunition loading tray (2) with grooves aligned.

Lift cam (19) on ammunition loading tray (2) and slide ammunition box bracket assembly (1) upward into grooves of ammunition loading tray (2).

Push cam (19) down to hold ammunition box bracket assembly (1) in place.



**END OF WORK PACKAGE**

0062 00-7/8 blank



**DIRECT SUPPORT MAINTENANCE**



**DIRECT SUPPORT MAINTENANCE FOR  
6650, .50 CALIBER, MACHINE GUN MOUNT, NSN 1005-00-704-6650, P/N 7046650**

This task covers: a. Disassembly b. Inspection/Repair c. Adjustment d. Cleaning  
e. Refinishing/Lubrication f. Assembly

**INITIAL SETUP**

**Tools and Special Tools:**

Shop Set, Small Arms: Field  
Maintenance, Basic, Less Power,  
PN SC 4933-95-CL-A11  
Tool Kit, Small Arms Repairman,  
PN SC 5180-95-B71

**Materials/Parts (cont):**

Lock-washer (4), P/N MS35333-42  
Lock-washer, P/N MS35333-46  
Lock-washer (3), P/N MS35338-45  
Lock-washer, P/N MS35338-46  
Lubricant, Solid Film, (item 10, WP 0179 00)  
Rag, Wiping, (item 14, WP 0179 00)  
Solvent, Cleaning, (item 17, WP 0179 00)

**Materials/Parts:**

Cleaner, lubricant and preservative, (CLP),  
(item 3, WP 0179 00)  
Cotter pin, P/N MS24665-132  
Enamel, Olive Green, (item 7, WP 0179 00)  
Enamel, Sand, (item 8, WP 0179 00)

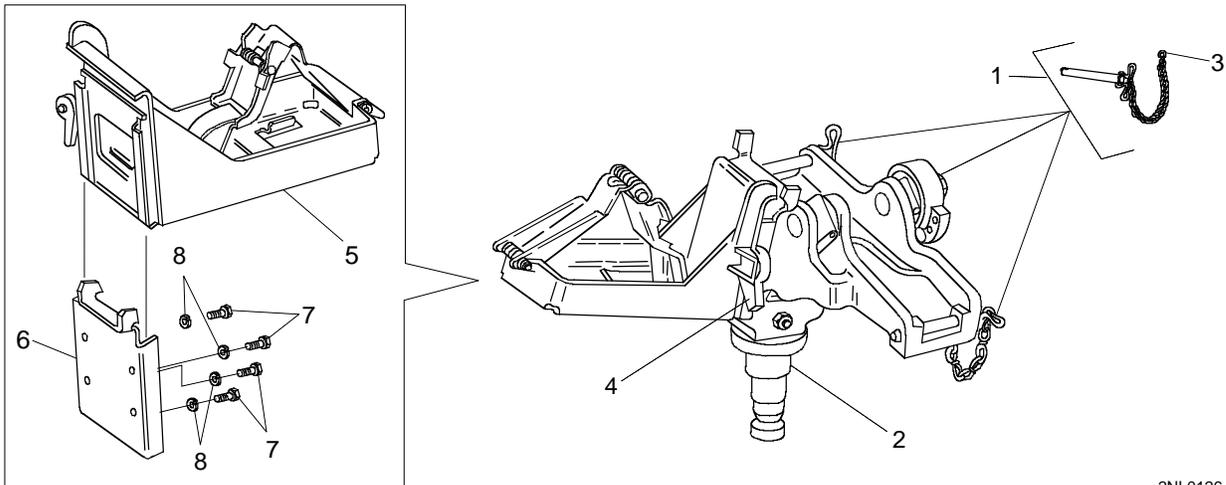
**Equipment Condition:**

Mount removed from vehicle; ammunition box  
tray assembly and ammunition bracket removed.

**DISASSEMBLY**

Remove three quick release pins (1) from machine gun mount assembly (2). Open the end link (3) and remove chains from attachment points on cradle.

Rotate cam (4) counterclockwise and remove ammunition box tray assembly (5) from ammunition bracket (6). Remove four hexagon head screws (7), four lock-washers (8), and ammunition bracket (6) from machine gun cradle. Discard lock-washers.



2NL0126

**DIRECT SUPPORT MAINTENANCE FOR  
6650, .50 CALIBER, MACHINE GUN MOUNT, NSN 1005-00-704-6650, P/N 7046650 (cont)**

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**DISASSEMBLY (cont)**

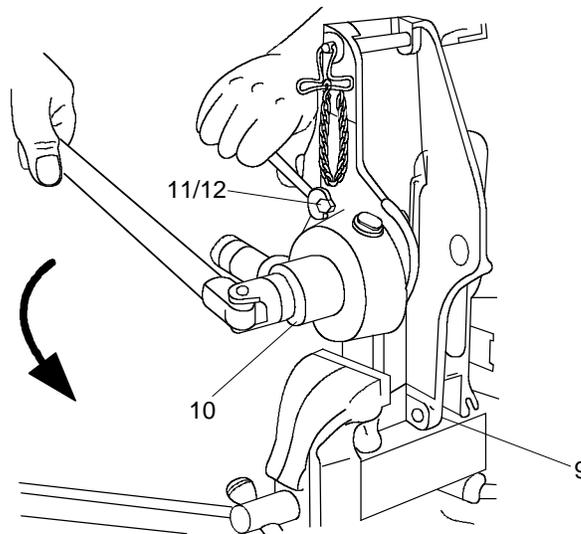
Clamp machine gun cradle (9) in vise with case (10) facing to the front.

**WARNING**

Case is under spring tension. To avoid injury to personnel, do NOT release wrench until tension has been completely relieved from spring.

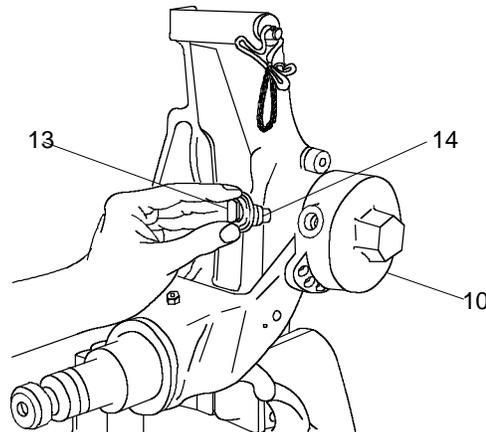
Place a socket (or combination) wrench on hexagon portion of case (10). Hold handle to counterbalance spring tension, and remove hexagon head cap screw (11) and lock-washer (12). Discard lock-washer.

Allow socket handle (or combination) wrench to rotate fully several turns to relieve spring tension. Remove socket (or combination) wrench.



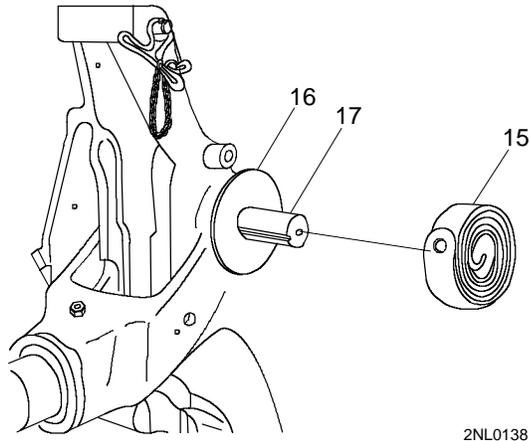
2NL0136

Remove equilibrator stud (13) and lock-washer (14) from case (10), and remove case. Discard lock-washer.



2NL0137

Remove torsion spiral spring (15) and flat washer (16) from headless grooved pin (17).

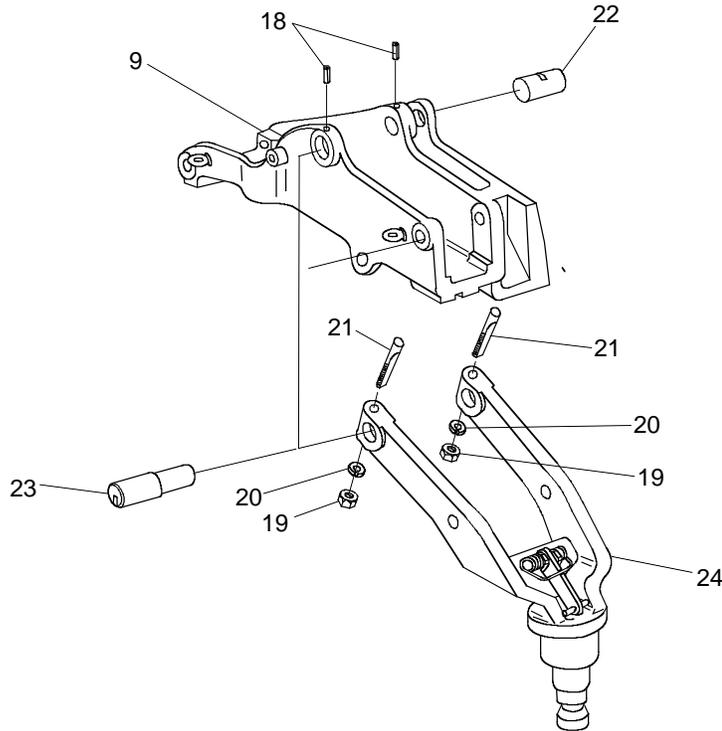


2NL0138

**NOTE**

Remove machine gun cradle from vise.

Remove two wicks (18), two hexagon plain nuts (19), two lock-washers (20), and two threaded tapered pins (21). Remove headless straight pin (22) and headless grooved pin (23) from machine gun cradle (9). Separate mount pintle (24) from machine gun cradle (9). Discard lock-washers.



2NL0139

**DIRECT SUPPORT MAINTENANCE FOR  
6650, .50 CALIBER, MACHINE GUN MOUNT, NSN 1005-00-704-6650, P/N 7046650 (cont)**

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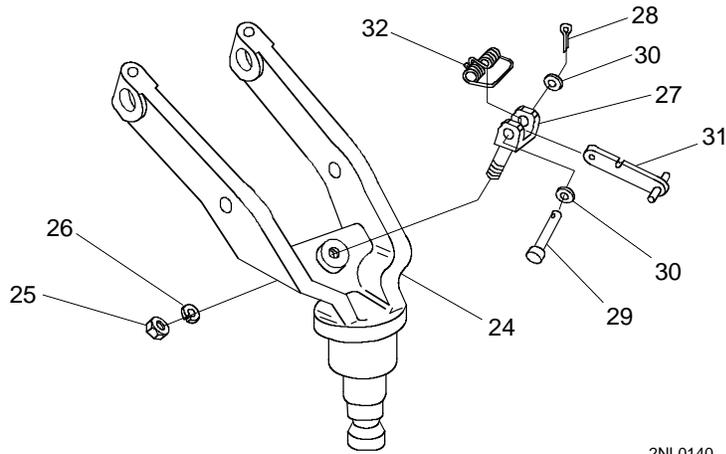
**DISASSEMBLY (cont)**

Remove hexagon plain nut (25), lock-washer (26), and rod end clevis (27) with attached parts from mount pintle (24). Discard lock-washer.

**WARNING**

To avoid injury to your eyes, use care when removing and installing spring-loaded parts.

Remove cotter pin (28) from headed straight pin (29), and remove headed straight pin, two flat washers (330), machine gun bar (31), and torsion helical spring (32) from rod end clevis (27). Discard cotter pin.



2NL0140

**INSPECTION/REPAIR**

Inspect for broken, damaged, or missing parts.

If mount pintle is broken or damaged, repair is by replacement of next higher assembly.

Touch up bright metal surfaces with enamel paint.

Repair is by replacement of authorized parts.

**CLEANING**

Clean all components with CLP, wipe dry and apply light coat of CLP.

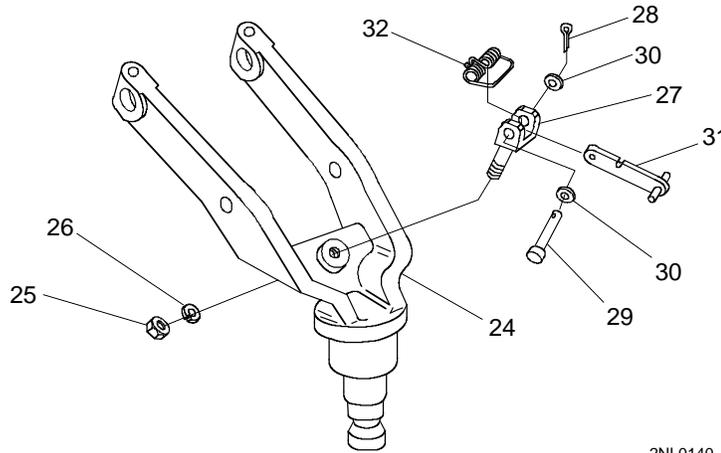
**REFINISHING/LUBRICATION**

Clean area to be refinished with cleaning solvent, wipe dry, and touch-up with enamel paint. Allow to dry per manufacturer's instructions. Apply light coat of CPL.

**ASSEMBLY**

Align torsion helical spring (32) and machine gun bar (31) with rod end clevis (27) and secure with two flat washers (30), headed straight pin (29), and new cotter pin (28).

Place rod end clevis (27) with attached parts in mount pintle (24) and secure with new lock-washer (26) and hexagon plain nut (25).

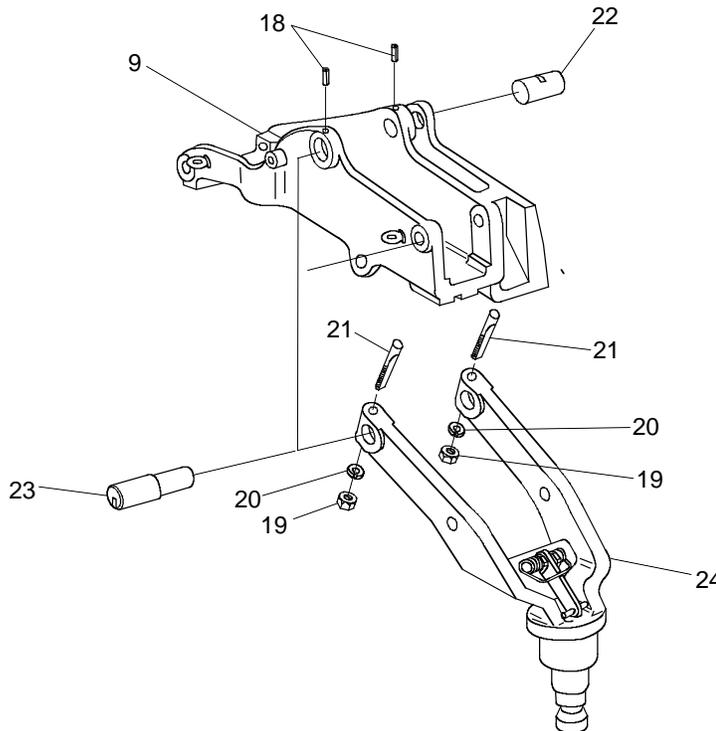


2NL0140

Align mount pintle (23) with machine gun cradle (4) and secure with two threaded tapered pins (21), two new lock-washers (20), and two hexagon plain nuts (19). Install headless grooved pin (12) and headless straight pin (22), and secure with two wicks (18).

Install three quick release pins (15, 16, and 17).

Place ammunition bracket (3) on machine gun cradle (4) and secure with four new lock-washers (14) and four hexagon head screws (13).



2NL0139

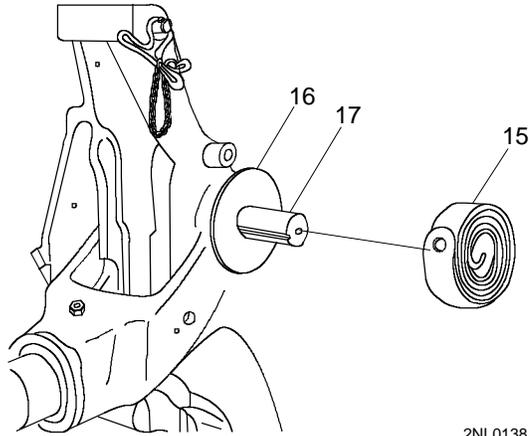
**DIRECT SUPPORT MAINTENANCE FOR  
6650, .50 CALIBER, MACHINE GUN MOUNT, NSN 1005-00-704-6650, P/N 7046650 (cont)**

**ASSEMBLY (cont)**

Clamp machine gun cradle (9) in vise with headless grooved pin (17) facing to the front.

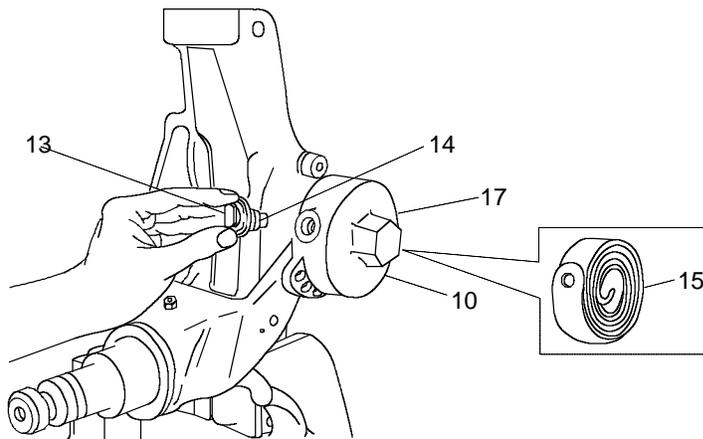
Install flat washer (16) onto headless grooved pin (17).

Align inside tang of torsion spiral spring (15) with slot on headless grooved pin (17).



2NL0138

Install case (10) over torsion spiral spring (15). Align hole in rounded end of spring (15) with equilibrator stud hole in case. Secure with new lock-washer (14) and equilibrator stud (13).



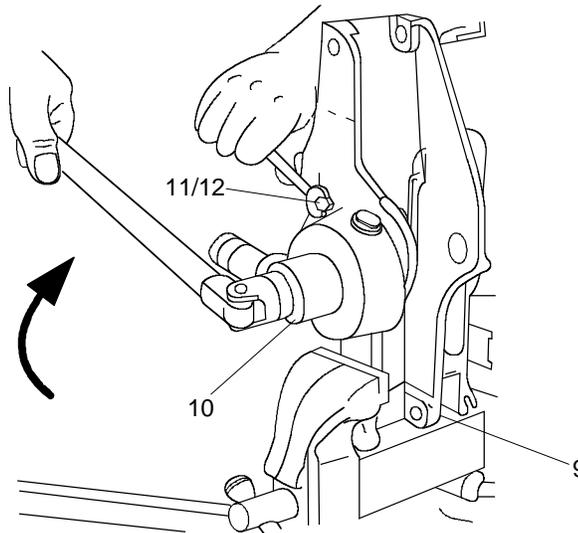
2NL0141

**WARNING**

To avoid injury to your eyes, use care when removing and installing spring-loaded parts.

Place socket and drive socket handle on case (10) and apply pressure to case until adjusting holes in case and machine gun cradle (9) align.

Install new lock-washer (12) and hexagon head cap screw (11).



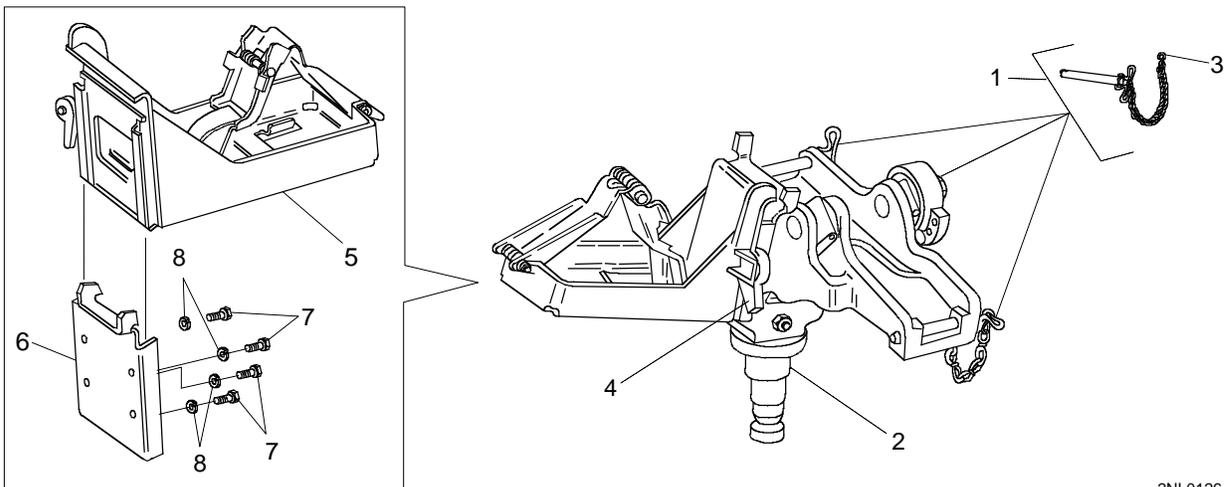
2NL0142

Align holes in ammunition bracket (6) to holes of machine gun cradle and secure with four new lock-washers (8) and four hexagon head screws (7).

Place ammunition box (5) on ammunition bracket (6) and rotate cam (4) clockwise to lock.

Insert open link end (3) to attachment points on cradle, and crimp the link closed.

Insert three quick release pins (1) in machine gun cradle.



2NL0126

**DIRECT SUPPORT MAINTENANCE FOR  
6650, .50 CALIBER, MACHINE GUN MOUNT, NSN 1005-00-704-6650, P/N 7046650 (cont)**

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**ADJUSTMENT**

For equilibrators adjustment refer to WP 0061 00.

**END OF WORK PACKAGE**

## **CHAPTER 7**

### **M197 MACHINE GUN MOUNT**



**TM 9-1005-245-13&P**

**OPERATOR  
INSTRUCTIONS**

TM 9-1005-245-13&P

## EQUIPMENT DESCRIPTION AND DATA FOR M197 MACHINE GUN MOUNT, NSN 1005-01-413-4098, P/N 12956264

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### EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES

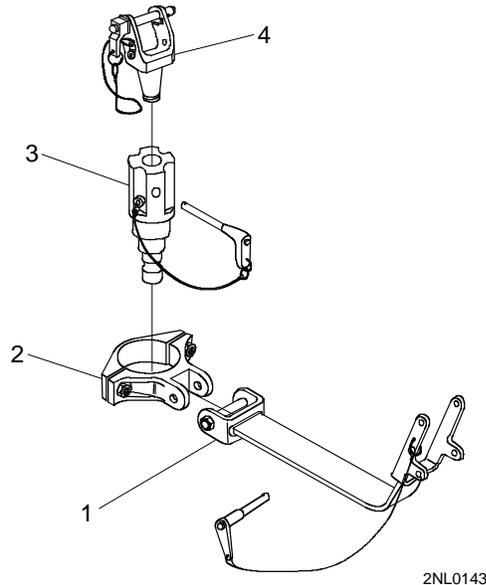
The M197 machine gun mount is a component assembly designed to attach M60, M249 SAWS and M240B machine guns to a gun pedestal or the pintle adapter on a M1025/M1026/M1114 High Mobility Multipurpose Wheeled Vehicle (HMMWV) (Armament Carrier).

Composed of a travel lock assembly (1), travel lock bracket assembly (2), pintle adapter assembly (3), and a pintle (4) (pintle or pintle assembly (for M249 and M240B only)).

Travel lock components and the M122 pintle are additional authorized items for support of the M60 (see Additional Authorization List (AAL), WP 0178 00).

The deflector kit is an additional authorized item for support of the M240B machine gun (see Additional Authorization List (AAL) WP 0178 00).

### LOCATION AND DESCRIPTION OF MAJOR COMPONENTS



**TRAVEL LOCK ASSEMBLY (1)** – Designed to provide a means of locking weapon into position during movement of vehicle.

**TRAVEL LOCK BRACKET ASSEMBLY (2)** – Designed to attach to a pedestal and /or pintle adapter on a vehicle to provide a means to attach the travel lock assembly.

**PINTLE ADAPTER ASSEMBLY (3)** – Designed to provide a means to attach the travel lock pintle assembly for the M240B machine gun or M249 SAW or a pintle mount for the M60 machine gun or M249 SAW.

**TRAVEL LOCK PINTLE ASSEMBLY (4)** – Designed to provide support for the M240B machine gun or M249 SAW. The M60 machine gun or M249 SAW can be mounted by using a pintle mount (AAL).

**EQUIPMENT DESCRIPTION AND DATA FOR  
M197 MACHINE GUN MOUNT, NSN 1005-01-413-4098, P/N 12956264 (cont)**

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**DIFFERENCES BETWEEN MODELS**

Not Applicable.

**EQUIPMENT DATA**

M197 Machine Gun Mount (12956264)

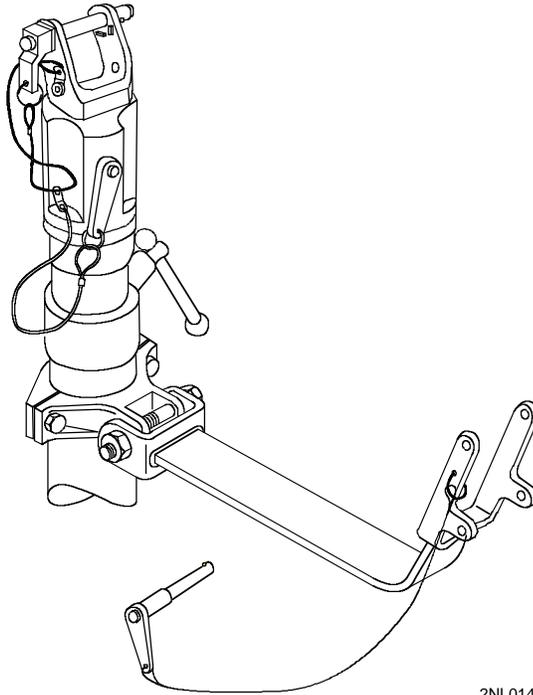
Weight.....	15.00 lb(13.61 kg)
Elevation .....	.622 mil (35 degrees)
Depression.....	.678 mil (38 degrees)
Traverse.....	.6400 mil (360 degrees)

**END OF WORK PACKAGE**

**THEORY OF OPERATION FOR  
M197 MACHINE GUN MOUNT, NSN 1005-01-413-4098, P/N 12956264**

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The M197 machine gun mount includes a pintle adapter assembly and pintle (M240B/M249 only), travel lock bracket assembly, and travel lock assembly. It can be used with the M6 machine gun pedestal or vehicle rings, to mount and secure the M249, M240B or M60 machine guns with the appropriate AAL items.



2NL0144

**END OF WORK PACKAGE**

0065 00-1/2 blank



**TROUBLESHOOTING PROCEDURES FOR  
M197 MACHINE GUN MOUNT, NSN 1005-01-413-4098, P/N 12956264**

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**Table 1. Troubleshooting Procedures for  
M197 Machine Gun Mount****SYMPTOM**

Machine gun mount will not swivel smoothly.

**MALFUNCTION**

Dirt, rust, or paint on pintle or pintle adapter.

**CORRECTIVE ACTION**

Clean and lubricate.

**SYMPTOM**

Pintle will not insert into pintle socket.

**MALFUNCTION**

Dirt, rust, burrs or paint on pintle or pintle socket of pintle adapter.

**CORRECTIVE ACTION**

Clean and lubricate. If damaged, notify unit maintenance.

**SYMPTOM**

Mount will not easily elevate and/or depress.

**MALFUNCTION**

Dirt and/or rust on swivel points of cradle.

**CORRECTIVE ACTION**

Clean and lubricate.

**MALFUNCTION**

Grooved headless straight pin is burred, bent or missing.

**CORRECTIVE ACTION**

Remove burrs. If missing or damaged, notify unit maintenance.

**TROUBLESHOOTING PROCEDURES FOR  
M197 MACHINE GUN MOUNT, NSN 1005-01-413-4098, P/N 12956264 (cont)**

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**Table 1. Troubleshooting Procedures for  
M197 Machine Gun Mount (cont)**

**SYMPTOM**

Quick release pin and/or securing pins bind during installation.

**MALFUNCTION**

Dirt, rust, or paint on pins and/or in pinholes.

**CORRECTIVE ACTION**

Clean and lubricate.

**MALFUNCTION**

Pins are burred, bent and/or broken.

**CORRECTIVE ACTION**

Remove burrs. If bent or broken, notify unit maintenance.

**END OF WORK PACKAGE**

**PREVENTIVE MAINTENANCE CHECKS AND SERVICES FOR  
M197 MACHINE GUN MOUNT, NSN 1005-01-413-4098, P/N 12956264**

**Table 1. Preventive Maintenance Checks and Services for  
M197 Machine Gun Mount**

Item	Interval	Man-Hours	Item to be Checked	Procedures	Not Fully Mission Capable if:
	Before/After		M197 Machine Gun Mount	<p>Check mount for corrosion, dirt and lubrication.</p> <p>Checks pins and cables for bends, breaks and burrs. Ensure they are properly installed. Check for presence of detent ball(s) on quick release pins.</p> <p>Check for loose or missing parts.</p> <p>Check elevation, depression and traverse for smooth operation.</p> <p>Ensure travel lock (quick release pin) prevents rotation of mount when installed.</p>	<p>Mount shows corrosion, is dirty, or is not properly lubricated.</p> <p>Pins and/or cables are bent, burred, missing or are improperly installed. If any detent ball(s) are missing, replace quick release pin.</p> <p>Parts are loose or missing.</p> <p>Elevation, depression or traverse will not move smoothly.</p> <p>Mount rotates with travel lock (quick release pin) installed.</p>

**END OF WORK PACKAGE**



## OPERATOR INSTRUCTIONS FOR M197 MACHINE GUN MOUNT

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### PLACING INTO OPERATION

#### WARNING

Vehicle soft-top must be in place during all weapon-firing operations.

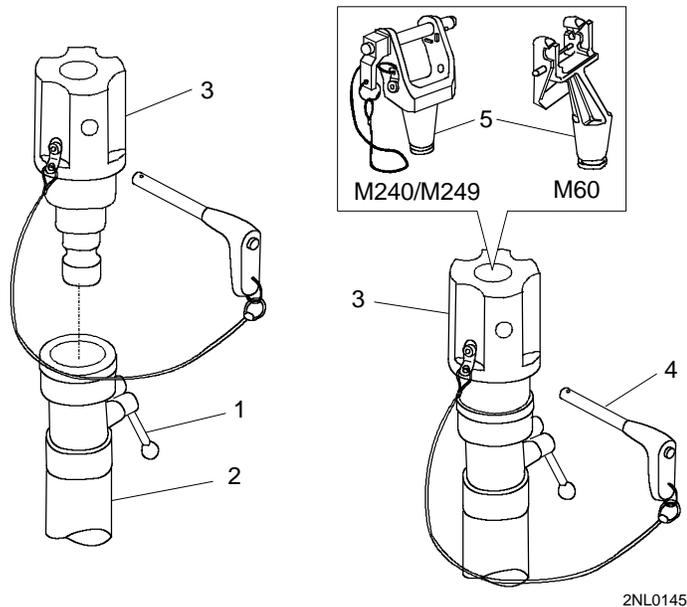
Personnel can expect 5.56mm/7.62mm cartridge cases and links to accumulate in the cargo bed of M998 family of vehicles during weapon-firing operations. This presents a slipping hazard to the weapon operator who will exercise extreme care of personnel riding in the cargo bed to avoid slipping on the spent cartridge cases and links.

### INSTALLATION OF M197 MACHINE GUN MOUNT TO MACHINE GUN PEDESTAL MOUNT

Loosen retaining clamp assembly (1) by turning handle on machine gun pedestal mount (2) counterclockwise.

Install pintle adapter assembly (3) into machine gun pedestal mount (2).

Turn handle of retaining clamp assembly (1) clockwise to lock pintle adapter assembly (3) in place. Pull up on pintle adapter assembly to be sure it is secure.



Remove quick release pin (4) from pintle adapter assembly (3).

Slide pintle mount (5) in pintle adapter assembly (3), and insert quick pin (4).

Twist and pull up on the pintle (5), it should be locked into the pintle adapter assembly (3), but should rotate freely left and right.

**OPERATOR INSTRUCTIONS FOR  
M197 MACHINE GUN MOUNT (cont)**

**PLACING INTO OPERATION (cont)**

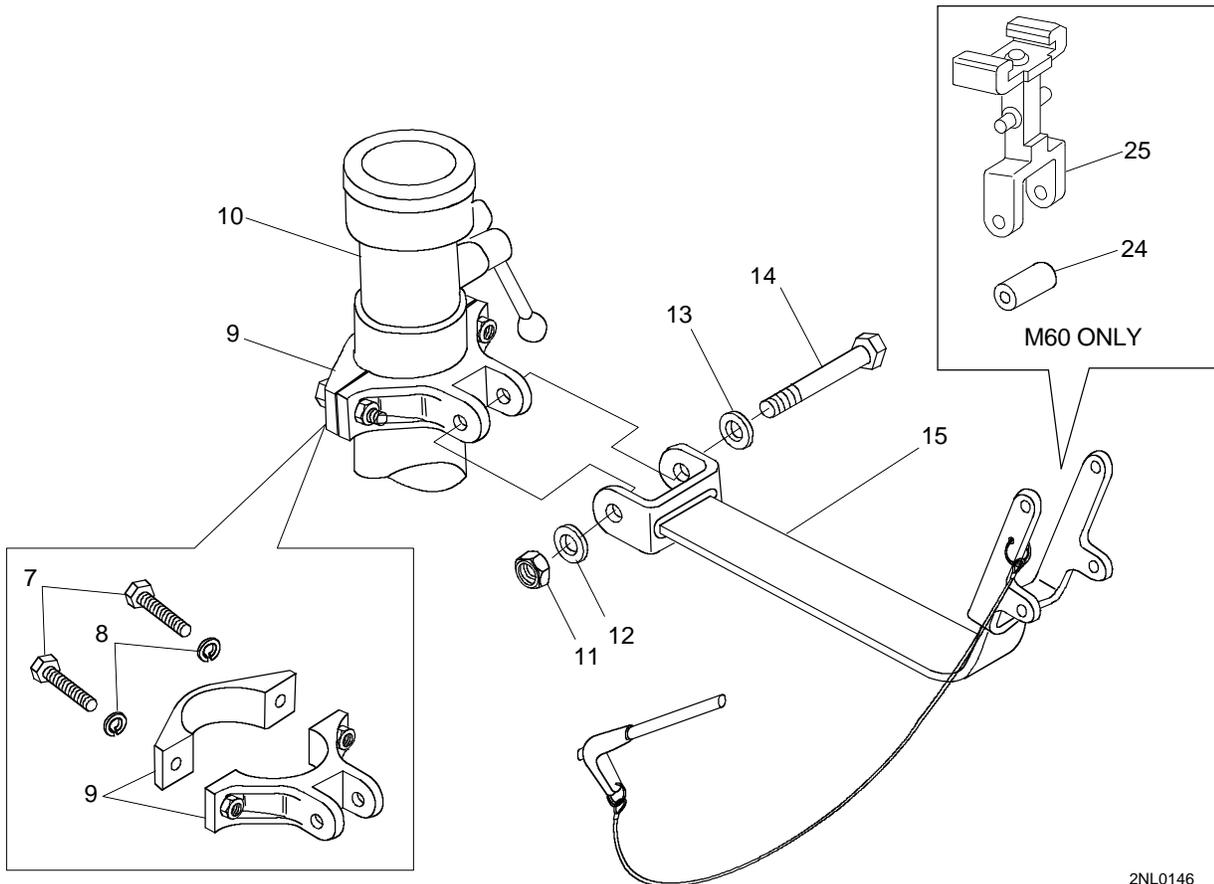
**INSTALLATION OF M197 MACHINE GUN MOUNT TO MACHINE GUN PEDESTAL MOUNT (cont)**

Remove two machine bolts (7) and two lock-washers (18) and separate travel lock bracket assembly (9) into two halves.

Install two halves of travel lock bracket assembly (9) on structural tube (10) with travel lock bracket assembly (11) holes facing the rear of the HMMWV. Secure by installing two lock washers (8) and two machine bolts (7).

Remove self-locking nut (11), two flat washers (12 and 13), and hexagon head cap screw (14) from travel lock bracket (15).

Align mounting holes in travel lock bracket (15) with mounting holes in travel lock bracket assembly (9), and install two flat washers (12 and 13), and hexagon head cap screw (14), and self-locking nut (11). Tighten to secure.



2NL0146

M60 only: Align adapter (25) over outside of travel lock bracket yoke and insert quick release pin through one side of yoke and adapter. Hold the sleeve (24) between travel lock bracket yoke ears; push quick release pin through sleeve and other side of yoke and adapter.

**INSTALLATION OF M197 MACHINE GUN MOUNT TO M1025/M1026/M1114 HMMWV****WARNING**

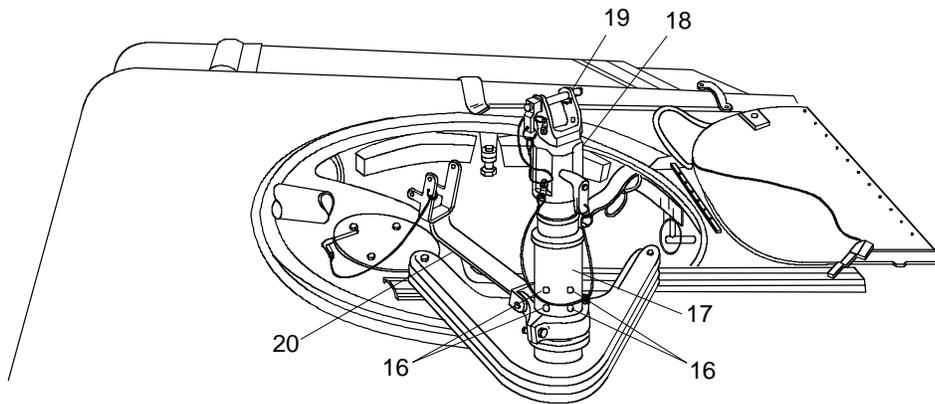
When firing from the M998 and/or M1025 family of vehicles, the pintle (WP 0009 00) will be properly secured to the M197 machine gun mount. When firing from M1025 family of vehicles with the M240B machine gun, the deflector plate will be installed on the ammunition adapter. When not in use the weapon will be secured with the travel lock.

**NOTE**

When used with the M240B machine gun on the M1025/M1026 armament carrier series, install ammo adapter bracket assembly as shown in this work package.

Loosen four setscrews (16) on HMMWV pintle adapter (17).

Install pintle adapter assembly (18) and secure by tightening four setscrews (16), and install applicable mount pintle (19). Attach travel lock bracket (20). Refer to installation procedure for M197 machine gun mount to pedestal mounts in this work package.



2NL0147

**INSTALLATION OF MACHINE GUN****WARNING**

Be sure to clear weapon before installing/removing weapon to mount.

Appropriate eye protection is recommended.

All personnel within 20 meters of a weapon firing shall wear approved single hearing protection devices.

Ground personnel should not be within 10 meters of any vehicle when firing.

Firing on the move is not permitted from the M998 HMMWV (Cargo/Troop Carrier) (M240B only).

Firing on the move is restricted to cross-country and off road speeds no greater than 8 kph (5 mph) and improved road speeds no greater than 16 kph (10 mph). Depending on terrain, possibility exists for weapon operator to lose their balance and fall from the vehicle. Weapon operator shall insure no personnel are in an area 90° left/right of the weapon line-of-fire/firing fan. Target, target surface, angle of fire, and firing distance should be selected to minimize possibility of ricochet back toward personnel.

## OPERATOR INSTRUCTIONS FOR M197 MACHINE GUN MOUNT (cont)

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### WARNING (cont)

Ammunition containers should be removed during stowed transit. Vehicle vibration can cause containers/bandoleers to break/fall into vehicle.

When in stowed position, the M249 will be limited to a cumulative 4830 km (3000) miles or cross-country travel to avoid damage to the weapon. Weapons and mount shall be inspected after every 1000 rounds of firing and every day of driving.

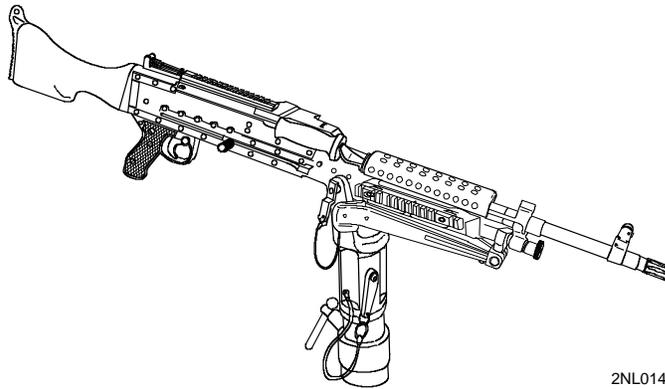
Follow all local range safety procedures.

Procedures are the same except where noted.

### NOTE

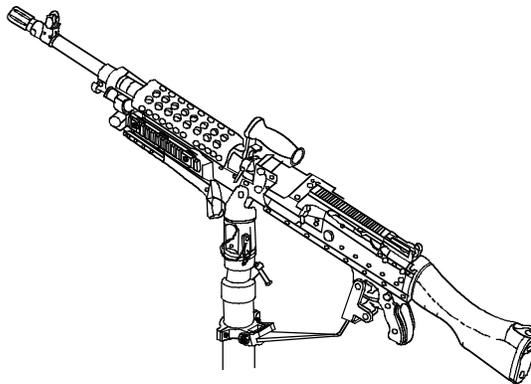
M240B machine gun is shown for illustration purposes only.

Place weapon in pintle, aligning the receivers front mounting points with the holes in the pintle and secure with quick release pin. Make sure quick release pin goes through both sides of yoke.



2NL0148

Install travel lock assembly by aligning the mounting hole in the trigger housing with the holes in the fork of the travel lock assembly and secure with quick release pin.



2NL0149

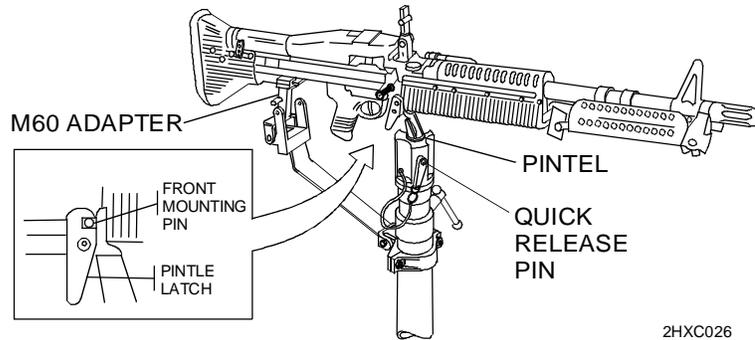
**INSTALLATION OF MACHINE GUN (cont)**

**NOTE**

If the M60 machine gun is to be installed, adapter assembly (item 3, WP 0178 00) must first be installed.

Ensure bipod legs are in the rearward locked position and the M197 pintle latch is rearward.

Press bottom of latch to open the pintle assembly. The ends of the machine gun mounting pin should lock in place on the pintle assembly.

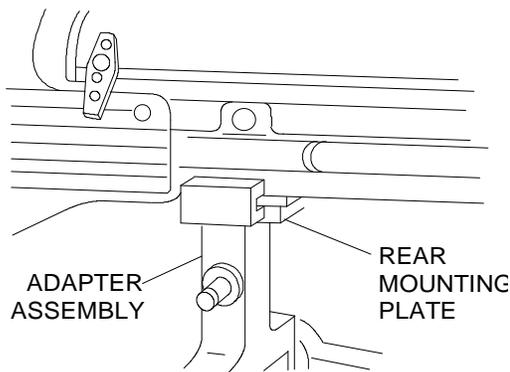


2HXC026

Place the end of the machine gun's front mounting pin on top of the pintle assembly.

Pivot the M60 adapter assembly into the upright position.

Slide the adapter assembly on the machine gun's mounting plate from the rear to the front.



2HXC027

## OPERATOR INSTRUCTIONS FOR M197 MACHINE GUN MOUNT (cont)

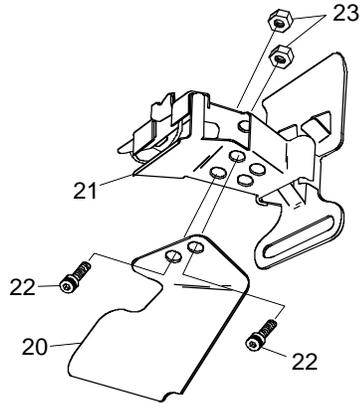
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### AMMO ADAPTER BRACKET AND DEFLECTOR

#### NOTE

Nuts (23) must be held within the ammo bracket assembly (21) and deflector plate (20) weldment while installing cap screws (22) to secure deflector plate (20).

Align holes in deflector plate (20) with holes in ammo adapter bracket (21) and secure using two cap screws (22) and two nuts (23) (WP 0178 00).

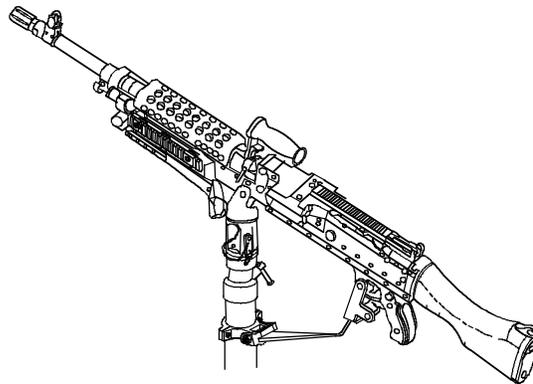


2NL0150

### FREE GUN

After loading and preparing machine gun for firing, loosen the pintle clamping screw to allow pintle adapter to traverse in socket. Remove quick release pin from rear mounting hole of weapon.

If M60 is mounted, slide off adapter assembly. Weapon is now free to rotate 360 degrees if needed. To reengage, align the mounting hole in the trigger housing with the holes in the fork of the travel lock assembly and secure with quick release pin.



2NL0149

**TAKING OUT OF OPERATION****WARNING**

Be sure to clear weapon before installing/removing weapon to mount.

Clear the weapon in accordance with weapons operators TM.

Pull two quick release pins from mount and weapons receiver, and lift weapon from mount.

M60 only: Remove adapter assembly from rear of weapon; release weapon from pintle.

**PREPARATION FOR MOVEMENT****WARNING**

Weapons shall be manned when mounted for operation in moving vehicles, except when travel lock is engaged. If weapon is not manned in a turret, the ring must be locked forward, the travel lock must be attached, and all adjustment screw must be tightened.

Insert travel lock pin and tighten pintle-clamping screw to prevent weapon rotation when vehicle is moving.

**END OF WORK PACKAGE**

0068 00-7/8 blank



## **UNIT MAINTENANCE**



**UNIT MAINTENANCE FOR  
M197 MACHINE GUN MOUNT, NSN 1005-01-413-4098, P/N 12596264**

This task covers: a. Disassembly b. Inspection/Repair c. Adjustment d. Cleaning  
e. Refinishing/Lubrication f. Assembly

**INITIAL SETUP**

**Tools and Special Tools:**

Tool Kit, Small Arms Repairman,  
PN SC 5180-95-B71

**Materials/Parts:**

Cleaner, lubricant and preservative, (CLP),  
(item 3, WP 0179 00)  
Enamel, Olive Green, (item 7, WP 0179 00)  
Enamel, Sand, (item 8, WP 0179 00)

**Materials/Parts (cont):**

Lock-washer (2), P/N MS35338-45  
Lubricant, Solid Film, (item 10, WP 0179 00)  
Rag, Wiping, (item 14, WP 0179 00)  
Self-locking nut (1), P/N MS21044N6  
Solvent, Cleaning, (item 17, WP 0179 00)

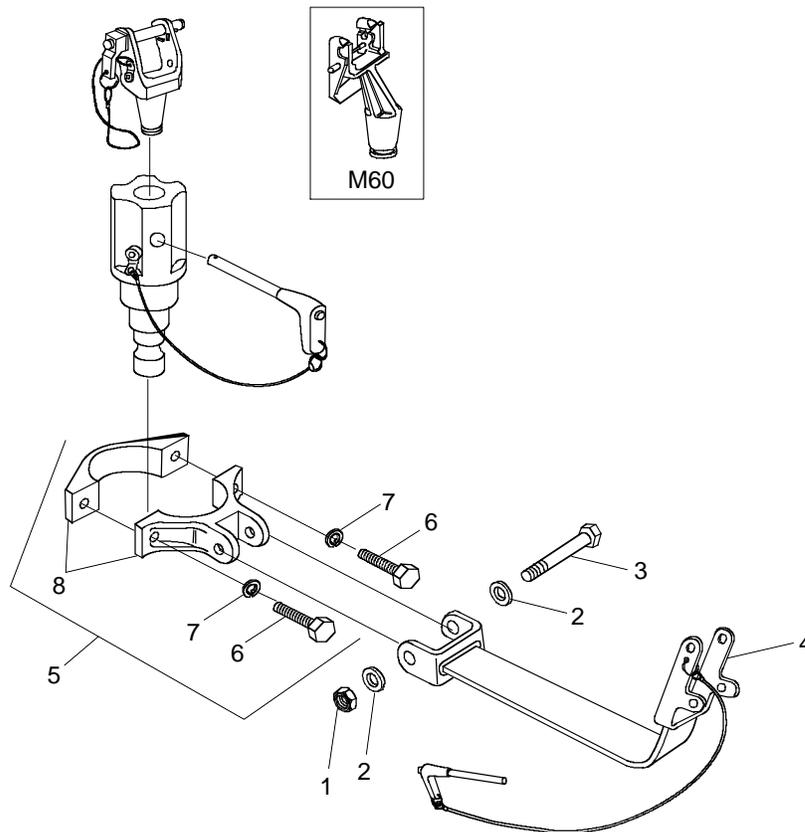
**Equipment Condition:**

Mount removed from vehicle.

**DISASSEMBLY**

Remove self-locking nut (1), flat washers (2), hexagon head cap screw (3), and travel lock bracket (4) from train stow assembly (5). Discard self-locking nut (1).

Remove two machine bolts (6), two lock-washers (7), and separate train stow clamp (8). Discard two lock-washers (7).



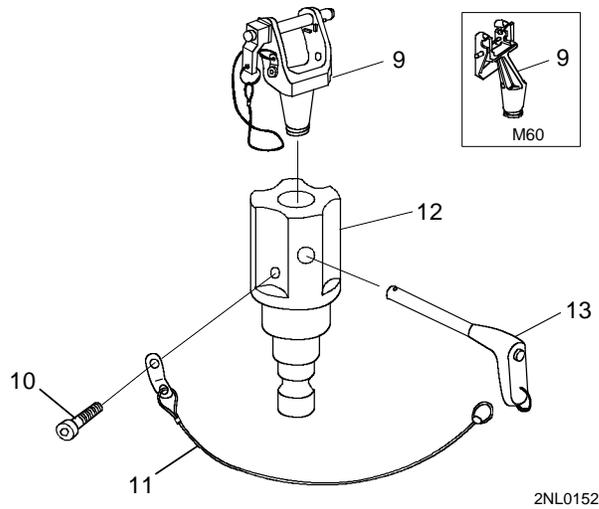
**UNIT MAINTENANCE FOR  
M197 MACHINE GUN MOUNT, NSN 1005-01-413-4098, P/N 12596264 (cont)**

**DISASSEMBLY (cont)**

For disassembly of mount pintle (9) refer to WP 0018 00 (M60 – WP 0017 00).

Remove socket head cap screw (10) and wire rope assembly (11) from pintle adapter (12).

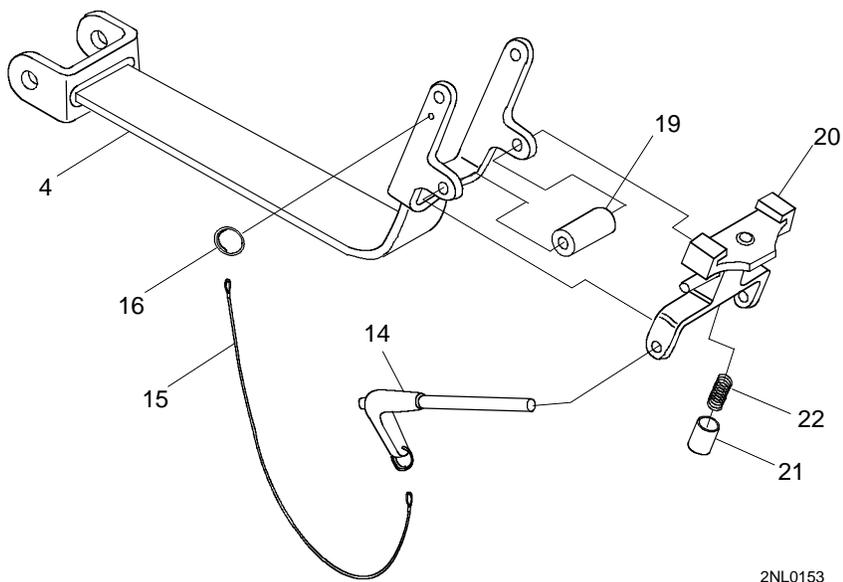
Remove quick release pin (13) from wire rope assembly (11).



Remove quick release pin (14) from cable assembly (15).

Remove retaining ring (16) from travel lock bracket (4).

Separate cable assembly (15) from retaining ring (16).



**NOTE**

The following two steps apply only when mounting an M60 machine gun.

Separate stud plunger (21) and compression helical spring (22) from travel lock adapter assembly (20).

**INSPECTION/REPAIR**

Inspect for broken, damaged, or missing parts.

If train stow clamp is broken or damaged, repair is by replacement of next higher assembly.

If pintle adapter is broken or damaged, repair is by replacement of next higher assembly.

For inspection and repair of pintle refer to WP 0018 00.

For inspection and repair of mount pintle refer to WP 0017 00.

If travel lock is broken, bent or damaged, repair is by replacement of next higher assembly.

Repair is by replacement of authorized parts.

Touch up external bright metal surfaces with olive drab enamel paint.

**CLEANING**

Clean all components with CLP, wipe dry and apply light coat of CLP.

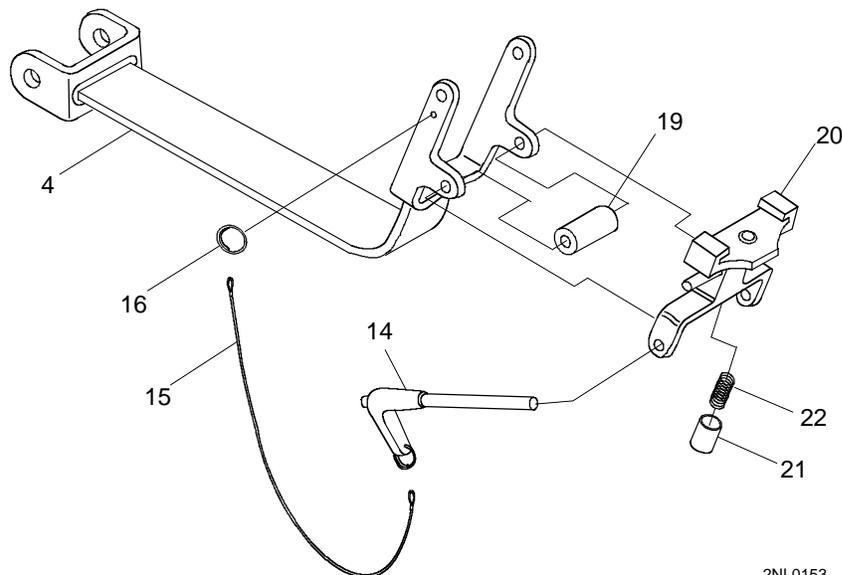
**REFINISHING/LUBRICATION**

Clean area to be refinished with cleaning solvent, wipe dry, and touch-up with enamel paint. Allow to dry per manufacturer's instructions. Apply light coat of CPL.

**ASSEMBLY****NOTE**

The following two steps apply only when mounting an M60 machine gun.

Place compression helical spring (22) into stud plunger (21) and install into travel lock adapter assembly (20).



2NL0153

**UNIT MAINTENANCE FOR  
M197 MACHINE GUN MOUNT, NSN 1005-01-413-4098, P/N 12596264 (cont)**

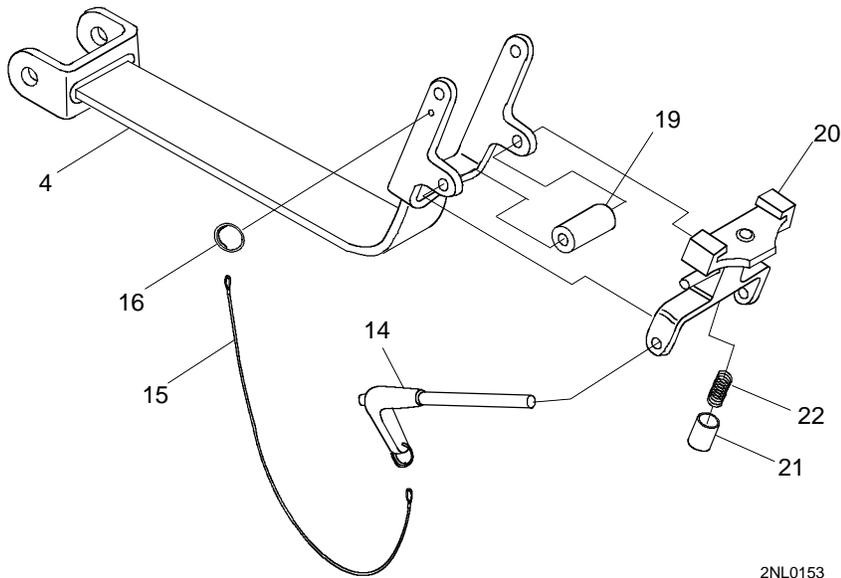
**ASSEMBLY (cont)**

Place sleeve spacer into yoke of travel lock adapter assembly (20) and align over clevis of travel lock bracket (4). Insert quick release pin (14) through sleeve spacer (19), yoke of travel lock adapter assembly (20) and clevis of travel lock bracket (4).

Attach cable assembly (15) to retaining ring (16).

Attach retaining ring (16) to travel lock bracket (4).

Attach quick release pin (14) to cable assembly (15).

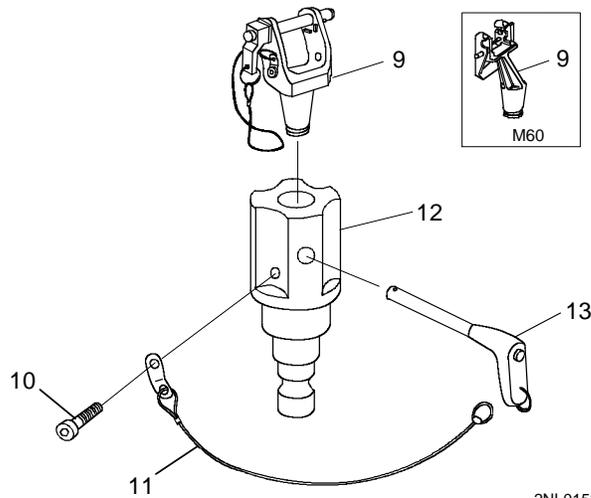


2NL0153

Attach quick release pin (13) to wire rope assembly (11).

Install wire rope assembly (11) on pintle adapter (12) using socket head cap screw (10).

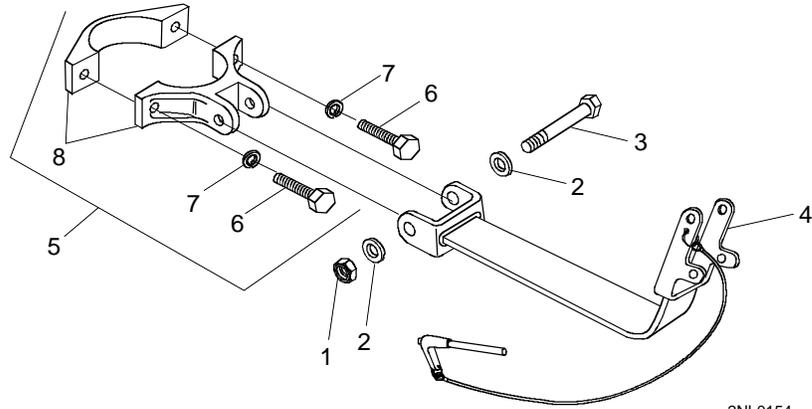
For reassembly of pintle (9) refer to WP 0018 00 (M60 - WP 0017 00).



2NL0152

Assemble train stow clamp (5) using two new lock-washers (7) and two machine bolts (6).

Attach travel lock bracket assembly (4) to train stow clamp (5) using flat washer (2), hexagon head cap screw (3), flat washer (2), and new self-locking nut (1).



END OF WORK PACKAGE



**DIRECT SUPPORT MAINTENANCE**



**DIRECT SUPPORT MAINTENANCE FOR  
M197 MACHINE GUN MOUNT, NSN 1005-01-413-4098, P/N 12596264**

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There are no direct support maintenance requirements for the M197 Machine Gun Mount.

**END OF WORK PACKAGE**

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**CHAPTER 8**  
**MK 64 MACHINE GUN MOUNT**  
**(MOD 5 AND MOD 9)**



**TM 9-1005-245-13&P**

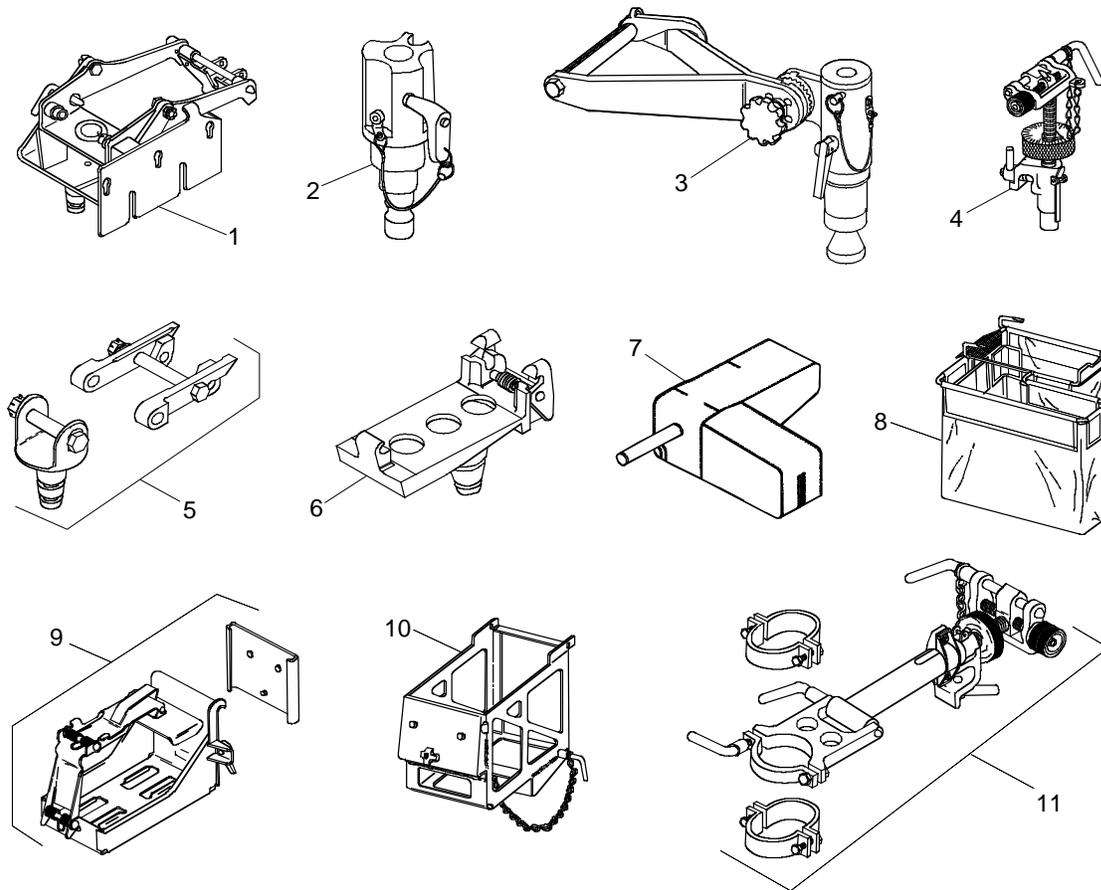
**OPERATOR  
INSTRUCTIONS**

TM 9-1005-245-13&P

**EQUIPMENT DESCRIPTION AND DATA FOR  
 MK64 MACHINE GUN MOUNT, MOD 5, NSN 1010-01-180-9319, P/N 5831467  
 MK64 MACHINE GUN MOUNT, MOD 9, NSN 1010-01-412-3159, P/N 12972474**

**EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES**

Component assembly designed to provide platform for the M2 and M60 machine guns, MK19 Grenade Machine Gun, and ammunition brackets. The modifications are composed of various combinations of major components consisting of a Carriage and Cradle Assembly (1), Pintle Adapter Assembly (2), Universal Pintle Adapter (3), Elevation Mechanism Assembly (4), .50 Caliber Mounting Adapter Assembly (5), Platform Assembly (6), Train Stop Assembly (7), Machine Gun Mount Cover (8), Catch Bag Assembly (9), Travel Lock Bracket Assembly (10), Ammunition Box Mounting Tray Assembly (11), Multipurpose Ammunition Can Bracket Assembly (12), Travel Lock Adapter Assembly (13) and Train and Elevation Assembly (14). Authorized applications are M3 Tripod Mount, M6 Pedestal, M66 Ring Mount, M939 Lightweight HMMWV Ring, MK16 MOD 0 Stand, M113 Personnel Carrier, and M88 Recovery Vehicle.

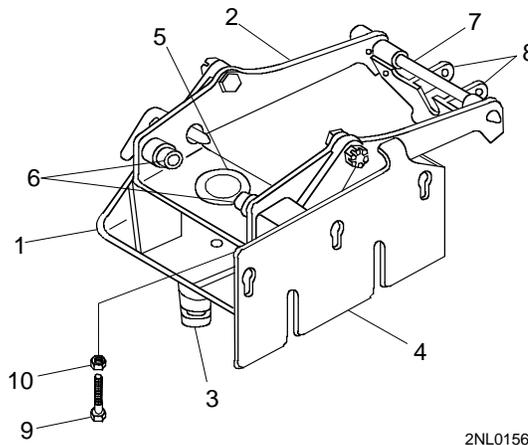


2NL0155

**EQUIPMENT DESCRIPTION AND DATA FOR  
 MK64 MACHINE GUN MOUNT, MOD 5, NSN 1010-01-180-9319, P/N 5831467  
 MK64 MACHINE GUN MOUNT, MOD 9, NSN 1010-01-412-3159, P/N 12972474 (cont)**

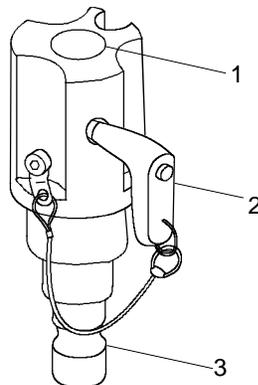
**LOCATION AND DESCRIPTION OF MAJOR COMPONENTS**

**CARRIAGE AND CRADLE ASSEMBLY (1)** - The carriage and cradle assembly provides a mounting platform for machine guns and ammunition brackets. The carriage (1) holds the cradle (2) and attaches to a machine gun tripod or pintle adapter by pintle (3). In the center of the cradle is a .50 caliber and M60/M60E3 pintle bushing (5) and lock to enable mounting of the M2, .50 Cal, and M60, 7.62MM, machine guns with use of AAL adapters. The two forward mounting pins (6) serve as mounting lugs for the front of the MK19 Mod 3 grenade machine gun (GMG). The quick release pin (7) holds the rear of the MK19 MOD 3 GMG in place. The lower rear retaining pinholes (8) receive the T&E retaining pin. Each carriage and cradle assembly is issued with a depression stop that consists of a machine bolt (9) and nut (10) to control muzzle depression.



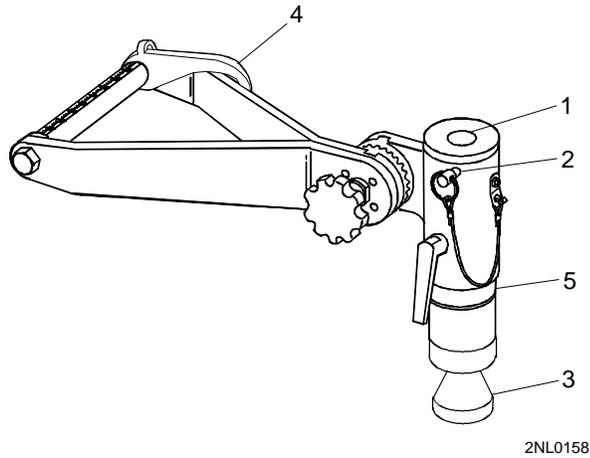
2NL0156

**PINTLE ADAPTER ASSEMBLY (2)** - The pintle adapter assembly allows the cradle assembly to fit on all vehicle machine gun pedestals, stands, or vehicle applications listed in this manual. The hole (1) in the upper end of the pintle adapter is shaped to fit the pintle on the carriage and cradle assembly. The pintle adapter is equipped with a quick release pin (2) to secure the pintle in the adapter. The lower end (3) is shaped to fit the mounting hole in the upper end M6 pedestal, HMMWV ring pedestal, M66 ring mount, or M939 Light weight Ring Mount. The pintle lock of the vehicle pedestal or ring secures it. AAL to MOD 9

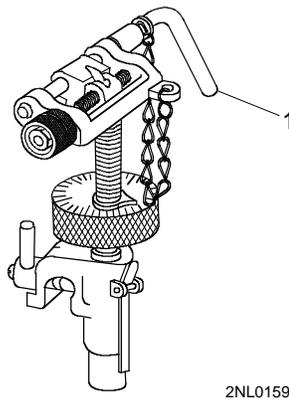


2NL0157

**UNIVERSAL PINTLE ADAPTER (3)** - The universal pintle adapter (UPA) allows the MK64 carriage and cradle assembly to fit on all vehicle machine gun pedestals, stands, or rings listed in this manual. The hole (1) in the upper end of the UPA is shaped to fit the pintle on the carriage and cradle assembly. The UPA is equipped with a pin and cable assembly (2) to secure the pintle in the adapter. The lower end (3) is shaped to fit the mounting hole in the upper end of the M6 pedestal, HMMWV ring pedestal, M66 ring, MK16 MOD 0 stand, M109 Series and FAASV. It is secured by the pintle lock on the vehicle pedestal, ring, or stand.



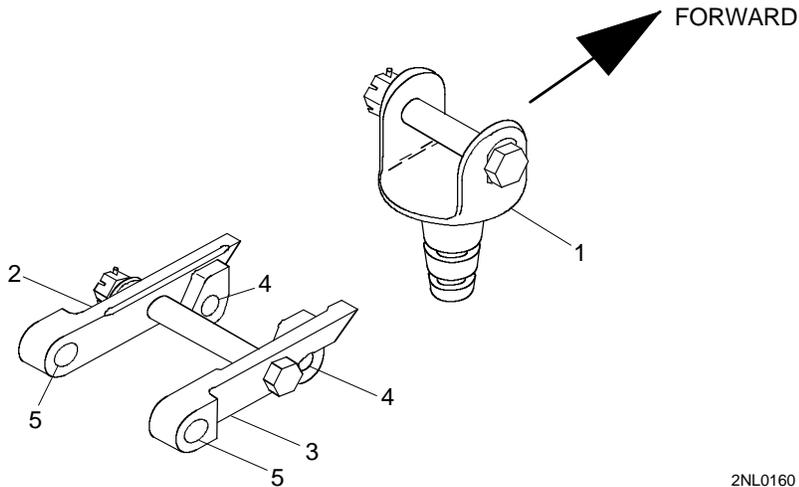
**ELEVATION MECHANISM ASSEMBLY (4)** - The elevation mechanism assembly is used to provide mechanical fire control adjustments. The elevation mechanism assembly is a standard M2, .50 caliber, traversing and elevating mechanism (T&E) that is attached to the lower rear holes in the MK64 carriage and cradle assembly by a handle (1). When used with the UPA, provides a means to apply a travel lock.



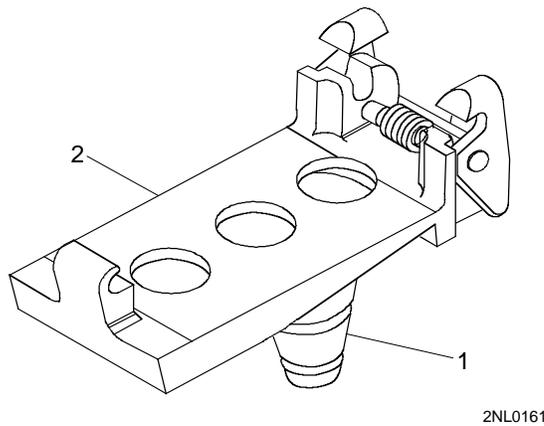
**EQUIPMENT DESCRIPTION AND DATA FOR  
 MK64 MACHINE GUN MOUNT, MOD 5, NSN 1010-01-180-9319, P/N 5831467  
 MK64 MACHINE GUN MOUNT, MOD 9, NSN 1010-01-412-3159, P/N 12972474 (cont)**

**LOCATION AND DESCRIPTION OF MAJOR COMPONENTS (cont)**

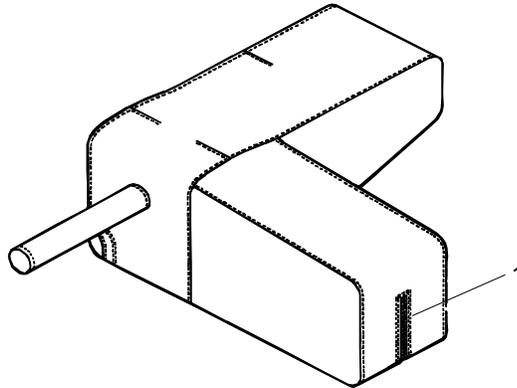
**.50 CALIBER MOUNTING ADAPTER ASSEMBLY (5)** - The .50 caliber mounting adapter assembly allows M2, .50 caliber, machine gun to be fired from the MK64 carriage and cradle assembly. A standard tripod pintle (1) is used as the front adapter. The left and right rear adapters are called the left mount (2) and the right mount (3). The pintle, the left and right mounts and their bolts, nuts, cotter pins, and washer are provided as a unit. After assembly to the machine gun, the tripod pintle (1) is inserted in the pintle bushing of the MK64 cradle. The retaining pin that secures the weapon to the cradle is inserted into the forward holes (4). The rear holes (5) are not used. AAL to MOD 9.



**PLATFORM ASSEMBLY (FOR M60/M60E3) (6)** - The platform assembly allows the M60/M60E3 machine gun to be fired from the MK64 carriage and cradle assembly. A standard M60 platform assembly has been modified by the addition of a welded-on pintle (1). When the platform (2) is installed on the M60/M60E3, the pintle (1) is inserted in the pintle bushing of the MK64 cradle. AAL to MOD 9.



**MACHINE GUN MOUNT COVER (7)** The machine gun mount cover is used to provide weather protection to the MK19 MOD 3 Machine gun and ammunition container. The machine gun mount cover is a rubberized canvas cover that is placed over the MK19 MOD 3 and ammunition container while mounted on a pedestal or stand. It has a zipper fastener (1) for installation and removal. AAL to both MOD 5 and 9.

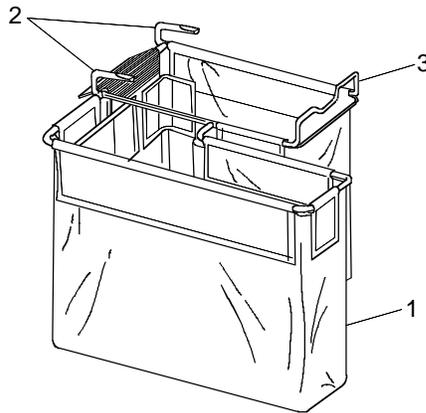


2NL0163

**CATCH BAG ASSEMBLY (8)** - The Catch bag assembly is used to catch empty cartridge cases as they eject from the bottom of the MK19 MOD 3 or M2 machine gun. The catch bag (1) is made of rubberized canvas. It is held in place by a metal frame that attaches to the bottom of the cradle under the machine guns receiver by left and right rear hooks (2) and a front hanger (3). The catch bag assembly should be emptied regularly to prevent possible interference with weapon operation. Component of MOD 9.

**NOTE**

Bag is available in two colors.



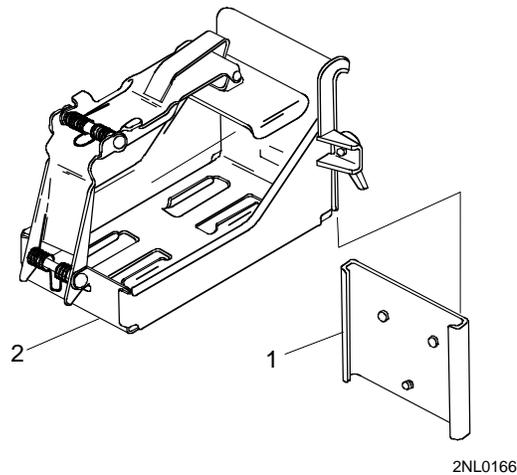
2NL0164

**EQUIPMENT DESCRIPTION AND DATA FOR  
 MK64 MACHINE GUN MOUNT, MOD 5, NSN 1010-01-180-9319, P/N 5831467  
 MK64 MACHINE GUN MOUNT, MOD 9, NSN 1010-01-412-3159, P/N 12972474 (cont)**

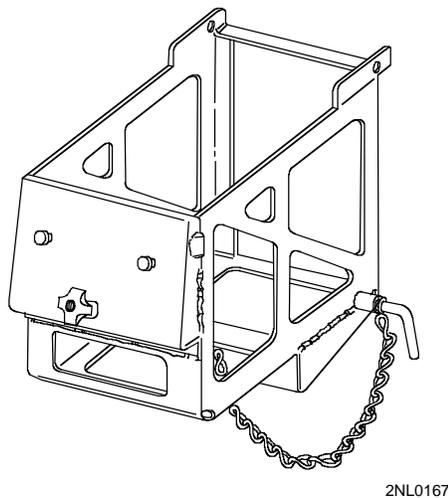
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**LOCATION AND DESCRIPTION OF MAJOR COMPONENTS (cont)**

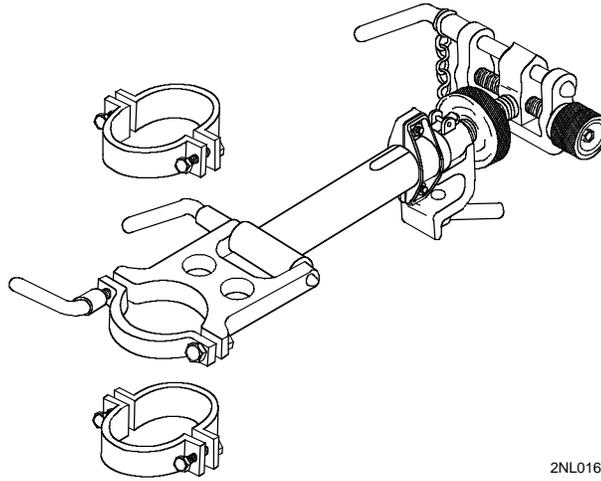
**AMMUNITION BOX MOUNTING TRAY ASSEMBLY (9)** - The ammunition box mounting tray assembly provides a mounting tray for 100 rounds of .50 caliber ammunition in a M2A1 metal can or 200 rounds of 7.62MM ammunition in a M19A1 metal can. The ammunition box mounting tray assembly consists of a standard .50 caliber ammunition tray that has been modified to attach to the side plate of the carriage and cradle assembly by means of a detachable ammunition box bracket assembly (1). The tray (2) will hold either the M2A1 or M19A1 metal ammunition container. AAL to MOD 9.



**MULTIPURPOSE AMMUNITION CAN BRACKET ASSEMBLY (10)** - The multipurpose ammunition can bracket assembly provides a bracket that can carry two different size ammunition cans of 40MM ammunition. Component of MOD 9.



**TRAIN AND ELEVATION ASSEMBLY (11)** – Provides travel lock and mechanical fire control adjustment capability in one unit. Component of MOD 5.



**EQUIPMENT DESCRIPTION AND DATA FOR  
 MK64 MACHINE GUN MOUNT, MOD 5, NSN 1010-01-180-9319, P/N 5831467  
 MK64 MACHINE GUN MOUNT, MOD 9, NSN 1010-01-412-3159, P/N 12972474 (cont)**

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**DIFFERENCES BETWEEN MODELS**

There are 2 different modifications for the MK64 Machine Gun Mount. Each MOD has a specific purpose for a specific branch of the Armed Services. Table 1 shows the different MOD and service user.

**Table 1. MK64 Machine Gun Mount Modification and Service User**

<u>Modification Number</u>	<u>NSN</u>	<u>Part Number</u>	<u>Service</u>
MK64 MOD 5	1010-01-180-9319	5831467	Marine Corps
MK64 MOD 9	1010-01-412-3159	12972474	Army

Table 2 lists the various major components and identifies the applicable modification usages.

**Table 2. Component Part Usage for MK64 Machine Gun Mount Modifications**

<u>Major Component/Part Number</u>	<u>MOD 5</u>	<u>MOD 9</u>
Carriage and Cradle Assembly, P/N 5830052	X	X
Pintle Adapter Assembly, P/N 5830131	X	
Universal Pintle Adapter, P/N 12012061		X
Elevation Mechanism Assembly, P/N 5830128		X
.50 Caliber Mounting Adapter Assembly, P/N 5830097	X	
Platform Assembly, P/N 5831546	X	
Machine Mount Cover, P/N 5830059	X	X
Catch Bag Assembly, P/N 6650759		X
Ammunition Box Mounting Tray Assembly, P/N 5830093	X	
Multipurpose Ammunition Can Bracket Assembly, P/N 12929150	X	X
Train and Elevation Assembly, P/N 5830123	X	

**EQUIPMENT DATA**

The weight of each individual major component is provided below. The total weight of any modification configuration shall be obtained by adding the weights of the components utilized.

Weight:

Carriage and Cradle Assembly.....	21 lbs (9.5 kg)
Pintle Adapter Assembly.....	8.5 lbs (3.86 kg)
Universal Pintle Adapter .....	22 lbs (9.98 kg)
Elevation Mechanism Assembly.....	11.5 lbs (5.22 kg)
.50 Caliber Mounting Adapter Assembly .....	4 lbs (1.81 kg)
Platform Assembly.....	2 lbs (0.91 kg)
Machine Gun Mount Cover.....	3 lbs (1.36 kg)
Catch Bag Assembly .....	1 lb (0.45 kg)
Ammunition Box Mounting Tray Assembly.....	10 lbs (4.54 kg)
Multipurpose Ammunition Can Bracket Assembly .....	27 lbs (12.25 kg)
Train and Elevation Assembly.....	10 lbs (4.54 kg)
Elevation (all MOD's) .....	+5.6 degrees (100 mil)
Depression (all MOD's).....	-14 degrees (250 mil)
Traverse (all MOD's).....	-45 degrees (800 mil)

**END OF WORK PACKAGE**



**THEORY OF OPERATION FOR  
MK64 MACHINE GUN MOUNT, MOD 5, NSN 1010-01-180-9319, P/N 5831467  
MK64 MACHINE GUN MOUNT, MOD 9, NSN 1010-01-412-3159, P/N 12972474**

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The MK 64 Mod 9 provides a means of traversing and elevating an installed weapon through the use of a T&E mechanism attached to the universal pintle adapter (UPA). It has the capabilities of mounting both the MK19 grenade machine gun and M2 machine gun (with AAL adapter and ammunition tray assembly). The MK64 Mod 9 has an integrated pintle for a more stable mounting. The carriage and cradle inserts into either the pintle socket of the UPA or the brass bushing on the head of the M3 tripod. The UPA has a large pintle for mounting into the sockets of pedestal, rings, or vehicle sockets. The MK64 Mod 9 contains a depression stop to restrict the range of fire. The Mod 9 also has a catch bag assembly to keep spent cartridges from dropping into the cab of vehicles. M60 machine gun may be mounted with AAL adapter. MK19 GMG may be protected with AAL cover.



**TROUBLESHOOTING PROCEDURES FOR  
MK64 MACHINE GUN MOUNT, MOD 5, NSN 1010-01-180-9319, P/N 5831467  
MK64 MACHINE GUN MOUNT, MOD 9, NSN 1010-01-412-3159, P/N 12972474**

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There are no troubleshooting procedures for the MK64 Machine Gun Mount.

**END OF WORK PACKAGE**

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**PREVENTIVE MAINTENANCE CHECKS AND SERVICES FOR  
MK64 MACHINE GUN MOUNT, MOD 5, NSN 1010-01-180-9319, P/N 5831467,  
MK64 MACHINE GUN MOUNT, MOD 9, NSN 1010-01-412-3159, P/N 12972474**

**Table 1. Preventive Maintenance Checks and Services for  
MK64 Machine Gun Mount, All Modifications**

Item	Interval	Man-Hours	Item to be Checked	Procedures	Not Fully Mission Capable if:
1	Before/ After		Carriage and Cradle Assembly	<p>Check for missing or damaged quick release pin or retainer pin.</p> <p>Check for missing or damaged chains and S-hooks.</p> <p>Check for missing or damaged cotter pins, nuts, bolts, or screws.</p> <p>Check for missing or damaged mounting plate on cradle and bushing assembly. Ensure key slots are not elongated and plate is not bent.</p> <p>Check for missing or damaged hex nut and depression stop (bolt).</p> <p>Check for loose or binding pintle lock assembly.</p> <p>Check for missing or damaged identification plate; and legibility.</p> <p>Check for missing or damaged bushing and pintle.</p> <p>Ensure all moving parts operate freely.</p> <p>Check for smooth operation (spring action) by raising and lowering release cam.</p>	<p>Quick release pin or retainer pin is missing or damaged.</p> <p>Chains and/or S-hooks are missing or damaged.</p> <p>Hardware is missing and/or damaged.</p> <p>Mounting plate is missing or damaged. Key slots are elongated or plate is bent.</p> <p>Hex nut and depression stop (bolt) are missing or damaged.</p> <p>Pintle lock assembly is loose or binds.</p> <p>Identification plate is missing or damaged or illegible.</p> <p>Bushing and/or pintle are missing or damaged.</p> <p>Parts do not operate freely.</p> <p>Release cam binds or is loose.</p>

**PREVENTIVE MAINTENANCE CHECKS AND SERVICES FOR  
MK64 MACHINE GUN MOUNT, MOD 5, NSN 1010-01-180-9319, P/N 5831467,  
MK64 MACHINE GUN MOUNT, MOD 9, NSN 1010-01-412-3159, P/N 12972474 (cont)**

**Table 1. Preventive Maintenance Checks and Services for  
MK64 Machine Gun Mount, All Modifications (cont)**

Item	Interval	Man-Hours	Item to be Checked	Procedures	Not Fully Mission Capable if:
1 (cont)	Before/ After		Carriage and Cradle Assembly	<p>Check pintle lock assembly for looseness or binding.</p> <p>Check entire mount assembly for rust, shiny surfaces.</p>	<p>Pintle lock assembly is loose or binds.</p> <p>Mount is rusty, has shiny areas or is not properly lubricated.</p>
2	Before/ After		Pintle Adapter Assembly	<p>Check for damaged pintle adapter.</p> <p>Check for missing or inoperable quick release pin, cap screws, and cable assembly.</p> <p>Check entire pintle adapter assembly for rust, shiny surfaces.</p>	<p>Pintle adapter is damaged.</p> <p>Quick release pin, cap screws, and/or cable assembly is damaged or missing.</p> <p>Pintle adapter assembly is rusty, has shiny areas or is not properly lubricated.</p>
3	Before/ After		Universal Pintle Adapter	<p>Check for inoperable or missing traverse arm assembly.</p> <p>Check body for damage.</p> <p>Check for damaged or missing retaining plates.</p> <p>Check for inoperable or missing azimuth indicator.</p> <p>Check for inoperable, damaged or missing thumbscrew, split rings, and manual control handle.</p>	<p>Traverse arm assembly is inoperable or missing.</p> <p>Body is damaged.</p> <p>Retaining plates are damaged or missing.</p> <p>Azimuth indicator is inoperable or missing.</p> <p>Hardware is inoperable, damaged or missing.</p>

4	Before/ After	Elevation Mechanism Assembly	<p>Check for inoperable or missing travel lock.</p> <p>Check entire universal adapter assembly for rust, shiny surfaces.</p> <p>Check lever and swivel chain assembly for damage.</p> <p>Check traverse and elevation knobs and threaded surfaces for smooth operation.</p> <p>Check entire elevation mechanism assembly for rust, shiny surfaces.</p>	<p>Travel lock is inoperable or missing.</p> <p>Universal adapter assembly is rusty, has shiny areas or is not properly lubricated.</p> <p>Lever and/or swivel chain assembly is damage.</p> <p>Traverse and elevation knobs and threaded surfaces do not operate smoothly.</p> <p>Elevation mechanism assembly is rusty, has shiny areas or is not properly lubricated.</p>
5	Before/ After	.50 Caliber Mounting Adapter Assembly	<p>Check for damaged pintle.</p> <p>Check for missing cotter pins, slotted plain nut, flat washers, or machine bolt.</p> <p>Check for damaged or missing drill shank bolt.</p> <p>Check for damaged or cracked right-hand and left-hand mounts.</p> <p>Check entire .50 caliber mounting adapter assembly for rust, shiny surfaces.</p>	<p>Pintle is damaged.</p> <p>Cotter pins, slotted plain nut, flat washers, and/or machine bolt are missing.</p> <p>Drill shank bolt is damaged or missing.</p> <p>Right-hand and/or left-hand mounts are damaged or cracked.</p> <p>.50 Caliber mounting adapter assembly is rusty, has shiny areas or is not properly lubricated.</p>

**PREVENTIVE MAINTENANCE CHECKS AND SERVICES FOR  
MK64 MACHINE GUN MOUNT, MOD 5, NSN 1010-01-180-9319, P/N 5831467,  
MK64 MACHINE GUN MOUNT, MOD 9, NSN 1010-01-412-3159, P/N 12972474 (cont)**

**Table 1. Preventive Maintenance Checks and Services for  
MK64 Machine Gun Mount, All Modifications (cont)**

Item	Interval	Man-Hours	Item to be Checked	Procedures	Not Fully Mission Capable if:
6	Before/ After		Platform Assembly	<p>Check pintle for cracks and/or burrs.</p> <p>Check headed pin for bends and/or breaks.</p> <p>Check helical torsion spring for spring tension.</p> <p>Check latch for burrs, cracks or other damage.</p> <p>Check entire platform assembly for rust, shiny surfaces.</p>	<p>Pintle is burred and/or cracked.</p> <p>Headed is broken or bent.</p> <p>Spring will not retain latch in closed position under spring tension.</p> <p>Platform assembly is rusty, has shiny areas or is not properly lubricated.</p>
7	Before/ After		Machine Gun Mount Cover	<p>Check cover for tears and/or split seams.</p>	<p>Cover is torn or has split seams.</p>
8	Before/ After		Catch Bag Assembly	<p>Check catch bag frame for damage.</p> <p>Check bag for tears and/or split seams.</p>	<p>Catch bag frame is damaged so as to prevent proper installation.</p> <p>Bag is torn or has split seams.</p>
9	Before/ After		Ammunition Box Mounting Tray Assembly	<p>Check for crisp spring action of strap assembly.</p> <p>Check for missing thumbscrew.</p> <p>Check for missing pins; cracks around welded pins.</p> <p>Check for damaged threads on threaded stud.</p> <p>Check bracket and tray assembly for cracks and bent edges.</p>	<p>Spring binds or has weak tension.</p> <p>Thumbscrew is missing.</p> <p>Pins are missing; welded pins show cracks in welds.</p> <p>Stud threads are damaged.</p> <p>Bracket is cracked; edges are bent.</p> <p>is not properly lubricated.</p>

9 (cont)	Before/ After	Ammunition Box Mounting Tray Assembly (cont)	<p>Check for missing cotter pins.</p> <p>Check entire ammunition box mounting tray assembly for rust, shiny surfaces.</p>	Cotter pins are missing.
10	Before/ After	Multipurpose Ammunition Can Bracket Assembly	<p>Check for damaged or missing knob.</p> <p>Check for damaged or missing welded pins or threaded nut.</p> <p>Check weldment bracket for damage and cracked or broken welds.</p> <p>Check for damaged or missing headed shoulder pin and chain assembly.</p> <p>Check entire multipurpose ammunition can bracket assembly for rust, shiny surfaces.</p>	<p>Ammunition box mounting tray assembly is rusty, has shiny areas or Knob is missing or damaged.</p> <p>Welded pins or threaded nut are damaged or missing.</p> <p>Weldment bracket is damaged or has cracked or broken welds.</p> <p>Headed shoulder pin and/or chain assembly is broken or missing.</p> <p>Multipurpose ammunition can bracket assembly is rusty, has shiny areas or is not properly lubricated.</p>
11	Before/ After	Train and Elevation Assembly	<p>Check for broken or missing screws, washers, or nuts.</p> <p>Check handle for breaks.</p> <p>Check for broken or missing chain.</p> <p>Check assembly for rust, shiny surfaces.</p>	<p>Screws, washers, or nuts are missing/broken.</p> <p>Handle is broken.</p> <p>Chain is missing or broken.</p> <p>Assembly has rust or shiny surfaces.</p>

END OF WORK PACKAGE



**OPERATING AND INSTALLATION INSTRUCTIONS FOR  
MK64 MACHINE GUN MOUNT**

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The following work packages cover procedures for placing the MK64 machine gun mount and its components into operation in various applications. Refer to the specific work package for your mount.

<b>MOUNT</b>	<b>Work Package/Page</b>
Depression Stop .....	WP 0085 00
HMMWV Armament Carrier's Ring using UPA .....	WP 0077 00
M109/PALADIN/FAASV Self-Propelled Artillery .....	WP 0078 00
M113 (Family) Personnel Carrier Mount.....	WP 0080 00
M3 Machine Gun Tripod .....	WP 0084 00
M6 Pedestal/M7 Pedestal .....	WP 0082 00
M66 Ring .....	WP 0083 00
M88 Recovery Vehicle .....	WP 0081 00
M939 Lightweight Ring .....	WP 0077 00/ WP 0083 00
MK64 Catch Bag Assembly.....	WP 0086 00
Multipurpose Ammunition Can Bracket Assembly.....	WP 0088 00
Train Stop.....	WP 0077 00
Universal Pintle Adapter (UPA) .....	WP 0076 00
Up-Armored HMMWV Ring Mount .....	WP 0079 00
.50/7.62 Caliber Ammunition Box Mounting Tray Assembly.....	WP 0087 00



**OPERATOR INSTRUCTIONS AND INSTALLATION OF  
MK 64 MACHINE GUN MOUNT, MOD 9, NSN 1010-01-412-3159**

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Components used for this installation are:  
Carriage and Cradle Assembly, P/N 5830052  
T&E Assembly, P/N 5830128  
Universal Pintle Adapter, P/N 12012061

Equipment Condition:  
UPA mounted on tripod, pedestal or stand.

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**WARNING**

WARNINGS apply to entire work package.

If it is necessary to disassemble the carriage from the cradle, reassemble exactly as shown in WP 0089 00. Reversing the relative positions of the carriage from the cradle will prevent proper elevation of the assembly, creating serious hazard when firing high explosive ammunition.

All personnel within 310 meters of impact area must wear a helmet and body armor. All personnel within 20 meters shall also wear eye protection and single hearing protection. Sleeves shall be rolled down and gloves worn.

Use the depression stop on the carriage and cradle assembly to prevent accidental muzzle depression.

Weapons shall be manned when mounted for operation in moving vehicles, except when travel lock is engaged. If weapon is not manned in a turret, the ring must be locked forward, the travel lock must be attached, and all adjustment screw must be tightened.

Catch bag must be used when firing from a vehicle ring to prevent injury to driver/passengers.

Empty catch bag frequently during firing. If bag becomes too full, spent cases can jam the weapon causing stoppage or out-of-battery firing.

Install soft-top when firing MK 19. Visually inspect AET collar bolts. (M998T vehicle only)

M2 machine gun, MK 19 GMG and M558 ammunition containers require a two-man lift.

Firing the MK 19 GMG over open hatches is prohibited. Keep weapon pointed in a safe direction. Never stand in front of muzzle. Be sure line-of-fire is clear of objects.

The pedestal should be kept low in height adjustment (one hole exposed) when firing the MK 19 GMG. Stoppages can occur in the higher positions, especially in cold temperatures. Movement of the pedestal during recoil interferes with the recoil action of the MK 19. The M2 has also shown this problem in cold temperatures.

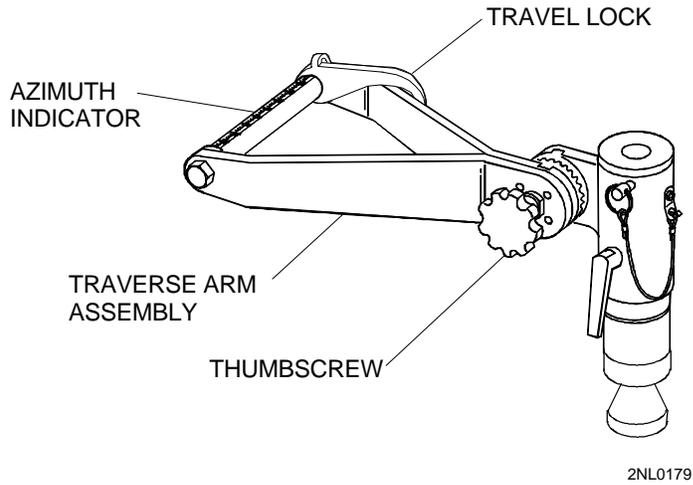
The depression stop (plain hexagon nut and hexagon head machine bolt) must be in place when firing the MK 19 GMG. If the depression stop are not installed the weapon can be depressed below the safety limit of 200 meters elevation, thus endangering personnel.

**OPERATOR INSTRUCTIONS AND INSTALLATION OF  
MK 64 MACHINE GUN MOUNT, MOD 9, NSN 1010-01-412-3159 (cont)**

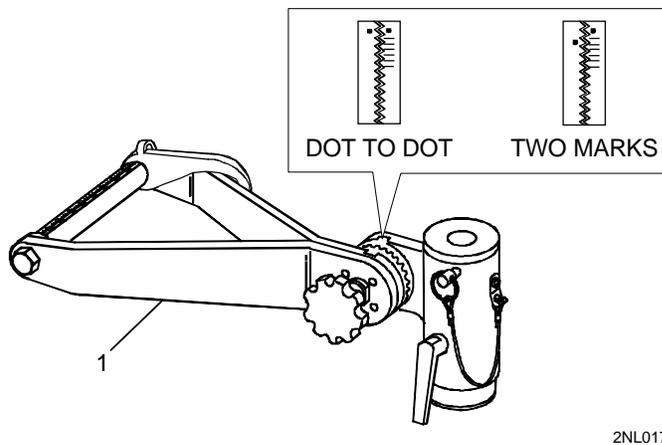
**PLACING INTO OPERATION**

**NOTE**

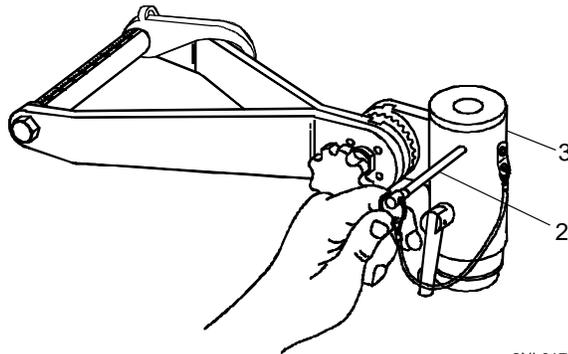
UPA shown in a normal stowed position.



Loosen thumbscrew and, rotate traverse arm assembly (1) upward two marks above normal "dot to dot" stowed position.

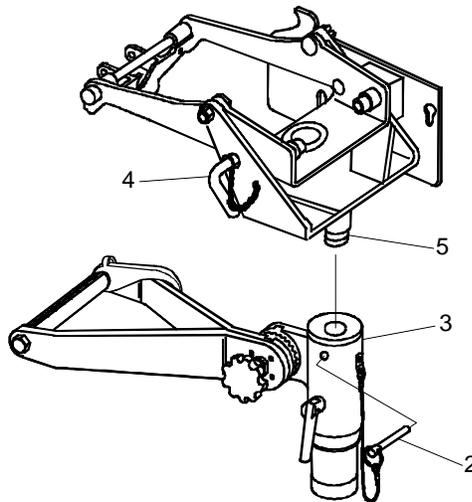


Remove quick release pin (2) from UPA (3).



2NL0172

Insert the front retainer pin (4) to prevent movement of the carriage and cradle. Insert carriage pintle (5) into top of the UPA (3). Insert the quick release pin (2) into UPA (3). Pull upward and twist carriage and cradle assembly. It should be locked into the UPA, but should traverse freely left and right.

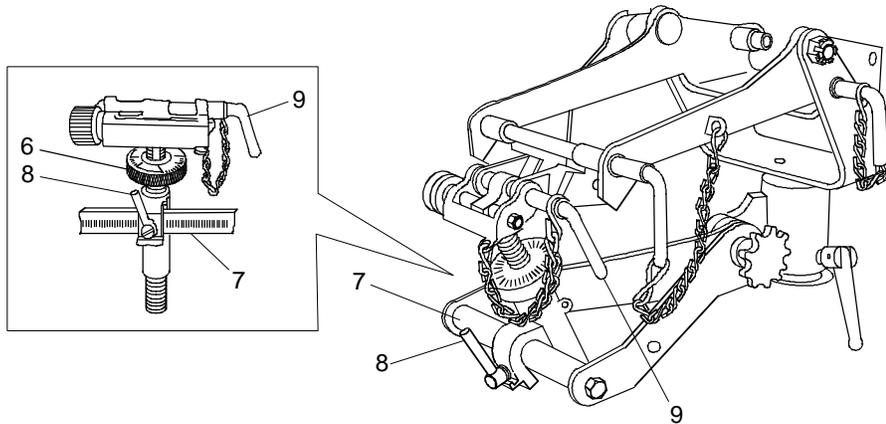


2NL0173

**OPERATOR INSTRUCTIONS AND INSTALLATION OF  
MK 64 MACHINE GUN MOUNT, MOD 9, NSN 1010-01-412-3159 (cont)**

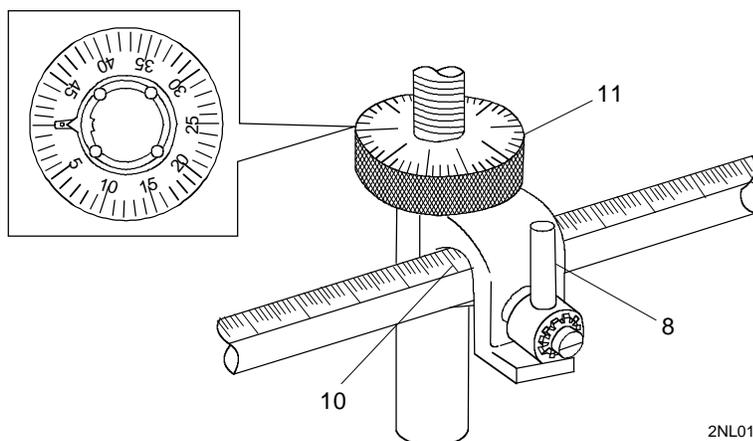
**PLACING INTO OPERATION (cont)**

Rotate elevating hand-wheel (6) of T&E mechanism assembly until T&E is near the fully compressed (short) length (no more than 5 threads showing). Place T&E on left side of azimuth indicator (7) and loosely clamp with traversing slide lock lever (8). Pin T&E to cradle with handle (9).



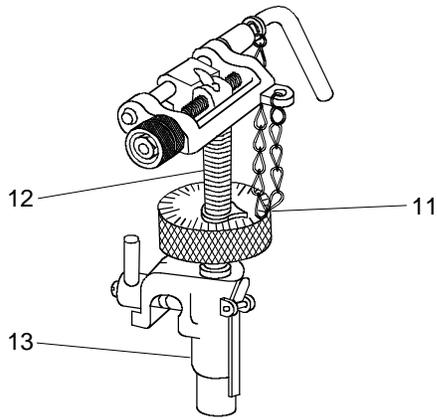
2NL0175

When the T&E is locked to the azimuth indicator the traversing hand-wheel should be centered. To make changes in direction (right or left), loosen the traversing lock lever (8) and move the sleeve along the azimuth indicator (10). The T&E will traverse 250-mils left or right from the zero index (right or left) up to 400-mils. Readings are taken off the azimuth indicator from the left side of the traversing sleeve. To make changes of 25-mils or less (right or left) turn the traversing hand wheel (11), the head will appear to move along the traverse screw, moving the weapon right or left. Each click of the traversing hand wheel (11) is 1-mil deflection. The traverse screw has 50-mils total traverse.



2NL0176

The T&E elevation portion consists of the upper (12) and lower (13) elevating screw and elevating hand-wheel (11). The upper screw has a scale that is graduated in 50-mil increments ( $\pm$  200-mils). The hand-wheel has a dial scale that is graduated in 5-mil increments (50-mil total). Each click of the hand-wheel indicates 1-mil of elevation or depression. Turn the hand-wheel clockwise to depress and counterclockwise to elevate.



2NL0177

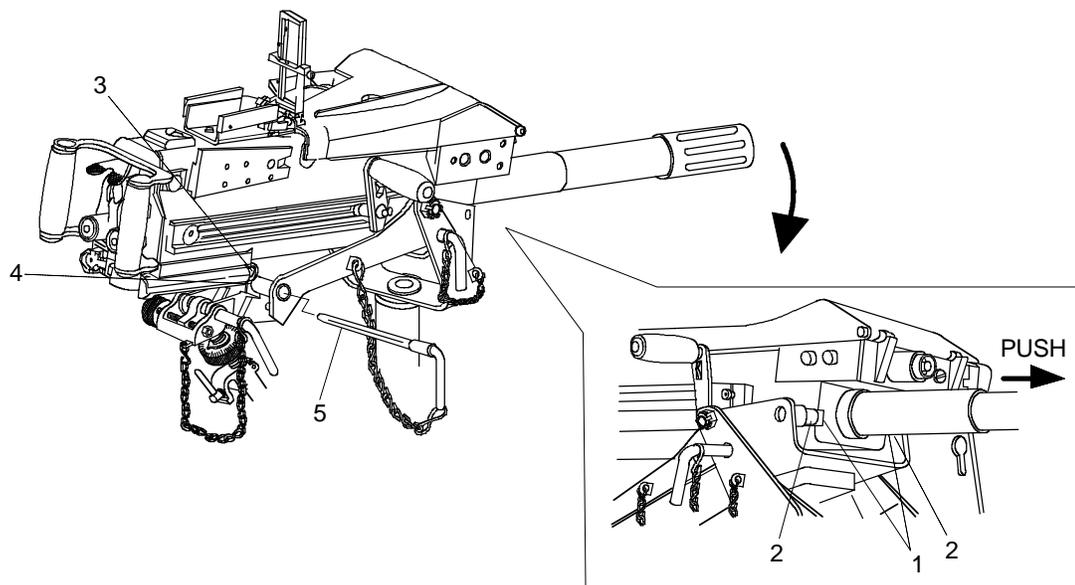
**INSTALLATION OF MK19 GMG TO CARRIAGE AND CRADLE ASSEMBLY**

**WARNING**

M2 machine gun or the MK19 GMG require a two-man lift.

Hoist the weapon onto the carriage and cradle assembly. Lower the muzzle slightly below horizontal.

Align the receiver's two locking channels (1) with the two forward self-locking screws (2) on the carriage and cradle assembly. Push the weapon forward, and slide the self-locking screws (2) into the locking channels (1).



2NL0243

## OPERATOR INSTRUCTIONS AND INSTALLATION OF MK 64 MACHINE GUN MOUNT, MOD 9, NSN 1010-01-412-3159 (cont)

### PLACING INTO OPERATION (cont)

#### INSTALLATION OF MK19 GMG TO CARRIAGE AND CRADLE ASSEMBLY (cont)

Align holes in the weapon's rear assembly (7) with the upper rear holes (8) in the carriage and cradle assembly.

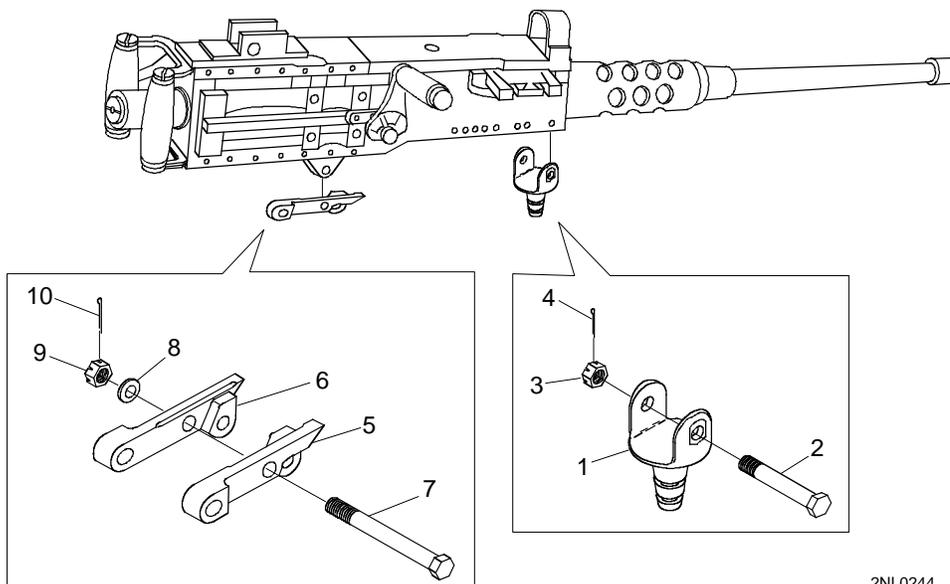
Insert the carriage and cradle assembly's rear quick release pin (5) and rotate the handle downward to the locked position.

#### INSTALLATION OF M2 MACHINE GUN TO CARRIAGE AND CRADLE ASSEMBLY

The .50 caliber mounting adapter must be attached to the M2 machine gun to enable it to be mounted to the carriage and cradle assembly.

The adapter assembly consists of:

- Tripod pintle (1) with hex head machine bolt (2), hex slotted plain nut (3), and cotter pin (4).
- Left hand (LH) adapter (5) and right hand (RH) adapter (6).
- Drill shank bolt (7), flat washer (8) hex slotted plain nut (9), and cotter pin (10).



2NL0244

#### NOTE

The LH and RH adapters have three sets of holes. When mounted, the rear holes are not used.

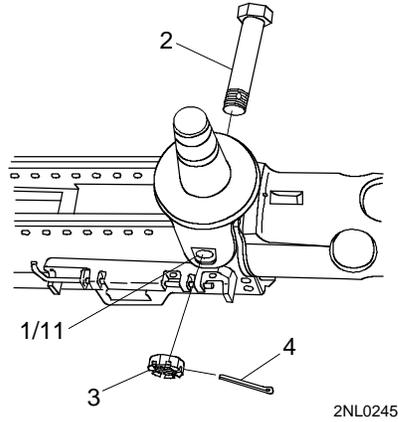
**INSTALLATION OF M2 MACHINE GUN TO CARRIAGE AND CRADLE ASSEMBLY (cont)**

Lay the weapon upside down and align holes in the pintle (1) with the holes in the weapon (11).

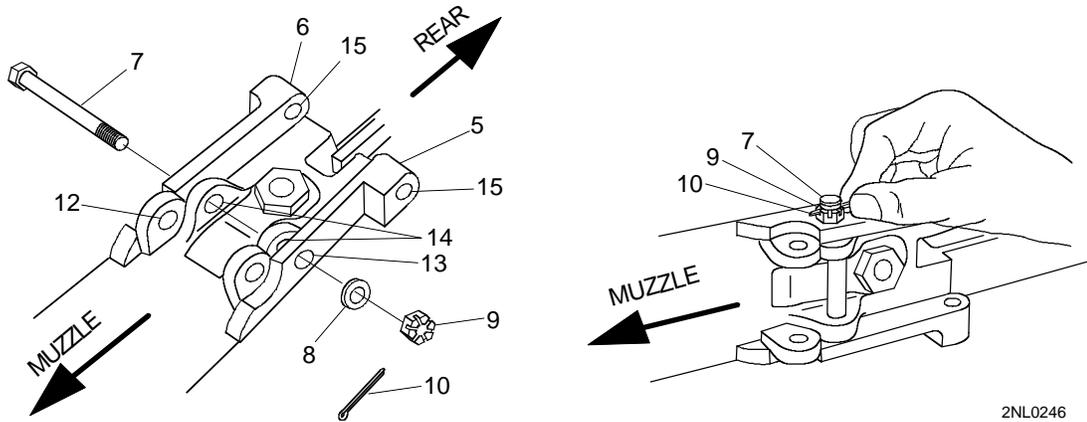
Insert machine bolt (2) from left to right as shown.

Install slotted plain nut (3) on machine bolt (2), and tighten using two wrenches.

Insert cotter pin (4) through slotted plain nut (3). Spread legs of cotter pin (4) and bend around slotted plain nut (3).



With hole (12) away from muzzle, line up hole (13) with receiver mounting hole (14). Do this for both LH (5) and RH (5) adapters.



## OPERATOR INSTRUCTIONS AND INSTALLATION OF MK 64 MACHINE GUN MOUNT, MOD 9, NSN 1010-01-412-3159 (cont)

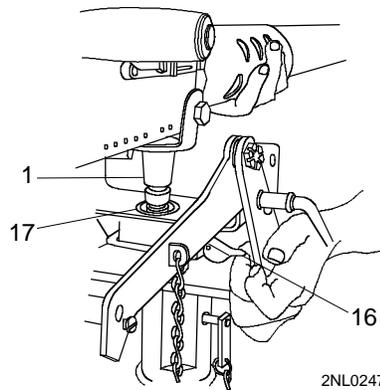
### PLACING INTO OPERATION (cont)

#### NOTE

One person may install the M2 machine gun by standing behind the carriage and cradle assembly and grasping the weapon by the barrel and control grips. The weapon is then lowered into the cradle.

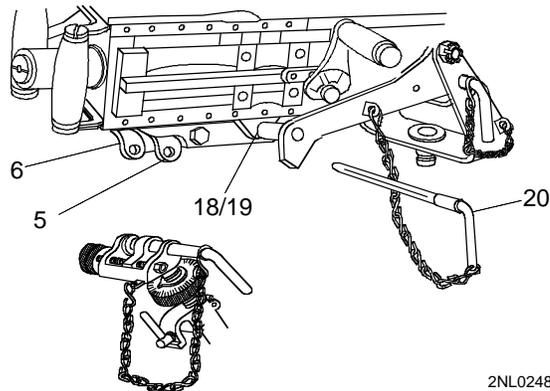
Reach under cradle and pull up on release cam (16).

With help of an assistant hoist the weapon onto the cradle. Lower the pintle (1) into the cradle's pintle bushing (17), lower release cam (16).



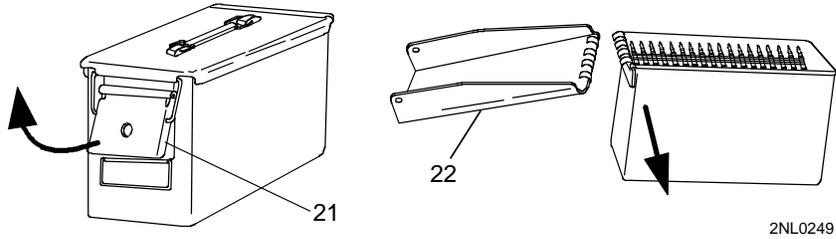
Align front adapter holes (18) with the cradle's quick release pinholes (19).

Insert quick release pin (20) and rotate handle downward to the locked position.



**PLACING AMMUNITION CAN IN AMMUNITION BOX MOUNTING TRAY ASSEMBLY**

Pull up on bail (21). Lift lid (22) and slide off the can.

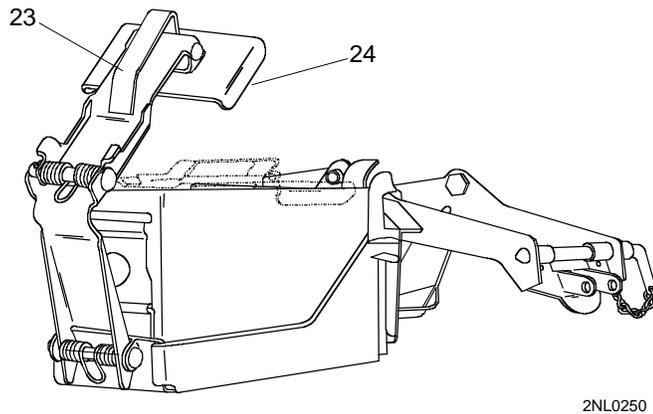


Pull back on the spring loaded top pressure strap (23) and insert ammunition can into the tray with the projectiles toward the gun's muzzle.

Release the pressure strap (23); the pad (24) will span the width of the can, holding it in place.

**NOTE**

Weapon has been removed for clarity.



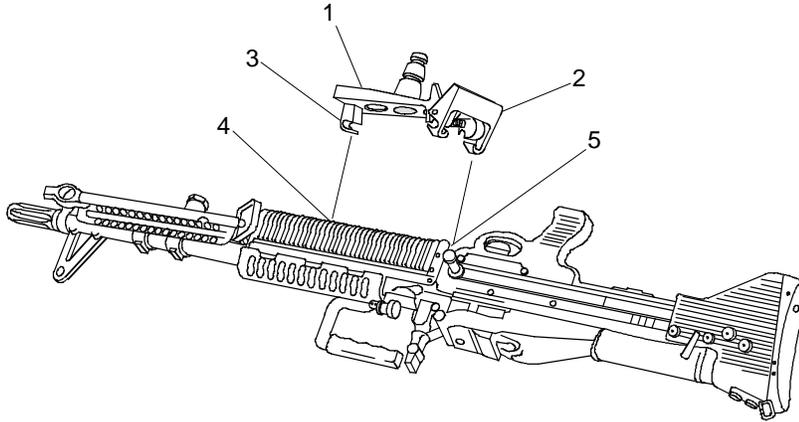
## OPERATOR INSTRUCTIONS AND INSTALLATION OF MK 64 MACHINE GUN MOUNT, MOD 9, NSN 1010-01-412-3159 (cont)

### INSTALLATION OF M60 MACHINE GUN TO CARRIAGE AND CRADLE ASSEMBLY

Place machine gun (1) upside down; turn platform assembly upside down with platform latch (2) facing butt end of weapon and front mounting lug (3) facing the muzzle.

Insert front mounting lug (3) into the mounting hole (4) of the weapon's forearm assembly.

Hold platform latch (2) in the open position and attach the to receiver lugs (5); release latch (2).



2NL0260

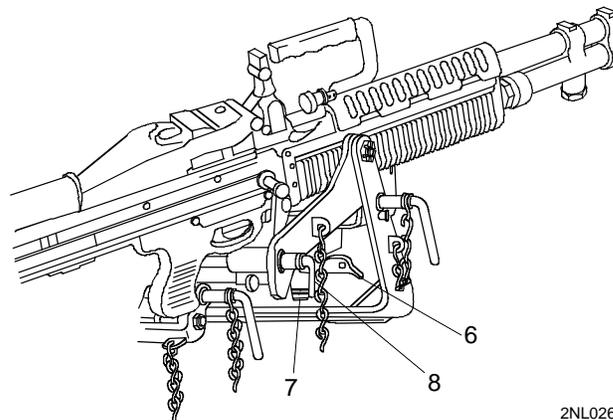
Reach under cradle and pull up on release cam (6).

Place weapon with platform installed over the cradle so pintle (7) enters the cradle pintle bushing.

Push release cam (6) down to secure pintle (7) in the cradle.

#### NOTE

Keep rear retaining pin (8) inserted through mount to prevent interference during firing.



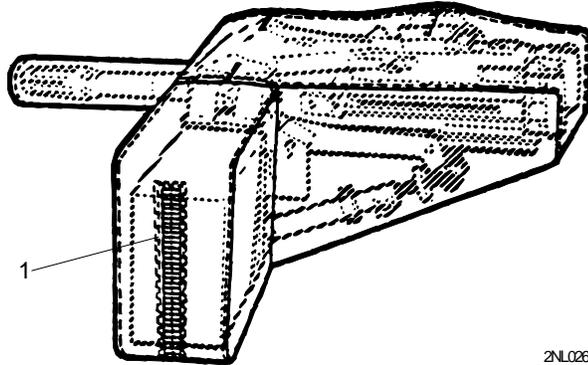
2NL0261

#### NOTE

Placing ammunition can in ammunition box mounting tray is the same as stated for the M2 machine gun in this work package.

### INSTALLATION OF MACHINE GUN COVER

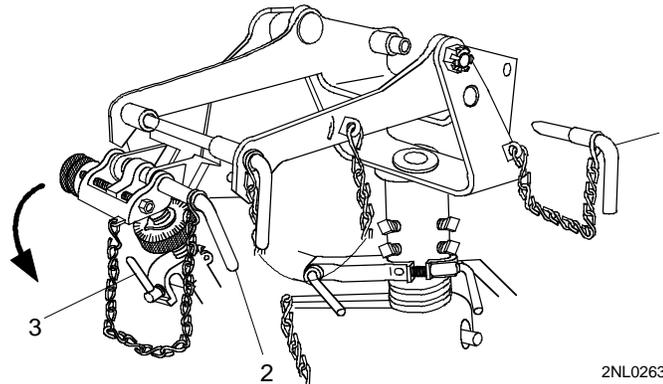
Unzip the zipper (1) on the cover; pull cover over barrel. Ammunition can, and rear of MK19 GMG. Zip the zipper (1) to secure.



2NL0262

### FREE GUN

Remove handle (1), and quick release pin (2). Loosen traversing slide lock lever (2) and rotate T&E assembly downward. The gun is now free to travel 360°, if needed.



2NL0263

### TAKING OUT OF OPERATION

Clear the weapon in accordance with weapons operators TM. Remove weapon in reverse of installation procedures.

**OPERATOR INSTRUCTIONS AND INSTALLATION OF  
MK 64 MACHINE GUN MOUNT, MOD 9, NSN 1010-01-412-3159 (cont)**

**PREPARATION FOR MOVEMENT**

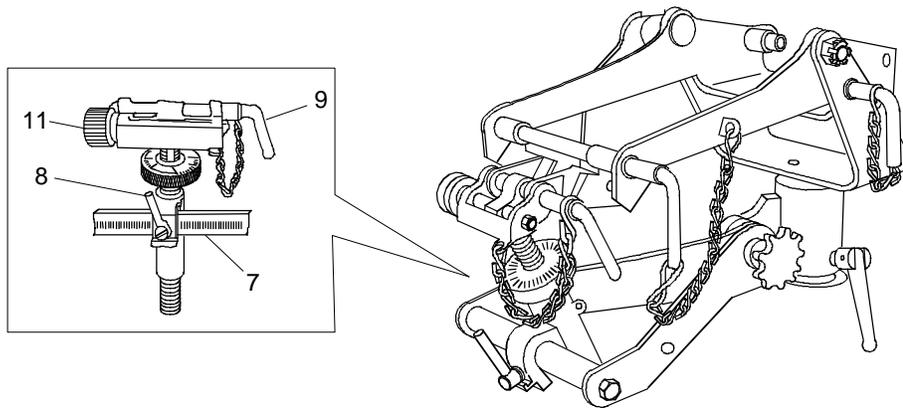
**WARNING**

Weapon shall not be loaded during movement unless manned by the gunner, or as directed by commanding officer/NCO.

**NOTE**

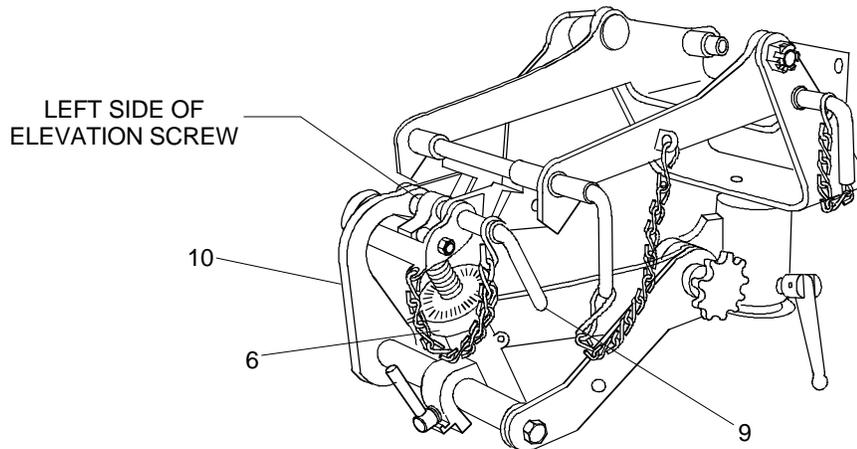
Weapon removed for clarity.

Center traversing adjustment of T&E using traversing hand-wheel (11). Pull the handle (9) halfway out and loosen traversing slide lock lever (8) on T&E. Slide T&E to the left side of azimuth indicator (7).



2NL0265

Swing the travel lock (10) up so the small hole end is near left side of elevation screw. Adjust the elevating hand wheel (6) until the travel lock can enter gap with holes aligned, and push handle (9) completely through the travel lock and T&E yoke.

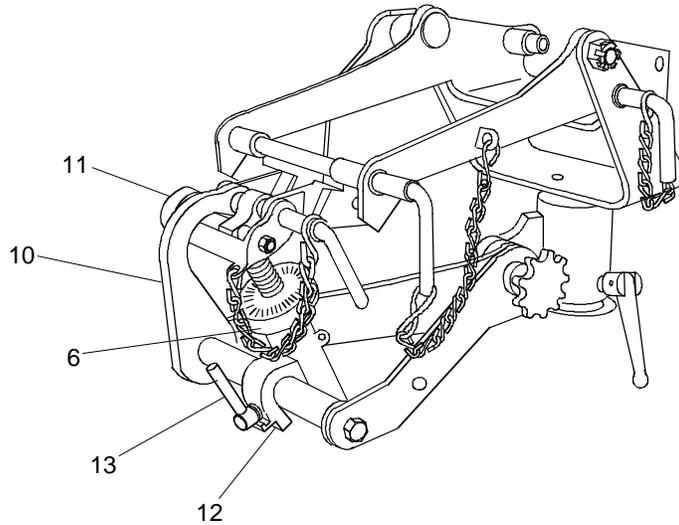


2NL0178

**CAUTION**

The purpose of turning the elevating hand-wheel counterclockwise to raise the elevation mechanism off the azimuth indicator is so the weight (load) of the gun and carriage and cradle assembly is on the travel lock instead of the T&E. This prevents damage to the adjustment threads of the T&E.

Loosen traversing slide lock lever (13). Rotate traversing hand-wheel (11) on elevation mechanism assembly counterclockwise (completely to the left) until T&E clamps travel lock securely. Turn elevating hand-wheel (6) of the T&E counterclockwise until elevating sleeve (12) rises from the azimuth indicator about 1/4 inch (0.635 cm).



2NL0179

**END OF WORK PACKAGE**

0076 00-13/14 blank



**OPERATOR INSTRUCTIONS AND INSTALLATION OF  
HMMWV ARMAMENT CARRIER'S RING AND  
M939 LIGHTWEIGHT RING**

Components used for this installation are:

Carriage and Cradle Assembly, P/N 5830052

Train and Elevation Assembly, P/N 5830109

T&E Assembly, P/N 5830128

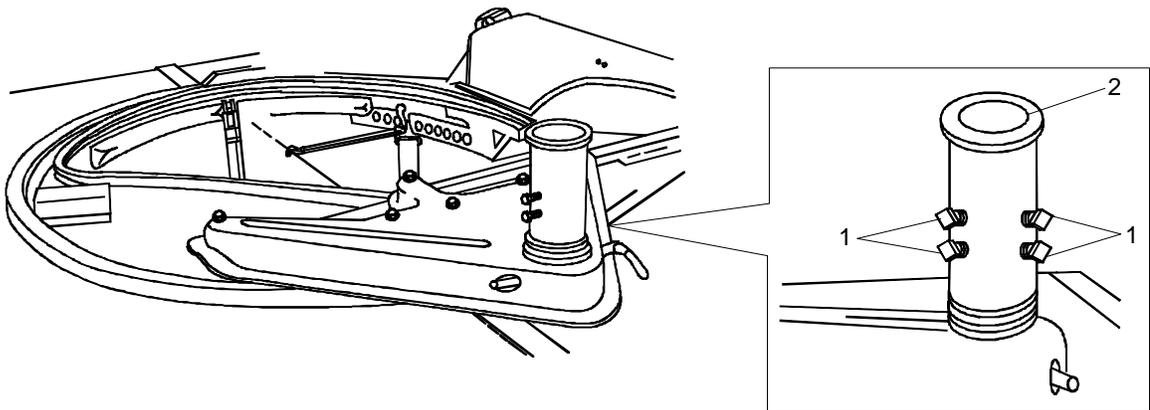
Universal Pintle Adapter, P/N 12012061

**NOTE**

Only the HMMWV Armament Ring is shown for illustration purposes. Mounting procedures for the M939 LWRM are the same.

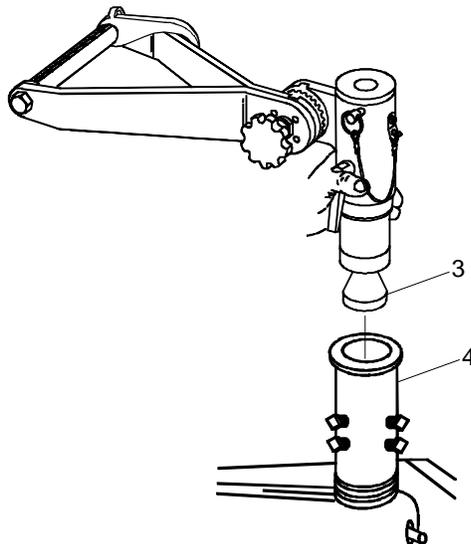
**PLACING INTO OPERATION**

Using a 3/8-inch open-end box wrench, loosen the four lock screws (1) by turning counterclockwise until threaded ends are flush with HMMWV pedestal's inner wall (2).



2NL0180

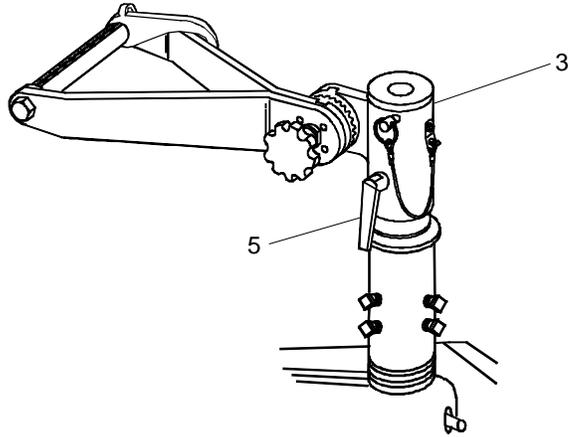
Insert UPA (3) into HMMWV pedestal (4).



2NL0181

**OPERATOR INSTRUCTIONS AND INSTALLATION OF  
HMMWV ARMAMENT CARRIER'S RING AND  
M939 LIGHTWEIGHT RING MOUNT (LWRM) (cont)**

Tighten manual control handle (5). Pull upward on the UPA (3) to ensure it is secured in place.



2NL0182

**WARNING**

Catch bag shall be installed when mounted on a vehicle to prevent spent casings from entering cab area.

**NOTE**

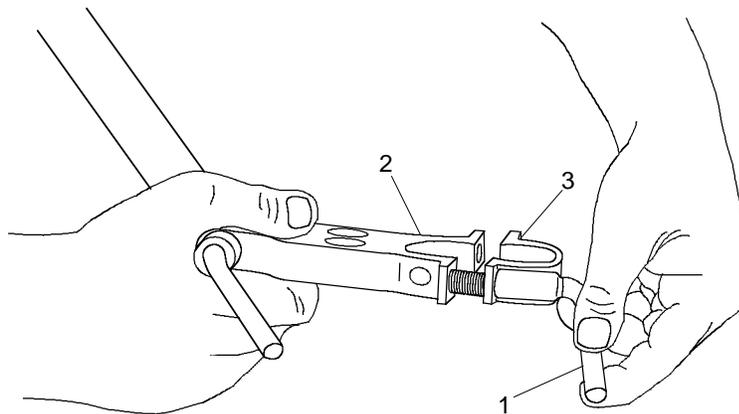
Refer to WP 0076 00 for installation of carriage and cradle assembly, T&E assembly, and travel lock adjustment.

Refer to WP 0076 00 for Free Gun, Taking Out of Operation, and Preparation for Movement procedures.

**TRAIN AND ELEVATION ASSEMBLY (MARINE CORPS ONLY)**

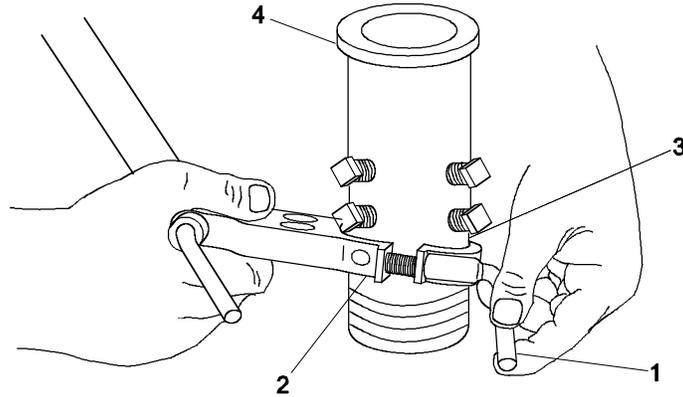
Unscrew train lock handle (1) counterclockwise until free from other side of clamp (2).

Unscrew screw (3) until it is free from clamp (2).



2NL0183

Place clamp (2) to HMMWV pedestal (4). Align both sides of clamp (2) and screw in train lock handle (1) and screw (3). Equally tighten screw (3) and handle (1) until snug.



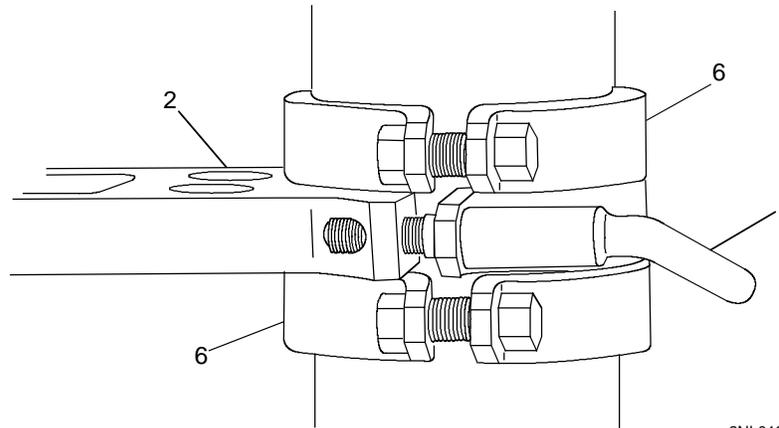
2NL0184

Using two wrenches, fasten one set of clamps (5) below the already installed middle clamp (2). Tighten each screw two turns until snug.

Install other set of clamps (6) above the middle clamp (2). Tighten each screw two turns until snug.

**NOTE**

To allow free left/right traverse of MK64 carriage and cradle assembly, loosen train lock handle (1); to lock into place tighten train lock handle (1).



2NL0185

**OPERATOR INSTRUCTIONS AND INSTALLATION OF  
HMMWV ARMAMENT CARRIER'S RING AND  
M939 LIGHTWEIGHT RING MOUNT (LWRM) (cont)**

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Loosen retaining screws (7), and insert carriage and cradle assembly into pintle socket. Tighten retaining screws (7) and pull up on carriage and cradle assembly to ensure it is locked.

Pull out front stow pin (8) to allow cradle to move.

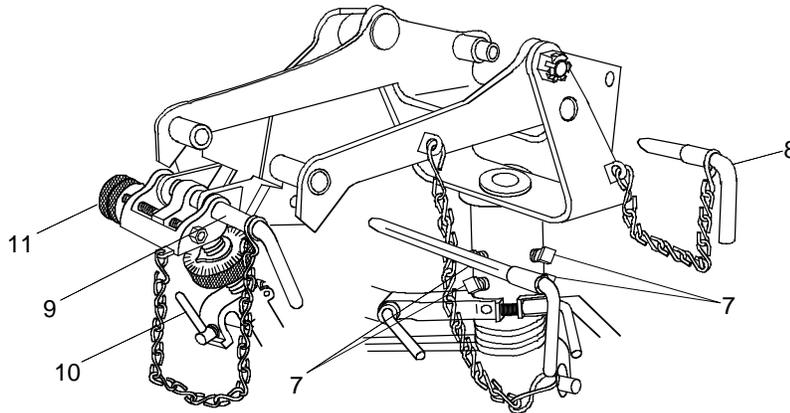
Pull out T&E retaining pin (9); ensure hand-wheel is set at 250 mils.

**NOTE**

Ensure elevating hand-wheel is not jammed under lip of cradle.

Position lock lever (10) to rear and ensure traverse knob (11) is to the left.

Insert retaining pin (9), and turn to locked position.



2NL0186

**END OF WORK PACKAGE**

**OPERATOR INSTRUCTIONS AND INSTALLATION OF  
M109/PALADIN/FAASV SELF-PROPELLED ARTILLERY**

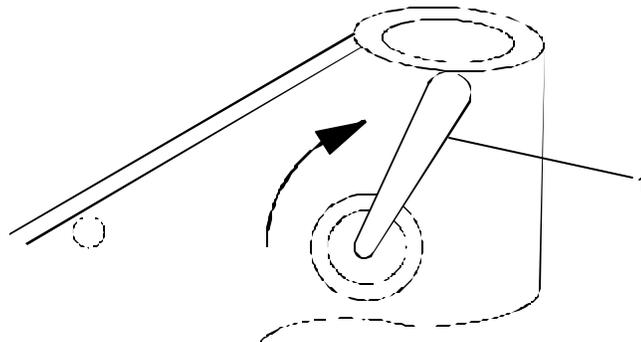
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Components used for this installation are:  
 Carriage and Cradle Assembly, P/N 5830052  
 T&E Assembly, P/N 5830128  
 Universal Pintle Adapter, P/N 12012061

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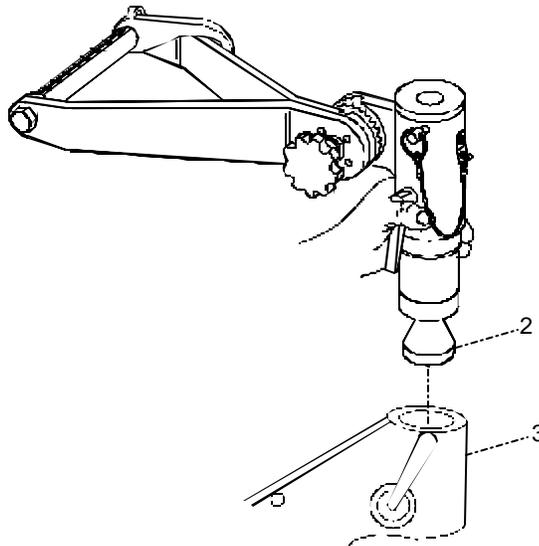
**PLACING INTO OPERATION**

Rotate pintle lock handle (1) clockwise.



2NL0187

Insert UPA (2) into top of yoke assembly (3).

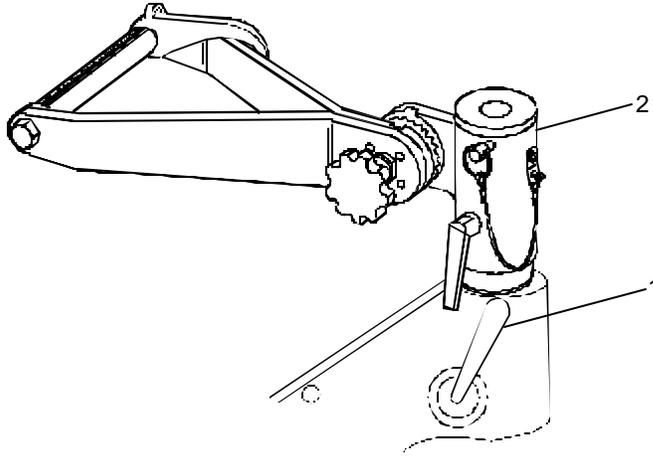


2NL0188

**OPERATOR INSTRUCTIONS AND INSTALLATION OF  
M109/PALADIN/FAASV SELF-PROPELLED ARTILLERY (cont)**

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Rotate pintle lock handle (1) counterclockwise to secure the UPA (2). Pull up on UPA (2) to ensure it locked securely into place.



2NL0189

**NOTE**

Refer to WP 0076 00 for installation of carriage and cradle assembly, T&E assembly, and travel lock adjustment.

Refer to WP 0076 00 for Free Gun, Taking Out of Operation, and Preparation for Movement procedures.

**END OF WORK PACKAGE**

**OPERATOR INSTRUCTIONS AND INSTALLATION OF  
UP-ARMORED RING MOUNT**

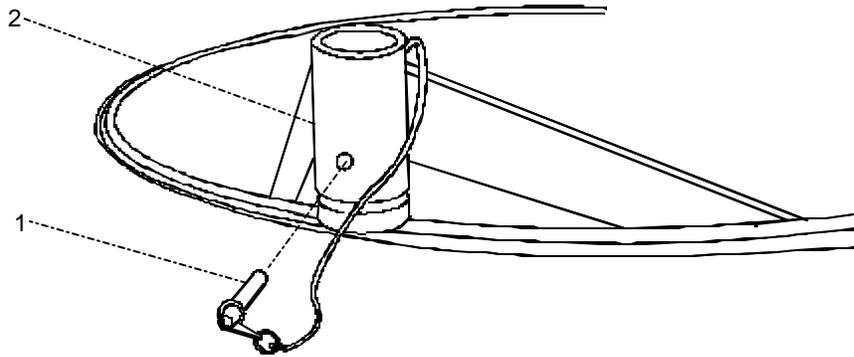
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Components used for this installation are:  
 Carriage and Cradle Assembly, P/N 5830052  
 T&E Assembly, P/N 5830128  
 Universal Pintle Adapter, P/N 12012061

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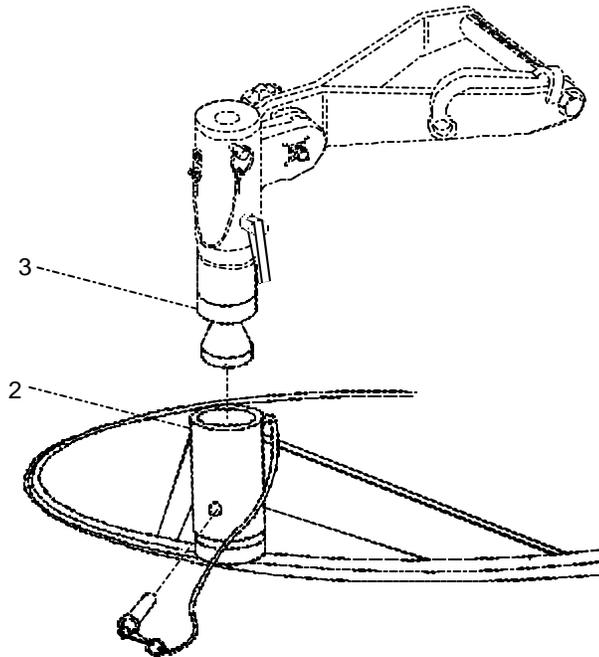
**PLACING INTO OPERATION**

Remove quick release pin (1) from ring socket (2).



2NL0190

Insert UPA (3) into ring socket (2).

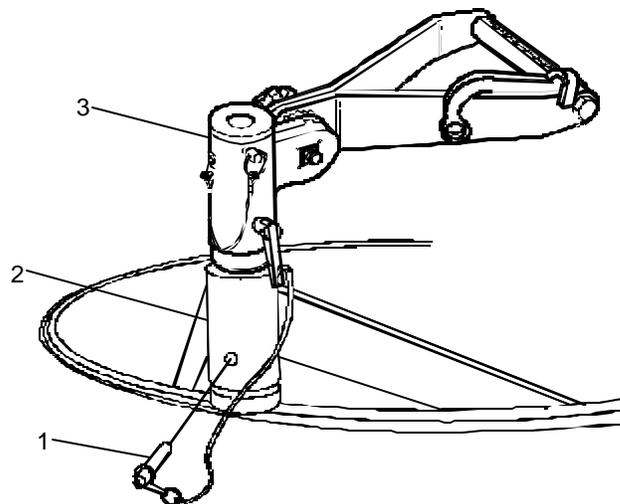


2NL0191

**OPERATOR INSTRUCTIONS AND INSTALLATION OF  
UP-ARMORED RING MOUNT (cont))**

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Insert quick release pin (1) into ring socket (2) to secure UPA (3).



2NLO192

**NOTE**

Refer to WP 0076 00 for installation of carriage and cradle assembly, T&E assembly, and travel lock adjustment.

Refer to WP 0076 00 for Free Gun, Taking Out of Operation, and Preparation for Movement procedures.

**END OF WORK PACKAGE**

**OPERATOR INSTRUCTIONS AND INSTALLATION OF  
M113 (FAMILY) PERSONNEL CARRIER MOUNT**

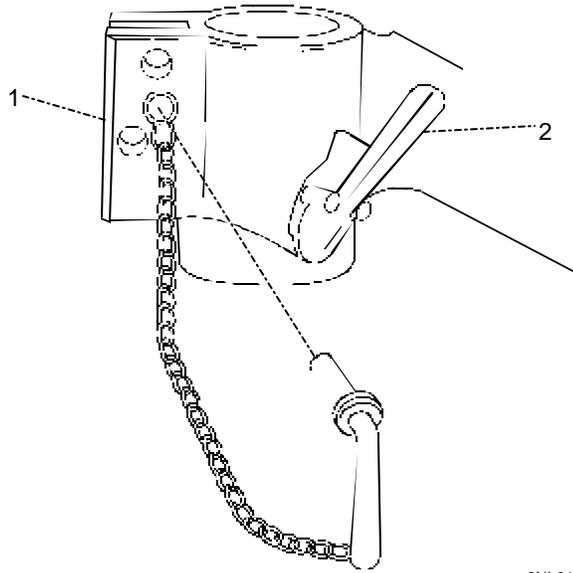
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Components used for this installation are:  
Carriage and Cradle Assembly, P/N 5830052  
T&E Assembly, P/N 5830128  
Universal Pintle Adapter, P/N 12012061

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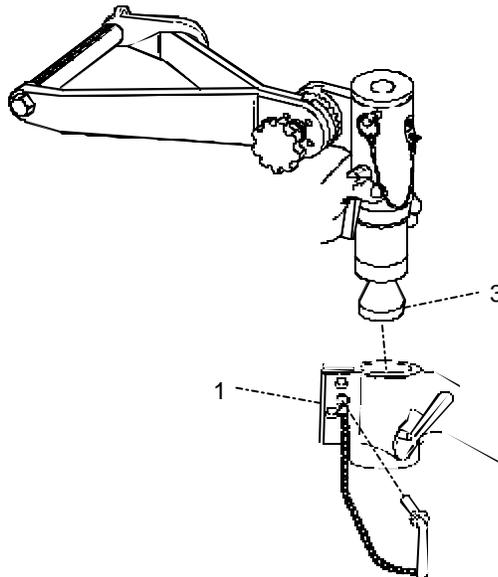
**PLACING INTO OPERATION**

On the commander's cupola socket (1), rotate pintle locking handle (2) down.



2NL0193

Insert UPA (3) into the commander's cupola socket (1).

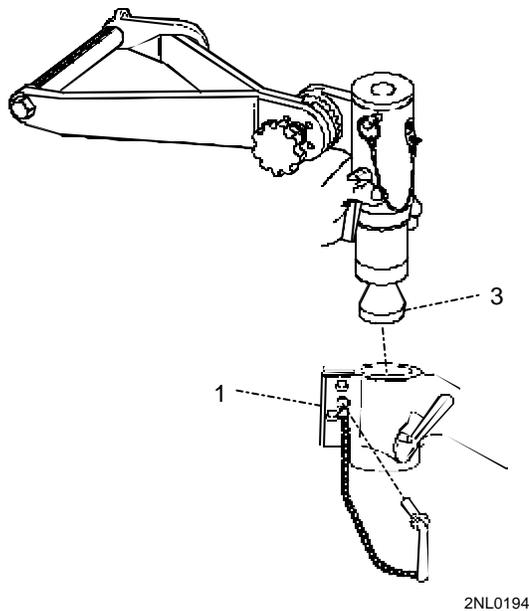


2NL0194

**OPERATOR INSTRUCTIONS AND INSTALLATION OF  
M113 (FAMILY) PERSONNEL CARRIER MOUNT (cont)**

---

Pull the pintle locking handle (2) up, if it does not come up when you install the UPA (3).

**NOTE**

Refer to WP 0076 00 for installation of carriage and cradle assembly, T&E assembly, and travel lock adjustment.

Refer to WP 0076 00 for Free Gun, Taking Out of Operation, and Preparation for Movement procedures.

**END OF WORK PACKAGE**

## OPERATOR INSTRUCTIONS AND INSTALLATION OF M88 RECOVERY VEHICLE MOUNT

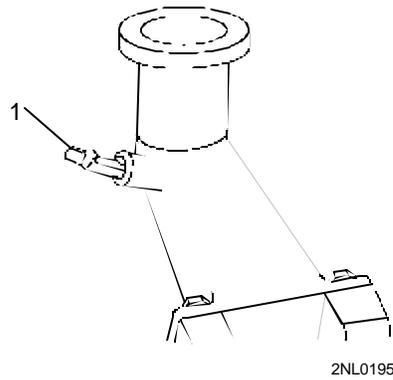
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Components used for this installation are:  
Carriage and Cradle Assembly, P/N 5830052  
T&E Assembly, P/N 5830128  
Universal Pintle Adapter, P/N 12012061

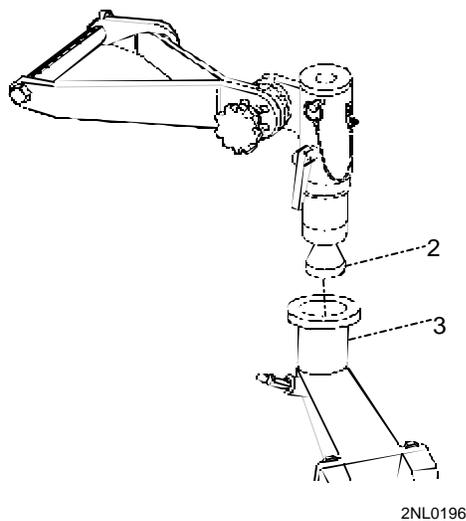
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### PLACING INTO OPERATION

Loosen traverse screw (1).



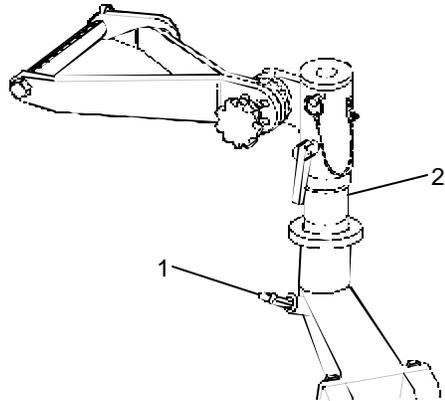
Insert UPA (2) into the yoke (3).



**OPERATOR INSTRUCTIONS AND INSTALLATION OF  
M88 RECOVERY VEHICLE MOUNT (cont)**

---

Tighten traverse locking screw (1) to secure UPA (2).



2NL0197

**NOTE**

Refer to WP 0076 00 for installation of carriage and cradle assembly, T&E assembly, and travel lock adjustment.

Refer to WP 0076 00 for Free Gun, Taking Out of Operation, and Preparation for Movement procedures.

**END OF WORK PACKAGE**

## OPERATOR INSTRUCTIONS AND INSTALLATION FOR M6 PEDESTAL AND M7 PEDESTAL

---

Components used for this installation are:  
 Carriage and Cradle Assembly, P/N 5830052  
 T&E Assembly, P/N 5830128  
 Universal Pintle Adapter, P/N 12012061  
 Travel Lock Adapter, P/N  
 Travel Lock Bracket, P/N  
 Train and Elevation Assembly, P/N 5830123

Equipment Condition:  
 Depression Stop installed on Carriage and  
 Cradle Assembly (WP 0085 00).

---

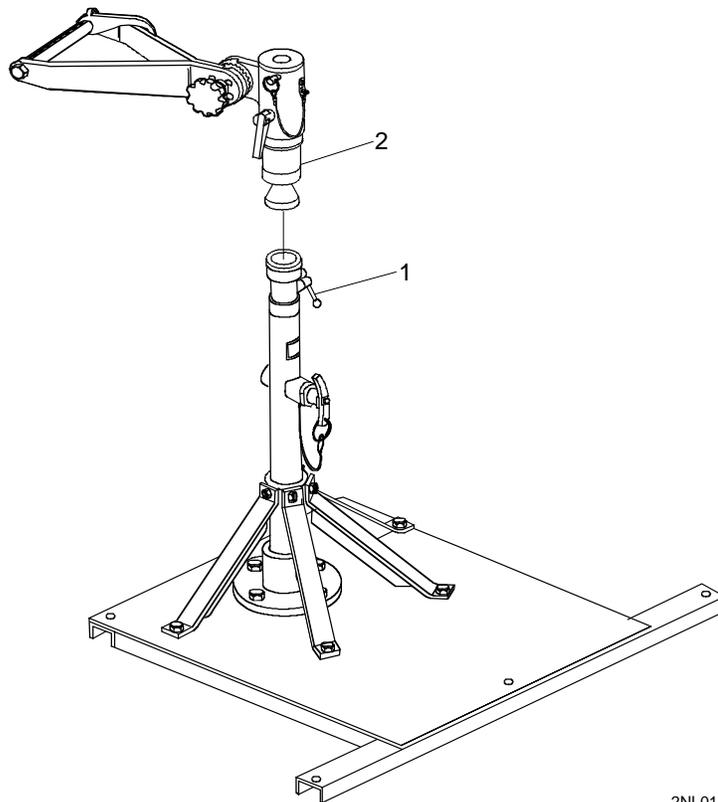
### PLACING INTO OPERATION

#### UNIVERSAL PINTLE ADAPTER

##### NOTE

M6 Pedestal is shown removed from vehicle for clarity/illustration purposes.

Loosen retaining clamp assembly (1), and insert UPA into pintle socket. Tighten retaining clamp assembly (1) and pull up on UPA to ensure it is locked.



2NL0198

##### NOTE

Refer to WP 0076 00 for installation of carriage and cradle assembly, T&E assembly, and travel lock adjustment.

Refer to WP 0076 00 for Free Gun, Taking Out of Operation, and Preparation for Movement procedures.

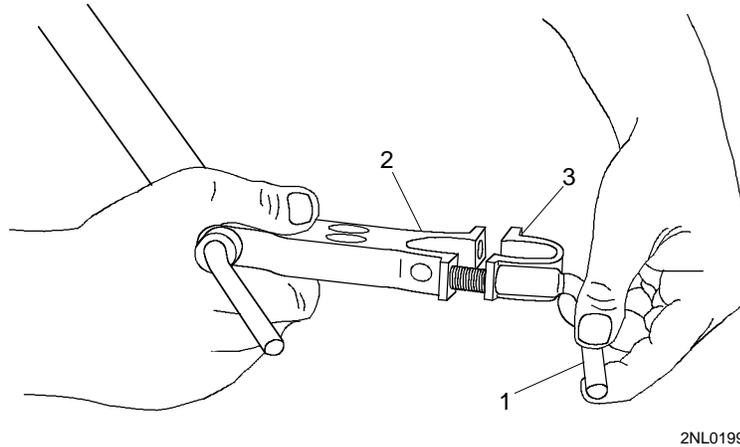
**OPERATOR INSTRUCTIONS AND INSTALLATION FOR  
M6 PEDESTAL STAND AND M7 PEDESTAL (cont)**

---

**PLACING INTO OPERATION (cont)****TRAIN AND ELEVATION ASSEMBLY (MARINE CORPS ONLY)**

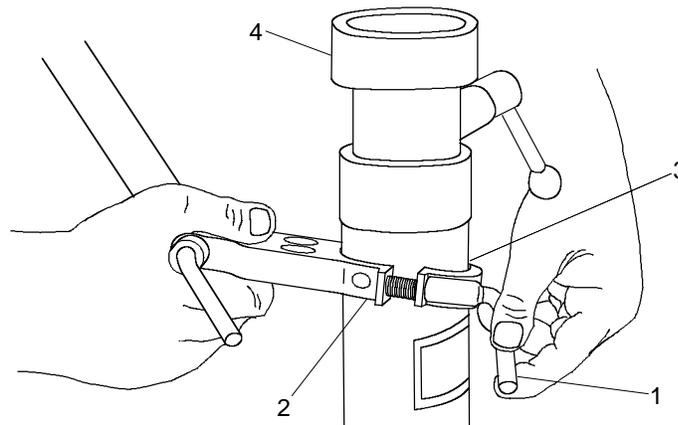
Unscrew train lock handle (1) counterclockwise until free from other side of clamp (2).

Unscrew screw (3) until it is free from clamp (2).



2NL0199

Place clamp (2) to pedestal (4). Align both sides of clamp (2) and screw in train lock handle (1) and screw (3). Equally tighten screw (3) and handle (1) until snug.



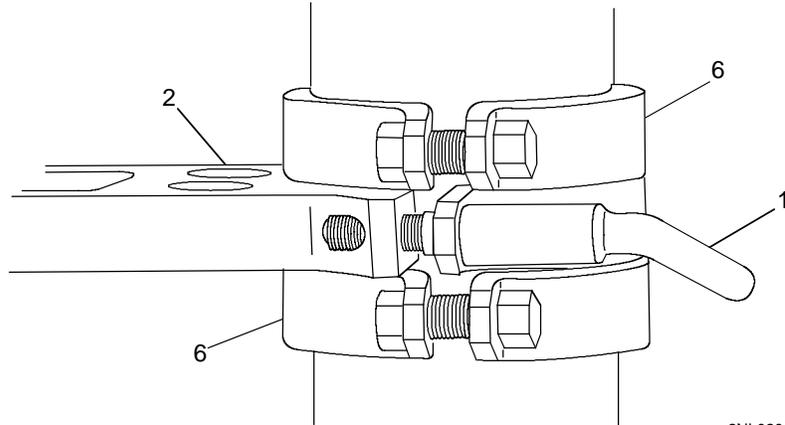
2NL0200

Using two wrenches, fasten one set of clamps (6) below the already installed middle clamp (2). Tighten each screw two turns until snug.

Install other set of clamps (6) above the middle clamp (2). Tighten each screw two turns until snug.

**NOTE**

To allow free left/right traverse of MK64 carriage and cradle assembly, loosen train lock handle (1); to lock into place tighten train lock handle (1).



Loosen retaining clamp assembly (7), and insert carriage and cradle assembly into pintle socket. Tighten retaining clamp assembly (7) and pull up on carriage and cradle assembly to ensure it is locked.

Pull out front stow pin (8) to allow cradle to move.

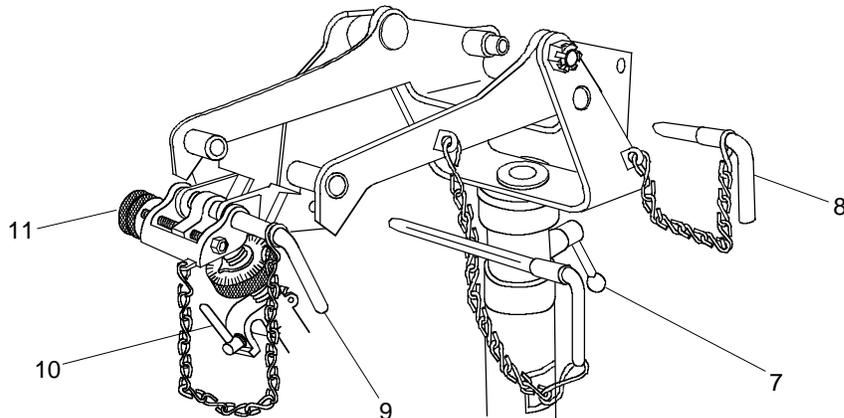
Pull out T&E retaining pin (9); ensure hand-wheel is set at 250 mils.

**NOTE**

Ensure elevating hand-wheel is not jammed under lip of cradle.

Position lock lever (10) to rear and ensure traverse knob (11) is to the left.

Insert retaining pin (9), and turn to locked position.



**OPERATOR INSTRUCTIONS AND INSTALLATION FOR  
M6 PEDESTAL STAND AND M7 PEDESTAL (cont)**

**PLACING INTO OPERATION (cont)**

**TRAVEL LOCK ADAPTER ASSEMBLY AND TRAVEL LOCK BRACKET**

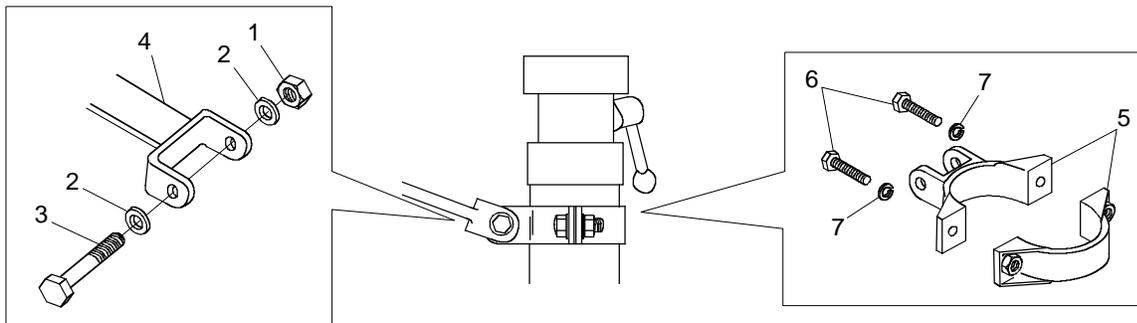
Using two wrenches, remove nut (1), washers (2) and screw (3) from travel lock adapter assembly (4).

Align mounting holes in travel lock adapter assembly (4) with those in travel lock bracket (5).

Place one washer (2) on screw (3) and insert into one side of travel lock adapter (4), through travel lock bracket (5) and other side of travel lock adapter (4). Place other washer on screw and install nut. Tighten using two wrenches.

Remove screws (6) and washers (7) from travel lock bracket (5).

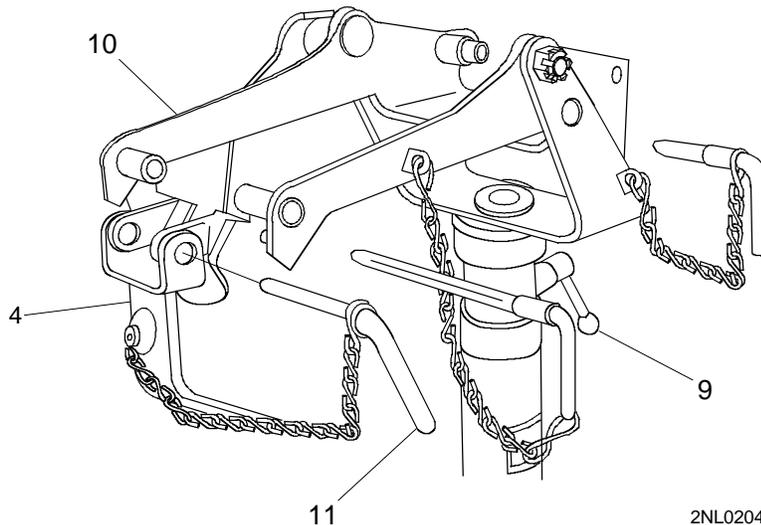
Place travel lock bracket (5) to pedestal (8). Align other side of travel lock bracket (5), and install washers (7) and screws (6). Equally tighten screws (6) until snug.



2NL0203

Loosen retaining clamp assembly (9), and insert carriage and cradle assembly (10) into pintle socket. Tighten retaining clamp assembly (9) and pull up on carriage and cradle assembly to ensure it is locked.

Remove retaining pin (11) from travel lock adapter assembly (4). Align holes in travel lock adapter assembly (4) with holes in carriage and cradle assembly (10) and insert retaining pin (11). Rotate retaining pin (11) to locked position.



2NL0204

**END OF WORK PACKAGE**

**OPERATOR INSTRUCTIONS AND INSTALLATION OF M66 RING**

Components used for this installation are:  
 Carriage and Cradle Assembly, P/N 5830052  
 T&E Assembly, P/N 5830128  
 Universal Pintle Adapter, P/N 12012061

**PLACING INTO OPERATION**

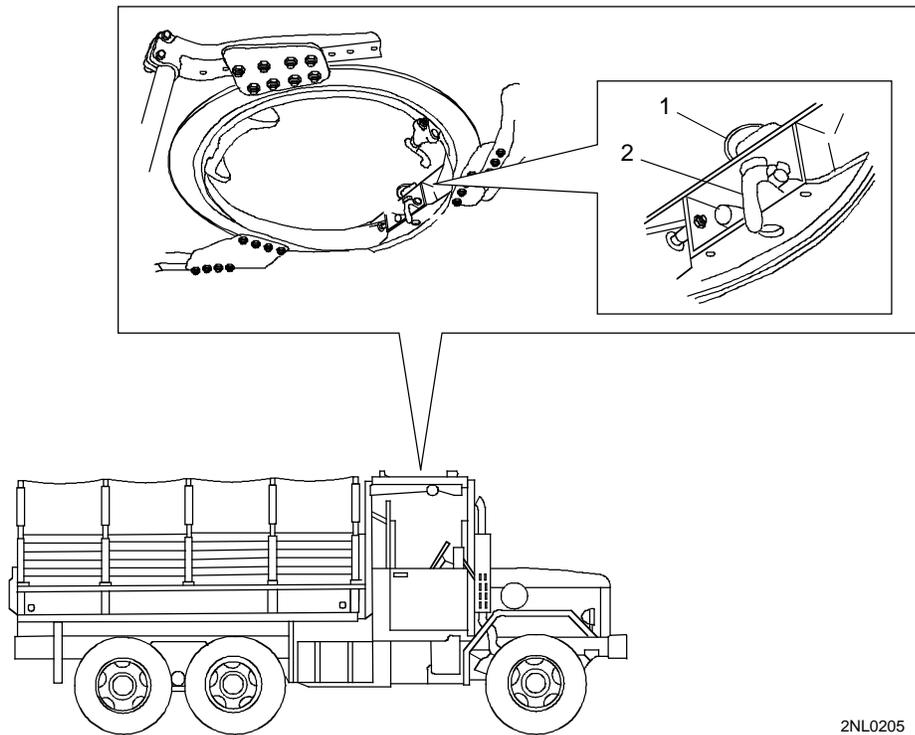
**NOTE**

This procedure can be used to mount the UPA or a Pintle Adapter to the M66 Ring.

Tactical vehicles ranging from 2-1/2 to 12-1/2 tons may have either of two ring assemblies, the M66 Ring or the M939 Lightweight Ring. For ring installation instructions refer to TM 9-1005-335-13&P.

For illustration purposes the M66 ring is viewed from the bottom while mounted on a truck, but can also be followed when used on the front power unit, 12-1/2 ton, 4X4, MK4 MOD 0 (LVS).

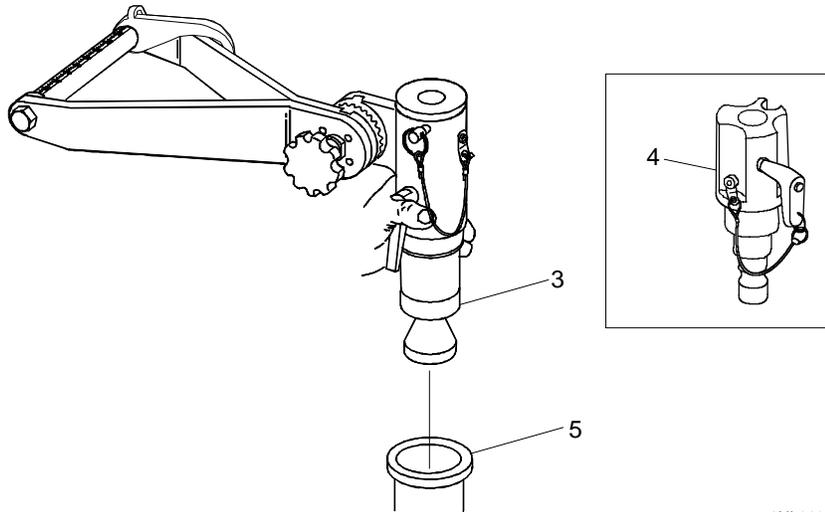
Stand inside the M66 ring facing the pintle adapter hole (1), rotate the pintle lock handle (2) upward.



2NL0205

**OPERATOR INSTRUCTIONS AND INSTALLATION OF M66 RING (cont)**

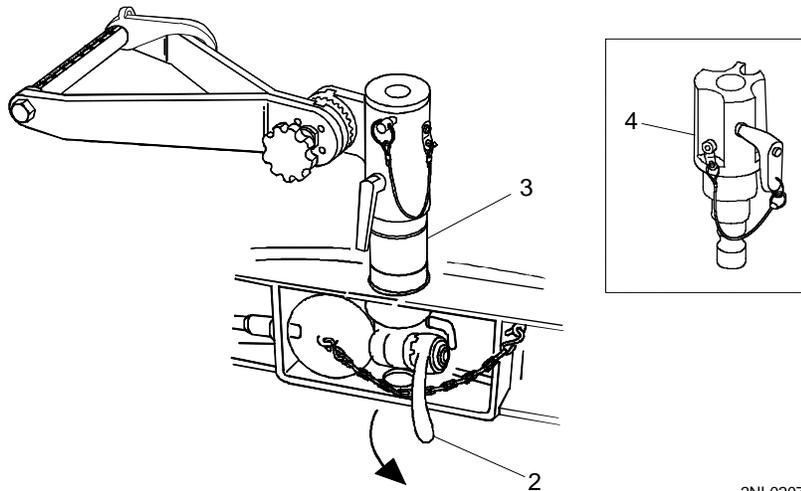
Insert UPA (3) or pintle adapter assembly (4) into upper pintle socket (5).



2NL0206

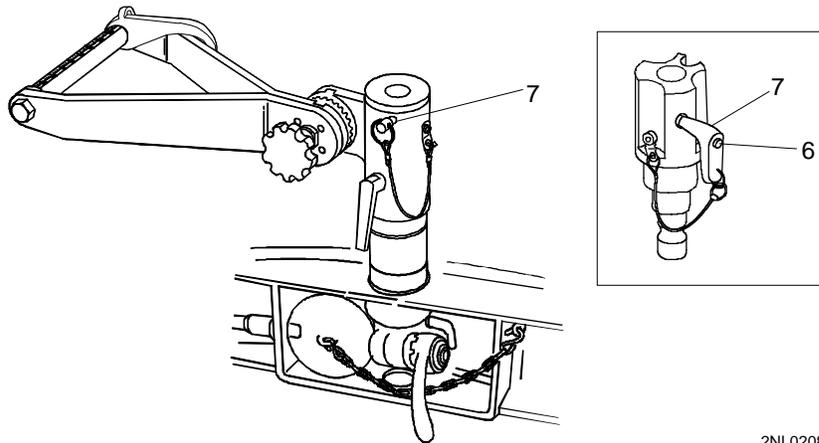
Rotate pintle lock handle (2) downward to secure the UPA (3) or pintle adapter assembly (4).

Pull up on UPA (3) or pintle adapter assembly (4) to ensure it is locked securely into place.



2NL0207

Push in on pin's quick release button (6) (pintle adapter only) and pull out quick release pin (7).



2NL0208

**NOTE**

Refer to WP 0076 00 for installation of carriage and cradle assembly, T&E assembly, and travel lock adjustment.

Refer to WP 0076 00 for Free Gun, Taking Out of Operation, and Preparation for Movement procedures.

**END OF WORK PACKAGE**

0083 00-3/4 blank



**OPERATOR INSTRUCTIONS AND INSTALLATION OF  
M3 MACHINE GUN TRIPOD**

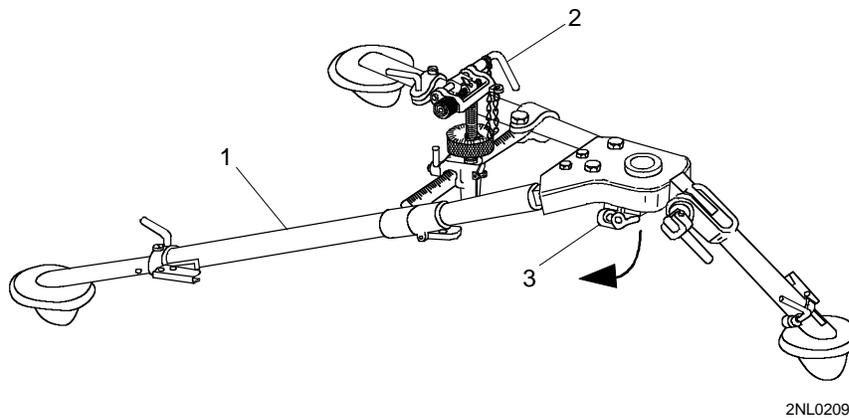
Components used for this installation are:  
 Carriage and Cradle Assembly, P/N 5830052

Equipment Condition:  
 Stow Pin and Depression Stop (WP 0085 00) installed on Carriage and Cradle Assembly.

**PLACING INTO OPERATION**

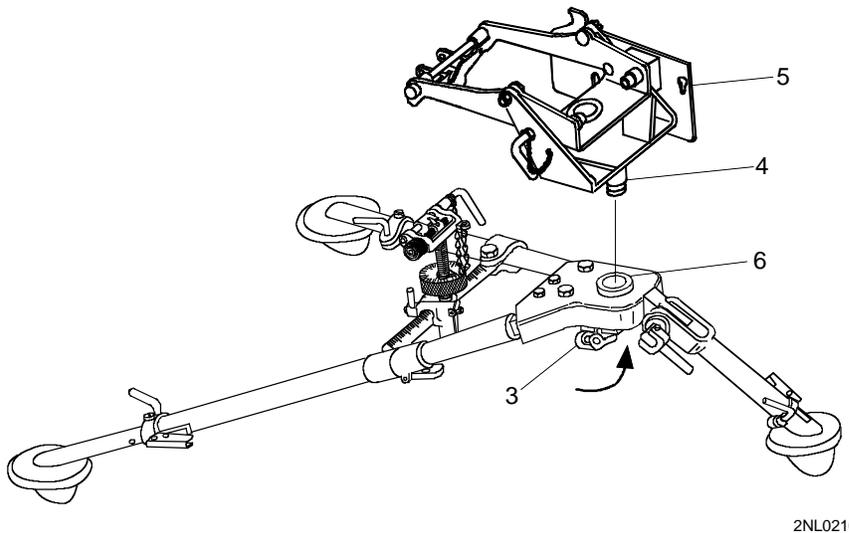
Emplace the M3 machine gun tripod (1) on a firm, level surface and attach the T&E mechanism (2).

Lift up on the pintle locking lever (3) until it clicks open.



Insert pintle (4) of carriage and cradle assembly (5) into bushing (6) of tripod head. Lower the pintle locking lever (3) to secure carriage and cradle assembly (5) in place.

Pull upward and twist carriage and cradle assembly (5). It should be locked into the bushing (6) of the tripod head, but should traverse freely left and right.



**OPERATOR INSTRUCTIONS AND INSTALLATION OF  
M3 MACHINEGUN TRIPOD**

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**PLACING INTO OPERATION (cont)**

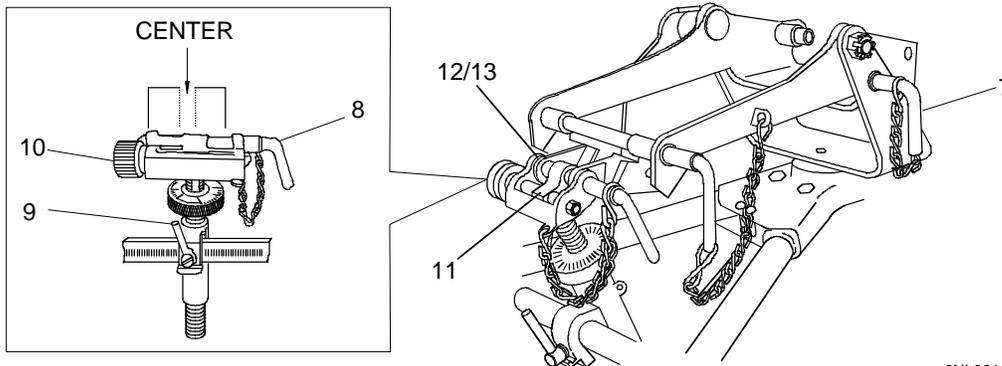
Pull out front retainer pin (7) to allow cradle to move.

Pull out handle (8) from T&E assembly (9).

Turn traversing hand-wheel (10) to center the elevating screw (11) in the shaft.

Align holes (12) in the T&E assembly with the lower rear holes (13) in the cradle as shown.

Insert handle (8) through the cradle and T&E and rotate to lock position.



2NL0211

**NOTE**

Refer to WP 0076 00 for weapon mounting procedures.

**END OF WORK PACKAGE**

## OPERATOR INSTRUCTIONS AND INSTALLATION OF DEPRESSION STOP

---

Components used for this installation are:

- Carriage and Cradle Assembly, P/N 5830052
  - Hexagon head machine bolt, P/N MS90725-39
  - Hexagon plain nut, P/N MS51967-5
- 

### WARNING

During training, do not fire at target closer than 310 meters (approximately 328 yards) when using 40MM High Explosive (HE) or High Explosive Dual Purpose (HEDP) ammunition. Injury from fragmentation may result. Use the depression stop on the carriage and cradle assembly to prevent accidental muzzle depression.

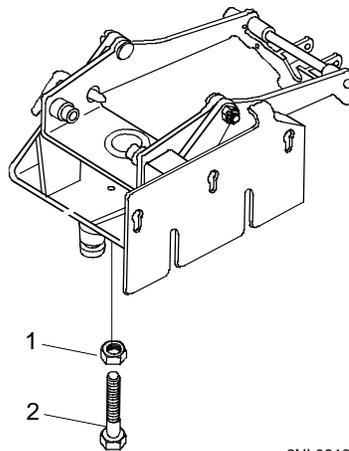
When reinstalling a machine gun at a firing position where depression stop is required, check the depression stop adjustment by sighting down the machine gun barrel toward a point 310 meters (approximately 328 yards) from the first firing position. If the line of sight is below the 200 meter safety limit, readjust the depression stop to achieve 310 meters (approximately 328 yard) safety zone.

### NOTE

The depression stop is a safety device supplied with each carriage and cradle assembly. It consists of a bolt that is threaded into the bottom of the carriage and a nut to lock the bolt in place. The purpose of the depression stop is to prevent the operator from lowering the machine gun beyond the safety limits.

The depression stop will assure safety only when the firing platform is stable in relation to the target (not a moving vehicle, etc.) and when the depression stop has been checked and adjusted after installing the gun at a firing position.

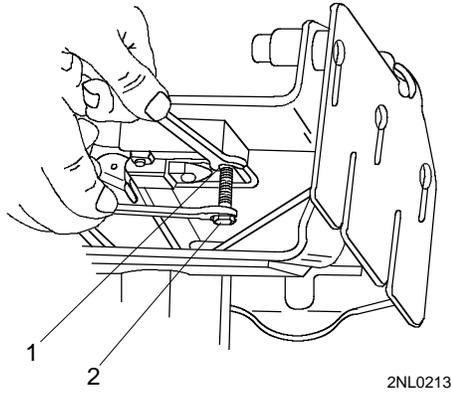
Use an open-end wrench to install the nut (1) on the depression stop bolt (2).



2NL0212

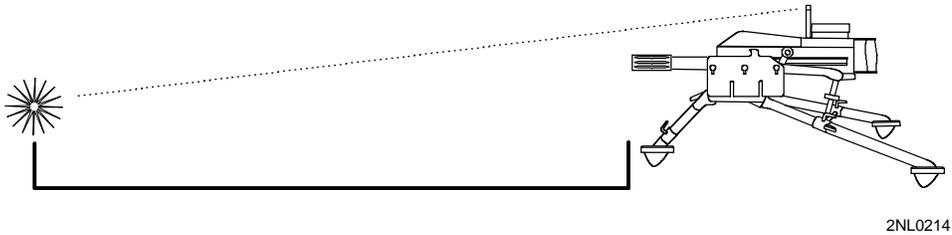
**OPERATOR INSTRUCTIONS AND INSTALLATION OF DEPRESSION STOP (cont)**

Use two open-end wrenches to screw the depression stop bolt (2) with nut into the underside of the carriage (3).

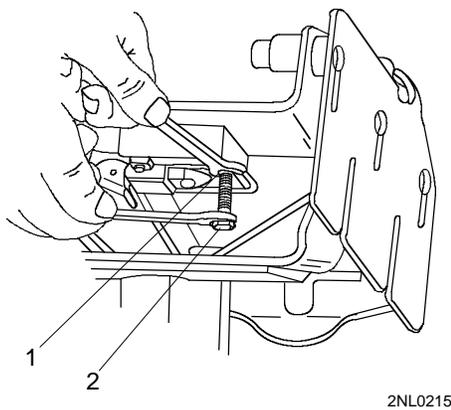


**NOTE**  
MK19 GMG is shown for illustration purposes.

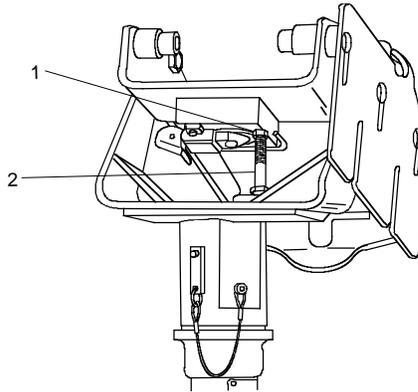
Depress machine gun's muzzle and aim at the lowest point you are allowed to fire (MK19 MOD 0 – 310 meters/328 yards min).



Use two open-end wrenches to adjust depression stop bolt (2) and nut (1) until machine gun muzzle cannot be depressed below the safety limit.



With two open-end wrenches, hold depression stop bolt (2) head and tighten nut (1) clockwise (when viewed from bottom of cradle) until the depression stop is locked in place.



2NL0216

END OF WORK PACKAGE

0085 00-3/4 blank



## OPERATOR INSTRUCTIONS AND INSTALLATION OF MK64 CATCH BAG ASSEMBLY

---

Components used for this installation are:

Carriage and Cradle Assembly, P/N 5830052

Catch Bag Assembly, P/N 6650759

Universal Pintle Adapter (UPA), P/N 12012061

Equipment Condition:

UPA and Carriage and Cradle Assembly installed on vehicle mount (WP 0076 00).

---

### ATTACH CATCH BAG ASSEMBLY TO CARRIAGE AND CRADLE ASSEMBLY

#### WARNING

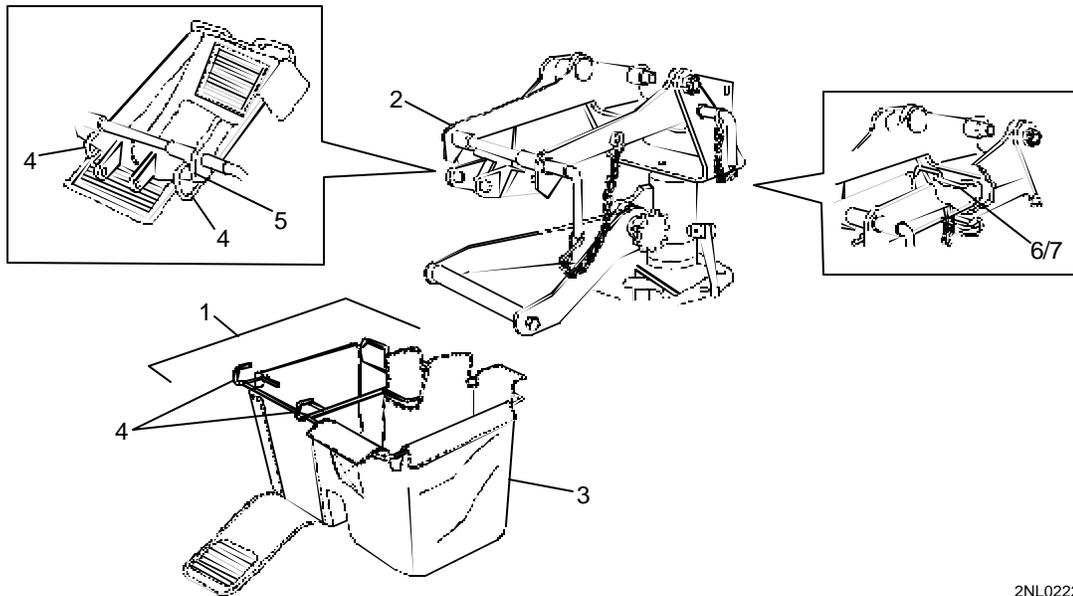
Catch bags are required in vehicle applications.

Open front and rear closure flaps of catch bag.

Slide catch bag assembly (1) from front to back onto traverse arm assembly (2) so that traverse arm assembly is inside the cartridge catch bag (3).

Insert the two catch bag frame rear hooks (4) into the holes in the rear of the carriage and cradle assembly (5).

Insert the bent notch (6) in the front of catch bag frame into the mounting bar (7) of the carriage.

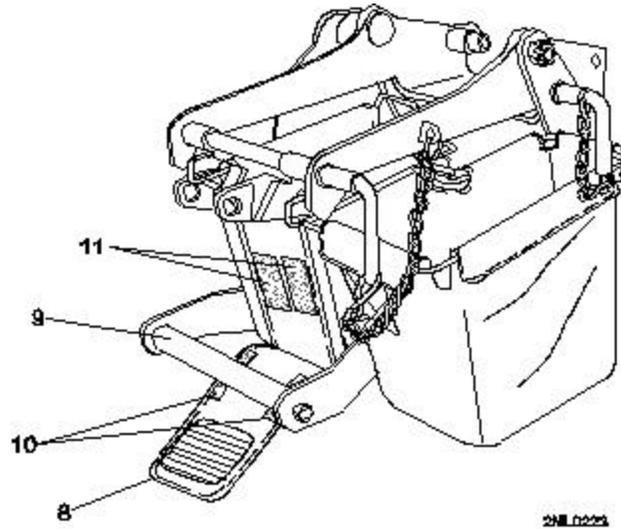


2NL0222

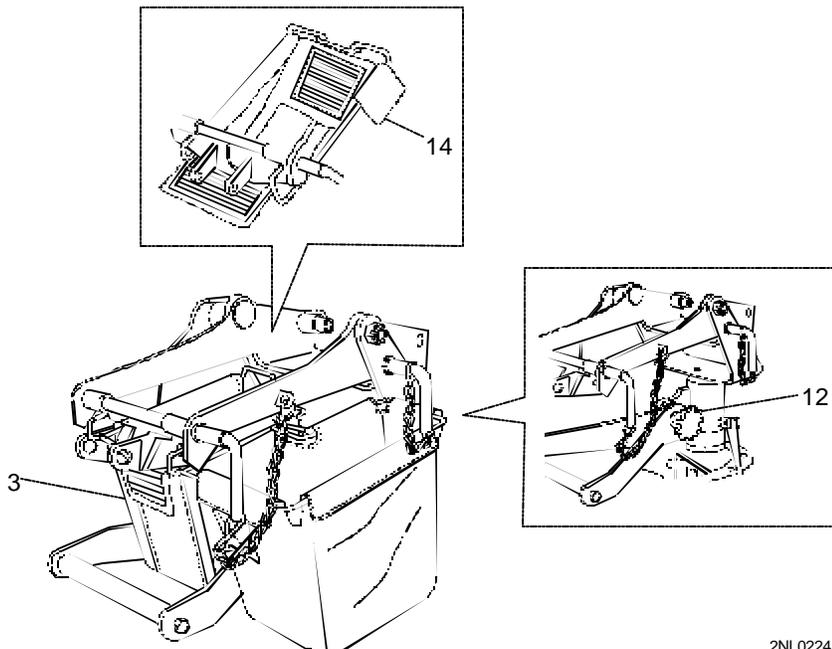
**OPERATOR INSTRUCTIONS AND INSTALLATION OF  
MK64 CATCH BAG ASSEMBLY (cont)**

**ATTACH CATCH BAG ASSEMBLY TO CARRIAGE AND CRADLE ASSEMBLY (cont)**

Slide rear closure flap (8) to the inside of the azimuth indicator (9) and assemble to the catch bag frame. Attach the two Velcro tabs (10) on the rear closure flap to the inside and rear of bag (11).



Ensuring the traverse arm assembly thumbscrew (12) is on the outside of the cartridge catch bag (3), attach the front closure flap (14) of catch bag to the frame.



**END OF WORK PACKAGE**

**OPERATOR INSTRUCTIONS AND INSTALLATION OF  
.50 CALIBER/7.62MM AMMUNITION BOX MOUNTING TRAY ASSEMBLY**

---

**Materials/Parts:**

Ammunition Box Mounting Tray, P/N 5830093

**Equipment Condition:**

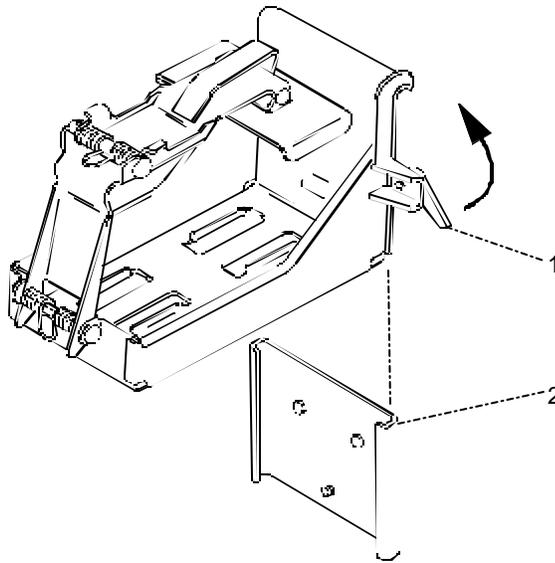
Carriage and Cradle Assembly installed on vehicle/tripod (WP 0076 00).

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**PLACING INTO OPERATION**

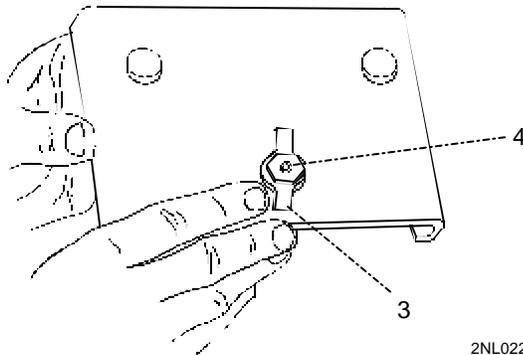
Pull the locking cam (1) upward.

Slide the ammo box bracket assembly (2) downward and off.



2NL0225

Partially unscrew the thumbscrew (3) on ammo box bracket assembly's threaded stud (4).



2NL0226

**OPERATOR INSTRUCTIONS AND INSTALLATION OF  
.50 CALIBER/7.62MM AMMUNITION BOX MOUNTING TRAY ASSEMBLY (cont)**

**PLACING INTO OPERATION (cont)**

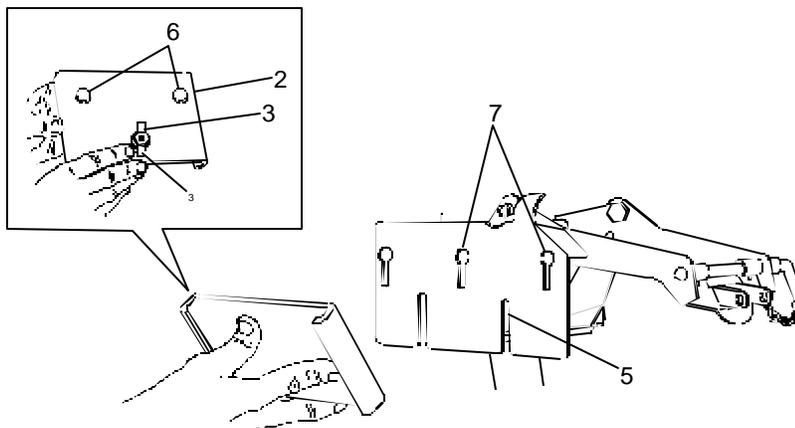
**NOTE**

If used with the M2, .50 caliber, or M60 machine gun, use the rear groove (5) in the side plate.

Slide the threaded stud upward in the rear groove (5) and allow the two welded mounting pins (6) to seat in the two rear slots (7) for the M2, .50 caliber, and M60.

Slide the ammo box bracket assembly (2) downward in the slots.

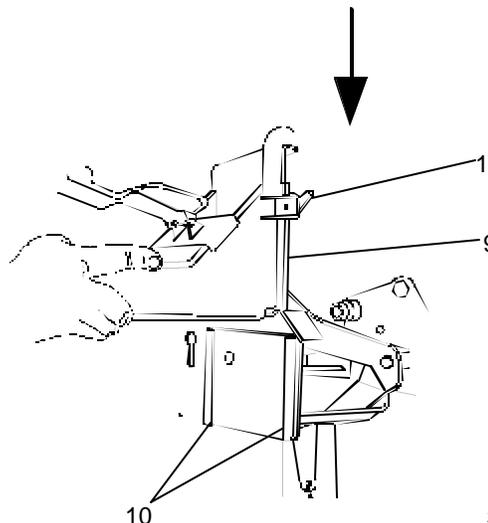
Tighten the thumbscrew (3), now located behind the cradle's side plate. Ensure ammo box bracket assembly is secure in rear groove and two rear slots.



2NL0227

Raise the locking cam (1) on the ammunition box mounting tray assembly.

Align the grooved channels (9) of the ammunition box mounting tray assembly with the matching channels (10) of the ammo box bracket assembly.



2NL0228

Slide the ammunition box mounting tray assembly downward into the ammo box bracket assembly.

Depress locking cam (1) to secure ammunition box mounting tray assembly in the ammo box bracket assembly. Pull up on the ammunition box mounting tray assembly to ensure that it is securely in place.

**END F WOK PACKAGE**

**0087 00-3/4 blank**



**OPERATOR INSTRUCTIONS,  
INSTALLATION, AND ADJUSTMENT PROCEDURES FOR  
MULTIPURPOSE AMMUNITION CAN BRACKET ASSEMBLY**

---

Materials/Parts:

Bracket Mounting Assembly, P/N 5830105

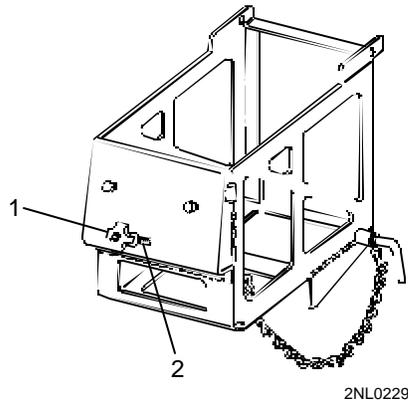
Equipment Condition:

Carriage and Cradle Assembly installed on vehicle/tripod (WP 0076 00).

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**PLACING INTO OPERATION**

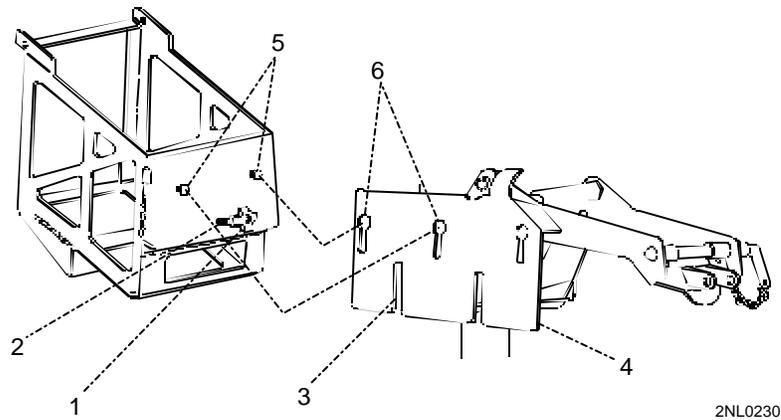
Partially unscrew knob (1) on bracket assembly threaded stud (2).



Align knob (1) on the threaded stud (2) of multipurpose ammunition can bracket assembly with forward groove (3) in the cradle's side plate (4).

Slide threaded stud (2) upward onto the forward groove (3) to allow the two welded pins (5) to seat in the two forward slots (6).

Slide the multipurpose ammunition can bracket assembly downward in the slots.

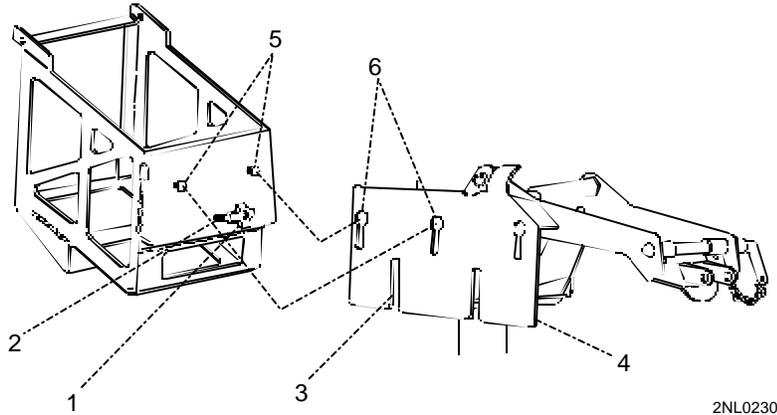


**OPERATOR INSTRUCTIONS, INSTALLATION, AND ADJUSTMENT PROCEDURES FOR  
MULTIPURPOSE AMMUNITION CAN BRACKET ASSEMBLY (cont)**

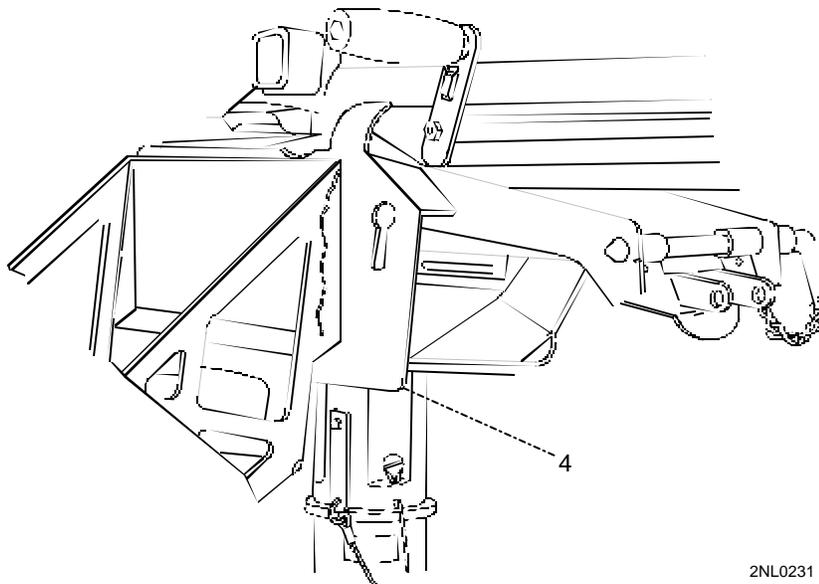
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**PLACING INTO OPERATION (cont)**

Ensure the multipurpose ammunition can bracket assembly is seated in the forward two slots (6) in the cradle's side plate (4), and knob (1) is now located behind the cradle side plate. Reach behind cradle side plate (4) and tighten the knob (1).



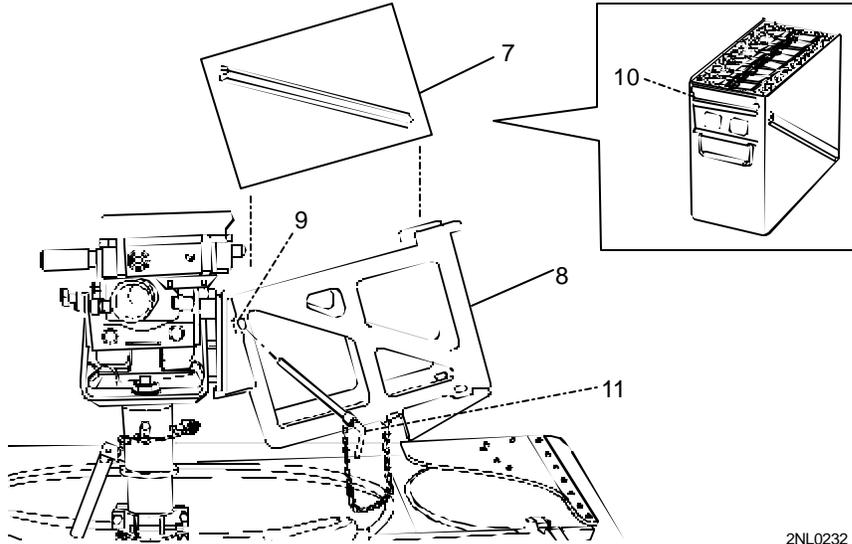
Ensure the multipurpose ammunition can bracket assembly is securely locked into the cradle side plate (4).



**LOADING AMMUNITION CAN INTO MULTIPURPOSE AMMUNITION CAN BRACKET ASSEMBLY**

Push the ammunition can (7) into the multipurpose ammunition can bracket assembly (8).

Align the hole (9) in the multipurpose ammunition can bracket assembly (8) with the groove (10) in the ammunition can (7) and insert headed shoulder pin (11). Rotate headed shoulder pin (11) downward to lock into position.



2NL0232

**END OF WORK PACKAGE**

0088 00-3/4 blank



## **UNIT MAINTENANCE**



**UNIT MAINTENANCE FOR  
CARRIAGE AND CRADLE ASSEMBLY, NSN 1010-01-160-6115, P/N 5830052**

This task covers: a. Disassembly b. Inspection/Repair c. Cleaning  
d. Refinishing/Lubrication e. Assembly

**INITIAL SETUP**

**Tools and Special Tools:**

Tool Kit, Small Arms Repairman,  
PN SC 5180-95-B71

**Materials/Parts:**

Cleaner, lubricant and preservative, (CLP),  
(item 3, WP 0179 00)  
Cotter pin (2), P/N MS24665-437  
Enamel, Olive Green, (item 7, WP 0179 00)  
Enamel, Sand, (item 8, WP 0179 00)

**Materials/Parts (cont):**

Lubricant, Solid Film, (item 10, WP 0179 00)  
Rag, Wiping, (item 14, WP 00179 00)  
Screw, Self-locking, P/N 5830053  
Sealing compound (item 16, WP 0179 00)  
Solvent, Cleaning, (item 17, WP 0179 00)

**Equipment Condition:**

Mount removed from vehicle.

**DISASSEMBLY**

**NOTE**

Remove chain assemblies only for repair/replacement.

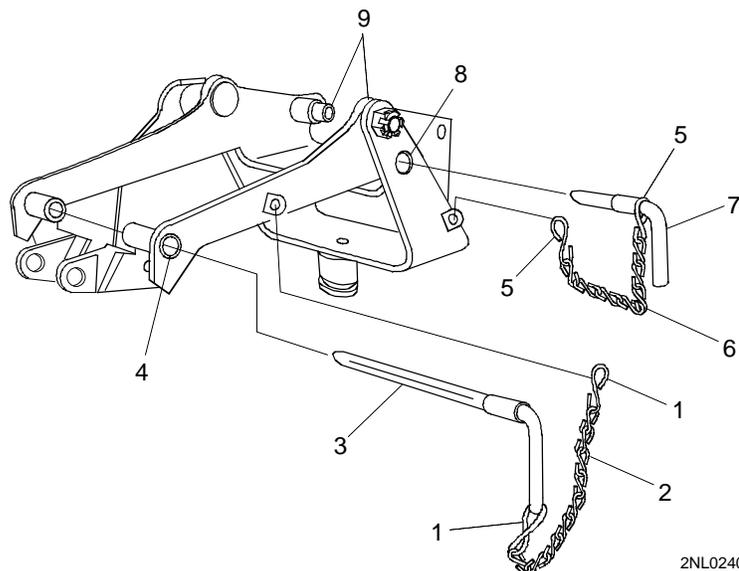
Using pliers, open two 'S' chain hook (1) on ends of chain (2), and remove chain assembly.

Turn quick release pin (3) until flat side aligns with self-locking screw (4) and pull out to remove.

Using pliers, open two 'S' chain hook (5) on ends of chain (6), and remove chain assembly.

Turn retainer pin (7) until flat side aligns with self-locking screw (8) and pull out to remove.

If self-locking screws (9) must be removed, apply pressure using a hex key, to break staking and sealing compound, and unscrew to remove.



2NL0240

**UNIT MAINTENANCE FOR  
CARRIAGE AND CRADLE ASSEMBLY, NSN 1010-01-160-6115, P/N 5830052 (cont)**

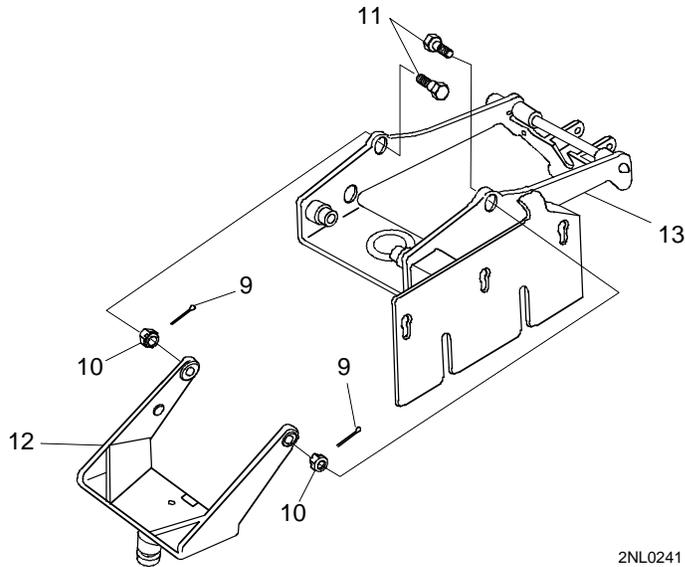
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**DISASSEMBLY (cont)**

Pry up legs of two cotter pins (9), remove and discard.

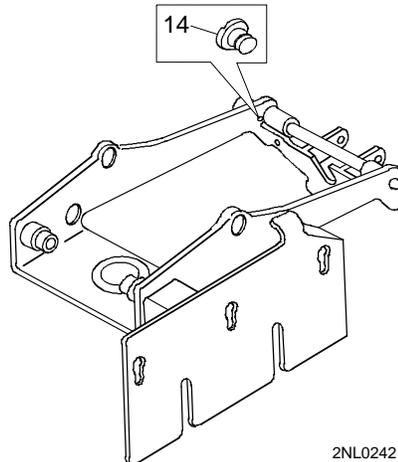
Using two wrenches, remove two slotted nuts (10) and two machine bolts (11).

Separate carriage (12) from cradle and bushing assembly (13).



2NL0241

Using a screwdriver, remove one locking shoulder screw (14).



2NL0242

**REPAIR/REPLACEMENT**

Replace any missing or damaged parts.

Replace 'S' chain hooks and chain as a unit.

If cradle is damaged, repair is by replacement of next higher assembly.

If carriage is damaged, repair is by replacement of next higher assembly.

**CLEANING**

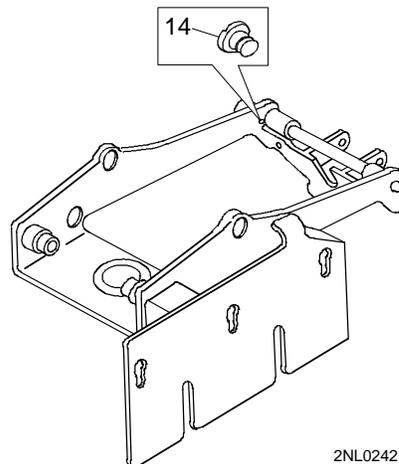
Clean all components with CLP, wipe dry and apply light coat of CLP.

**REFINISHING/LUBRICATION**

Clean area to be refinished with cleaning solvent, wipe dry, and touch-up with enamel paint. Allow to dry per manufacturer's instructions. Apply light coat of CPL.

**ASSEMBLY**

Using a screwdriver, install one locking shoulder screw (14), stake pin in two places,



2NL0242

**UNIT MAINTENANCE FOR  
CARRIAGE AND CRADLE ASSEMBLY, NSN 1010-01-160-6115, P/N 5830052 (cont)**

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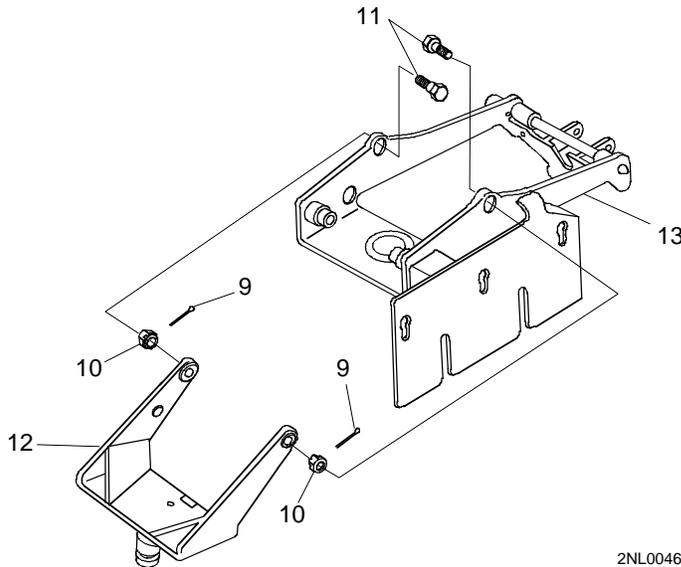
**ASSEMBLY (cont)****WARNING**

Be sure to assemble the carriage and cradle as shown. If the two components are reversed, the assembly will not elevate properly, endangering personnel.

**CAUTION**

Be sure to install new cotter pins in the manner shown. This method prevents interference with the path of ammunition during operation.

Align holes in carriage (12) and cradle and bushing assembly (13).



With holes aligned, insert two machine bolts (11) and two slotted nuts (10). Hand-tighten until snug.

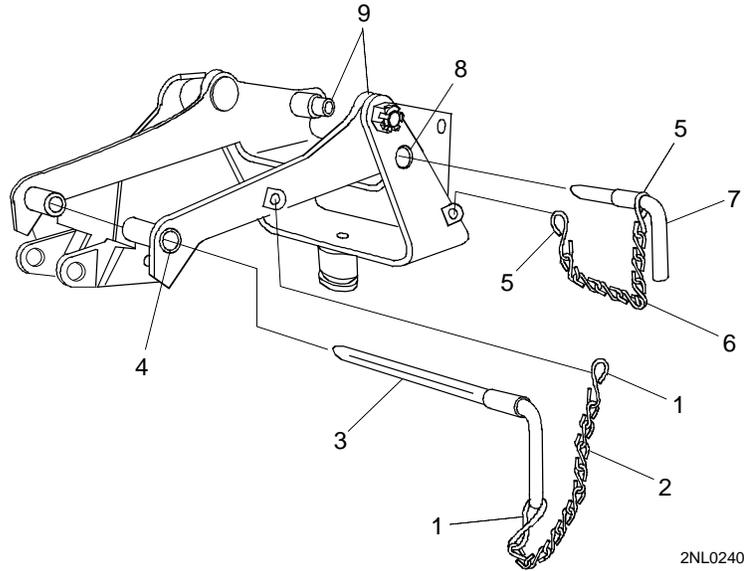
Align hole in machine bolt (11) and groove in slotted nut (10), and install new cotter pin (9) so pinhole is facing the hexagon side of slotted nut (10).

Pull ends of cotter pin (9) until the head is just above flush with slotted nut (10).

Bend longer end of cotter pin (9) over the slotted nut (10), and shorter end toward the cradle (12) and over the slotted nut (12).

Tap down ends of cotter pins with hammer.

If self-locking screws (9) were removed, apply sealing compound to threads of new self-locking screws (9), and using hex key, install on cradle and tighten.



2NL0240

Attach one S chain hook (5) to each end of chain (6).

Attach one S chain hook (5) to groove on handle of retainer pin (7) and the other to the welded ring on carriage (9). Using pliers, bend ends of 'S' chain hooks closed.

Insert retainer pin (7), push in and turn until flat side aligns with self-locking screw (8).

Attach one 'S' chain hook (1) to each end of chain (2).

Attach one 'S' chain hook (1) to groove on handle of quick release pin (3) and the other to the welded ring on cradle (x). Using pliers, bend ends of S chain hooks closed.

Insert quick release pin (3), push in and turn until flat side aligns with self-locking screw (4).

**END OF WORK PACKAGE**



**UNIT MAINTENANCE FOR  
UNIVERSAL PINTLE ADAPTER, NSN 1010-01-445-6143, P/N 12012061**

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This task covers: a. Disassembly b. Inspection/Repair c. Cleaning  
d. Refinishing/Lubrication e. Assembly

**INITIAL SETUP**

**Tools and Special Tools:**

Tool Kit, Small Arms Repairman,  
PN SC 5180-95-B71

**Materials/Parts:**

Cleaner, lubricant and preservative, (CLP),  
(item 3, WP 0179 00)  
Cotter pin (2), P/N MS24665-437  
Enamel, Olive Green, (item 7, WP 0179 00)

**Materials/Parts (cont):**

Enamel, Sand, (item 8, WP 0179 00)  
Lubricant, Solid Film, (item 10, WP 0179 00)  
Rag, Wiping, (item 14, WP 0179 00)  
Solvent, Cleaning, (item 17, WP 0179 00)  
Sealing Compound, (item 16, WP 0179 00)

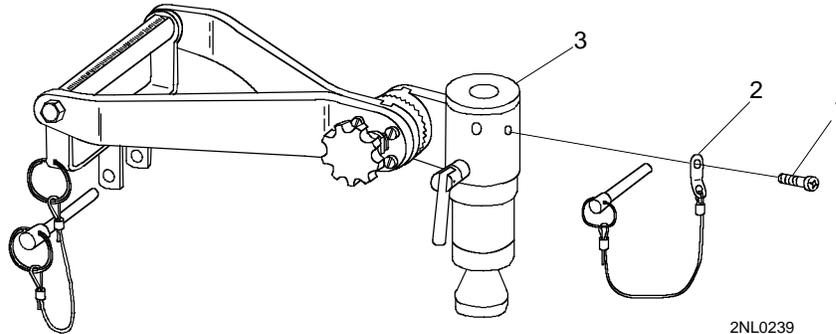
**Equipment Condition:**

UPA removed from vehicle/tripod.

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**DISASSEMBLY**

Remove screw (1) and cable assembly (2) from body (3).



**INSPECTION/REPAIR**

Repair is by replacement of damaged or missing parts.

**CLEANING**

Clean all components with CLP, wipe dry and apply light coat of CLP.

**REFINISHING/LUBRICATION**

Clean area to be refinished with cleaning solvent, wipe dry, and touch-up with enamel paint. Allow to dry per manufacturer's instructions. Apply light coat of CPL.

**REASSEMBLY**

Apply sealing compound to threads of screw (1); insert screw (1) through hole in cable assembly (2) and attach to body (3).

**END OF WORK PACKAGE**



**UNIT MAINTENANCE FOR  
PINTLE ADAPTER ASSEMBLY, NSN 1010-01-151-6229, P/N 5830131**

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For unit maintenance of the pintle adapter assembly, refer to WP 0069 00.

**END OF WORK PACKAGE**

**0091 00-1/2 blank**



**UNIT MAINTENANCE FOR  
TRAVERSING AND ELEVATION MECHANISM ASSEMBLY, NSN 1010-01-151-6227, P/N 5830128**

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For unit maintenance of the Traversing and Elevation Mechanism Assembly, refer to WP 0042 00.



**UNIT MAINTENANCE FOR  
.50 CALIBER MOUNTING ADAPTER ASSEMBLY, NSN 1010-01-151-6217, P/N 5830097**

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This task covers: a. Disassembly b. Inspection/Repair c. Cleaning  
d. Refinishing/Lubrication e. Assembly

**INITIAL SETUP**

**Tools and Special Tools:**

Tool Kit, Small Arms Repairman,  
PN SC 5180-95-B71

**Materials/Parts:**

Cleaner, lubricant and preservative, (CLP),  
(item 3, WP 0179 00)  
Cotter pin (2), P/N MS24665-441  
Cotter pin, P/N NAS24665-304

**Materials/Parts (cont):**

Enamel, Olive Green, (item 7, WP 0179 00)  
Enamel, Sand, (item 8, WP 0179 00)  
Lubricant, Solid Film, (item 10, WP 0179 00)  
Rag, Wiping, (item 14, WP 0179 00)  
Solvent, Cleaning, (item 17, WP 0179 00)

**Equipment Condition:**

Adapter removed from vehicle/tripod.

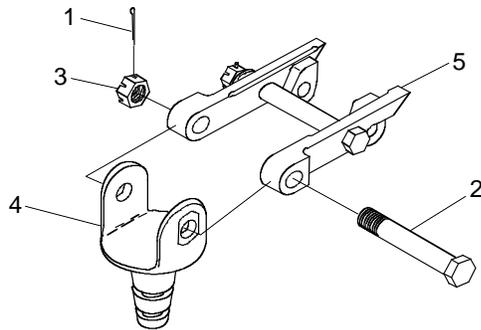
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**DISASSEMBLY**

Using pliers, pry up legs of cotter pin (1), remove and discard.

Place a wrench on machine bolt (2) to hold in place, and remove slotted plain nut (3) from machine bolt (2).

Remove machine bolt (2) from pintle (4), remove assembled components (5) from pintle (4).



2NL0233

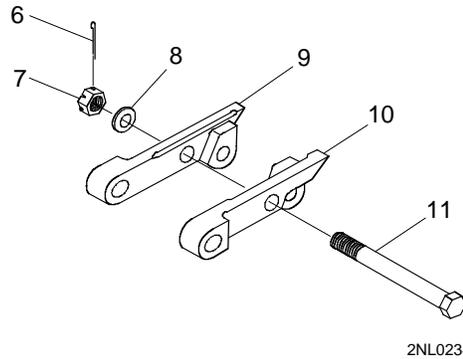
**UNIT MAINTENANCE FOR  
.50 CALIBER MOUNTING ADAPTER ASSEMBLY, NSN 1010-01-151-6217, P/N 5830097 (cont)**

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Using pliers, pry up legs of cotter pin (6), remove and discard.

Place a wrench on drill shank bolt (11) to hold in place, and remove slotted plain nut (7) and flat washer (8) from drill shank bolt (11).

Remove drill shank bolt (11) and separate LH mount adapter (10) from RH mount adapter (9).



**REPAIR/REPLACEMENT**

Remove burrs with a file or stone.

Replace any missing or damaged parts.

**CLEANING**

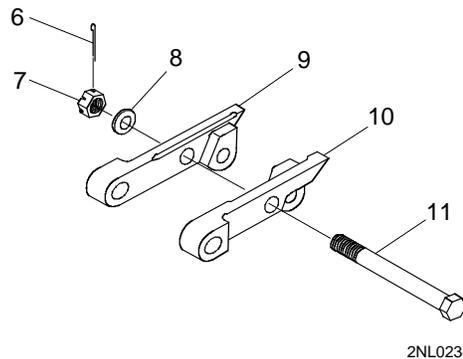
Clean all components with CLP, wipe dry and apply light coat of CLP.

**REFINISHING/LUBRICATION**

Clean area to be refinished with cleaning solvent, wipe dry, and touch-up with enamel paint. Allow to dry per manufacturer's instructions. Apply light coat of CPL.

**ASSEMBLY**

Install LH mount adapter (10) and RH mount adapter (9) on drill shank bolt (11).



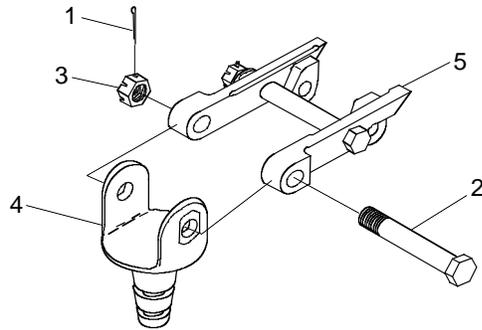
Install flat washer (8) and slotted plain nut (7) on drill shank bolt (11).

Place a wrench on drill shank bolt (11) to hold in place, and tighten slotted plain nut (7).

Install new cotter pin (6) through slotted plain nut (7) and drill shank bolt (11). Using pliers, bend legs of cotter pin (6) to secure.

Align holes in pintle (4) with holes in assembled components (5).

Insert machine bolt (2) through the pintle (4) and assembled components (5). Install slotted plain nut (3).



2NL0233

Place a wrench on machine bolt (2) to hold in place, and tighten slotted plain nut (3).

Install new cotter pin (1) through machine bolt (2) and slotted plain nut (3). Using pliers, bend legs of cotter pin (1) to secure.

**END OF WORK PPACKAGE**

**0093 00-3/4 blank**



**UNIT MAINTENANCE FOR  
PLATFORM ASSEMBLY, NSN 1010-01-289-2709, P/N 5831546**

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This task covers: a. Disassembly b. Inspection/Repair c. Cleaning  
d. Refinishing/Lubrication e. Assembly

**Tools and Special Tools:**

Tool Kit, Small Arms Repairman,  
PN SC 5180-95-B71

**Materials/Parts:**

Cleaner, lubricant and preservative, (CLP),  
(item 3, WP 0179 00)  
Enamel, Olive Green, (item 7, WP 0179 00)

**Materials/Parts (cont):**

Enamel, Sand, (item 8, WP 0179 00)  
Lubricant, Solid Film, (item 10, WP 0179 00)  
Rag, Wiping, (item 14, WP 0179 00)  
Solvent, Cleaning, (item 17, WP 0179 00)

**Equipment Condition:**

Platform removed from vehicle/tripod.

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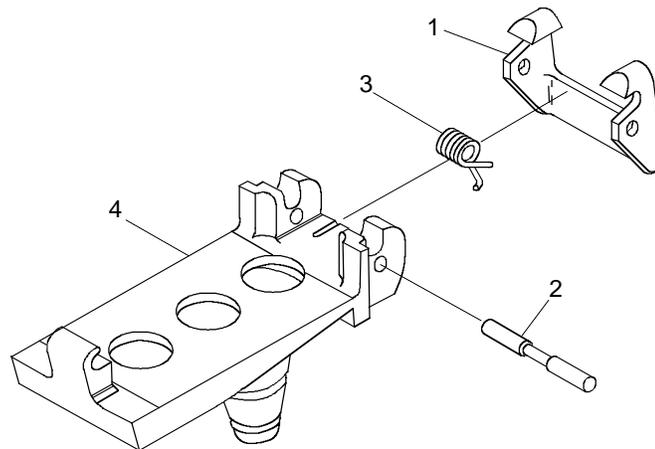
**DISASSEMBLY**

**WARNING**

Use care when removing spring-loaded parts, personal injury may occur.

Depress platform latch (1), with punch and hammer tap out grooved head pin (2).

Separate helical torsion spring (3) and platform latch (1) from platform (4).



2NL0235

**INSPECTION/REPAIR**

Remove burrs with file or stone.

Replace helical torsion spring if there is binding or action is weak.

Replace both grooved head pin and helical torsion spring if loose or worn.

If platform or pintle is deformed or unserviceable, replace entire assembly.

**UNIT MAINTENANCE FOR  
PLATFORM ASSEMBLY, NSN 1010-01-289-2709, P/N 5831546 (cont)**

---

**CLEANING**

Clean all components with CLP, wipe dry and apply light coat of CLP.

**REFINISHING/LUBRICATION**

Clean area to be refinished with cleaning solvent, wipe dry, and touch-up with enamel paint. Allow to dry per manufacturer's instructions. Apply light coat of CPL.

**ASSEMBLY**

Position helical torsion spring (3) against platform (4). Ensure longer L-shaped end is seated in groove of platform and shorter end projects away from platform.

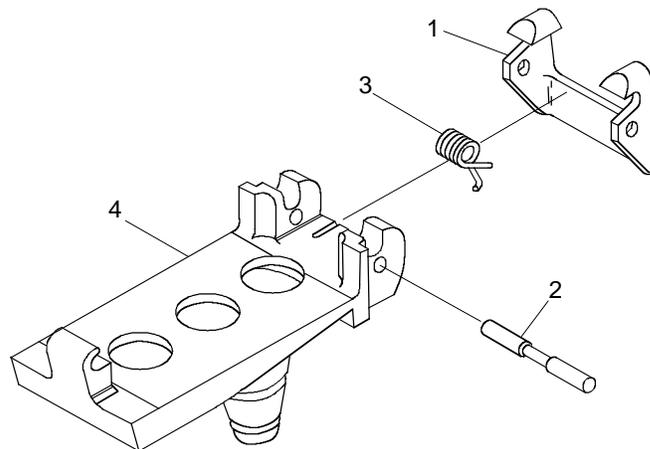
**NOTE**

If necessary, use punch to align helical torsion spring and pinholes in platform latch with platform.

Position platform latch (1) against helical torsion spring (3) and compress so pinholes of platform latch (1) and platform (4) are aligned.

Hold platform latch (1) compressed and install grooved head pin (2) into pinhole of platform (4). Gentle tap into place using hammer until grooved head pin protrudes evenly on either side of platform (4).

When grooved head pin (4) is installed, release platform latch (1). Spring action should be crisp with no binding.



2NL0235

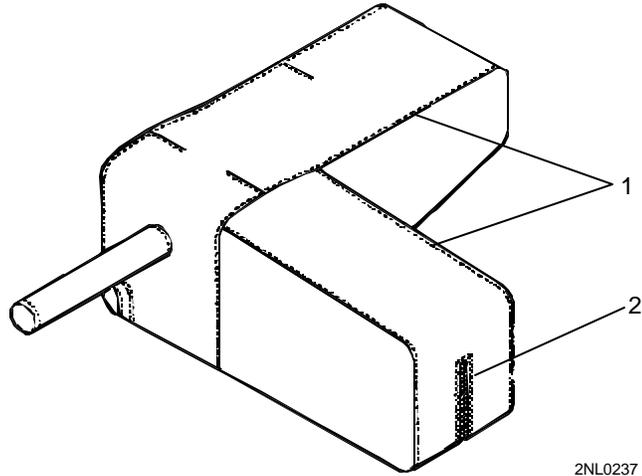
**END OF WORK PACKAGE**

**UNIT MAINTENANCE FOR  
MACHINE GUN MOUNT COVER, NSN 1010-01-151-6277, P/N 5830059**

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If seams of machine gun mount cover (1) are split, repair if possible.

If seams are non-reparable, material is torn, or zipper (2) is broken, replace cover.



2NL0237

**END OF WORK PACKAGE**

0095 00-1/2 blank

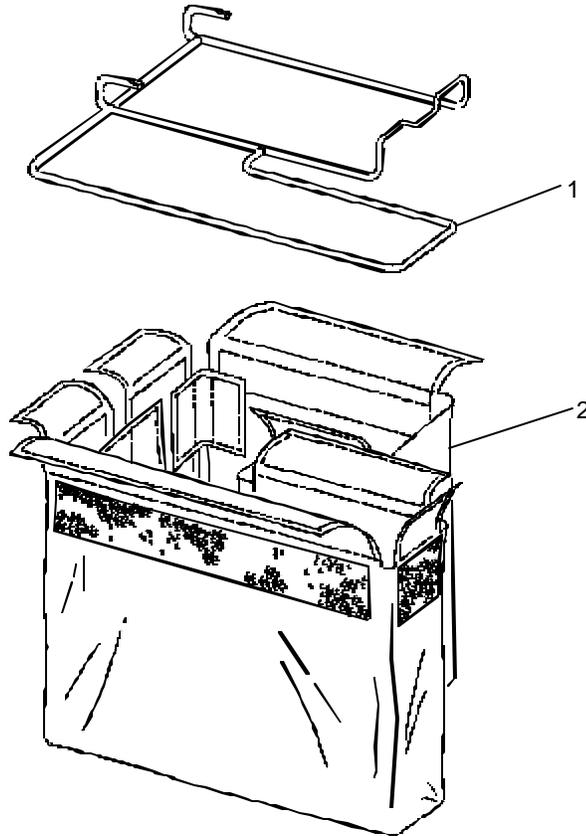


**UNIT MAINTENANCE FOR  
CATCH BAG ASSEMBLY, NSN 1005-01-418-4360, P/N 6650759**

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**DISASSEMBLY**

Loosen velcro tabs on catch bag (1) to remove catch bag frame (2).



2NL0238

**INSPECTION/REPAIR**

Replace catch bag if torn or damaged beyond serviceability.

**REFINISHING/LUBRICATION**

Clean area to be refinished with cleaning solvent, wipe dry, and touch-up with enamel paint. Allow to dry per manufacturer's instructions.

**REASSEMBLY**

Position catch bag frame (2) under flaps of catch bag (1).

Ensure hanger on catch bag frame (2) is facing downward.

Close velcro tabs to secure catch bag (1) to catch bag frame (2).

**END OF WORK PACKAGE**



**UNIT MAINTENANCE FOR  
AMMUNITION BOX MOUNTING TRAY ASSEMBLY, NSN 8140-01-156-7371, P/N 5830093**

This task covers: a. Disassembly      b. Refinishing/Lubrication      c. Repair/Replacement  
d. Assembly

**Tools and Special Tools:**

Tool Kit, Small Arms Repairman,  
PN SC 5180-95-B71

**Materials/Parts:**

Cotter Pin, P/N NAS24665-283  
Lubricant, Solid Film, (item 10, WP 0179 00)  
Rag, Wiping, (item 14, WP 0179 00)  
Rivet, P/N 5412816  
Solvent, Cleaning, (item 17, WP 0179 00)

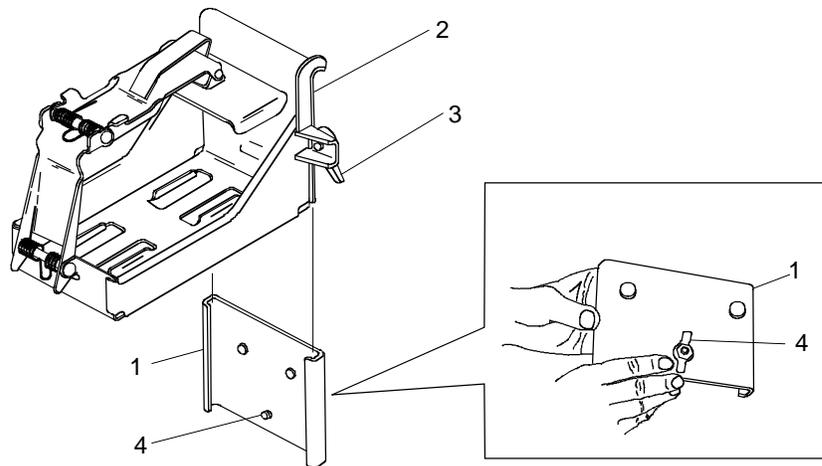
**Materials/Parts:**

Cleaner, lubricant and preservative, (CLP),  
(item 3, WP 0179 00)  
Cotter Pin, P/N M24665-814

**DISASSEMBLY**

Remove ammunition box mounting tray assembly (1) from ammunition loading tray (2) by rotating locking lever (3) upward and sliding ammunition box mounting tray assembly (1) downward from ammunition loading tray.

Do not remove thumbscrew (4) from ammunition box tray assembly (1).

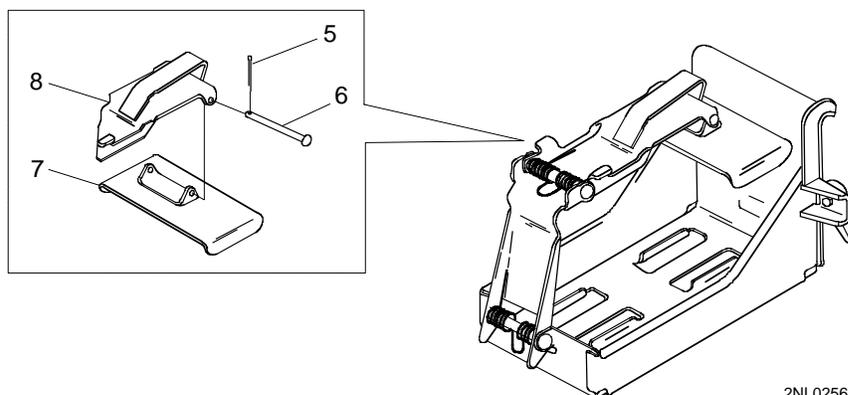


2NL0255

Using a screwdriver and pliers, pry up ends of cotter pin (5), remove and discard cotter pin.

Using punch and hammer, tap out straight pin (6).

Separate pad assembly (7) from top pressure strap assembly (8).



2NL0256

**UNIT MAINTENANCE FOR  
AMMUNITION BOX MOUNTING TRAY ASSEMBLY, NSN 8140-01-156-7371, P/N 5830093 (cont)**

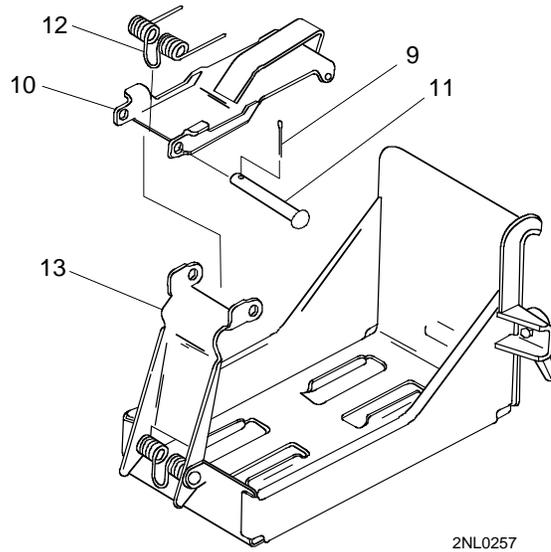
**DISASSEMBLY (cont)**

Using a screwdriver and pliers, pry up ends of cotter pin (9), remove and discard pin.

Rotate top pressure strap assembly (10) downward to relieve spring tension.

Using punch and hammer, tap out straight pin (11).

Separate helical torsion spring (12) from top of pressure strap assembly (10) and rear strap assembly (13).

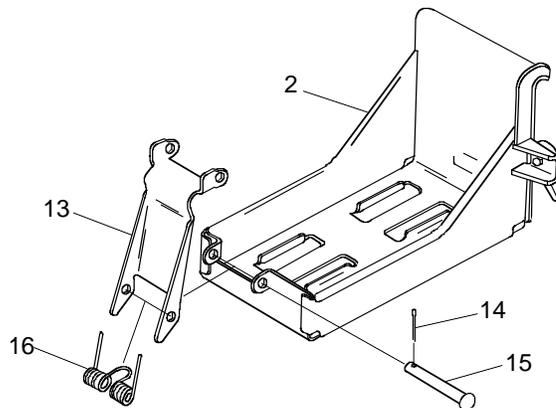


2NL0257

Using a screwdriver and pliers, pry up ends of cotter pin (14), remove and discard pin.

Using a punch and hammer, tap out straight pin (15).

Separate helical torsion spring (16) from rear pressure strap assembly (13) and ammunition loading tray (2).

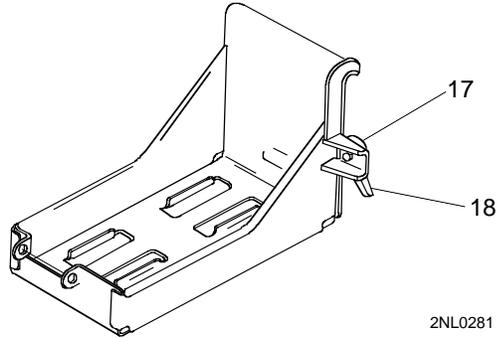


2NL0258

**NOTE**

Remove rivet only if damaged.

Position a punch under head of solid rivet (17) and hit with a hammer to break-off head of rivet. Discard rivet. Remove cam (18).



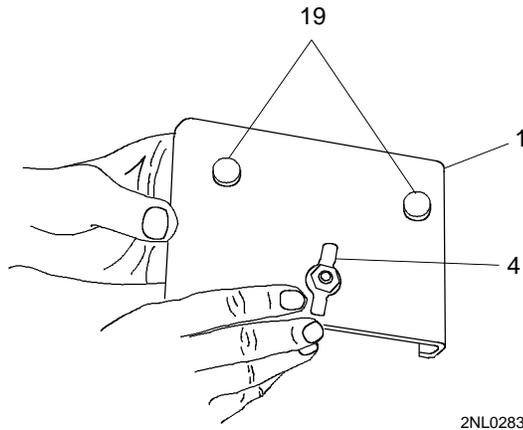
**REFINISHING/LUBRICATION**

Clean area to be refinished with cleaning solvent, wipe dry, and touch-up with enamel paint. Allow to dry per manufacturer's instructions. Apply light coat of CPL.

**REPAIR/REPLACEMENT**

Replace any missing or damaged parts.

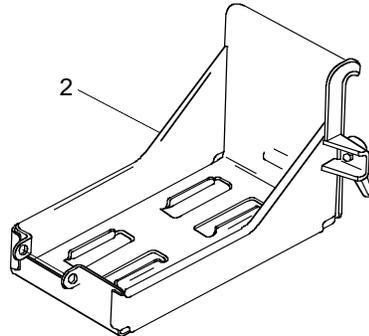
Replace ammunition box bracket assembly (1) if bracket is damaged, if welded lugs (19) and/or thumbscrew (4) is missing, damaged or unserviceable.



**UNIT MAINTENANCE FOR  
AMMUNITION BOX MOUNTING TRAY ASSEMBLY, NSN 8140-01-156-7371, P/N 5830093 (cont)**

**REPAIR/REPLACEMENT (cont)**

If ammunition loading (2) tray is damaged, repair is by replacement of next higher assembly.



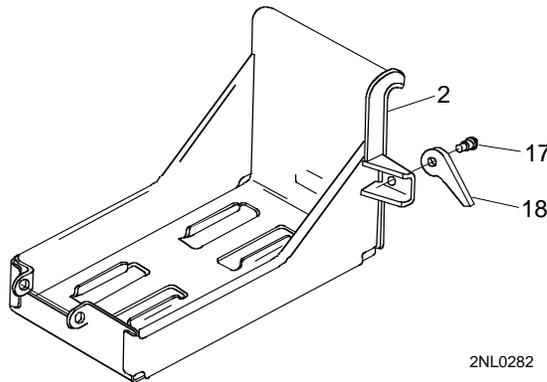
2NL0280

**REASSEMBLY**

**NOTE**

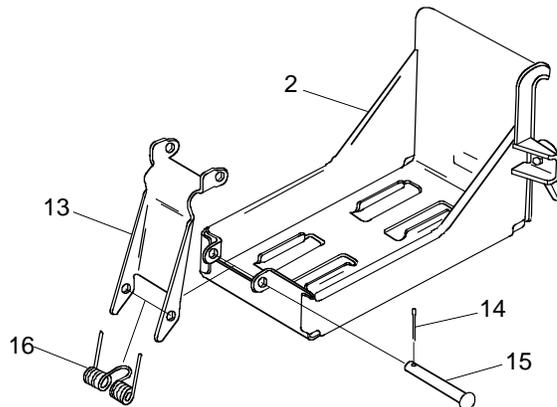
Perform this step only if the rivet was removed.

Align cam (18) to hole in ammunition tray (2) and insert rivet (17). Turn ammunition loading tray upright (on end). Using vise jaw as an anvil, peen over back end of rivet with punch and hammer.



2NL0282

Position rear strap assembly (13) against ammunition holding tray (2) with pinholes aligned.



2NL0258

Position helical torsion spring (16) between pinholes, ends upward as shown.

Insert straight pin (15) through rear strap assembly and first set of coils of helical torsion spring (16).

Using pliers, rotate tab on helical torsion spring (16) downward so tab is seated on ammunition holding tray (2).

Tap straight pin (15) through second set of coils and other side of rear strap assembly (13) and ammunition holding tray (2).

Install new cotter pin (14) through hole in end of straight pin. Using pliers, bend the ends of cotter pin around the straight pin (15).

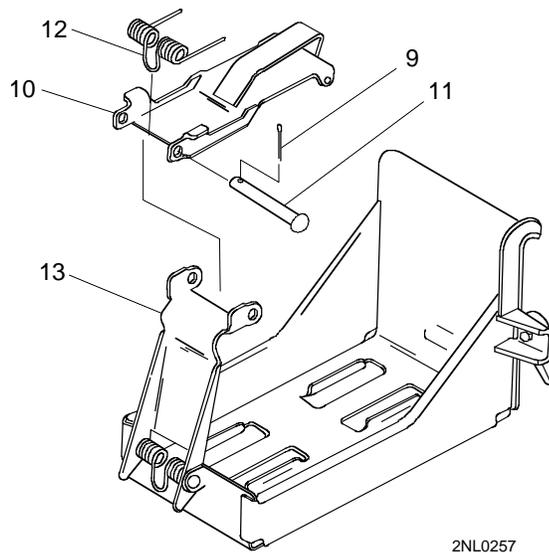
Position top pressure strap assembly (10) against rear strap assembly (13) with pinholes aligned.

Seat tab of helical torsion spring (12) on top pressure strap assembly (10) with coils of helical torsion spring aligned with pinholes in top pressure strap assembly.

#### NOTE

The two ends of helical torsion spring will stick upward and tab will rest on top pressure strap assembly when aligned correctly.

Insert straight pin (11) through top pressure strap assembly (10) and first set of coils on helical torsion spring (12).



Using pliers, rotate tab on helical torsion spring (12) downward until tab is seated on rear strap assembly (10).

Tap straight pin (11) through second set of coils and other side of pressure strap assembly (10) and rear strap assembly (13).

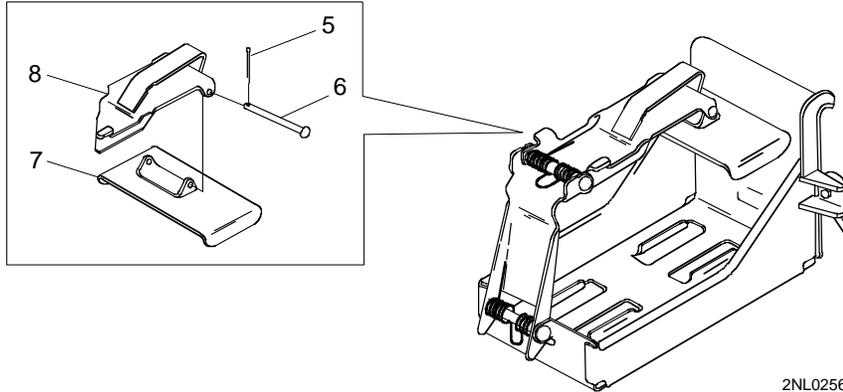
Install new cotter pin (9) through hole in end of straight pin. Using pliers, bend the ends of cotter pin around the straight pin (11).

**UNIT MAINTENANCE FOR  
AMMUNITION BOX MOUNTING TRAY ASSEMBLY, NSN 8140-01-156-7371, P/N 5830093 (cont)**

**REASSEMBLY (cont)**

Align pinholes in top pressure strap assembly (8) with those in pad assembly (7).

Using hammer, tap in straight pin (6) in direction shown.

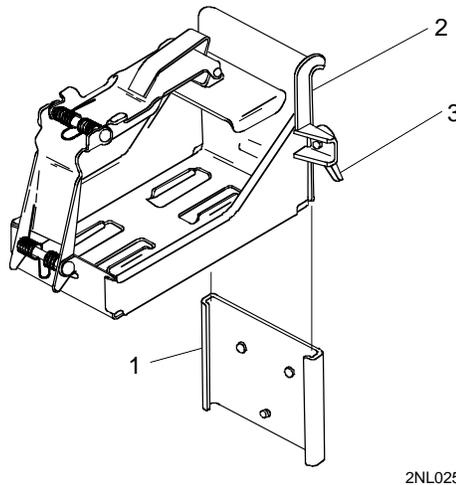


Install new cotter pin (5) through hole in end of straight pin. Using pliers, bend the ends of cotter pin around the straight pin (6).

Position ammunition box bracket assembly (1) below ammunition loading tray (2) with grooves aligned.

Lift locking lever (3) on ammunition loading tray (2) and slide ammunition box bracket assembly (1) upward into grooves of ammunition loading tray (2).

Lower locking lever (3) to hold ammunition box bracket assembly (1) in place.



**END OF WORK PACKAGE**

**UNIT MAINTENANCE FOR  
MULTIPURPOSE AMMUNITION CAN BRACKET ASSEMBLY,  
NSN 5340-01-340-8471, P/N 12929150**

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This task covers: a. Disassembly b. Inspection/Repair c. Cleaning  
d. Refinishing/Lubrication e. Assembly

**INITIAL SETUP**

**Tools and Special Tools:**

Tool Kit, Small Arms Repairman,  
PN SC 5180-95-B71

**Materials/Parts (cont):**

Enamel, Sand, (item 8, WP 0179 00)  
Lubricant, Solid Film, (item 10, WP 0179 00)  
Rag, Wiping, (item 14, WP 0179 00)  
Solvent, Cleaning, (item 17, WP 0179 00)

**Materials/Parts:**

Cleaner, lubricant and preservative, (CLP),  
(item 3, WP 0179 00)  
Enamel, Olive Green, (item 7, WP 0179 00)

**Equipment Condition:**

Mounting bracket removed from mount.

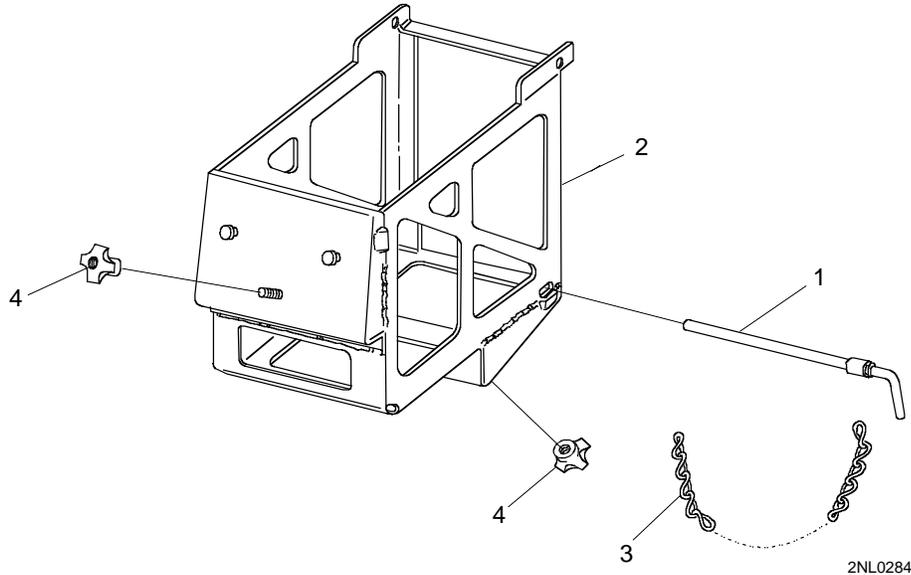
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**DISASSEMBLY**

Pull headed shoulder pin (1) from weldment bracket (2).

Using pliers, spread ends of S-hooks and remove chain assembly (93) from headed shoulder pin (91) and weldment bracket (2).

Remove two hand-knobs (4).



**INSPECTION/REPAIR**

Inspect for broken, damaged, or missing parts.

If weldment bracket is broken or damaged, repair is by replacement of next higher assembly.

Repair is by replacement of authorized parts.

**UNIT MAINTENANCE FOR  
MULTIPURPOSE AMMUNITION CAN BRACKET ASSEMBLY,  
NSN 5340-01-340-8471, P/N 12929150 (cont)**

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**CLEANING**

Clean all components with CLP, wipe dry and apply light coat of CLP.

**REFINISHING/LUBRICATION**

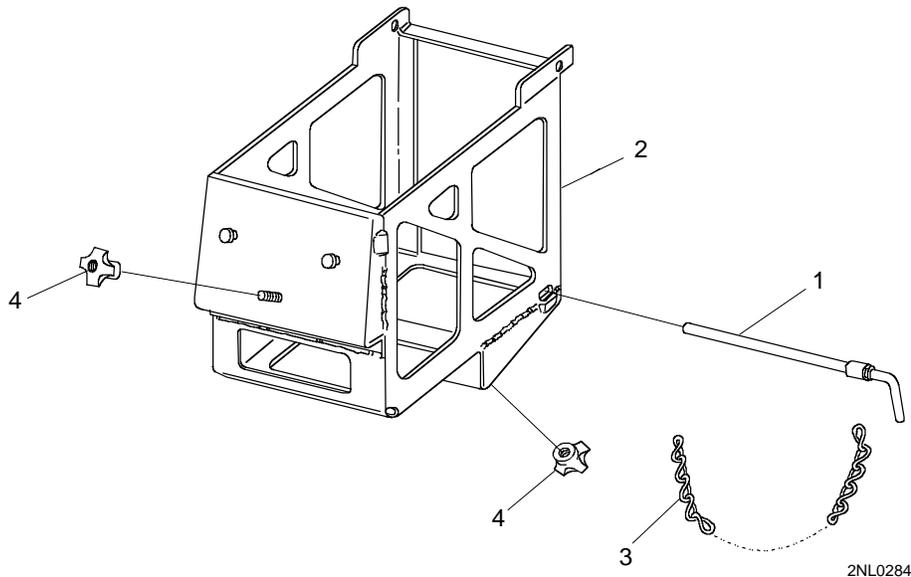
Clean area to be refinished with cleaning solvent, wipe dry, and touch-up with enamel paint. Allow to dry per manufacture's instructions. Apply light coat of CPL.

**ASSEMBLY**

Install two hand-knobs (4) on weldment bracket (2).

Install chain assembly (3) in weldment bracket (2) and headed shoulder pin (1).

Install headed shoulder pin (1) in weldment bracket (2).



**END OF WORK PACKAGE**

**UNIT MAINTENANCE FOR  
TRAIN AND ELEVATION ASSEMBLY, NSN 1010-01-151-6221, P/N 5830123  
(MARINE CORP ONLY)**

This task covers: a. Disassembly    b. Inspection/Repair    c. Cleaning  
d. Refinishing/Lubrication    e. Assembly

**INITIAL SETUP**

**Tools and Special Tools:**  
Tool Kit, Small Arms Repairman,  
PN SC 5180-95-B71

**Materials/Parts (cont):**  
Enamel, Sand, (item 8, WP 0179 00)  
Lubricant, Solid Film, (item 10, WP 0179 00)  
Rag, Wiping, (item 14, WP 0179 00)  
Solvent, Cleaning, (item 17, WP 0179 00)

**Materials/Parts:**  
Cleaner, lubricant and preservative, (CLP),  
(item 3, WP 0179 00)  
Enamel, Olive Green, (item 7, WP 0179 00)

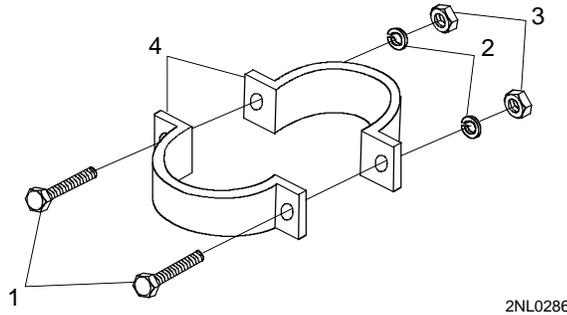
**Equipment Condition:**  
Mount removed from vehicle.

**DISASSEMBLY**

**NOTE**

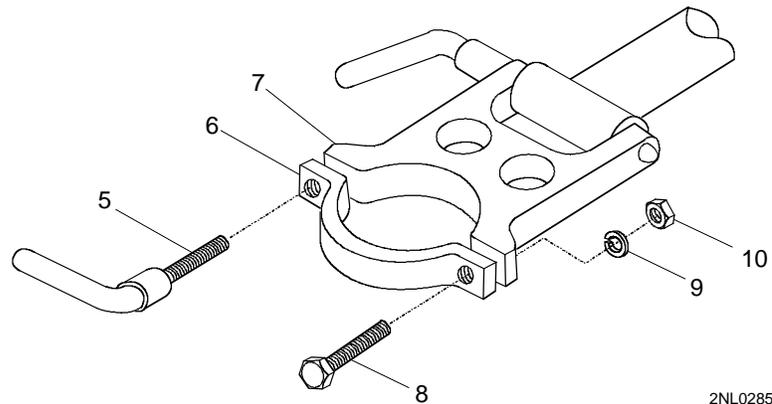
Only one clamp is shown; upper and lower clamps are the same.

Remove two nuts (1), two screws (2), and two washers (3) for both the upper and lower clamp (4).



Unscrew train lock handle (5) from middle clamp (6) and pivot (7).

Remove nut (8), washer (9) and screw (10) from middle clamp (6) and pivot (7). Separate middle clamp (6).

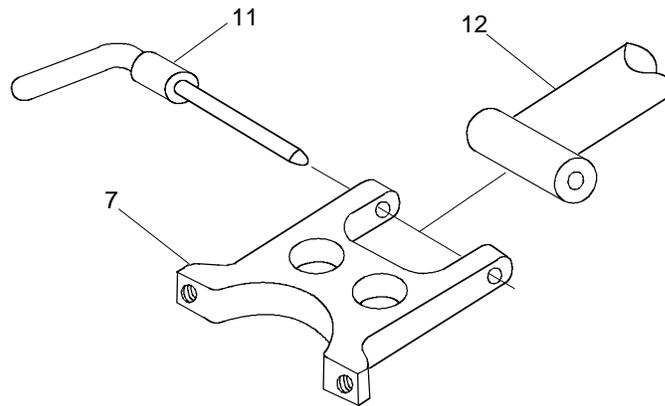


**UNIT MAINTENANCE FOR  
TRAIN AND ELEVATION ASSEMBLY, NSN 1010-01-151-6221, P/N 5830123  
(MARINE CORP ONLY) (cont)**

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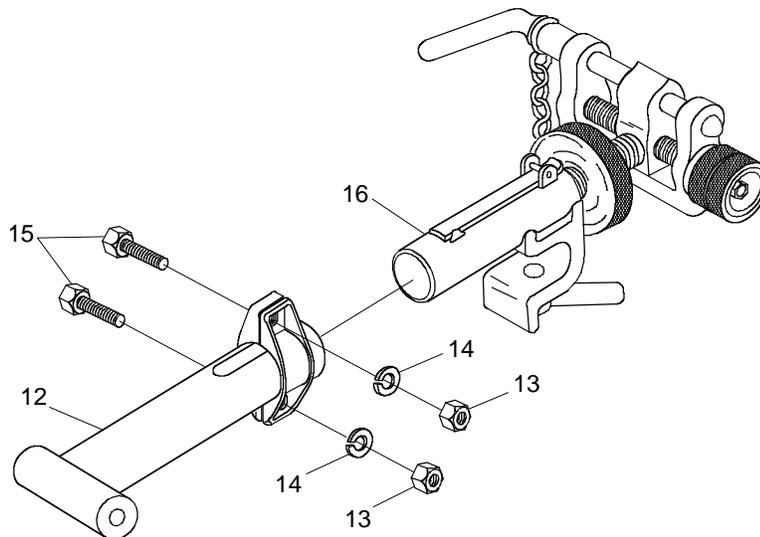
**DISASSEMBLY (cont)**

Unscrew pivot lock handle (11) from pivot arm (12) and pivot (7). Separate pivot (7) from the pivot arm (12).



2NL0287

Remove two nuts (13) and two screws (14) from pivot arm (12). Note clamp is not removable; it is welded to the pivot arm (12). Separate traversing and elevating mechanism (T&E) (16) from the pivot arm (12).



2NL0288

**INSPECTION/REPAIR**

The T&E is a repairable assembly; refer to WP 0042 00.

Repair is by replacement of authorized parts.

**CLEANING**

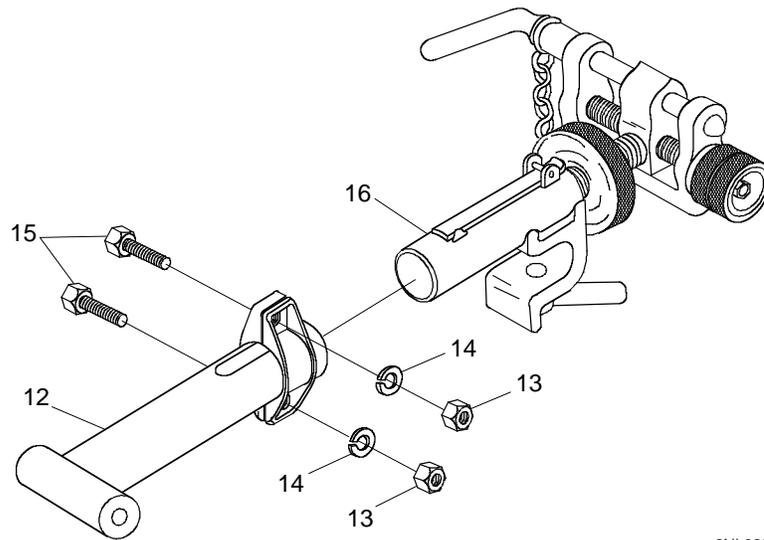
Clean all components with CLP, wipe dry and apply light coat of CLP.

**REFINISHING/LUBRICATION**

Clean area to be refinished with cleaning solvent, wipe dry, and touch-up with enamel paint. Allow to dry per manufacturer's instructions. Apply light coat of CLP.

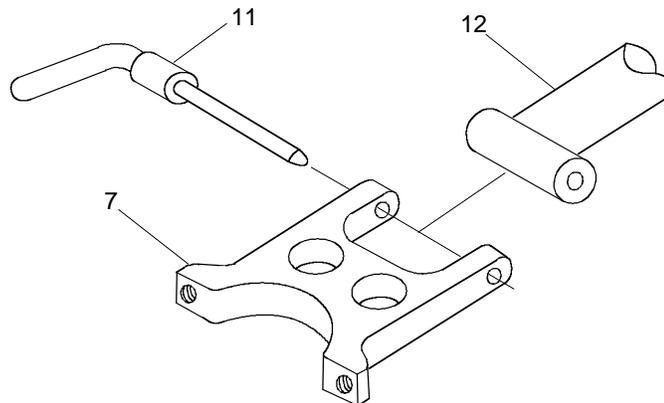
**ASSEMBLY**

Insert T&E (16) into pivot arm (12) as shown. Insert two screws (15) through the clamp and install two washers (14) and two nuts (13) on screws; tighten nuts (13)



2NL0288

Align pivot (7) with pivot arm (12); screw pivot lock handle (11) completely through both pivot (7) with pivot arm (12).



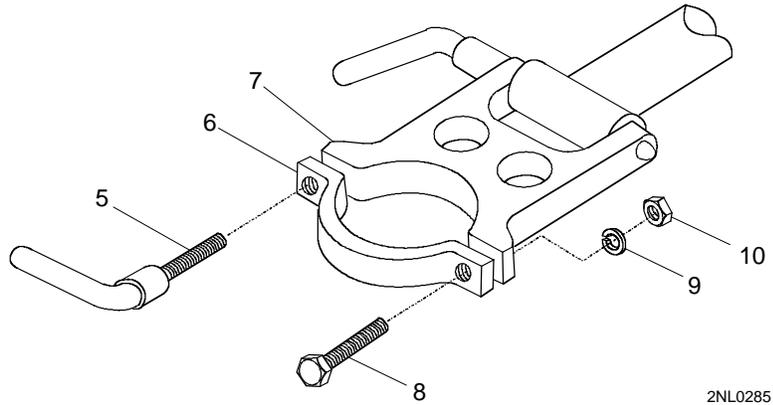
2NL0287

**UNIT MAINTENANCE FOR  
TRAIN AND ELEVATION ASSEMBLY, NSN 1010-01-151-6221, P/N 5830123  
(MARINE CORP ONLY) (cont)**

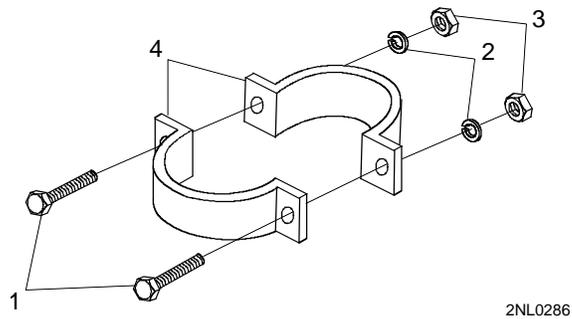
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**ASSEMBLY (cont)**

Align middle clamp (6) and pivot (7); insert screw (9) through right side of middle clamp (6) and pivot (7).  
Install washer (9) and nut (10).



Install two screws (1), two washers (2) and two nuts (3), on both upper and lower clamp assembly (4).



**END OF WORK PACKAGE**

**UNIT MAINTENANCE FOR  
MULTIPURPOSE AMMUNITION CAN BRACKET,  
NSN 5340-01-340-8471, P/N 12929150**

---

This task covers: a. Disassembly b. Inspection/Repair c. Cleaning  
d. Refinishing/Lubrication e. Assembly

**Tools and Special Tools:**

Tool Kit, Small Arms Repairman,  
PN SC 5180-95-B71

**Materials/Parts:**

Cleaner, lubricant and preservative, (CLP),  
(item 3, WP 0179 00)  
Enamel, Olive Green, (item 7, WP 0179 00)

**Materials/Parts (cont):**

Enamel, Sand, (item 8, WP 0179 00)  
Lubricant, Solid Film, (item 10, WP 0179 00)  
Rag, Wiping, (item 14, WP 0179 00)  
Solvent, Cleaning, (item 16, WP 0179 00)

**Equipment Condition:**

Mounting bracket removed from mount.

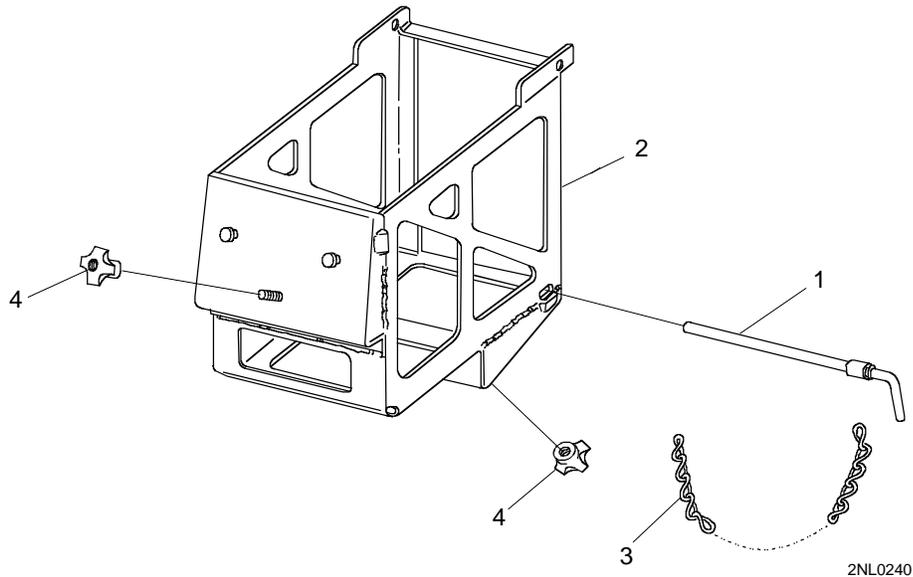
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**DISASSEMBLY**

Pull headed shoulder pin (1) from weldment bracket (2).

Using pliers spread ends of S-hooks and remove chain assembly (3) from headed shoulder pin (1) and weldment bracket (2).

Remove two hand-knobs (4).



**INSPECTION/REPAIR**

Inspect for broken, damaged, or missing parts.

If weldment bracket is broken or damaged, repair is by replacement of next higher assembly.

Repair is by replacement of authorized parts.

**UNIT MAINTENANCE FOR  
MULTIPURPOSE AMMUNITION CAN BRACKET,  
NSN 5340-01-340-8471, P/N 12929150 (CONT)**

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**CLEANING**

Clean all components with CLP, wipe dry and apply light coat of CLP.

**REFINISHING/LUBRICATION**

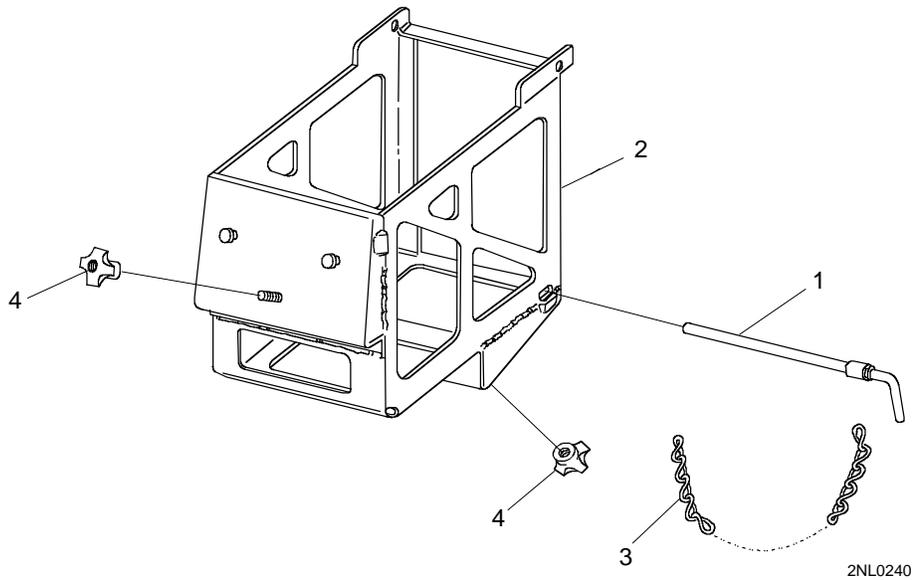
Clean area to be refinished with cleaning solvent, wipe dry, and touch-up with enamel paint. Allow to dry per manufacturer's instructions. Apply light coat of CPL.

**ASSEMBLY**

Install two hand-knobs (4) on weldment bracket (2).

Install chain assembly (3) in weldment bracket (2) and headed shoulder pin (1).

Install headed shoulder pin (1) in weldment bracket (2).



**END OF WORK PACKAGE**

**DIRECT SUPPORT MAINTENANCE**



**DIRECT SUPPORT MAINTENANCE FOR  
UNIVERSAL PINTLE ADAPTER, NSN 1010-01-445-6143, P/N 12012061;  
TRAVERSE ARM ASSEMBLY, NSN 5340-01-447-3245, P/N 6650488;  
AND UNIVERSAL PINTLE ADAPTER BODY ASSEMBLY, NSN N/A, P/N 12012062**

This task covers: a. Disassembly b. Inspection/Repair c. Reassembly

**INITIAL SETUP**

**Tools and Special Tools:**

Shop Set, Small Arms: Field  
Maintenance, Basic, Less Power,  
PN SC 4933-95-CL-A11  
Tool Kit, Small Arms Repairman,  
PN SC 5180-95-B71

**Materials/Parts (cont):**

Enamel, Sand, (item 8, WP 0179 00)  
Lubricant, Solid Film, (item 10, WP 0179 00)  
Rag, Wiping, (item 14, WP 0179 00)  
Sealing Compound (item 15, WP 0179 00)  
Solvent, Cleaning, (item 17, WP 0179 00)  
Spring, Pin, P/N MS16562-223

**Materials/Parts:**

Cleaner, lubricant and preservative, (CLP),  
(item 3, WP 0179 00)  
Enamel, Olive Green, (item 7, WP 0179 00)

**Equipment Condition:**

UPA removed from vehicle/tripod.

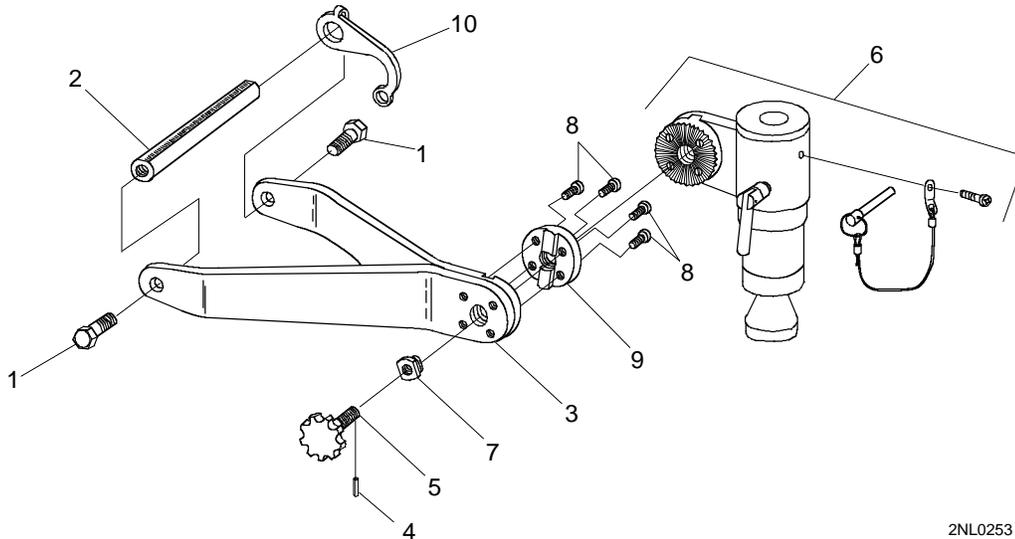
**DISASSEMBLY**

Remove two shoulder bolts (1), azimuth indicator (2) and travel lock (10) from adjustable arm (3).

Remove spring pin (4) from thumbscrew (5). Remove thumbscrew and adjustable arm (3) with assembled parts from universal pintle adapter body assembly (6).

Remove sleeve bushing (7) from adjustable arm (3).

Remove four machine screws (8) and retaining plate (9) from adjustable arm (3).



2NL0253

**DIRECT SUPPORT MAINTENANCE FOR  
UNIVERSAL PINTLE ADAPTER, NSN 1010-01-445-6143, P/N 12012061;  
TRAVERSE ARM ASSEMBLY, NSN 5340-01-447-3245, P/N 6650488;  
AND UNIVERSAL PINTLE ADAPTER BODY ASSEMBLY, NSN N/A, P/N 12012062 (cont)**

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**DISASSEMBLY (cont)**

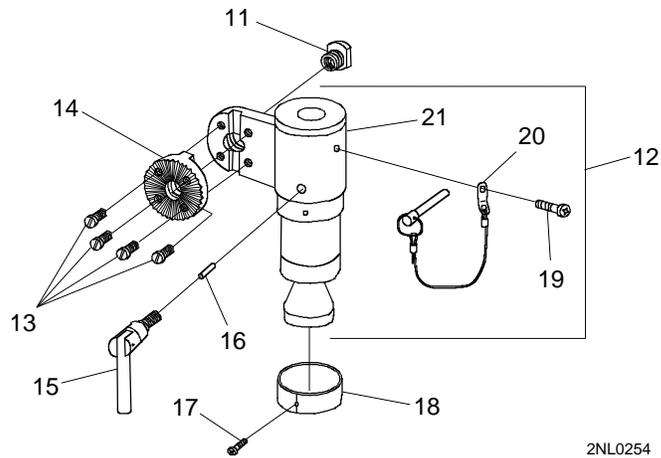
Remove sleeve bushing (11) from body (12).

Remove four machine screws (13) and retaining plate (14) from body (12).

Unscrew manual control handle (15) from body (12) and remove headless straight pin (16).

Remove retainer screw (17) and split sleeve (18).

Loosen and remove machine screw (19) and quick release pin assembly (20) from body (21).



**INSPECTION/REPAIR**

Inspect for broken, damaged, or missing parts.

If body is broken or damaged, repair is by replacement of next higher assembly.

Repair is by replacement of authorized parts.

**CLEANING**

Clean all components with CLP, wipe dry and apply light coat of CLP.

**REFINISHING/LUBRICATION**

Clean area to be refinished with cleaning solvent, wipe dry, and touch-up with enamel paint. Allow to dry per manufacturer's instructions. Apply light coat of CPL.

**ASSEMBLY**

**NOTE**

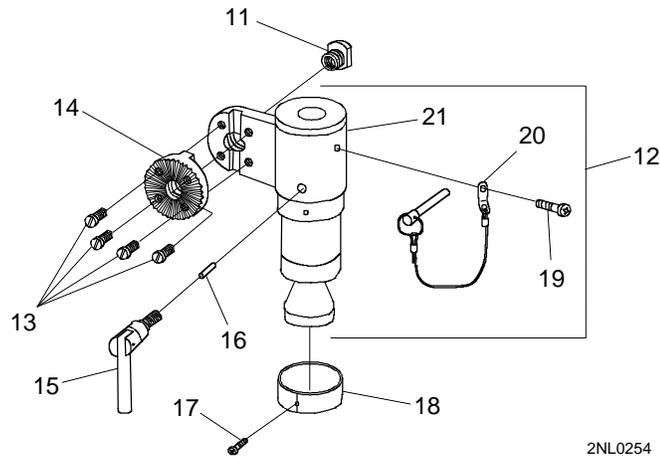
Do not over tighten manual control handle when the universal pintle adapter is not installed on mount, as the pawl will spread the split ring out of round.

Install headless straight pin (16) and screw manual control handle (15) into body (21).

Slide split sleeve (18) onto body (21) and install retaining screw (17).

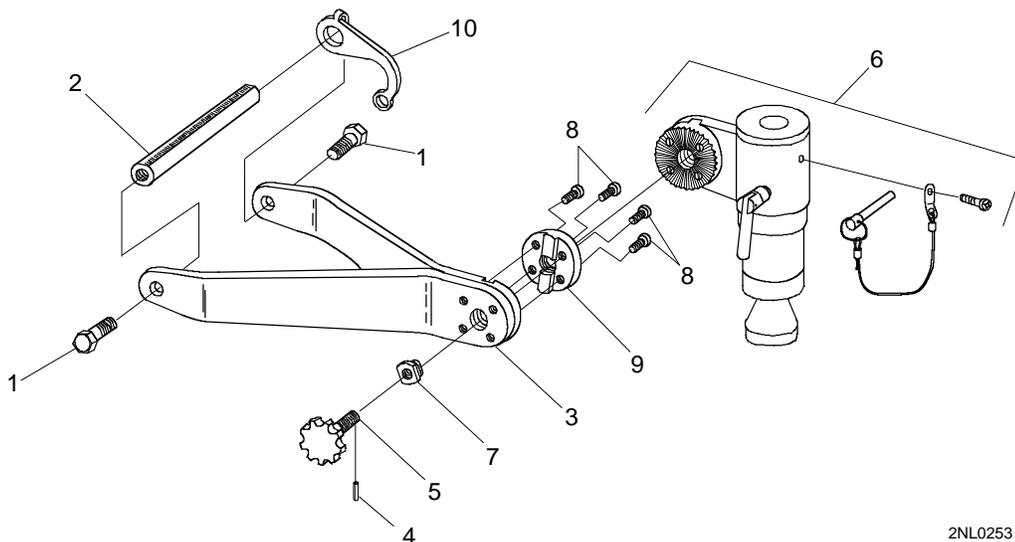
Align retaining plate (14), with inscribed markings and single white dot facing away from arm of body (21). Apply sealing compound to four machine screws (13) and secure retaining plate (14) to body (21).

Install sleeve bushing (11) onto body (21).



Install retaining plate (9) with inscribed markings and white dot facing the azimuth indicator (2).

Install sleeve bushing (7) into adjustable arm (3).



**DIRECT SUPPORT MAINTENANCE FOR  
 UNIVERSAL PINTLE ADAPTER, NSN 1010-01-445-6143, P/N 12012061;  
 TRAVERSE ARM ASSEMBLY, NSN 5340-01-447-3245, P/N 6650488;  
 AND UNIVERSAL PINTLE ADAPTER BODY ASSEMBLY, NSN N/A, P/N 12012062 (cont)**

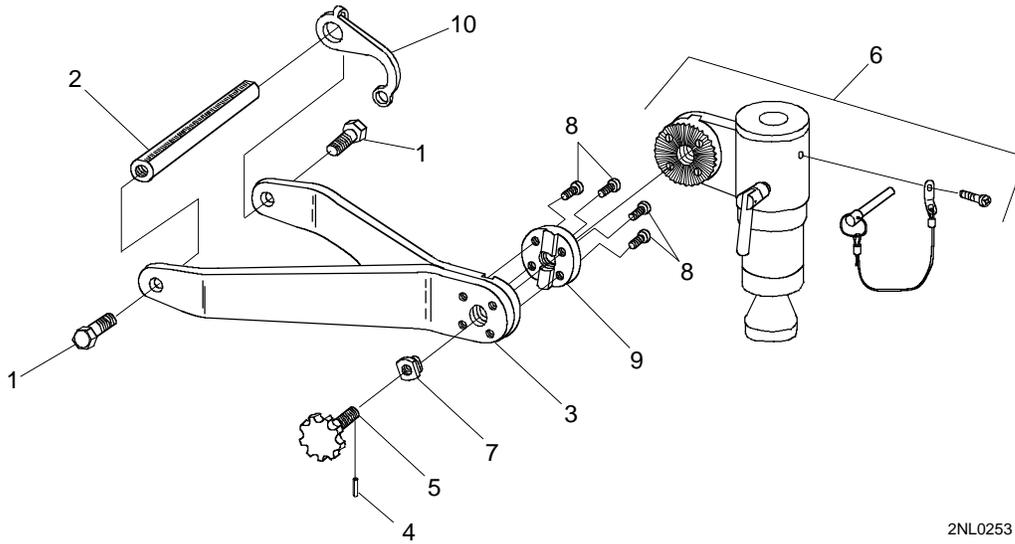
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**ASSEMBLY (cont)**

Install adjustable arm (3), with white dots on retaining plates aligned, on body assembly (6).

Screw in thumbscrew (5) and install new spring pin (4), leaving equal lengths protruding.

Install azimuth indicator (2) and travel lock (10) on adjustable arm (3) and secure with two shoulder bolts (1). Ensure the indicator markings face outward. Azimuth indicator will still rotate when fully tightened.



2NL0253

**END OF WORK PACKAGE**

**DIRECT SUPPORT MAINTENANCE FOR  
CRADLE AND BUSHING ASSEMBLY, NSN 1010-01-151-6231, P/N 5830134 AND  
DEPRESSION STOP, NSNA, P/N N/A**

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This task covers: a. Disassembly b. Inspection/Repair c. Assembly

**INITIAL SETUP**

**Tools and Special Tools:**

Shop Set, Small Arms: Field  
Maintenance, Basic, Less Power,  
PN SC 4933-95-CL-A11  
Tool Kit, Small Arms Repairman,  
PN SC 5180-95-B71

**Materials/Parts:**

Cleaner, lubricant and preservative, (CLP),  
(item 3, WP 0179 00)  
Enamel, Olive Drab, (CARC)  
(item 6, WP 0179 00)

**Materials/Parts (cont):**

Enamel, Brown, (CARC) (item 5, WP 0179 00)  
Lubricant, Solid Film, (item 10, WP 0179 00)  
Machine Bolt, P/N MS90725-39  
Nut, Plain Hex, P/N 51967-5  
Rag, Wiping, (item 14, WP 0179 00)  
Sealing Compound, (item 16, WP 0179 00)  
Solvent, Cleaning, (item 17, WP 0179 00)

**Equipment Condition:**

Cradle and carriage assembly removed from  
vehicle/tripod.

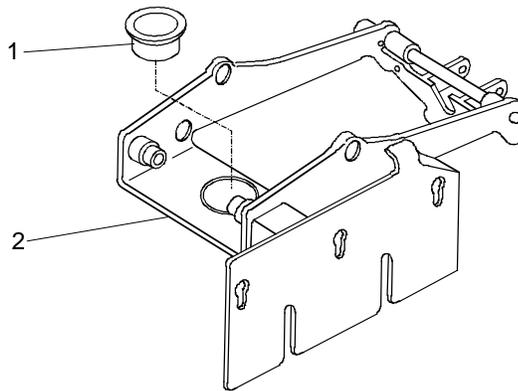
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**DISASSEMBLY**

**NOTE**

Remove pintle bushing only for replacement.

If necessary, heat area around pintle bushing (1) with a blowtorch to loosen sealing compound. Press pintle bushing out of cradle (2) using a shop press, follow standard shop procedures.



2NL0252

**DIRECT SUPPORT MAINTENANCE FOR  
CRADLE AND BUSHING ASSEMBLY, NSN 1010-01-151-6231, P/N 5830134 AND  
DEPRESSION STOP, NSNA, P/N N/A (cont)**

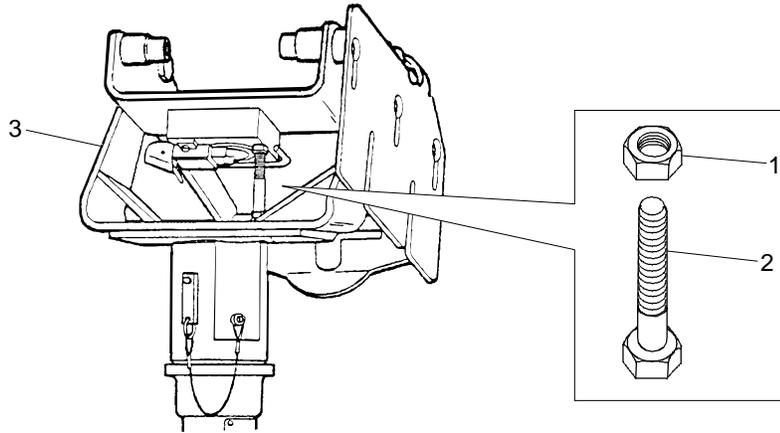
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**WARNING**

Depression stop must be installed when firing the MK19 MOD 3 during training. If not installed the weapon can depress below the safety limit (200 meters elevation), endangering personnel.

Using a wrench loosen plain hex nut (1) from the end of hexagon head machine bolt (2) while holding the bolt with a second wrench.

Remove hexagon head machine bolt (2) from block on bottom of cradle (3).



2NL0255

**INSPECTION/REPAIR**

Replace pintle bushing (1) if damaged, or if it will not hold the M2, .50 caliber, pintle firmly in place, while allowing it to swivel on the mount.

Replace damaged or missing parts.

**CLEANING**

Clean all components with CLP, wipe dry and apply light coat of CLP.

**REFINISHING/LUBRICATION**

Clean area to be refinished with cleaning solvent, wipe dry, and touch-up with enamel paint. Allow to dry per manufacturer's instructions. Apply light coat of CPL.

**ASSEMBLY**

**WARNING**

Cleaning solvent is **FLAMMABLE** and **TOXIC** and must be kept away from open flames and used in a well-ventilated area. Use of rubber gloves is necessary to protect the skin when washing weapons parts.

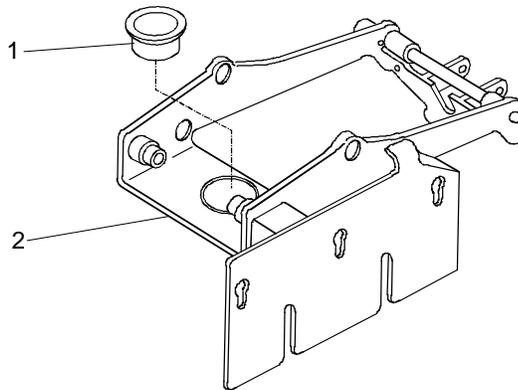
Appropriate eye protection is recommended when cleaning parts.

Using cleaning solvent, clean contact surfaces of pintle bushing (1).

Apply sealing compound to outer surfaces of pintle bushing (1).

Press pintle bushing (1) into cradle (2) until the lip is flush with cradle.

If heat was used to remove old pintle, prime and repaint the area around pintle bushing (1).

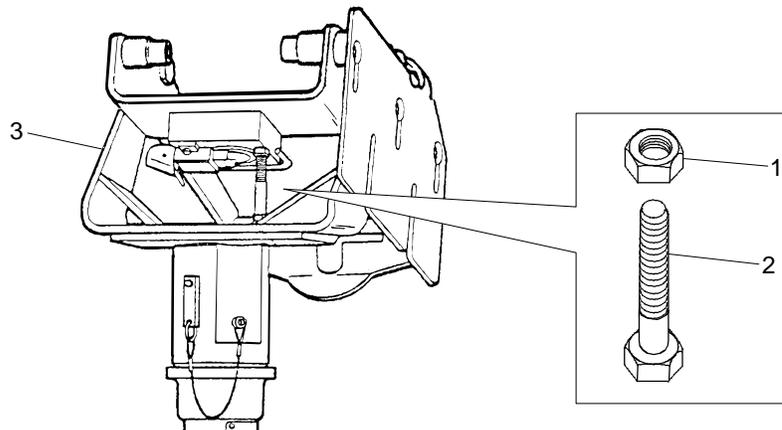


2NL0252

Install plain hex nut (1) approximately one inch down threads of hexagon head machine bolt (2).

Install threaded end of hexagon head machine bolt (2) into block on bottom of cradle (3).

Using a wrench tighten plain hexagon nut (1) securely against block (3) while holding hexagon head machine bolt (2) with a second wrench.



2NL0255

**END OF WORK PACKAGE**

0102 00-3/4 blank



**DIRECT SUPPORT MAINTENANCE FOR  
PINTLE LOCK ASSEMBLY, NSN 1010-01-151-6232, P/N 5830116**

This task covers: a. Disassembly b. Inspection/Repair c. Assembly

**INITIAL SETUP**

**Tools and Special Tools:**

- Shop Set, Small Arms: Field Maintenance, Basic, Less Power, PN SC 4933-95-CL-A11
- Tool Kit, Small Arms Repairman, PN SC 5180-95-B71

**Materials/Parts (cont):**

- Enamel, Olive Drab, (CARC) (item 6, WP 0179 00)
- Enamel, Brown, (CARC) (item 5, WP 0179 00)
- Lubricant, Solid Film, (item 10, WP 0179 00)
- Rag, Wiping, (item 14, WP 0179 00)
- Rivet, Solid, P/N MS 9390-201
- Sealing Compound (item 16, WP 0179 00)
- Solvent, Cleaning, (item 17, WP 0179 00)

**Materials/Parts:**

- Cleaner, lubricant and preservative, (CLP), (item 3, WP 0179 00)

**DISASSEMBLY**

**WARNING**

To avoid injury to eyes, use care when removing or installing spring-loaded parts.

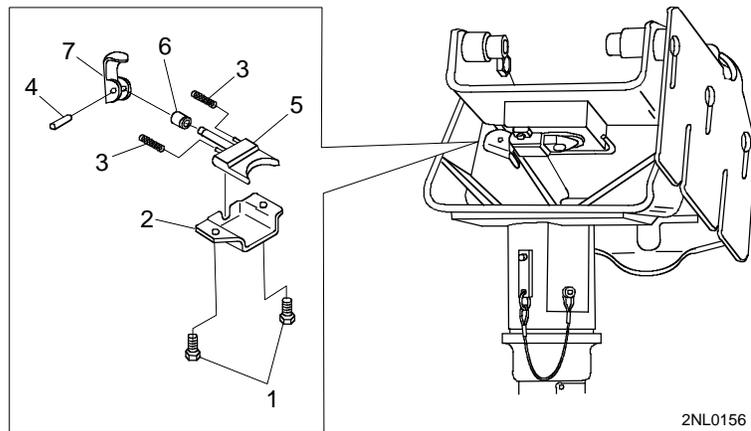
Remove two hexagon head cap screws (1). Heat area with blowtorch to loosen sealing compound if necessary.

Lift lock housing (2) and remove two helical compression springs (3).

Lift out assembled pintle lock components (4 through 7).

Position punch under head of solid rivet (4) and hit with hammer to break off head of solid rivet; then pull out stem and discard.

Remove lock body (5), spacing collar (6), and release cam (7).



**DIRECT SUPPORT MAINTENANCE FOR  
PINTLE LOCK ASSEMBLY, NSN 1010-01-151-6232, P/N 5830116 (cont)**

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**INSPECTION/REPAIR**

**NOTE**

If helical compression springs are damaged or weak, they shall be replaced as a set.

Replace damaged or missing parts.

**CLEANING**

Clean all components with CLP, wipe dry and apply light coat of CLP.

**REFINISHING/LUBRICATION**

Clean area to be refinished with cleaning solvent, wipe dry, and touch-up with enamel paint. Allow to dry per manufacturer's instructions. Apply light coat of CPL.

**ASSEMBLY**

**WARNING**

Cleaning solvent is **FLAMMABLE** and **TOXIC** and must be kept away from open flames and used in a well-ventilated area. Use of rubber gloves is necessary to protect the skin when washing weapons parts.

Appropriate eye protection is recommended when cleaning parts.

Using cleaning solvent, clean threads of two hexagon head cap screws (1).

Assemble lock body (5), spacing collar (6), and release cam (7).

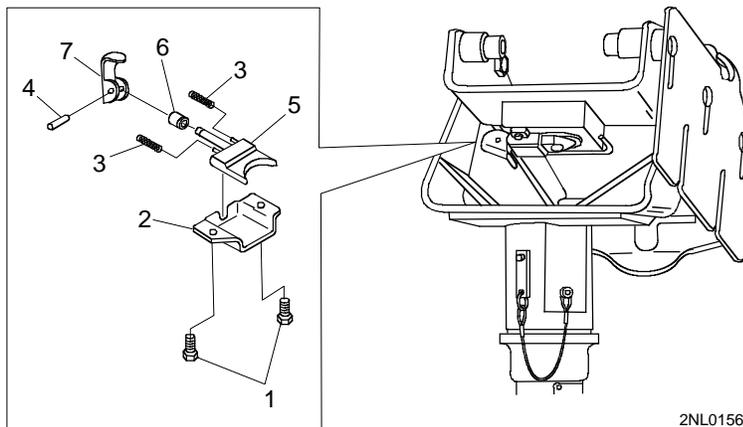
Install new solid rivet (4) through holes in lock body (5), spacing collar (6), and release cam (7).

**NOTE**

The solid rivet should secure the pintle lock components with relative movement between them.

Peen ends of solid rivet (4).

Apply sealing compound to threads of two hexagon head cap screws (1).



2NL0156

**WARNING**

To avoid injury to eyes, use care when removing or installing spring-loaded parts.

Assemble pintle lock components (4 through 7) and two helical compression springs (3) in lock housing (2).

Position (2) against the block on the bottom of cradle (8) with screw holes aligned.

Install and tighten two hexagon head cap screws (1).

**TEST/INSPECTION**

Check operation by raising and lowering release cam. Spring cam should be smooth with no binding. If pintle lock assembly binds or is loose, disassemble and replace damaged parts.

**END OF WORK PACKAGE**



**DIRECT SUPPORT MAINTENANCE FOR  
TRAIN AND ELEVATION ASSEMBLY, NSN 1010-01-151-6221, P/N 5830123**

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For direct support maintenance of the T&E mechanism refer to WP 0046 00.

All other maintenance is accomplished at unit level.

**END OF WORK PACKAGE**

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**CHAPTER 9**

**MK 93 MOD 1 MACHINE GUN MOUNT**

**AND**

**MK 93 MOD 2 MACHINE GUN MOUNT**



**TM 9-1005-245-13&P**

**OPERATOR  
INSTRUCTIONS**

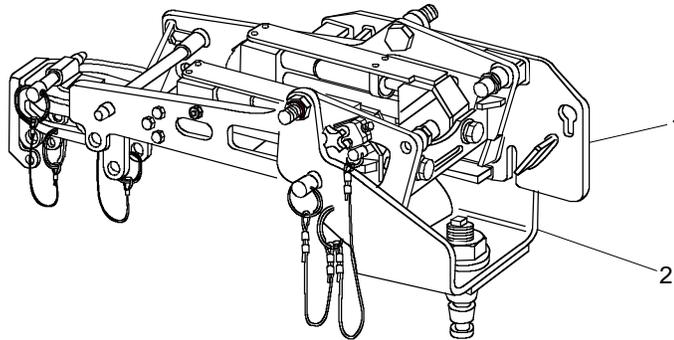
TM 9-1005-245-13&P

**EQUIPMENT DESCRIPTION AND DATA**  
**MK93 MOD 1 AND MK93 MOD 2 MACHINE GUN MOUNTS**

**EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES**

**CARRIAGE AND CRADLE ASSEMBLY**

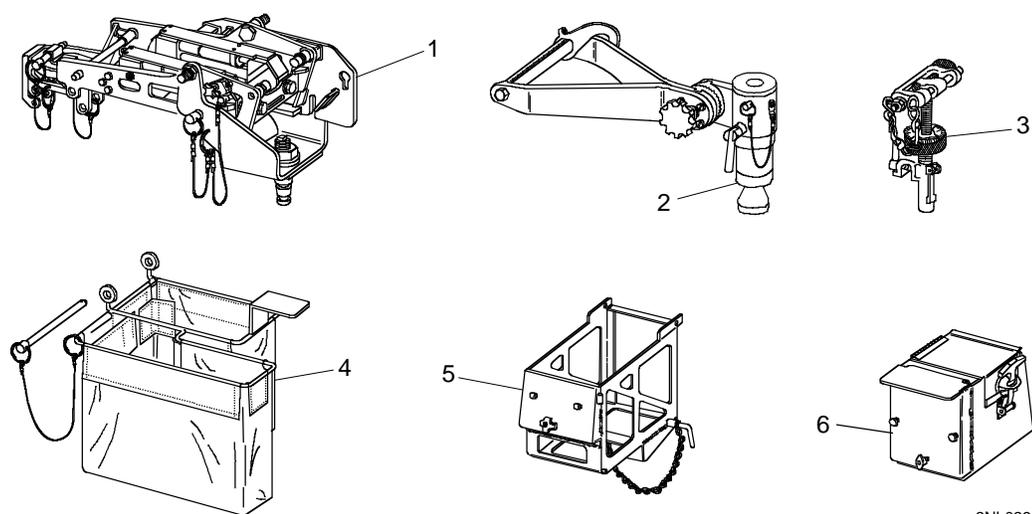
Component assembly designed as a defensive ground mount for the MK19 MOD 3 and M2 HB machine guns onto the M3 tripod and vehicle applications. Composed of a carriage assembly (1) and cradle assembly (2).



2NL0257

**MK93 MOD 1 MACHINE GUN MOUNT AND MK93 MOD 2 MACHINE GUN MOUNT**

Component assembly designed as a defensive mount for the MK19 MOD 3 and M2 HB machine guns onto the M3 tripod and various vehicle rings and pedestals. Composed of the carriage and cradle assembly (1), universal pintle adapter (UPA) (2), traverse and elevating mechanism (T&E) (3), catch bag assembly (4), mounting bracket (5), and .50 caliber ammo holder assembly. The MK93 MOD 2 has an integrated pintle for sturdier mounting.

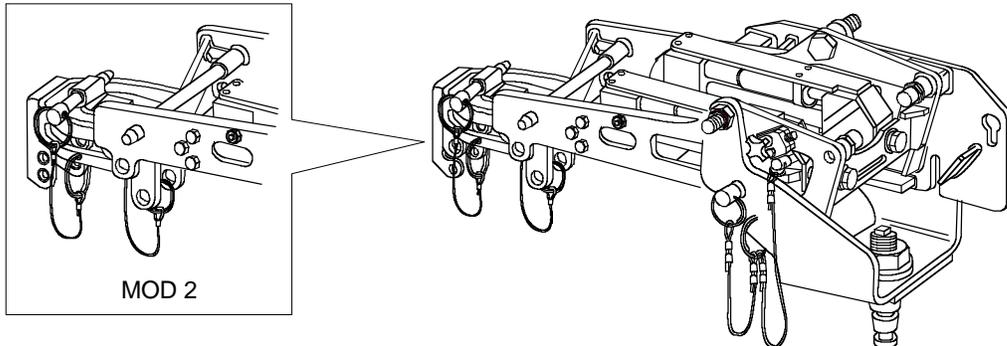


2NL0291

**EQUIPMENT DESCRIPTION AND DATA  
FOR MK93 MOD 1 AND MK93 MOD 2 MACHINE GUN MOUNTS (cont)**

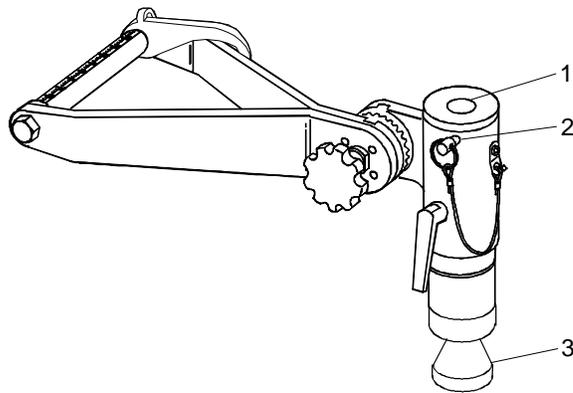
**LOCATION AND DESCRIPTION OF MAJOR COMPONENTS**

**CARRIAGE AND CRADLE ASSEMBLY (1)** - Provides a means of traversing and elevating an installed weapon. It can be configured to mount the MK19 MOD 3, 40mm, grenade machine gun (GMG), or the M2 heavy barrel (HB), .50 caliber machine gun. No modification to either weapon is required when changing from one weapon to the other. The carriage and cradle has a small bolt-on pintle, which allows it to be used in the standard small sockets (i.e., M3 tripod mount or universal pintle adapter).



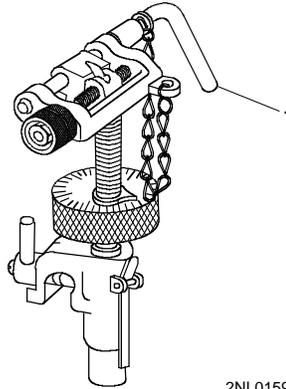
2NL0259

**UNIVERSAL PINTLE ADAPTER (2)** - The universal pintle adapter (UPA) allows the carriage and cradle to fit on all vehicle machine gun pedestals, stands, or rings listed in this manual. The hole (1) in the upper end of the UPA is shaped to fit the pintle on the carriage and cradle assembly. The UPA is equipped with a pin and cable assembly (2) to secure the pintle in the adapter. The lower end (3) is shaped to fit the mounting hole in the upper end of the M6 pedestal, HMMWV ring pedestal, M66 ring, MK16 MOD 0 stand, M109 Series and FAASV. It is secured by the pintle lock on the vehicle pedestal, ring, or stand.



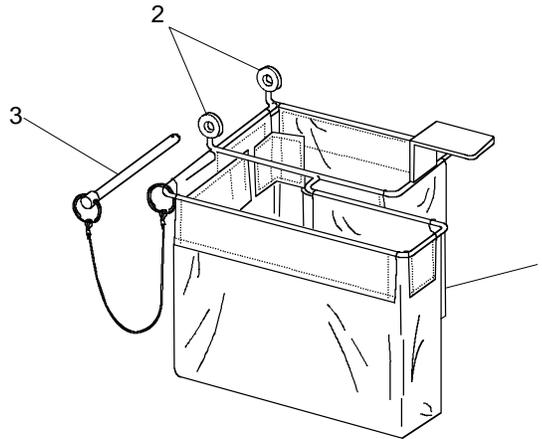
2NL0158

**ELEVATION MECHANISM ASSEMBLY (3)** - The elevation mechanism assembly is use to secure the carriage and cradle to the UPA, and to provide mechanical fire control adjustments. The elevation mechanism assembly is attached to the lower rear holes in the carriage and cradle by a handle (1).



2NL0159

**CATCH BAG ASSEMBLY (4)** - The Catch bag assembly is used to catch empty cartridge cases as they eject from the bottom of the MK19 MOD 3 or M2 machine gun. The catch bag (1) is made of rubberized canvas. It is held in place by a metal frame that attaches to the bottom of the cradle under the machine guns receiver by left and right rear loops (2) and a release pin (3). The catch bag assembly should be emptied regularly to prevent possible interference with weapon operation.



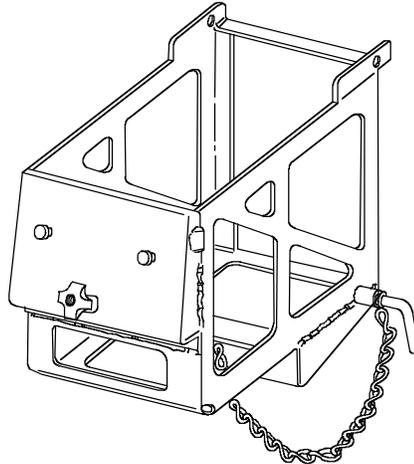
2NL0292

**EQUIPMENT DESCRIPTION AND DATA  
FOR MK93 MOD 1 AND MK93 MOD 2 MACHINE GUN MOUNTS (cont)**

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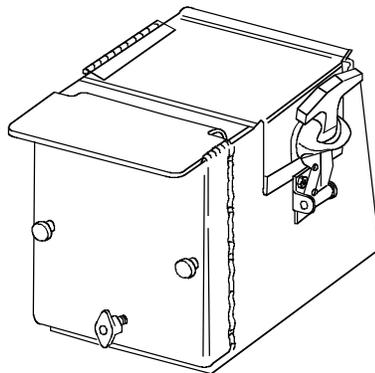
**LOCATION AND DESCRIPTION OF MAJOR COMPONENTS (cont)**

**MULTIPURPOSE AMMUNITION CAN BRACKET ASSEMBLY (5)** - The multipurpose ammunition can bracket assembly provides a bracket that can carry two different size ammunition cans of 40MM ammunition.



2NL0167

**.50 CALIBER AMMO HOLDER ASSEMBLY (6)** - The holder assembly provides a means of containing a box of .50 caliber ammunition. The holder assembly has a locking lid for containment with an opening for feed of ammunition. The assembly mounts using pins and a locking nut to the ammo bracket of the carriage and cradle assembly.



2NL0293

**DIFFERENCES BETWEEN MODELS**

Not Applicable

**EQUIPMENT DATA**

MK93 MOD 1 Machine Gun Mount (6650717)

Weight ..... 135.00 lb (61.23 kg)  
Elevation ..... +67 degrees (1190 mil)  
Depression ..... -27 degrees (480mil)

MK93 MOD 2 Machine Gun Mount (13001175)

Weight ..... 135 lbs (61.23 kg)  
Elevation ..... +67 degrees (1190 mil)  
Depression ..... -27 degrees (480mil)

**DESCRIPTION AND USE OF OPERATOR'S CONTROLS AND INDICATORS**

Not Applicable.



**OPERATOR INSTRUCTION  
THEORY OF OPERATION**

---

The MK 93 Mod 1 & 2 provide a means of traversing and elevating an installed weapon through the use of a T&E mechanism attached to the Universal Pintle Adapter. The MK93 Mod 1 & 2 has the capability of mounting both the MK19 GMG and M2 machine gun without additional adapters. The MK93 Carriage and Cradle inserts into either the pintle socket of the Universal Pintle Adapter or the brass bushing on the head of the M3 Tripod. The Universal Pintle Adapter has a large pintle for mounting into the sockets of pedestal, rings, or vehicle sockets. The MK93 Mod 1 & 2 contain a depression stop to prevent the range of fire from coming too close to the vehicle. The MK93 Mod 1 & 2 also contain a catch bag assembly to keep spent cartridges from dropping into the cab of vehicles.



**TROUBLESHOOTING PROCEDURES FOR  
MK93 MOD 1 MACHINE GUN MOUNT AND  
MK93 MOD 2 MACHINE GUN MOUNT**

---

**Table 1. Troubleshooting Procedures for  
MK 93 Machine Gun Mount (MOD 1 and 2)****CARRIAGE AND CRADLE ASSEMBLY****SYMPTOM**

Pintle will not insert into the universal pintle adapter.

**MALFUNCTION**

Check for burrs/damage to pintle.

**CORRECTIVE ACTION**

Remove burrs. Notify unit for maintenance/repair.

**MALFUNCTION**

Cradle will not elevate/depress.

**CORRECTIVE ACTION**

Clean and remove any rust; lubricate. If problem still exist, notify unit maintenance.

**MALFUNCTION**

Weapon will not mount to cradle.

**CORRECTIVE ACTION**

Clean and remove any rust; lubricate. Notify unit maintenance.

**CORRECTIVE ACTION**

Ensure headless shoulder pins are present and undamaged.

**UNIVERSAL PINTLE ADAPTER (UPA)****SYMPTOM**

Pintle will not insert into socket.

**MALFUNCTION**

Check for burrs/damage to pintle

**CORRECTIVE ACTION**

Clean and remove any rust; lubricate. If problem still exist, notify unit maintenance.

**TROUBLESHOOTING PROCEDURES FOR  
MK93 MOD 1 MACHINE GUN MOUNT AND  
MK93 MOD 2 MACHINE GUN MOUNT (cont)**

---

**Table 1. Troubleshooting Procedures for  
MK 93 Machine Gun Mount (MOD 1 and 2) (cont)**

**UNIVERSAL PINTLE ADAPTER (cont)**

**SYMPTOM**

UPA will not lock into socket.

**MALFUNCTION**

Check for missing/damaged manual control lever.

**CORRECTIVE ACTION**

Notify unit maintenance.

**MALFUNCTION**

Adjustable arm will not adjust/lock.

**CORRECTIVE ACTION**

Loosen thumbscrew and check on retaining plates. Teeth should have crisp edges, not round off.  
Notify unit maintenance for repair.

**.50 CALIBER HOLDER ASSEMBLY**

**SYMPTOM**

Holder will not connect to mount.

**MALFUNCTION**

Check pins and locking nut for damage.

**CORRECTIVE ACTION**

Notify unit maintenance.

**SYMPTOM**

Cover will not latch.

**MALFUNCTION**

Check for missing/damaged machine screw and/or self-locking nut. Check latch/bracket for damage.

**CORRECTIVE ACTION**

Notify unit maintenance.

**MULTIPURPOSE AMMUNITION BRACKET ASSEMBLY**

**SYMPTOM**

Bracket assembly will not mount.

**MALFUNCTION**

Check pins/thumbcrew for damage.

**CORRECTIVE ACTION**

Notify unit maintenance.

**END OF WORK PACKAGE**



**PREVENTIVE MAINTENANCE CHECKS AND SERVICES  
FOR MK93 MACHINE GUN MOUNT (MOD 1 and 2)**

**Table 1. Preventive Maintenance Checks and Services for  
MK93 Machine Gun Mount (MOD 1, and 2)**

Item	Interval	Man-Hours	Item to be Checked	Procedures	Not Fully Mission Capable if:
1	Before/ After		Carriage/ Cradle	Check for missing/damaged quick release pin or retainer pin; broken/missing cables.	Pins and/or cables are missing/damaged.
				Check for missing/damaged cotter pins, nuts, bolts, and/or screws.	Parts are missing/broken or prevent safe operation of mount.
				Check for missing/damaged mounting plate on cradle and bushing assembly. Ensure key slots are not elongated and plate is not bent.	Mounting plate is missing/damaged. Key slots are elongated or plate is bent.
				Check for missing or damaged hex nut and depression stop (bolt).	Hex nut and/or depression stop (bolt) are missing/damaged.
				Check entire mount assembly for rust, shiny surfaces.	Mount is rusty and unable to function.
2	Before/ After		Universal Pintle Adapter	Check for inoperable or missing traverse arm assembly.	Traverse arm assembly is inoperable or missing.
				Check body for damage.	Body will not insert into pintle socket.
				Check for damaged/missing retaining plates, azimuth indicator, thumbscrews, manual control handle, travel lock and/or split rings.	Hardware is damaged or missing.
3	Before/ After		Elevation mechanism Assembly	Check traverse and elevation axis for smooth operation. Turn axis knobs through full range of movement to ensure nothing sticks. Listen for an audible click.	Mechanism sticks during rotation or an audible click cannot be heard.
				Check manual control locking lever for functionality.	Manual Control lever will not lock on traverse bar.
4	Before/ After		Catch Bag Assembly	Check frame for bends or breaks.	Catch bag frame is damaged so that proper installation is prevented.
				Check bag for tears and/or split seams.	Bag will not hold spent casings.

**PREVENTIVE MAINTENANCE CHECKS AND SERVICES  
FOR MK93 MACHINE GUN MOUNT (MOD 1 and 2) (cont)**

**Table 1. Preventive Maintenance Checks and Services for  
MK93 Machine Gun Mount (MOD 1, and 2)(cont)**

Item	Interval	Man-Hours	Item to be Checked	Procedures	Not Fully Mission Capable if:
5	Before/ After		Ammunition Chest	<p>Check latch for functionality.</p> <p>Check pins and knobs for bends, cracks, or breaks.</p>	<p>Latch will not hold top closed.</p> <p>Pins/knob damaged so as not to allow correct mounting of ammo chest.</p>
6	Before/ After		Multipurpose Ammunition Can Bracket Assembly	<p>Check for bent, bowed, or damaged weldment bracket; cracks in welded areas; elongated pinholes and/or missing hardware.</p>	<p>Bracket bent, bowed, or damaged. Cracks in welds, pinholes elongated and/or missing hardware.</p>

**END OF WORK PACKAGE**

**OPERATOR INSTRUCTION AND INSTALLATION PROCEDURES FOR  
M1025/M1026/M1114 HMMWV ARMAMENT CARRIER'S RING AND  
M939 LIGHTWEIGHT RING**

---

Components used for this installation are:

MK93 mod 0, P/N 6650450

T&E Assembly, P/N 5830128

Universal Pintle Adapter, P/N 12010961

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**WARNING**

Catch bag shall be installed when mounted on a vehicle to prevent spent casings from entering cab area.

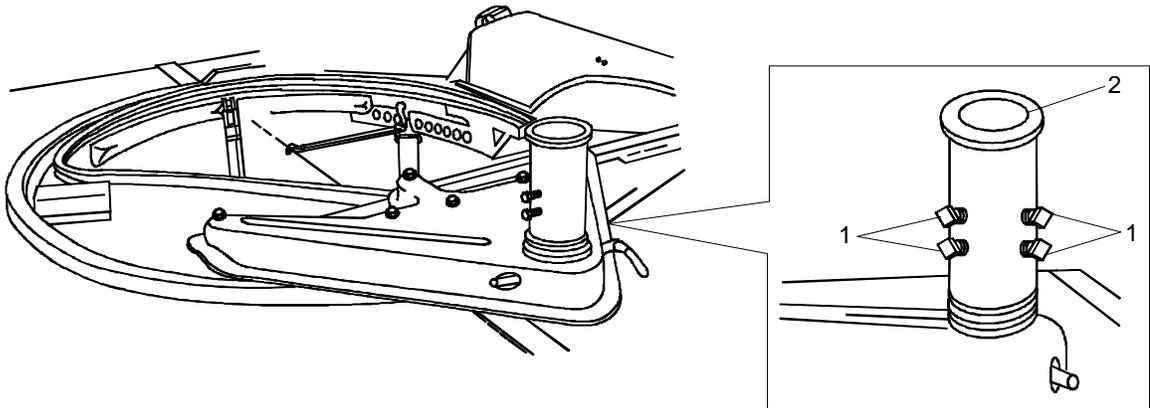
**NOTE**

Only the HMMWV Armament Ring is shown for illustration purposes. Mounting procedures for the M939 LWRM are the same.

For mounting of UPA to M6/M7 Pedestal refer to WP 0082 00.

**PLACING INTO OPERATION**

Using a wrench, loosen the four lock screws (1) by turning counterclockwise until threaded ends are flush with HMMWV pedestal's inner wall (2).



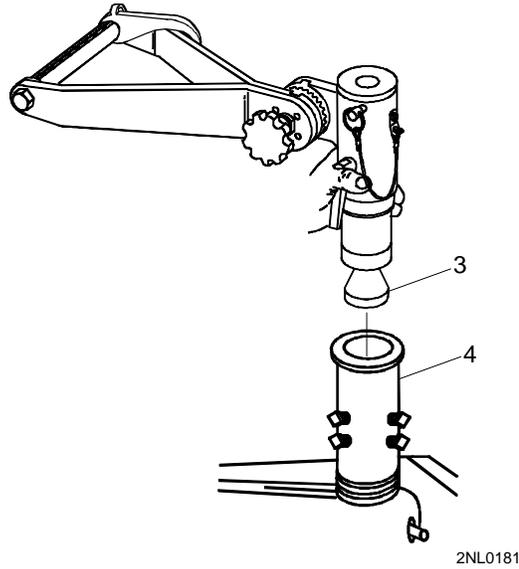
2NL0180

**OPERATOR INSTRUCTION AND INSTALLATION PROCEDURES FOR  
M1025/M1026/M1114 HMMWV ARMAMENT CARRIER'S RING AND  
M939 LIGHTWEIGHT RING MOUNT (cont)**

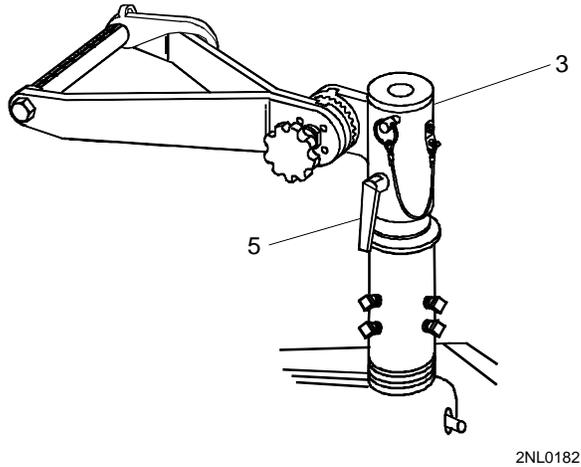
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**PLACING INTO OPERATION (cont)**

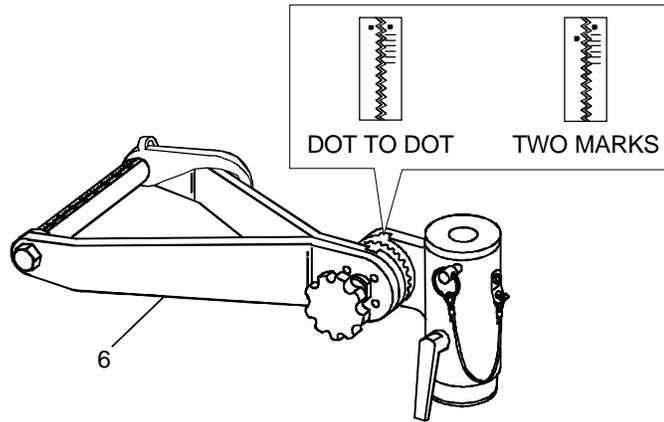
Insert UPA (3) into HMMWV pedestal (4).



Tighten manual control handle (5). Pull upward on the UPA (3) to ensure it is secured in place.

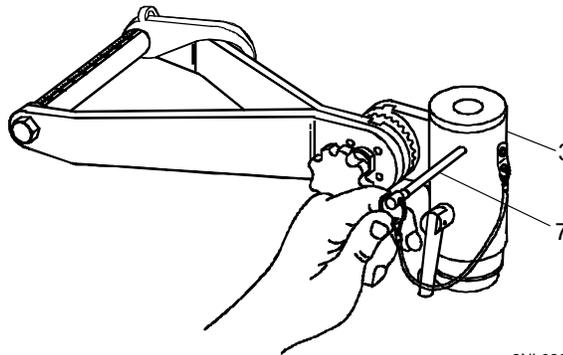


Rotate traverse arm assembly (6) upward two marks above normal "dot to dot" stowed position.



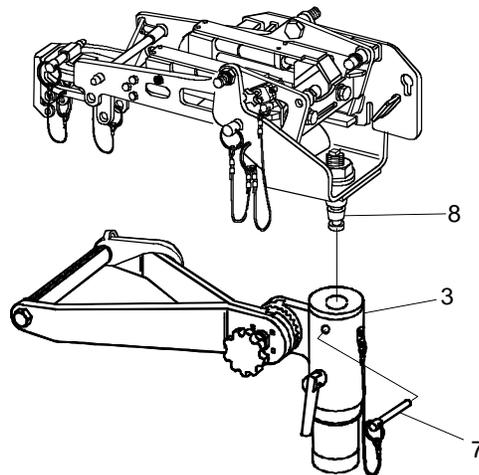
2NL0262

Remove quick release pin (7) from UPA (3).



2NL0263

Insert carriage pintle (8) into top of the UPA (3). Insert the quick release pin (7) into UPA (3). Pull upward and twist MK93 MOD 0, it should be locked into the UPA, but should traverse freely left and right.

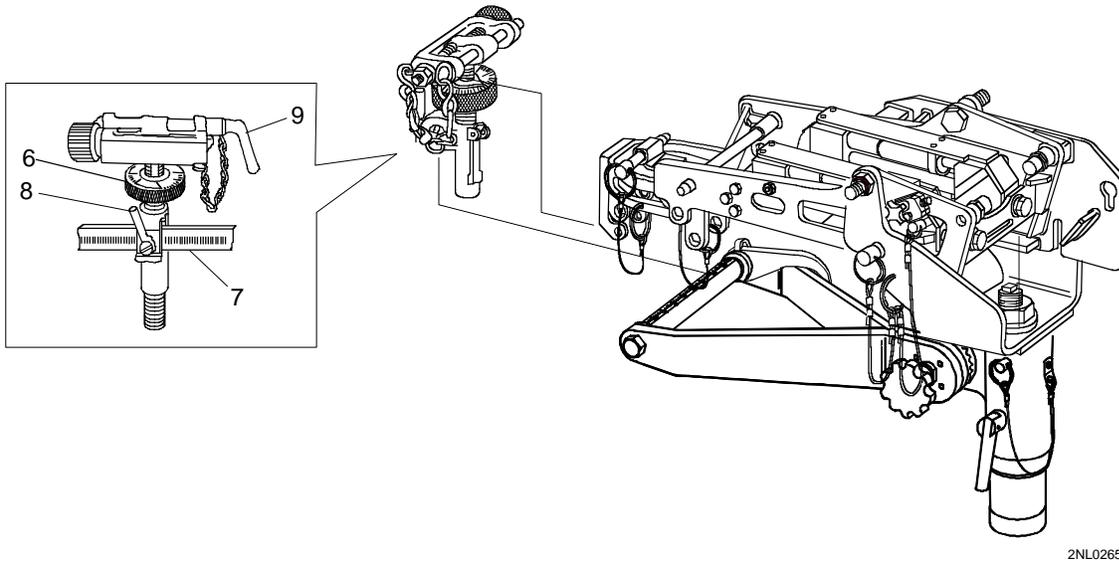


2NL0264

**OPERATOR INSTRUCTION AND INSTALLATION PROCEDURES FOR  
M1025/M1026/M1114 HMMWV ARMAMENT CARRIER'S RING AND  
M939 LIGHTWEIGHT RING MOUNT (cont)**

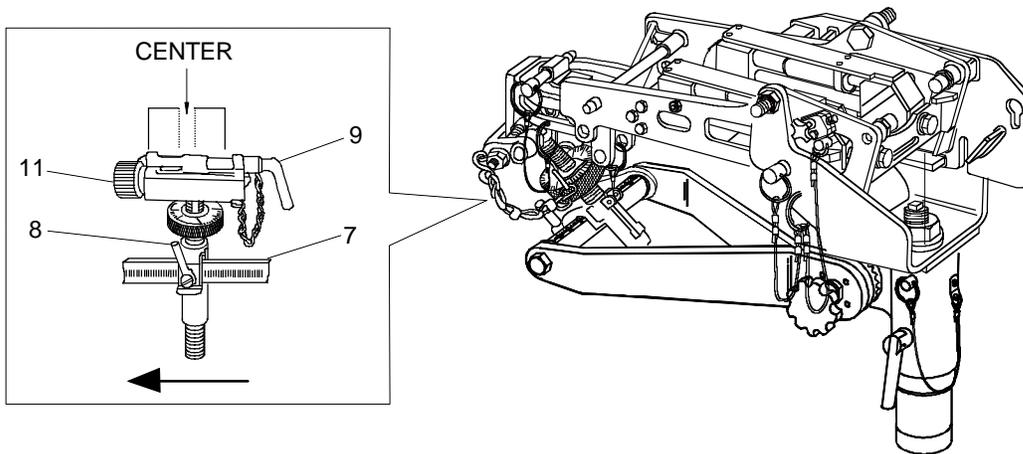
**PLACING INTO OPERATION (cont)**

Rotate elevating hand-wheel (6) of T&E mechanism assembly until T&E is near the fully compressed (short) length (no more than 5 threads showing). Place T&E on left side of azimuth indicator (7) and loosely clamp with traversing slide lock lever (8). Pin T&E to cradle with handle (9).



2NL0265

Center traversing adjustment of T&E using traversing hand-wheel (11). Pull the handle (9) halfway out and loosen traversing slide lock lever (8) on T&E. Slide T&E to the left side of azimuth indicator (7).



2NL0267

**INSTALLATION OF MK19 GMG TO CARRIAGE AND CRADLE ASSEMBLY**

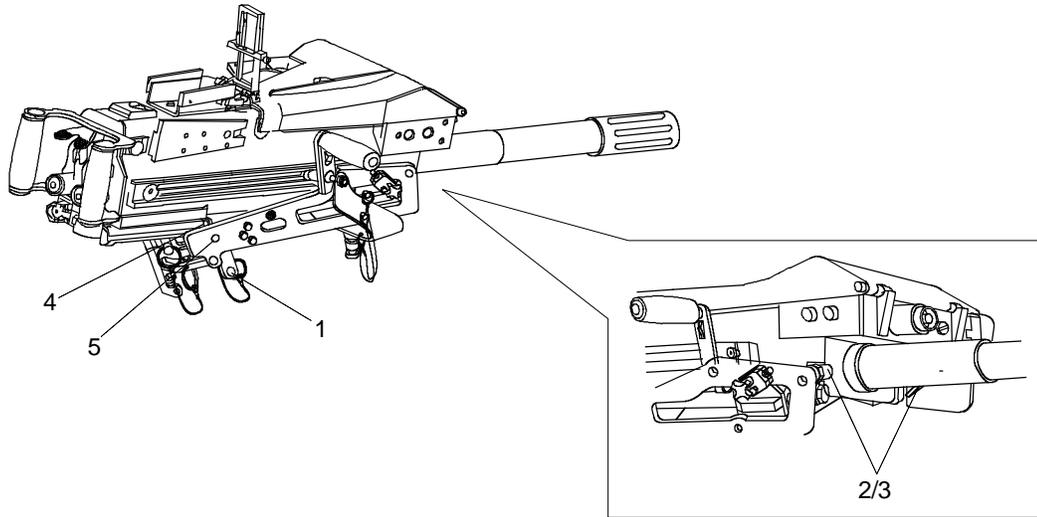
Remove the rear quick release pin (1) from the carriage and cradle.

**WARNING**

A two-man lift is required for the MK19 machine gun.

Ensure shocks are rotated down.

Hoist the weapon onto the carriage and cradle assembly. Lower the muzzle slightly below horizontal.



MK19-120

Align the receiver's two locking channels (2) with the two forward headless shoulder pins (3) on the carriage and cradle assembly. Push the weapon forward, and slide the headless shoulder pins (3) into the locking channels (2).

Align holes in the weapon's sear assembly (4) with the rear holes (5) in the carriage and cradle assembly.

Insert the carriage and cradle assembly's rear quick release pin (1).

**OPERATOR INSTRUCTION AND INSTALLATION PROCEDURES FOR  
M1025/M1026/M1114 HMMWV ARMAMENT CARRIER'S RING AND  
M939 LIGHTWEIGHT RING MOUNT (cont)**

**INSTALLATION OF M2 MACHINE GUN TO CARRIAGE AND CRADLE ASSEMBLY**

Remove rear slider quick release pin (1).

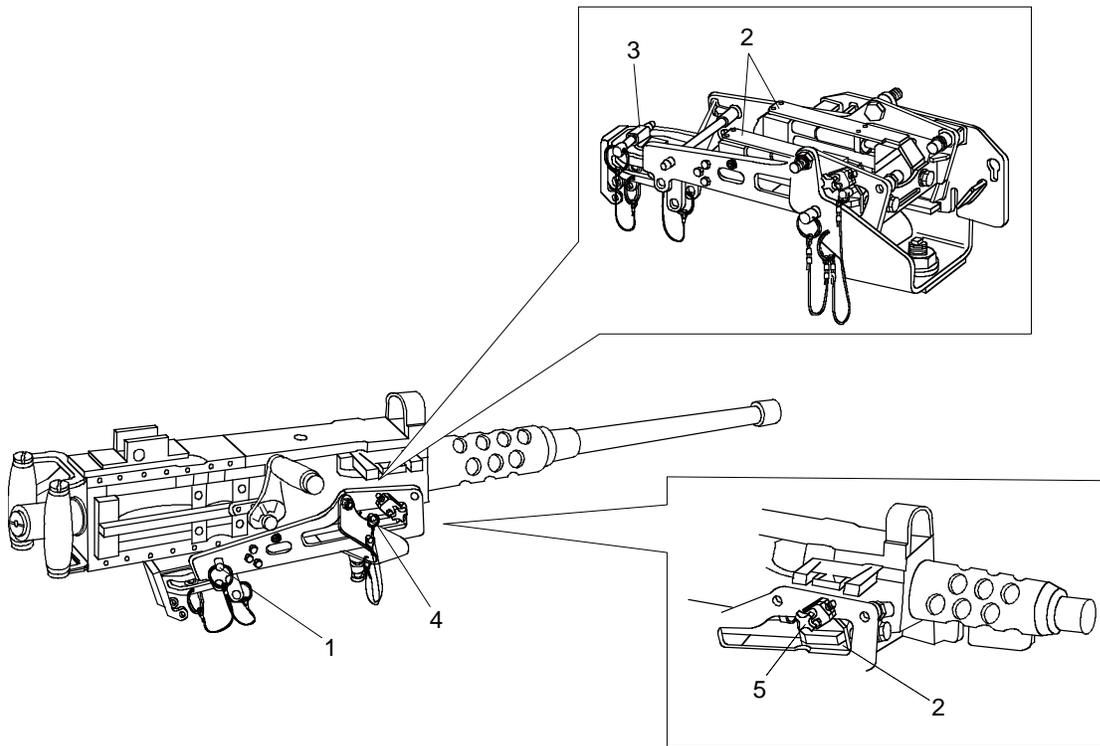
Ensure shocks (2) and slider (3) are turned up. Install rear slider quick release pin (1) in rear of carriage and cradle.

**WARNING**

A two-man lift is required for the M2 machine gun.

Align front mounting holes of weapon with holes on shocks (2), insert quick release pin (4).

Lower rear of weapon until rear mounting lugs align with hole in slider, insert quick release pin (1).



2NL0289

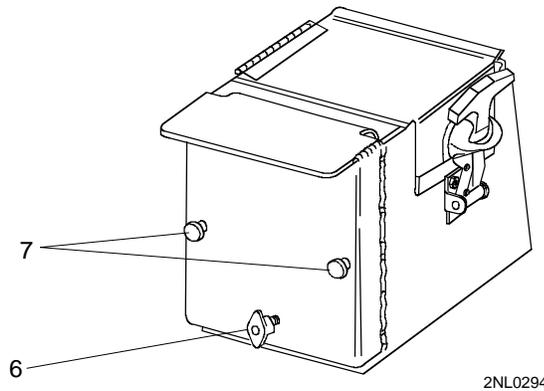
**SET DEPRESSION STOP**

Align weapon to lowest authorized firing position.

Loosen depression stop knob (5). Tighten setscrew until it bottoms on carriage; tighten knob.

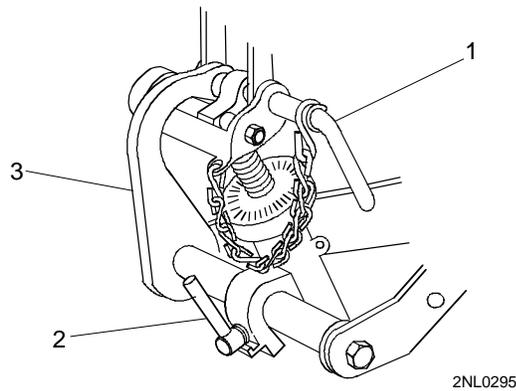
Partially unscrew wing nut (9) on .50 cal ammo holder assembly.

Align threaded stud with rear groove of cradle side plate, slide threaded stud upward into groove and insert welded pins (10) into rear slots (11). Push down on holder assembly to seat.



### FREE GUN

Remove handle (1), and loosen traversing slide lock lever (2). Rotate T&E assembly, and travel lock if in place, downward. The gun is now free to travel 360°, if needed.



**OPERATOR INSTRUCTION AND INSTALLATION PROCEDURES FOR  
M1025/M1026/M1114 HMMWV ARMAMENT CARRIER'S RING AND  
M939 LIGHTWEIGHT RING MOUNT (cont)**

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**TAKING OUT OF OPERATION**

Clear the weapon in accordance with weapons operators TM. Reverse installation procedures to remove weapons.

**PREPARATION FOR MOVEMENT**

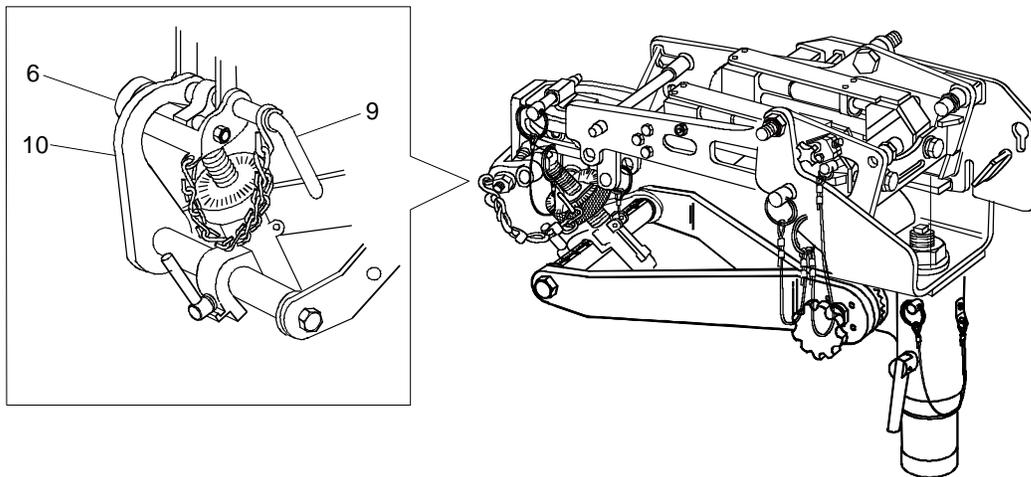
**WARNING**

Weapons shall be manned when mounted for operation in moving vehicles, except when travel lock is engaged. If weapon is not manned in a turret, the ring must be locked forward, the travel lock must be attached, and all adjustment screw must be tightened.

**NOTE**

Weapon removed for clarity.

Loosen T&E and move to left end of azimuth bar. Swing the travel lock (10) up so the small hole end is near left side of elevation screw. Adjust the elevating hand wheel (6) until the travel lock can enter gap with holes aligned, and push handle (9) completely through the travel lock and T&E yoke.

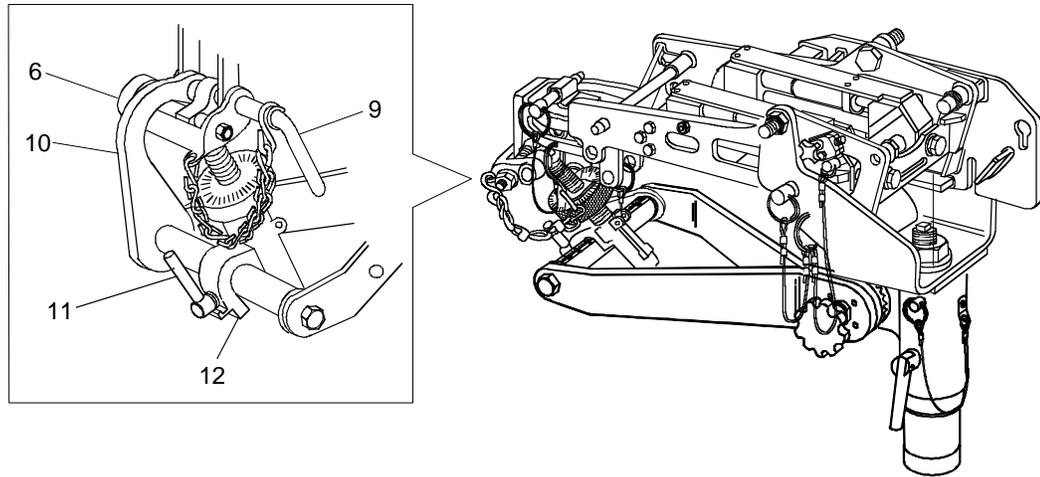


2NL0296

**CAUTION**

The purpose of turning the elevating hand-wheel counterclockwise to raise the elevation mechanism off the azimuth indicator is so the weight (load) of the gun and carriage and cradle assembly is on the travel lock instead of the T&E. This prevents damage to the adjustment threads of the T&E.

Loosen traversing slide lock lever (11). Rotate traversing hand-wheel (6) on elevation mechanism assembly counterclockwise (completely to the left) until T&E clamps travel lock securely. Turn elevating hand-wheel (6) of the T&E counterclockwise until elevating sleeve (12) rises from the azimuth indicator about 1/4 inch (0.635 cm).



2NL0297

**END OF WORK PACKAGE**



## **UNIT MAINTENANCE**

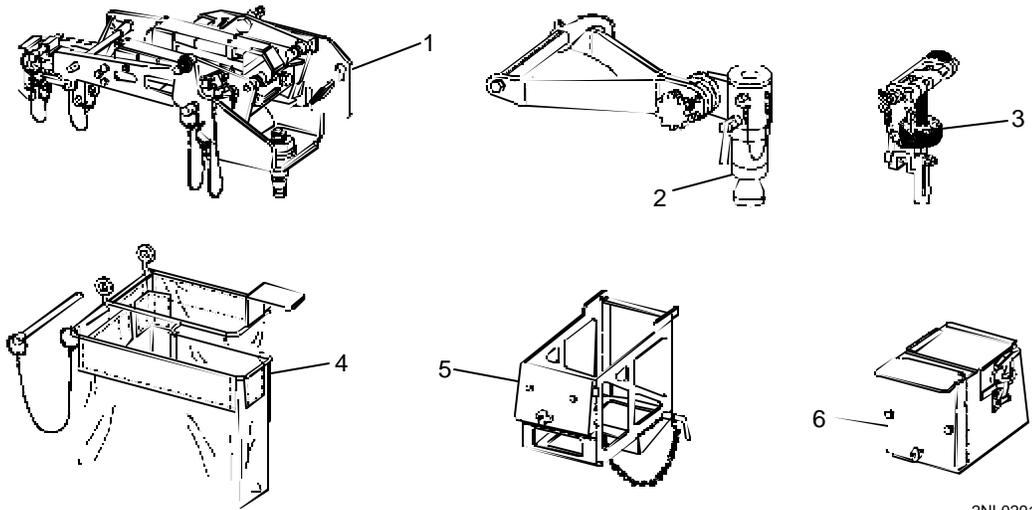


**UNIT MAINTENANCE FOR  
MK93 MOD 1 MACHINE GUN MOUNT, NSN 1005-01-383-2757, P/N 6650717 AND  
MK93 MOD 2 MACHINE GUN MOUNT, NSNA-, P/N 13000175**

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The MK93 MOD 1 and MOD 2 Machine Gun Mount consists of the following components, refer to individual work packages for unit maintenance.

- Carriage and Cradle (1), WP 0111 00
- Universal Pintle Adapter (2), WP 0090 00
- Traverse and Elevation Mechanism (3), WP 0042 00
- Catch Bag Assembly (4), WP 0114 00
- Mounting Bracket (5), WP 0098 00
- .50 Caliber Ammo Holder Assembly (6), WP 0116 00



2NL0291

**END OF WORK PACKAGE**



**UNIT MAINTENANCE FOR  
YOKE ASSEMBLY, NSNA, P/N 6650725 AND  
CARRIAGE ASSEMBLY, NSNA, P/N 6650434**

---

This task covers: a. Disassembly b. Inspection/Repair c. Reassembly

**INITIAL SETUP**

Tools and Special Tools:  
Tool Kit, Small Arms Repairman,  
PN SC 5180-95-B71

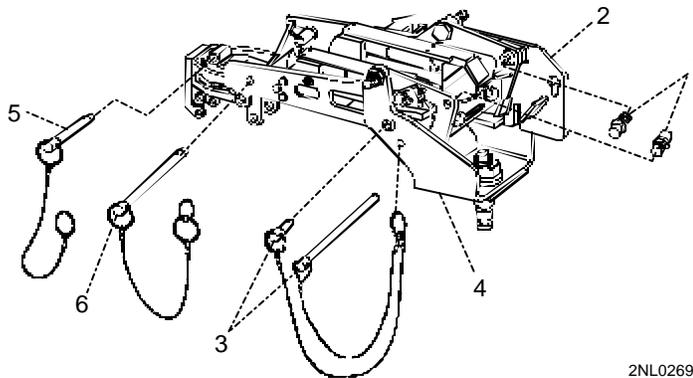
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**DISASSEMBLY**

Remove two headless shoulder pins (1) from machine gun cradle (2).

By spreading ends of retaining ring, remove quick-release pin (3) from yoke (4).

By spreading ends of retaining rings, remove quick-release pin assemblies (5 and 6) from machine gun cradle (2).



**INSPECTION/REPAIR**

Inspect for broken, damaged, or missing parts.

For further disassembly of yoke assembly and carriage assembly notify direct support maintenance.

Repair is by replacement of authorized parts.

**ASSEMBLY**

Spread ends of retaining ring, and attach quick-release pin assemblies (5 and 6) to machine gun cradle (2).

Spread ends of retaining ring, and attach quick-release pin (3) to yoke (4).

Install two headless shoulder pins (1) in machine gun cradle (2).

**END OF WORK PACKAGE**



**UNIT MAINTENANCE FOR  
UNIVERSAL PINTLE ADAPTER, NSN 1010-01-445-6143, P/N 12012061**

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For unit maintenance of universal pintle adapter, refer to WP 0090 00.

**END OF WORK PACKAGE**

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**UNIT MAINTENANCE FOR  
ELEVATION MECHANISM (TRAVERSING AND CLAMPING UNIT) AND  
ELEVATION MECHANISM (ELEVATING UNIT), NSN 1010-01-151-6227, P/N 5830128**

---

For unit maintenance repair of Traverse and Elevation Mechanism, refer to WP 0042 00.

**END OF WORK PACKAGE**

**0113 00-1/2 blank**



**UNIT MAINTENANCE FOR  
CATCH BAG ASSEMBLY, NSN 1005-01-388-5679, P/N 6650723**

---

This task covers: a. Disassembly b. Inspection/Repair c. Assembly

**INITIAL SETUP**

Tools and Special Tools:  
Tool Kit, Small Arms Repairman,  
PN SC 5180-95-B71

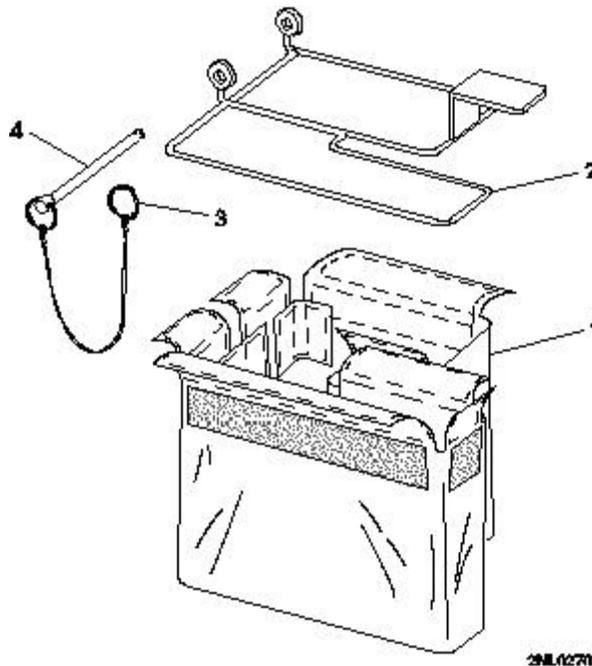
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**DISASSEMBLY****NOTE**

When disassembling catch bag, pull Velcro seal away from catch bag frame.

Open Velcro seals and remove catch bag (1) from catch bag frame (2).

Spread ends of retaining rings (3) and remove quick-release pin (4) from catch bag frame (2).

**INSPECTION/REPAIR**

Inspect for broken, damaged, or missing parts.

Repair is by replacement of authorized parts.

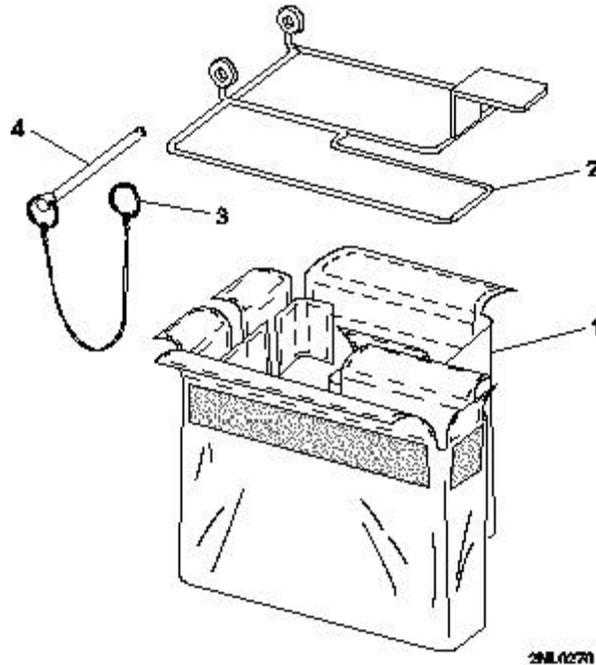
**UNIT MAINTENANCE FOR  
CATCH BAG ASSEMBLY, NSN 1005-01-388-5679, P/N 6650723 (cont)**

---

**ASSEMBLY**

Spread ends of retaining ring (3) and install quick-release pin (4) on catch bag frame (2).

Install casings bag (1), with Velcro unsealed, onto catch bag frame (2). Close Velcro seals.



**END OF WORK PACKAGE**

**UNIT MAINTENANCE FOR  
MULTIPURPOSE AMMUNITION CAN BRACKET ASSEMBLY,  
NSN 5340-01-340-8471, P/N 12929150**

---

For unit maintenance repair of Mounting Bracket refer to WP 0098 00.

**END OF WORK PACKAGE**

**0115 00-1/2 blank**



**UNIT MAINTENANCE FOR  
.50 CALIBER AMMO HOLDER ASSEMBLY, NSN 1398-01-387-3095, P/N 6650724**

---

This task covers: a. Disassembly b. Inspection/Repair c. Cleaning  
d. Refinishing/Lubrication e. Assembly

**INITIAL SETUP**

**Tools and Special Tools:**

Tool Kit, Small Arms Repairman,  
PN SC 5180-95-B71

**Materials/Parts:**

Cleaner, lubricant and preservative, (CLP),  
(item 3, WP 0179 00)  
Enamel, Olive Drab, (item 7, WP 0179 00)  
Enamel, Sand, (item 8, WP 0179 00)

**Materials/Parts (cont):**

Lubricant, Solid Film, (item 10, WP 0179 00)  
Rag, Wiping, (item 14, WP 0179 00)  
Sealing Compound (item 16, WP 0179 00)  
Self-locking nut (4), P/N MS21044C3  
Solvent, Cleaning, (item 17, WP 0179 00)

**Equipment Condition:**

.50 Caliber Ammo Holder Assembly removed  
from mount.

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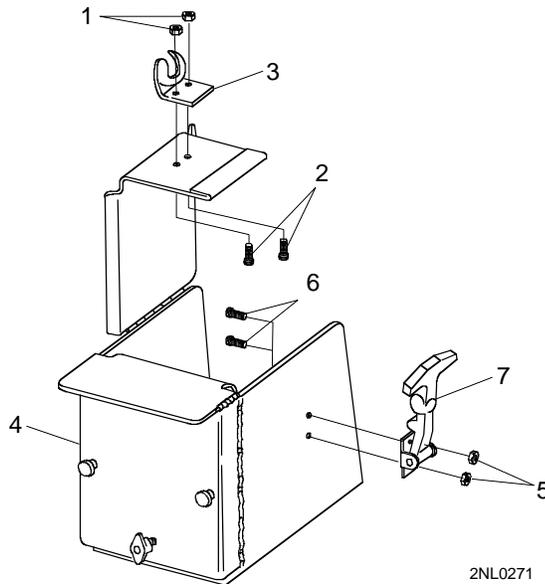
**DISASSEMBLY**

**NOTE**

Top bracket (3) is a component of clamping catch and cannot be ordered separately.  
Take care not to lose or damage this item.

Remove two self-locking nuts (1), two machine screws (2), and top bracket (3) from ammo can holder (4).  
Discard self-locking nuts.

Remove two self-locking nuts (5), two machine screws (6), and clamping catch (7) from ammo can holder (4).  
Discard self-locking nuts.



**UNIT MAINTENANCE FOR  
.50 CALIBER AMMO HOLDER ASSEMBLY, NSN 1398-01-387-3095, P/N 6650724 (cont)**

---

**INSPECTION/REPAIR**

Inspect for broken, damaged, or missing parts.

If ammo can holder is broken or damaged, repair is by replacement of next higher assembly.

Repair is by replacement of authorized parts.

**CLEANING**

Clean all components with CLP, wipe dry and apply light coat of CLP.

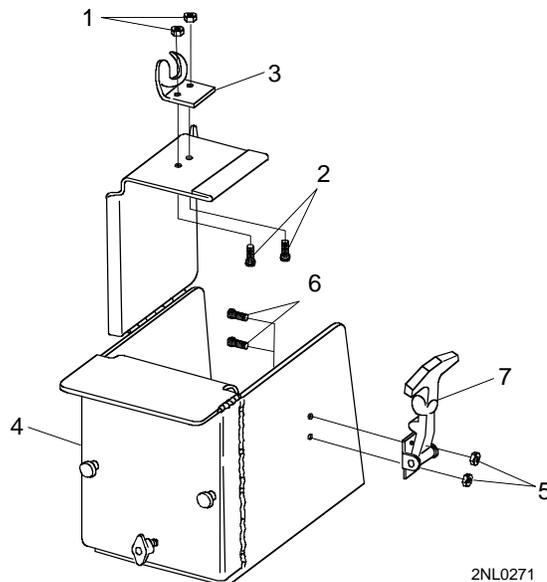
**REFINISHING/LUBRICATION**

Clean area to be refinished with cleaning solvent, wipe dry, and touch-up with enamel paint. Allow to dry per manufacturer's instructions. Apply light coat of CPL.

**ASSEMBLY**

Install clamping catch (7) on ammo can holder (4) with two machine screws (6) and two new self-locking nuts (5).

Install top bracket (3) on ammo can holder (4) with two machine screws (2) and two new self-locking nuts (1).



**END OF WORK PACKAGE**

**DIRECT SUPPORT MAINTENANCE**



**DIRECT SUPPORT MAINTENANCE FOR  
CARRIAGE AND CRADLE ASSEMBLY, NSN1005-01-383-2949, P/N 6650450**

---

This task covers: a. Disassembly b. Inspection/Repair c. Cleaning  
d. Refinishing/Lubrication e. Assembly

**INITIAL SETUP**

**Tools and Special Tools:**

Shop Set, Small Arms: Field  
Maintenance, Basic, Less Power,  
PN SC 4933-95-CL-A11  
Tool Kit, Small Arms Repairman,  
PN SC 5180-95-B71

**Materials/Parts (cont):**

Lubricant, Solid Film, (item 10, WP 0179 00)  
Rag, Wiping, (item 14, WP 0179 00)  
Sealing Compound (item 15, WP 0179 00)  
Self-locking Nut (2), P/N MS21083-C10  
Self-locking Nut, P/N MS 21083-C16  
Solvent, Cleaning, (item 17, WP 0179 00)

**Materials/Parts:**

Cleaner, lubricant and preservative, (CLP),  
(item 3, WP 0179 00)  
Enamel, Olive Drab, (item 6, WP 0179 00)  
Enamel, Brown, (item 7, WP 0179 00)

**Equipment Condition:**

Carriage and Cradle Assembly removed from  
vehicle/tripod.

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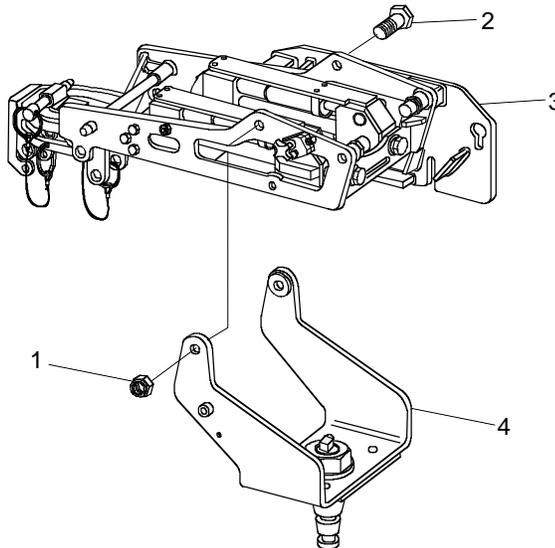
**NOTE**

Procedures are the same for all modifications.

**DISASSEMBLY**

Remove and discard two self-locking nuts (1). Remove two machine bolts (2) and lift carriage assembly (3) from cradle (4).

For further disassembly/repair of carriage refer to WP 0118 00.



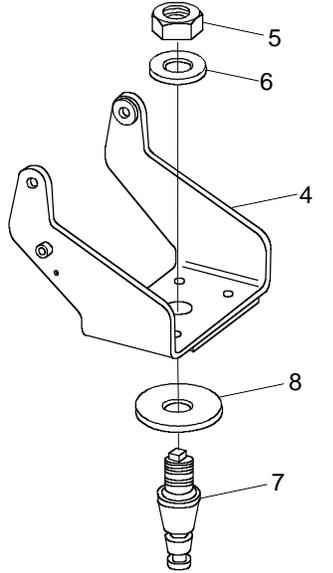
2NL0272

**DIRECT SUPPORT MAINTENANCE FOR  
CARRIAGE AND CRADLE ASSEMBLY, NSN1005-01-383-2949, P/N 6650450 (cont)**

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**DISASSEMBLY (cont)**

Remove self-locking nut (5), flat washer (6), mount pintle (7), and flat washer (8) from yoke (4). Discard self-locking nut (5).



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**INSPECTION/REPAIR**

Inspect for broken, damaged, or missing parts.

Carriage assembly is a repairable assembly. Refer to WP 0118 00.

Repair is by replacement of authorized parts

**CLEANING**

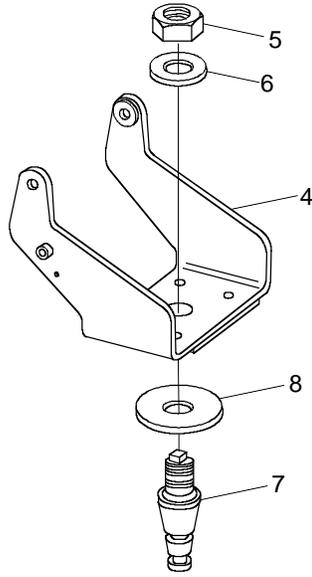
Clean all components with CLP, wipe dry and apply light coat of CLP.

**REFINISHING/LUBRICATION**

Clean area to be refinished with cleaning solvent, wipe dry, and touch-up with enamel paint. Allow to dry per manufacturer's instructions. Apply light coat of CPL.

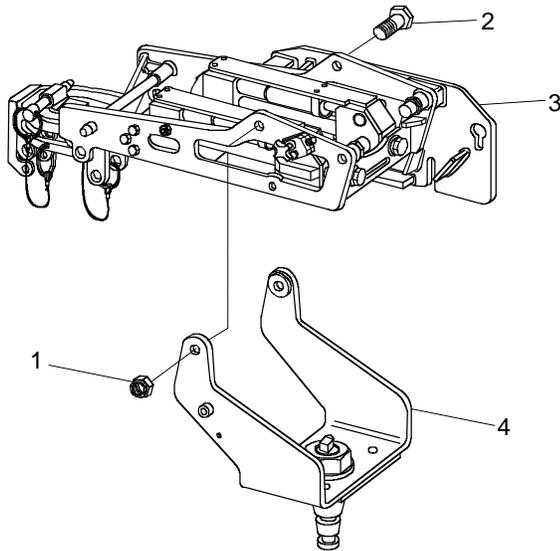
**ASSEMBLY**

Install flat washer (8) and mount pintle (7) and flat washer (6) on yoke (4). Secure with new self-locking nut (5).



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Install carriage assembly (3) on yoke (4). Install two machine bolts (2) and secure with two new self-locking nuts (1).



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**END OF WORK PACKAGE**



**DIRECT SUPPORT MAINTENANCE FOR  
CARRIAGE ASSEMBLY, NSNA, P/N 6650434;  
DUAL MOUNT CARRIAGE ASSEMBLY, NSN 1005-01-508-1574, P/N 13001177 AND  
DEPRESSION STOP ASSEMBLY, NSN 1010-01-451-7557, P/N 6650651**

---

This task covers: a. Disassembly    b. Inspection/Repair    c. Cleaning  
d. Refinishing/Lubrication    e. Assembly

**INITIAL SETUP**

**Tools and Special Tools:**

Shop Set, Small Arms: Field  
Maintenance, Basic, Less Power,  
PN SC 4933-95-CL-A11  
Tool Kit, Small Arms Repairman,  
PN SC 5180-95-B71

**Materials/Parts (cont):**

Enamel, Olive Drab, (item 6, WP 0179 00)  
Enamel, Brown, (item 5, WP 0179 00)  
Lubricant, Solid Film, (item 10, WP 0179 00)  
Rag, Wiping, (item 14, WP 0179 00)  
Sealing Compound (item 15, WP 0179 00)  
Solvent, Cleaning, (item 17, WP 0179 00)

**Materials/Parts:**

Cleaner, lubricant and preservative, (CLP),  
(item 3, WP 0179 00)

**Equipment Condition:**

Carriage assembly removed from cradle.

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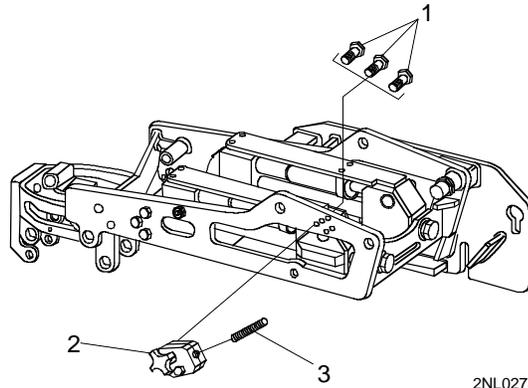
**DISASSEMBLY**

**NOTE**

Do not disassemble depression stop assembly beyond removal of the continuous stud.

Procedures are the same for all modifications.

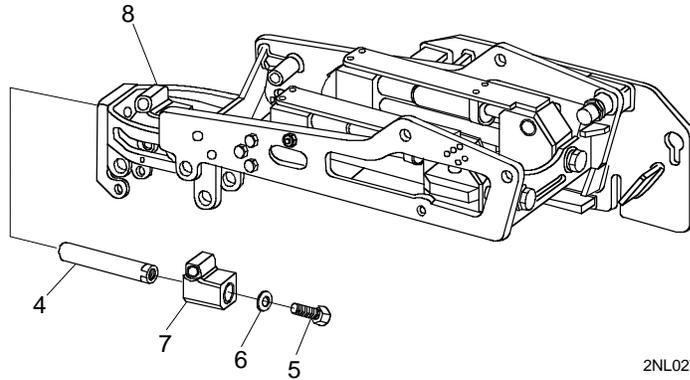
Remove three hexagon cap screws (1) and remove depression stop assembly (2). Remove continuous stud (3) from depression stop assembly (2).



**DIRECT SUPPORT MAINTENANCE FOR  
CARRIAGE ASSEMBLY, NSNA, P/N 6650434;  
DUAL MOUNT CARRIAGE ASSEMBLY, NSN 1005-01-508-1574, P/N 13001177 AND  
DEPRESSION STOP ASSEMBLY, NSN 1010-01-451-7557, P/N 6650651 (cont)**

**DISASSEMBLY (cont)**

Hold straight shaft (4) by placing a wrench on wrench flats of straight shaft. Remove hexagon cap screw (5) and flat washer (6) from straight shaft (4). While supporting rear slider assembly (7) with one hand, pull straight shaft out through rear brace support (8).



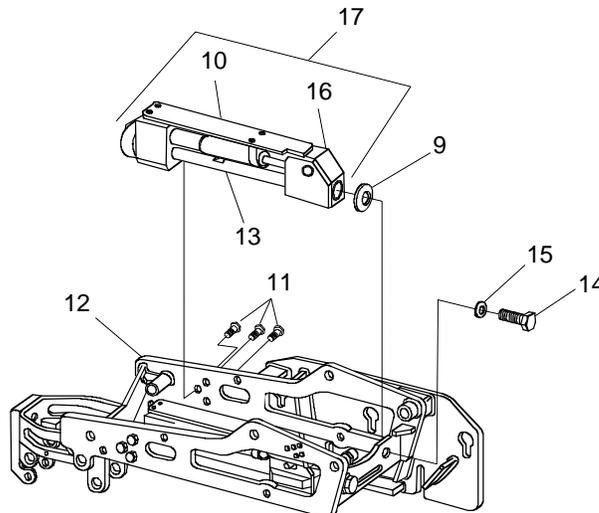
2NL0274

**NOTE**

Before removing the shock absorber assemblies from the machine gun cradle, note that the concave side of the two spring tension washers (9) face the slide assemblies. Also note the notched cutout on the link deflectors (10) and its position to the inside and front of the machine gun cradle when configured for the M2 machine gun.

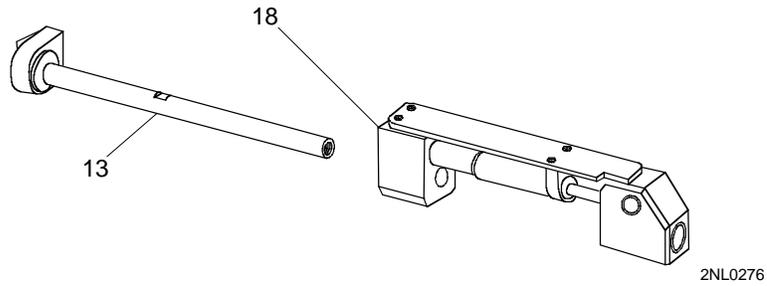
The next three steps are written and illustrated for one shock absorber assembly but apply to both.

Remove three machine bolts (11) from side of machine gun cradle (12). Using a wrench, hold straight shaft (13) by placing the wrench on wrench flats on straight shaft. Remove hexagon cap screw (14) and flat washer (15). Remove spring tension washer (9) between front slide assembly (17) and machine gun cradle (12). Remove shock absorber assembly (17).



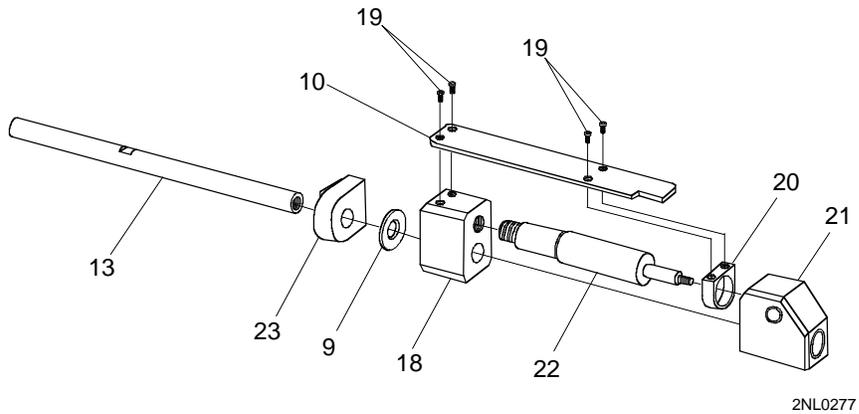
2NL0275

Pull straight shaft (13) out through shock absorber mounting bracket (18).

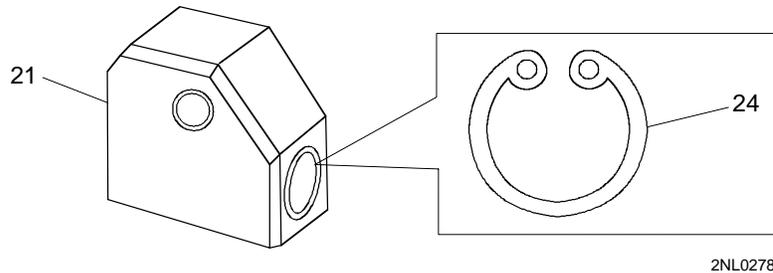


Remove four machine screws (19) and link deflector (10) from shock absorber mounting bracket (18) and mount deflector (20). Unscrew front slide assembly (21) from shock absorber (22) and remove mount deflector (20). Unscrew shock absorber mounting bracket (22) from shock absorber (23).

Pull straight shaft (13) out of mounting bracket (18). Slide spring tension washer (9) and shock absorber (23) off of straight shaft (13).



Remove internal retaining ring (24) from shock absorber mounting bracket (21) using retaining ring pliers.



### INSPECTION/REPAIR

Inspect for broken, damaged, or missing parts.

Repair is by replacement of authorized parts.

**DIRECT SUPPORT MAINTENANCE FOR  
CARRIAGE ASSEMBLY, NSNA, P/N 6650434;  
DUAL MOUNT CARRIAGE ASSEMBLY, NSN 1005-01-508-1574, P/N 13001177 AND  
DEPRESSION STOP ASSEMBLY, NSN 1010-01-451-7557, P/N 6650651**

**CLEANING**

Clean all components with CLP, wipe dry and apply light coat of CLP.

**REFINISHING/LUBRICATION**

Clean area to be refinished with cleaning solvent, wipe dry, and touch-up with enamel paint (item 6, WP 0179 00). Allow to dry per manufacturer's instructions. Apply light coat of CPL.

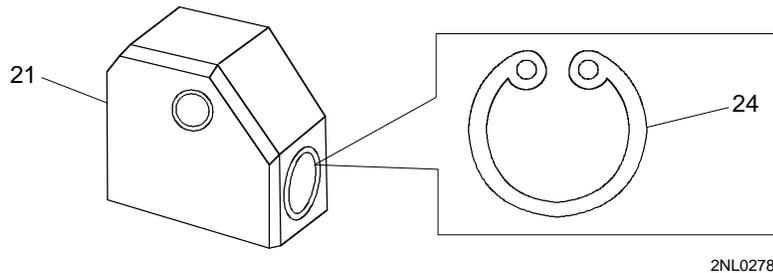
**ASSEMBLY**

**NOTE**

When installing the shock absorber assemblies in the machine gun cradle, ensure the concave side of the two spring tension washers face the front slide assemblies. Also ensure the notched cutout on the link deflectors is positioned to the inside and front of the machine gun cradle when configured for the M2 machine gun.

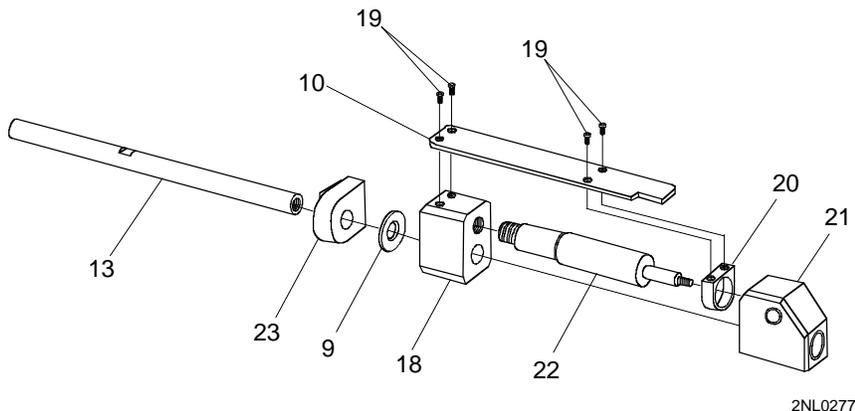
The next 5 steps are written and illustrated for one shock absorber assembly but apply to both.

Install internal retaining ring (24) into end of shock absorber mounting bracket (21).

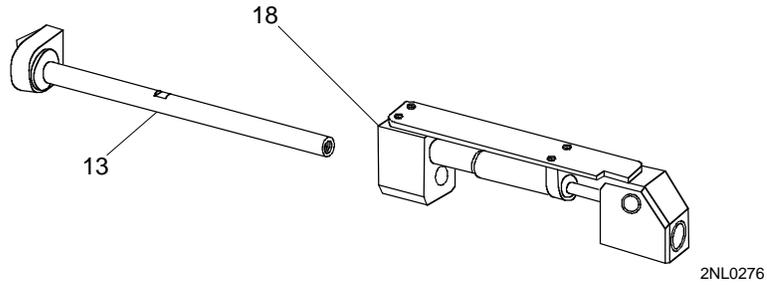


Screw shock absorber (22) on shock absorber mounting bracket (18). Install mount deflector (20) on shock absorber. Screw shock absorber into front slide assembly (21). Align holes in link deflector (10) with holes in shock absorber mounting bracket (18) and mount deflector (20). Apply sealing compound to four machine screws (19) and install screws.

Slide mounting bracket (23) and spring tension washer (9) onto straight shaft (13).



Install straight shaft (13) with assembled parts through rear of shock absorber mounting bracket (18) and front slide assembly (21).



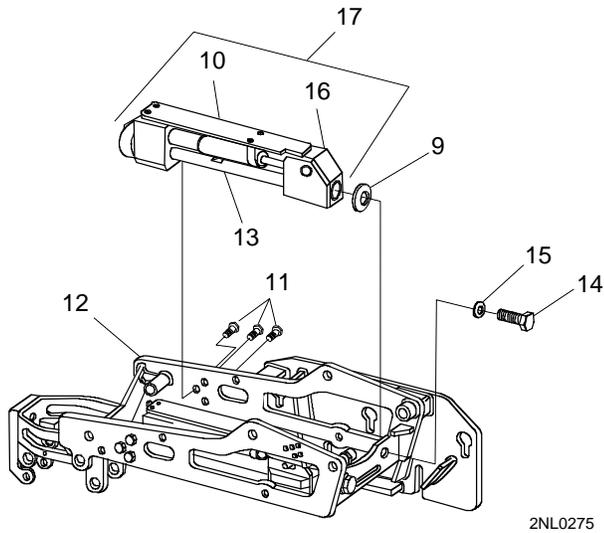
Install shock absorber assembly (17) into machine gun cradle (12).

Install flat washer (15) on hexagon cap screw (14). Install hexagon cap screw through front of machine gun cradle (12). Install spring tension washer (9) on hexagon cap screw and into front slide assembly (16) (finger tighten only). Apply sealing compound to three machine bolts (11) and install machine bolts through side of machine gun cradle and into mounting bracket assembly (17).

**NOTE**

Ensure shock absorber mounting bracket assembly (17) is properly positioned (link deflector (10) up) before tightening.

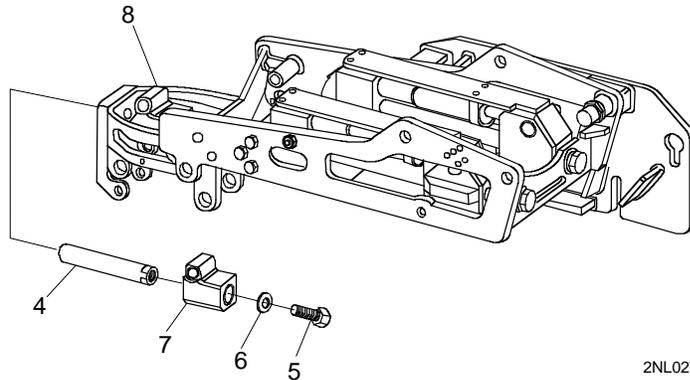
With an open-end wrench, hold straight shaft (13) by placing wrench on wrench flats of the straight shaft and tighten cap screw (14).



**DIRECT SUPPORT MAINTENANCE FOR  
CARRIAGE ASSEMBLY, NSNA, P/N 6650434;  
DUAL MOUNT CARRIAGE ASSEMBLY, NSN 1005-01-508-1574, P/N 13001177 AND  
DEPRESSION STOP ASSEMBLY, NSN 1010-01-451-7557, P/N 6650651 (cont)**

**ASSEMBLY (cont)**

Install rear slider assembly (7) in machine gun cradle (12) with the mounting hole down and to the rear. Support rear slider assembly with one hand while installing straight shaft through rear brace support (8) and rear slider assembly. Install flat washer (6) and hexagon cap screw (5) on straight shaft (4). With an open-end wrench, hold straight shaft (4) by placing wrench on wrench flats of the straight shaft and tighten cap-screw (5).

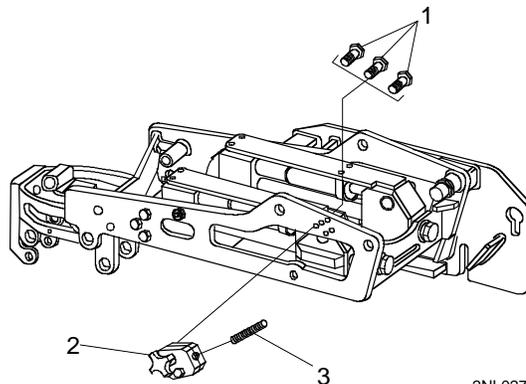


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**NOTE**

Slotted end of continuous stud should point down and toward rear or machine gun cradle.

Apply sealing compound to three hexagon cap screws (1). Install hexagon cap screws from inside of machine gun cradle (12) in depression stop assembly (2) on outside of cradle. Insert continuous stud (3) into depression stop assembly (2) and secure.



2NL0273

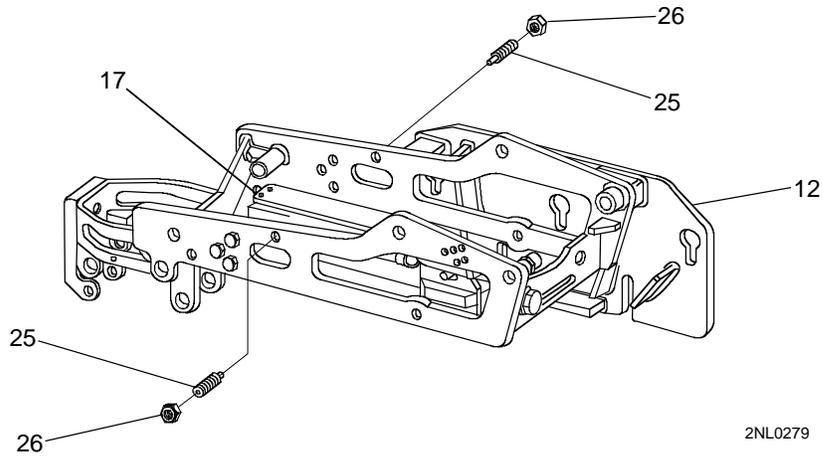
**ADJUSTMENT OF SHOCK ABSORBER STOPS**

Rotate shock absorber assemblies (17) to the up position, and install quick release pin from yoke assembly (not shown).

Install two setscrews (25) into machine gun cradle (12) until setscrews contact shock absorber surface.

Install two hexagon plain nuts (26) on setscrews. Ensure nuts are flush with setscrews.

Back off setscrews between 1/4 and 1/2 turn, and tighten nuts clockwise to lock in place.



2NL0279

**END OF WORK PACKAGE**

0118 00-7/8 blank



**DIRECT SUPPORT MAINTENANCE FOR  
UNIVERSAL PINTLE ADAPTER, NSN 1010-01-445-6143, P/N 12012061;  
TRAVERSE ARM ASSEMBLY, NSN 5340-01-447-3245, P/N 6650488;  
AND UNIVERSAL PINTLE ADAPTER BODY ASSEMBLY, NSN N/A, P/N 12012062**

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For direct support maintenance of universal pintle adapter, traverse arm assembly, and universal pintle adapter body assembly, refer to WP 0101 00.

**END OR WORK PACKAGE**



**CHAPTER 10**  
**SUPPORTING INFORMATION**

TM 9-1005-245-13&P

**REFERENCES**

---

**DEPARTMENT OF THE ARMY PAMPHLETS AND FORMS**

DA PAM 25-30 .....	Consolidated Index of Army Publications and Blank Forms
PAM 385-64 .....	Ammunition and Explosive Safety Standards
DA PAM 738-750 .....	The Army Maintenance Management System (TAMMS)
DA Form 2028.....	Recommended Changes to Publications and Blank Forms
DA Form 2028-2 .....	Recommended Changes to Publications and Blank Forms
DA Form 2404.....	Equipment Inspection and Maintenance Worksheet
DA Form 2407.....	Maintenance Request
SF 364.....	Report of Discrepancy (ROD)
SF 368.....	Product Quality Deficiency Report

**FIELD MANUALS**

FM 3-22.68.....	Crew-Served Machine Guns, 5.56-MM and 7.62-MM
FM 21-11.....	First Aid for Soldiers
FM 9-207.....	Operation and Maintenance of Ordnance Materiel in Cold Weather

**TECHNICAL MANUALS**

TM 740-90-1 .....	Administrative Storage of Equipment
TM 750-244-6 .....	Procedures for Destruction of Equipment in Federal Supply Classifications 1000, 1005, 1010, 1015, 1020, 1025, 1030, 1055, 1090, and 1095 to Prevent Enemy Use
TM 9-1005-201-10 .....	Operator's Manual: M249 Machine Gun
TM 9-1005-213-10 .....	Operator's Manual for Machine Gun, .50 Cal, Browning, M2 Heavy Barrel, Flexible W/E
TM 9-1005-224-10 .....	Operator's Manual for M60 Machine Gun
TM 9-1005-230-10 .....	Operator's Manual for MK19 Mod 3, 40MM, Grenade Machine Gun
TM 9-1005-313-10 .....	Operator's Manual for M240 Series, 7.62mm, Machine Gun

**REFERENCES (cont)**

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**TECHNICAL ORDERS**

- TO 00-35D-54 .....Materiel Deficiency Reporting and Investigation System
- TO 11W-1-10.....Historical Data Recording of Inspection, Maintenance, and Firing  
Data for Ground Weapons
- TO 33K-1-100.....(TMDE) Interval Calibration and Repair Reference Guide and  
Work Unit Code Manual

**USMC PUBLICATIONS AND FORMS**

- MCO 4855.10 .....Quality Deficiency Report
- MCO P4450.7 .....Marine Corps Warehousing Manual
- MCO P4610.19.....Transportation and Travel Record of Transportation  
Discrepancies
- MCO P4790.2.....Administrative Storage of Equipment
- NAVMC 10722 .....Recommended Changes to Publications/Logistics Maintenance  
Date Coding
- TM 4700-15/1 .....Marine Corps Tactical Equipment Record Procedure: Record  
Maintenance

**MISCELLANIOUS PUBLICATIONS**

- AFTO Form 22 .....Technical System Publication Improvement Report
- AR 750-1 .....Army Material Maintenance Policy and Retail Maintenance  
Operations
- CTA 8-100 .....Army Medical Department Expendable/Durable items
- CTA 50-970 .....Modified Table of Organization and Equipment (MTOE)
- DOD 4160.21-M-1 .....Defense Demilitarization Manual

**MAINTENANCE ALLOCATION CHART (MAC)**

---

**INTRODUCTION****The Army Maintenance System MAC**

This introduction provides a general explanation of all maintenance and repair functions authorized at various maintenance levels under the standard Army Maintenance System concept.

The MAC (immediately following the introduction) designates overall authority and responsibility for the performance of maintenance functions on the identified end item or component. The application of the maintenance functions to the end item or component shall be consistent with the capacities and capabilities of the designated maintenance levels, which are shown on the MAC in column (4) as:

Unit – includes two sub-columns, C (crew/operator) and O (unit) maintenance.

Direct Support – includes an F sub-column.

General Support – includes an H sub-column.

Depot – includes a D sub-column.

The tools and test equipment requirements (immediately following the MAC) list the tools and test equipment (both special tools and common tool sets) required for each maintenance function as referenced from the MAC.

The remarks (immediately following the tools and test equipment requirements) contain supplemental instructions and explanatory notes for a particular maintenance function.

**Maintenance Functions**

Maintenance functions are limited to and defined as follows:

**Inspect.** To determine the serviceability of an item by comparing its physical, mechanical, and/or electrical characteristics with established standards through examination (e.g., by sight, sound, or feel). This includes scheduled inspection and gaging and evaluation of cannon tubes.

**Test.** To verify serviceability by measuring the mechanical, pneumatic, hydraulic, or electrical characteristics of an item and comparing those characteristics with prescribed standards on a scheduled basis, i.e., load testing of lift devices and hydrostatic testing of pressure hoses.

**Service.** Operations required periodically to keep an item in proper operating condition; e.g., to clean (includes decontaminate, when required), to preserve, to drain, to paint, or to replenish fuel, lubricants, chemical fluids, or gases. This includes scheduled exercising and purging or recoil mechanisms.

**Adjust.** To maintain or regulate, within prescribed limits, by bringing into proper position, or by setting the operating characteristics to specified parameters.

**Align.** To adjust specified variable elements of an item to bring about optimum or desired performance.

**Calibrate.** To determine and cause corrections to be made or to be adjusted on instruments of test, measuring, and diagnostic equipment used in precision measurement. Consists of comparisons of two instruments, one of which is certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.

**MAINTENANCE ALLOCATION CHART (MAC) (cont)**

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**Maintenance Functions (cont)**

**Remove/Install.** To remove and install the same item when required to perform service or other maintenance functions. Install may be the act of emplacing, seating, or fixing into position a spare, repair part, or module (component or assembly) in a manner to allow the proper functioning of an equipment or system.

**Replace.** To remove an unserviceable item and install a serviceable counterpart in its place. "Replace" is authorized by the MAC and assigned maintenance level is shown as the third position code of the Source, Maintenance and Recoverability (SMR) code.

**Repair.** The application of maintenance services, including fault location/troubleshooting, removal/installation, disassembly/assembly procedures, and maintenance actions to identify troubles and restore serviceability to an item by correction specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), end item, or system.

**NOTE**

The following are applicable to the "repair" maintenance function:

Services – Inspect, test, service, adjust, calibrate, and/or replace.

Fault location/troubleshooting – The process of investigating and detecting the cause of equipment malfunctioning; the act of isolating a fault within a system or Unit Under Test (UUT).

Disassembly/assembly – The step-by-step breakdown (taking apart) of a spare/functional group coded item to the level of its component, that is assigned an SMR code for the level of maintenance under consideration (i.e., identified as maintenance significant).

Actions – Welding, grinding, riveting, straightening, facing, machining, and/or resurfacing.

**Overhaul.** That maintenance effort (service/action) prescribed to restore an item to a completely serviceable/operational condition as required by maintenance standards in appropriate technical publications. Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.

**Rebuild.** Consists of those services/actions necessary for the restoration of unserviceable equipment to a like new condition in accordance with original manufacturing standards. Rebuild is the highest degree of materiel maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (e.g., hours/miles) considered in classifying Army equipment/components.

**Explanation of Columns in the MAC**

**Column (1) – Group Number.** Column (1) lists FGC numbers, the purpose of which is to identify maintenance significant components, assemblies, subassemblies, and modules with the Next Higher Assembly (NHA)).

**Column (2) – Component/Assembly.** Column (2) contains the item names of components, assemblies, subassemblies, and modules for which maintenance is authorized.

**Column (3) – Maintenance Function.** Column (3) lists three functions to be performed on the item listed in column (2). (For a detailed explanation of these functions refer to "Maintenance Functions" outlined above.

Column (4) – Maintenance Level. Column (4) specifies each level of maintenance authorized to perform each function listed in column (3), by indicating work time required (expressed as man-hours in whole hours or decimals) in the appropriate sub-column. This work time figure represents the active time required to perform that maintenance function at the indicated level of maintenance. If the number or complexity of the tasks within the listed maintenance function varies at different maintenance levels, appropriate work time figures are to be shown for each level. The work time figure represents the average time required to restore an item (assembly, sub-assembly, component, module, end item, or system) to a serviceable condition under typical field operating conditions. This time includes preparation time, and quality assurance time in addition to the time required to perform the specific tasks identified for the maintenance functions authorized in the MAC. The symbol designations for the various maintenance levels are as follows:

C – Operator or Crew maintenance

O – Unit Maintenance

F – Direct Support Maintenance

L – Specialized Repair Activity (SRA)

H – General Support Maintenance

D – Depot Maintenance

#### **NOTE**

The “L” maintenance level is not included in column (4) of the MAC. Functions to this level of maintenance are identified by work time figures in the “H” column of column (4), and an associated reference code is used in the REMARKS column (6). This code is keyed to the remarks and the SRA complete repair application is explained there.

Column (5) – Tools and Equipment Reference Code. Column (5) specifies, by code, those common tool sets (not individual tools), common Test, Measurement and Diagnostic Equipment (TMDE), and special tools, special TMDE and special support equipment required to perform the designated function. Codes are keyed to the entries in the tools and test equipment table.

Column (6) – Remarks Code. When applicable, this column contains a letter code, in alphabetical order which is keyed to the remarks table entries.

#### **Explanation of Columns in the Tools and Test Equipment Requirements**

Column (1) – Tools or Test Equipment Reference Code. The tool or test equipment reference code correlates with a code used in column (5) of the MAC.

Column (2) – Maintenance Level. The lowest level of maintenance authorized to use the tool or test equipment.

Column (3) – Nomenclature. Name or identification of the tool or test equipment.

Column (4) – National Stock Number (NSN). The NSN of the tool or test equipment

Column (5) – Tool Number. The manufacture's part number, model number, or type number.

**MAINTENANCE ALLOCATION CHART (MAC) (cont)**

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**Explanation of Columns in the Remarks**

Column (1) – Remarks Code. The code recorded in column (6) of the MAC.

Column (2) – Remarks. This column lists information pertinent to the maintenance function being performed as indicated in the MAC.

**MAINTENANCE ALLOCATION CHART FOR GUN MOUNTS**

**Table 1. Maintenance Allocation Chart for M122 and M122A1 Machine Gun Tripods**

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REF CODE	(6) REMARKS
			UNIT		DS	GS	DEPOT		
			C	O	F	H	D		
00	Mount, Tripod, Machine Gun, M122 (P/N 7790723)	Inspect	0.2	0.2					
Service		0.3	0.3						
Repair			0.1	0.5			1, 2		
00	Mount, Tripod, M122A1 (P/N 12976949)	Inspect	0.2	0.2					
Service		0.3	0.3						
Replace			0.1						
Repair			0.2	0.1			1, 2		
01	Tripod, Leg Assembly (P/N 7790948)	Inspect	0.2	0.2					
Replace				0.3					
Repair			0.1	0.3			1, 2		
0101	Leg, Tripod Mount (P/N 5559337)	Inspect	0.1	0.1	0.1				
Replace				0.2					
Repair			0.3	0.3			1, 2		
0102	Lock Assembly, Pintle (P/N 6108986)	Replace			0.2				
Repair				0.3			1		
02	Elevating and Traversing Mechanism (P/N 7791119)	Inspect	0.3	0.3					
Replace			0.3						
Repair					0.5		1, 2, 3		
03	Pintle, Mount (M122 only) (P/N 11010408)	Replace		0.1					
Repair					0.2		1, 2		
03	Pintle Mount (M122A1 only) (P/N 12986102)	Inspect	0.1	0.1					
Service		0.1	0.1						
Replace			0.1						
Repair			0.1				2		
04	Adapter Assembly (M122A1 only) (P/N 12990570)	Inspect	0.1	0.1					
Service		0.1	0.1						
Replace			0.1						
Repair			0.5				2		
0401	Adapter Assembly, Tripod (M122A1 only) (P/N 9378233)	Inspect	0.1	0.1					
Service		0.1	0.1						
Replace			0.1						
Repair			0.1				1, 2		
0402	Parts Kit, Adapter Assembly (P/N 13008479)	Inspect							
Service									
Replace									
Repair									

**MAINTENANCE ALLOCATION CHART (MAC) (cont)**

**MAINTENANCE ALLOCATION CHART FOR GUN MOUNTS (cont)**

**Table 2. Maintenance Allocation Chart for M192 Machine Gun Tripod**

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REF CODE	(6) REMARKS
			UNIT		DS	GS	DEPOT		
			C	O	F	H	D		
00	Mount, Tripod, Machine Gun, M192 (P/N 13001669)	Inspect	0.3	0.3				1	
		Service	0.3	0.3					
		Repair		0.3					
01	Tripod, Leg Assembly (P/N 1301670)	Inspect	0.2	0.2				1	
		Service	0.1	0.1					
		Replace Repair		0.3					
0101	Space Frame Assembly, (P/N 13001671)	Inspect	0.2	0.2				1	
		Service	0.1	0.1					
		Replace Repair	0.1	0.3					
0102	Leg Assembly, Right (P/N 13001694) and Leg Assembly, Left (P/N 13001708)	Inspect	0.1	0.1				1	
		Service	0.1	0.1					
		Replace Repair		0.2 0.3					
02	Elevating and Traversing Mechanism (P/N 5830128)	Inspect	0.1	0.1				1	
		Replace	0.1	0.1					
		Repair		0.2 1.0					
3	Mounting Bracket Assembly, (P/N 13001717)	Inspect	0.1	0.1				1	
		Service	0.1	0.1					
		Replace Repair		0.2 0.3					

**Table 3. Maintenance Allocation Chart for M3 Tripod**

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REF CODE	(6) REMARKS
			UNIT		DS	GS	DEPOT		
			C	O	F	H	D		
00	Mount, Tripod, Machine Gun, M3 (P/N 8403398)	Inspect	0.3	0.3	0.3			1, 2	
		Service	0.3	0.3					
		Replace		0.3					
		Repair		0.3	1.3				
01	Head, Bearing Assembly (P/N 8448211)	Repair			0.3		1, 2		
02	Bolt, Machine (PN 6108395)	Replace		0.1	0.1		1, 2		
		Repair		0.1	0.1				
03	Leg, Tripod Mount (P/N 6507137)	Replace		.5	0.3		1, 2		
		Repair		.6	0.6				
04	Leg, Tripod Mount (P/N 5559423)	Replace		.3	0.3		1, 2		
		Repair		.6	0.6				
05	Leg, Tripod Mount (P/N 6507136)	Replace		.5	0.3		1, 2		
		Repair		.6	0.6				
06	Elevation Mechanism (P/N 5830128)	Inspect	0.3	0.3			1, 2, 3		
		Replace		0.1					
		Repair		0.5	0.5				
07	Latch, Pintle Mount (P/N 6108402)	Replace Repair		0.2	0.2 0.3		1, 2		

**Table 4. Maintenance Allocation Chart for M142 Machine Gun Mount**

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REF CODE	(6) REMARKS
			UNIT		DS	GS	DEPOT		
			C	O	F	H	D		
00	Mount, Machine Gun, M142 (P/N 10900945)	Inspect	0.3	0.3	0.3			2	
		Service	0.3	0.3					
		Replace		0.8					
		Repair		0.3	0.8				
01	Platform Assembly (P/N 10900947)	Repair			0.5		1, 2		

**MAINTENANCE ALLOCATION CHART (MAC) (cont)**

**MAINTENANCE ALLOCATION CHART FOR GUN MOUNTS (cont)**

**Table 5. Maintenance Allocation Chart for .6650, .50 Caliber, Machine Gun Mount**

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REF CODE	(6) REMARKS
			UNIT		DS	GS	DEPOT		
			C	O	F	H	D		
00	Mount, Machine Gun, Cal .50, 6650 (P/N 7046650)	Inspect	0.3	0.5	0.3			1, 2	
		Service	0.3	0.3					
		Replace		0.3					
		Repair		0.3	0.8				

**Table 6. Maintenance Allocation Chart for M197 Machine Gun Mount**

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REF CODE	(6) REMARKS
			UNIT		DS	GS	DEPOT		
			C	O	F	H	D		
00	M197 Machine Gun Mount (P/N 12956264)	Inspect	0.2	0.2				2	
		Replace		0.2					
		Repair		0.3					
01	Travel Lock Assembly (P/N 12956265)	Inspect	0.2	0.2				1, 2	
		Replace		0.2					
		Repair		0.2					
02	Bracket Assembly, Travel Lock (P/N 5830063)	Inspect	0.1	0.1				2	
		Replace		0.1					
		Repair		0.1					
03	Pintle Adapter Assembly (P/N 5830131)	Inspect	0.1	0.1				2	
		Replace		0.1					
		Repair		0.1					
04	Pintle Mount (P/N 11010408)	Replace		0.1				1, 2	
		Repair			0.2				

**Table 7. Maintenance Allocation Chart for MK64 Machine Gun Mount**

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REF CODE	(6) REMARKS
			UNIT		DS	GS	DEPOT		
			C	O	F	H	D		
00	Mount, Machine Gun, MK64 MOD 5 (P/N 5831467); 9 (P/N12972474)	Inspect Service Repair	0.3 0.3	0.3 0.3	0.3			1, 2, 5	
01	Carriage and Cradle Assembly (P/N 5830052)	Inspect Service Repair	0.3 0.3	0.3 0.3	0.3			1, 2, 5	
02	Catch Bag Assembly (P/N 6650759)	Inspect Service Repair	0.2 0.2	0.2 0.2				1, 2, 5	
03	Platform Assembly (P/N 5831546)	Inspect	0.1	0.1					
05	Ammunition Box Mounting Tray Assembly (P/N 5830093)	Inspect Service Repair	0.2 0.2	0.2 0.2				1, 2, 5	
05	Caliber .50 Mounting Adapter Assembly (P/N 5830097)	Inspect Service Replace Repair	0.1 0.1	0.1 0.1				1, 2, 5	
06	Bracket Assembly, Ammunition Can, Multipurpose (P/N 12929150)	Inspect Service Replace Repair	0.1 0.1	0.1 0.1	0.3			1, 2, 5	
07	T&E Mechanism Assembly, Elevation (P/N 5830128)	Inspect Service Repair	0.3 0.3	0.3 0.3	0.3			1, 2, 5	
08	Pintle Adapter Assembly (P/N 5830131)	Inspect Service Replace Repair	0.1 0.1	0.1 0.1				1, 2, 5	
09	Adapter, Universal Pintle (P/N 12012061)	Inspect Service Repair	0.3 0.3	0.3 0.3	0.3			1, 2, 5	
10	Train and Elevation Assembly (P/N 5830123)	Inspect Service Replace Repair	0.1 0.1	0.1 0.1	0.1 0.1			1, 2, 5	

**MAINTENANCE ALLOCATION CHART (MAC) (cont)**

**MAINTENANCE ALLOCATION CHART FOR GUN MOUNTS (cont)**

**Table 8. Maintenance Allocation Chart for MK93 Mod 1 and MK93 Mod 2 Machine Gun Mounts**

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REF CODE	(6) REMARKS
			UNIT		DS	GS	DEPOT		
			C	O	F	H	D		
00	Mount, Machine Gun, MK93 Mod 1 (P/N 6650717)	Inspect	0.3	0.3				1, 2	
		Service	0.3	0.3					
		Repair		0.1	0.8				
00	Mount, Machine Gun, MK93 Mod 2 (P/N 13001175)	Inspect	0.3	0.3				1, 2	
		Service	0.3	0.3					
		Repair		0.1	0.8				
0101	Dual Mount, Machine Gun, (P/N 13001176)	Inspect	0.3	0.3				1, 2	
		Service	0.3	0.3					
		Replace			0.1				
0101	Carriage and Cradle Assembly (P/N 6650434)	Repair		0.5	1.5			1, 2	
		Inspect	0.3	0.3					
		Service	0.3	0.3					
0101	Carriage and Cradle Assembly (P/N 6650434)	Replace			0.1			1, 2	
		Repair		0.5	1.5				
		Inspect	0.3	0.3					
010101	Stop Assembly, Depression (P/N 6650561)	Service	0.3	0.3				1, 2	
		Replace			0.1				
		Repair			0.4				
0102	Carriage Assembly (P/N 6650725)	Inspect	0.3	0.3	0.3			1, 2	
		Service	0.3	0.3	0.3				
		Replace			0.1				
02	Holder Assembly, Ammo, .50 Cal (P/N 6650724)	Repair		0.1	0.3			1, 2	
		Inspect	0.3	0.3					
		Service	0.3	0.3					
03	Bracket Assembly, Multipurpose Ammunition Can (P/N 12929150)	Repair		0.1	0.3			1, 2	
		Inspect	0.3	0.3					
		Service	0.3	0.3					
04	Catch Bag Assembly (P/N 6650723)	Repair		0.1	0.3			1, 2	
		Inspect	0.3	0.3					
		Service	0.3	0.3					
05	Universal Pintle Adapter (P/N 12012061)	Repair			0.3			1, 2	
		Inspect	0.3	0.3					
		Service	0.3	0.3					
0501	Arm Assembly, Traverse (P/N 6650488)	Repair			0.1			1, 2	
		Replace			0.3				
		Service	0.3	0.3					
0502	Body Assembly (P/N 12012062)	Repair			0.3			1, 2	
		Inspect	0.3	0.3					
		Service	0.3	0.3					
06	Elevation Mechanism (P/N 5830128)	Repair			0.3			1, 2	
		Inspect	0.3	0.3					
		Service	0.3	0.3					

**Table 10. Tool and Test Equipment Requirements For Gun Mounts**

TOOL OR TEST EQUIPMENT REF CODE	MAINTENANCE LEVEL	NOMENCLATURE	NATIONAL STOCK NUMBER	TOOL NUMBER
1	F	Shop Set, Small Arms: Field Maintenance, Basic, Less Power	4933-00-754-0664	SC 4933-95-CL-A11
2	O O/F	Tool Kit, Small Arms Repairman (Marine Corps only: Kit with addition of SL-3-00607A)	5180-01-462-4254	SC 5180-95-B71
3	F	Tools Kit, Intermediate Maintenance (Marine Corps only)	5180-01-147-2468	TAMCN E26562E
4	O	Tools Kit, Organizational Maintenance (Marine Corps only)	5180-01-147-2467	TAMCN E28292E
5	F	Wrench, Spanner	5120-00-077-2081	8436748
6	F	Wrench, Spanner	5120-00-394-5416	QC70028-1

**Table 11. Remarks**

Not Applicable.

**END OF WORK PACKAGE**



**CHAPTER 11**  
**REPAIR PARTS AND SPECIAL TOOLS LIST**

TM 9-1005-245-13&P

**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST  
(INCLUDING DEPOT MAINTENANCE REPAIR PARTS) FOR GUN MOUNTS**

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**INTRODUCTION****SCOPE**

This RPSTL lists and authorizes spares and repair parts; special tools; special test, measurement and diagnostic equipment (TMDE); and other special support equipment required for performance of unit and direct support maintenance of Gun Mounts. It authorizes the requisitioning, issue, and disposition of spares, repair parts, and special tools as indicated by the source, maintenance, and recoverability (SMR) Code.

**GENERAL**

In addition to the Introduction work package, this RPSTL is divided into the following work packages.

1. **Repair Parts List Work Packages.** Work packages containing lists of spares and repair parts authorized by this RPSTL for use in the performance of maintenance. These work packages also include parts which may be removed for replacement of the authorized parts. Parts lists are composed of functional groups in ascending alphanumeric sequence, with the parts in each group listed in ascending figure and item number sequence. Sending units, brackets, filters and bolts are listed with the component they mount on. Bulk materials are listed by item name in FIG. BULK at the end of the work packages. Repair kits are listed separately in their own functional group and work package. Repair parts for reparable special tools are listed in their own functional group and work package. Repair parts for reparable special tools are also listed in separate work package. Items listed are shown on the associated illustrations.
2. **Special Tools List Work packages.** Work packages containing list of special tools, special TMDE, and special support equipment authorized by this RPSTL (as indicated by Basis of Issue (BOI) information in the DESCRIPTION AND USABLE ON CODE (UOC) column). Tools that are components of common tool sets and/or Class VII are not listed.
3. **Cross-Reference Index Work Packages.** There are three cross-reference indexes work packages in this RPSTL: the National Stock Number (NSN) Index work package, the Part Number Index work package, and the Reference Designator Index work package. The National Stock Number Index work package refers you the figure and item number. The Part Number Index work package refers you the figure and item number. The Reference Designator Index work package refers you the figure and item number.

**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST  
(INCLUDING DEPOT MAINTENANCE REPAIR PARTS) FOR GUN MOUNTS (cont)**

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**EXPLANATION OF COLUMNS IN THE REPAIR PARTS LIST AND SPECIAL TOOLS LIST WORK PACKAGES**

ITEM NO. (Column (1)). Indicates the number used to identify items called out in the illustration.

SMR CODE (Column (2)). The SMR code containing supply/requisitioning information, maintenance level authorization criteria, and disposition instruction, as shown in the following breakout:

<u>Source Code</u>	<u>Maintenance Code</u>	<u>Recoverability Code</u>
xx	<u>xx</u>	<u>x</u>
1st two positions: How to get an item.	3rd position: Who can install, replace, or use the item.	4th position: Who can do complete repair* on the item.
		5th position: Who determines disposition action on unserviceable items.

\*Complete Repair: Maintenance capacity, capability, and authority to perform all corrective maintenance tasks of the "Repair" function in a use/user environment in order to restore serviceability to a failed item.

<u>Source Code</u>	<u>Application/Explanation</u>
PA PB PC PD PE PF PG	Stock items; use the applicable NSN to requisition/request items with these source codes. They are authorized to the level indicated by the code entered in the 3rd position of the SMR code.  <p style="text-align: center;"><b>NOTE</b> Items coded PC are subject to deterioration.</p>
KD KF KB	Items with these codes are not to be requested/requisitioned individually. They are part of a kit, which is authorized to the maintenance level indicated in the 3rd position of the SMR code. The complete kit must be requisitioned and applied.

**MO** – Made at unit/AVUM level

**MF** – Made at DS/AVIM level

**MH** – Made at GS level

**ML** – Made at SRA

**MD** – Made at depot

Items with these codes are not to be requested/requisitioned individually. They must be made from bulk material, which is identified by the P/N in the DESCRIPTION AND USABLE ON CODE (UOC) column and listed in the bulk material group work package of the RPSTL. If the item is authorized to you by the 3rd position code of the SMR code, but the source code indicates it is made at a higher level, order the item from the higher level of maintenance.

**AO** - Assembled by unit/AVUM level

**AF** – Assembled by DS/AVIM level

**AH** – Assembled by GS level

**AL** – Assembled by SRA

**AD** – Assembled by depot

Items with these codes are not to be requested/requisitioned individually. The parts that make up the assembled item must be requisitioned or fabricated and assembled at the level of maintenance indicated by the source code. If the 3rd position of the SMR code authorizes you to replace the item, but the source code indicates the item is assembled at a higher level, order the item from the higher level of maintenance.

**XA** - Do not requisition an “XA” coded item. Order the next higher assembly. (Refer to NOTE below.)

**XB** - If an item is not available from salvage, order it using the CAGEC and P/N.

**XC** - Installation drawings, diagrams, instruction sheets, field service drawings; identified by manufacturer’s P/N.

**XD** - Item is not stocked. Order and XD-coded item through normal supply channels using the CAGEC and P/N given, if no NSN is available.

**NOTE**

Cannibalization or controlled exchange, when authorized, may be used as a source of supply for items with the above source codes except for those items source coded “XA” or those aircraft support items restricted by requirements of AR 750-1.

**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST  
(INCLUDING DEPOT MAINTENANCE REPAIR PARTS) FOR GUN MOUNTS (cont)**

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**EXPLANATION OF COLUMNS IN THE REPAIR PARTS LIST AND SPECIAL TOOLS LIST WORK  
PACKAGES (cont)**

Maintenance Code. Maintenance codes tell you the level(s) of maintenance authorized to use and repair support items. The maintenance codes are entered in the third and fourth positions of the SMR code as follows:

Third Position. The maintenance code entered in the third position tells you the lowest maintenance level authorized to remove, replace, and use an item. The maintenance code entered in the third position will indicate authorization to the following levels of maintenance:

**Maintenance  
Code**

**Application/Explanation**

- |          |  |
|----------|--|
| <b>C</b> | - Crew or operator maintenance done within unit/AVUM maintenance.        |
| <b>O</b> | - Unit level/AVUM maintenance can remove, replace, and use the item.     |
| <b>F</b> | - Direct support/AVIM maintenance can remove, replace, and use the item. |
| <b>H</b> | - General support maintenance can remove, replace, and use the item.     |
| <b>L</b> | - Specialized repair activity can remove, replace, and use the item.     |
| <b>D</b> | - Depot can remove, replace, and use the item.                           |

Forth Position. The maintenance code entered in the fourth position tells you whether or not the item is to be repaired and identifies the lowest maintenance level with the capability to do complete repair (perform all authorized repair functions).

**Maintenance  
Code**

**Application/Explanation**

- |          |   |
|----------|---|
| <b>O</b> | - Unit/AVUM is the lowest level that can do complete repair of the item.  |
| <b>F</b> | - Direct support/AVIM is the lowest level that can do complete repair of the item.  |
| <b>H</b> | - General support is the lowest level that can do complete repair of the item.  |
| <b>L</b> | - Specialized repair activity is the lowest level that can do complete repair of the item.  |
| <b>D</b> | - Depot is the lowest level that can do complete repair of the item.  |
| <b>Z</b> | - Non-reparable. No repair is authorized.   |
| <b>B</b> | No repair is authorized. No parts or special tools are authorized for maintenance of "B" coded item. However, the item may be reconditioned by adjusting, lubricating, etc., at the user level. |

Recoverability Code. Recoverability codes are assigned to items to indicate the disposition action on unserviceable items. The recoverability code is shown in the fifth position of the SMR code as follows:

**Recoverability Code**

**Application/Explanation**

<b>Z</b>	- Non-reparable item. When unserviceable, condemn and dispose of the item at the level of maintenance shown in the third position of the SMR code.
<b>O</b>	- Reparable item. When uneconomically reparable, condemn and dispose of the item at the unit support level.
<b>F</b>	- Reparable item. When uneconomically reparable, condemn and dispose of the item at the direct support level.
<b>H</b>	- Reparable item. When uneconomically reparable, condemn and dispose of the item at the general support level.
<b>D</b>	- Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal of item are not authorized below depot level.
<b>L</b>	- Reparable item. Condemnation and disposal of item are not authorized below Specialized Repair Activity (SRA).
<b>A</b>	- Item requires special handling or condemnation procedures because of specific reasons (such as precious metal content, high dollar value, critical material, or hazardous material). Refer to appropriate manuals/directives for specific instructions.

NSN (Column (3)). The NSN for the item is listed in this column.

CAGEC (Column (4)). The Commercial and Government Entity Code (CAGEC) is a five-digit code which is used to identify the manufacture, distributor, or Government agency/activity that supplies the item.

PART NUMBER (Column (5)). Indicates the primary number used by the manufacturer (individual company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items.

**NOTE**

When you use an NSN to requisition an item, the item you receive may have a different P/N from the number listed.

DESCRIPTION AND USABLE ON CODE (UOC) (Column (6)). This column includes the following information:

1. The federal item name, and when required, a minimum description to identify the item.
2. P/N's of bulk materials are referenced in this column in the line entry to be manufactured or fabricated.
3. Hardness Critical Item (HCI). A support item that provides the equipment with special protection from electromagnetic pulse (EMP) damage during a nuclear attack.
4. The statement "END OF FIGURE" appears just below the last item description in column (6) for a given figure in both the repair parts list and special tools list work packages.

**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST  
(INCLUDING DEPOT MAINTENANCE REPAIR PARTS) FOR GUN MOUNTS (cont)**

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**EXPLANATION OF CROSS-REFERENCE INDEXES WORK PACKAGES FORMAT AND COLUMNS  
(cont)**

QTY (Column (7)). The QTY (quantity per figure) column indicates the quantity of the item used in the breakout shown on the illustration/figure, which is prepared for a functional group, sub-functional group, or an assembly. A "V" appearing in this column instead of a quantity indicates that the quantity is variable and quantity may change from application to application.

**EXPLANATION OF CROSS-REFERENCE INDEXES WORK PACKAGES FORMAT AND COLUMNS**

1. National Stock Number (NSN) Index Work Package.

STCOK NUMBER Column. This column lists the NSN in National item identification number (NIIN) sequence. The NIIN consists of the last nine digits of the NSN.

<u>NSN</u> (e.g., 5385-01-574-1476)	When using this column to locate an item, ignore the first four digits of the NSN. However, the complete NSN should be used when ordering items by stock number.
NIIN	

FIG. Column. This column lists the number of the figure where the item is identified/located. The figures are in numerical order in the repair parts list and special tools list work packages.

ITEM Column. The item number identifies the item associated with the figure listed in the adjacent FIG. Column. This item is also identified by the NSN listed on the same line.

2. Part Number (P/N) Index Work Package. P/ns in this index are listed in ascending alphanumeric sequence (vertical arrangement of letter and number combinations which places the first letter of digit of each group in order A through Z, followed by numbers 0 through 9 and each following letter or digit in like order.

PART NUMBER Column. Indicates the P/N assigned to the item/

FIG. Column. This column lists the number of the figure where the item is identified/located in the repair parts list and special tools list work packages.

ITEM Column. The item number is the number assigned to the item as it appears in the figure referenced in the adjacent figure number column.

Reference Designator Index Work Package. Reference designators in this index are listed in ascending alphanumeric sequence (vertical arrangement of letter and number combinations which places the first letter of digit of each group in order A through Z, followed by numbers 0 through 9 and each following letter or digit in like order.

REFERENCE DESIGNATOR Column. Indicates the reference designator assigned to the item.

FIG. Column. This column lists the number of the figure where the item is identified/located in the repair parts list and special tools list work packages.

ITEM Column. The item number is the number assigned to the item as it appears in the figure referenced in the adjacent figure number column.

**SPECIAL INFORMATION**

UOC. The UOC appears in the lower left corner of the Description Column heading. Usable on codes are shown as "UOC:..." in the Description Column (justified left) on the first line under the applicable item/nomenclature. Uncoded items are applicable to all models. Identification of the UOCs used in the RPSTL are:

<u>Code</u>	<u>Used On</u>
AK3	MK64 MOD 5 Machine Gun Mount
AM5	M122 Machine Gun Tripod
AM7	M142 Machine Gun Tripod
AM8	6650, .50 Caliber, Machine Gun Mount
AN0	M3 Machine Gun Tripod
AY8	MK93 MOD 1 Machine Gun Mount
BC5	M122A1 Machine Gun Mount
BB8	M197 Machine Gun Mount
BB9	MK64 MOD 9 Machine Gun Mount
BL5	M192 Machine Gun Tripod
BL4	MK93 MOD 2 Machine Gun Mount

Fabrication Instructions. Bulk materials required to manufacture items are listed in the bulk material functional group of the RPSTL. Part numbers for bulk material are also referenced in the Description Column of the line item entry for the item to be manufactured/fabricated. Detailed fabrication instructions for the items source coded to be manufactured or fabricated are found in this manual.

**HOW TO LOCATE REPAIR PARTS**

1. When NSNs or P/Ns Are Not Known.

First. Using the table of contents, determine the assembly group to which the item belongs. This is necessary since figures are prepared for assembly groups and sub-assembly groups, and lists are divided into the same groups.

Second. Find the figure covering the functional group or the sub-functional group to which the item belongs.

Third. Identify the item on the figure and note the number(s).

Fourth. Look in the repair parts list work packages for the figure and item numbers. The NSNs and part numbers are on the same line as the associated item numbers.

**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST  
(INCLUDING DEPOT MAINTENANCE REPAIR PARTS) FOR GUN MOUNTS (cont)**

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**HOW TO LOCATE REPAIR PARTS (cont)**

## 2. When NSN Is Known.

First. If you have the NSN, look in the STOCK NUMBER column of the NSN index work package. The NSN is arranged in NIIN sequence. Note the figure and item number next to the NSN.

Second. Turn to the figure and locate the item number. Verify that the item is the one you are looking for.

## 3. When P/N Is Known.

First. If you have the P/N and not the NSN, look in the PART NUMBER column of the P/N index work package. Identify the figure and item number.

Second. Look up the item on the figure in the applicable repair parts list work package.

## 4. When Reference Designator Is Known.

First. If you know the reference designator, look in the REFERENCE DESIGNATOR column of the reference designator index work package. Note the figure and item number.

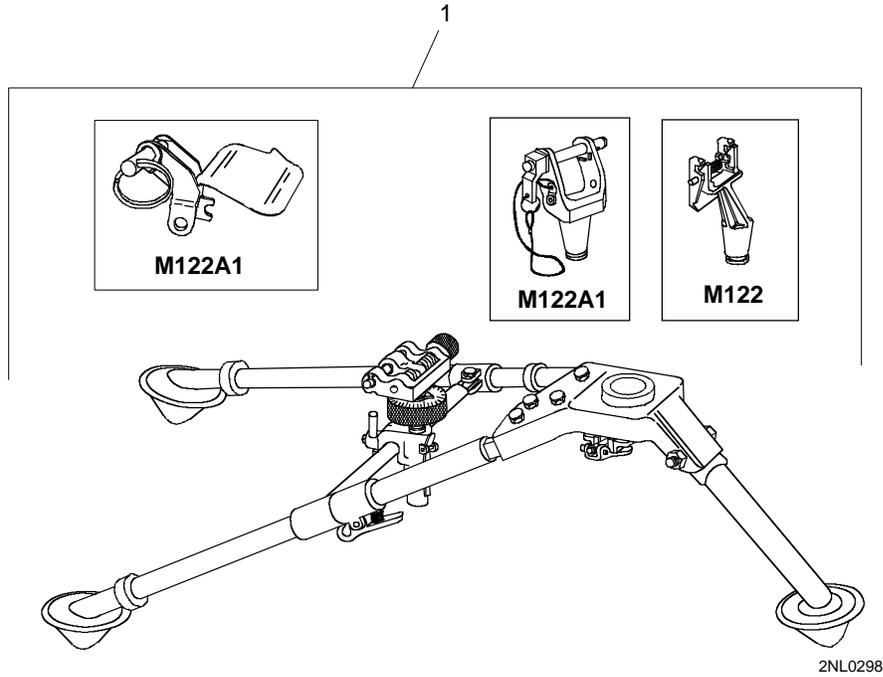
Second. Turn to the figure and locate the item number. Verify that the item is the one you are looking for.

**ABBREVIATIONS.** N/A

**REPAIR PARTS AND SPECIAL TOOLS LIST**  
**FOR**  
**M122 MOUNT TRIPOD**  
**AND**  
**M122A1 MOUNT TRIPOD**

TM 9-1005-245-13&P

**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
TRIPOD, MACHINE GUN, M122, NSN 1005-00-710-5599, P/N 7790723; AND  
TRIPOD, MACHINE GUN, M122A1, NSN 1005-01-433-1617, P/N 12976948**



**Figure 1. Tripod, Machine Gun, M122, P/N 7790723;  
Tripod, Machine Gun, M122A1, P/N 12976948 (Assembled View)**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 00						
FIGURE 1. TRIPOD, MACHINE GUN M122, P/N 7790723; TRIPOD, MACHINE GUN M122A1, P/N 12976948						
1	PAOFF	1005-00-710-5599	19205	7790723	TRIPOD, MACHINE GUN, M122 .....	1
1	PAOFF	1005-01-433-1617	19200	12976948	TRIPOD, MACHINE GUN, M122A1 .....	1

**END OF FIGURE**

**END OF WORK PACKAGE**



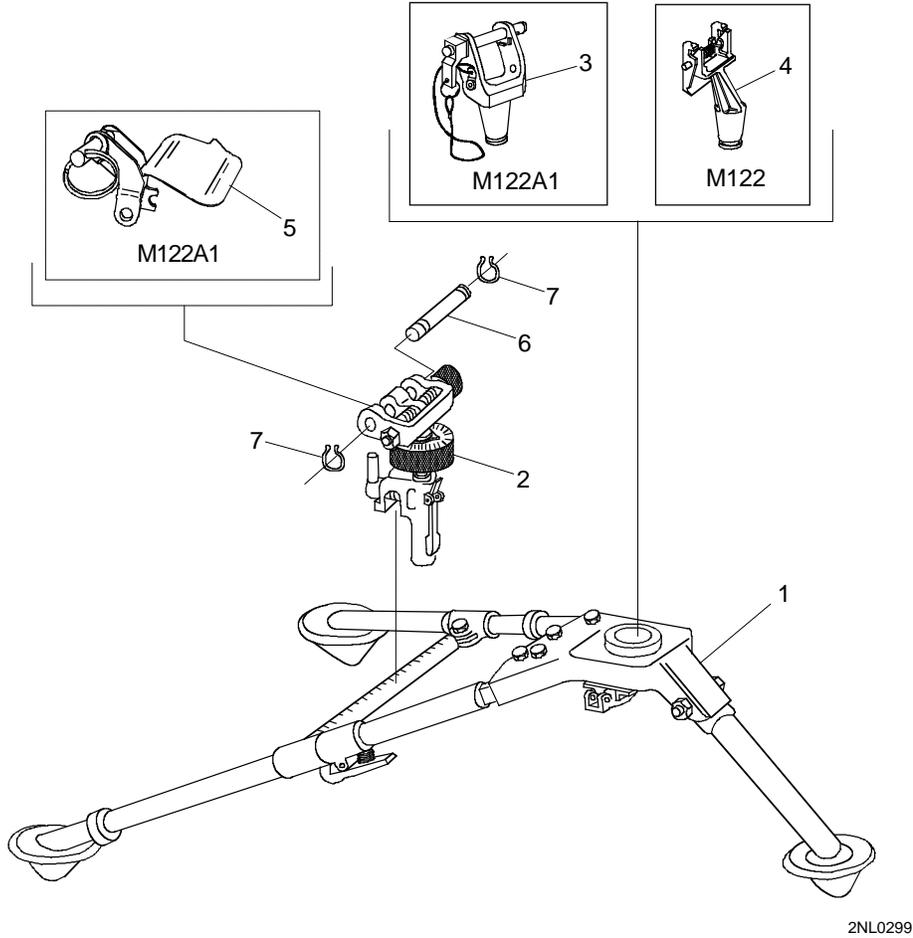
**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
TRIPOD, MACHINE GUN, M122, NSN 1005-00-710-5599, P/N 7790723; AND  
TRIPOD, MACHINE GUN, M122A1, NSN 1005-01-433-1617, P/N 12976948**

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**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
TRIPOD, MACHINE GUN, M122, NSN 1005-00-710-5599, P/N 7790723; AND  
TRIPOD, MACHINE GUN, M122A1, NSN 1005-01-433-1617, P/N 12976948**

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2NL0299

**Figure 2. Tripod, Machine Gun, M122, P/N 7790723;  
Tripod, Machine Gun, M122A1, P/N 12976948**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 00						
1	XAOFF		19200	7790948	FIGURE 2. TRIPOD, MACHINE GUN, M122, P/N 7790723; TRIPOD, MACHINE GUN, M122A1, P/N 12976948 TRIPOD LEG ASSEMBLY SEE FIG. 3 FOR BRKDWN UOC: AM5, BC5 .....	1
2	PAOFF	1005-00-603-4834	19205	7791119	ELEVATING AND TRAVERSING MECHANISM ASSEMBLY SEE FIG. 5 AND 6 FOR BRKDWN UOC: AM5, BC5 .....	1
3	PAOOO	1005-01-461-2656	19200	12986102	PINTLE MOUNT SEE FIG. 8 FOR BRKDWN UOC: BC5 .....	1
4	PAOOO	1005-00-945-9756	19205	11010408	PINTLE MOUNT SEE FIG. 7 FOR BRKDWN UOC: AM5, BB8 .....	1
5	AOOOO		19200	12990570	ADAPTER ASSEMBLY SEE FIG. 9 FOR BRKDWN UOC: BC5 .....	1
6	PAOZZ	5315-00-809-5417	19205	7792993	PIN, GROOVED, HEADLESS UOC: AM5, BC5 .....	1
7	PAOZZ	5325-00-803-7315	96906	MS16624- 1043	RING, RETAINING UOC: AM5, BC5 .....	2

END OF FIGURE

END OF WORK PACKAGE

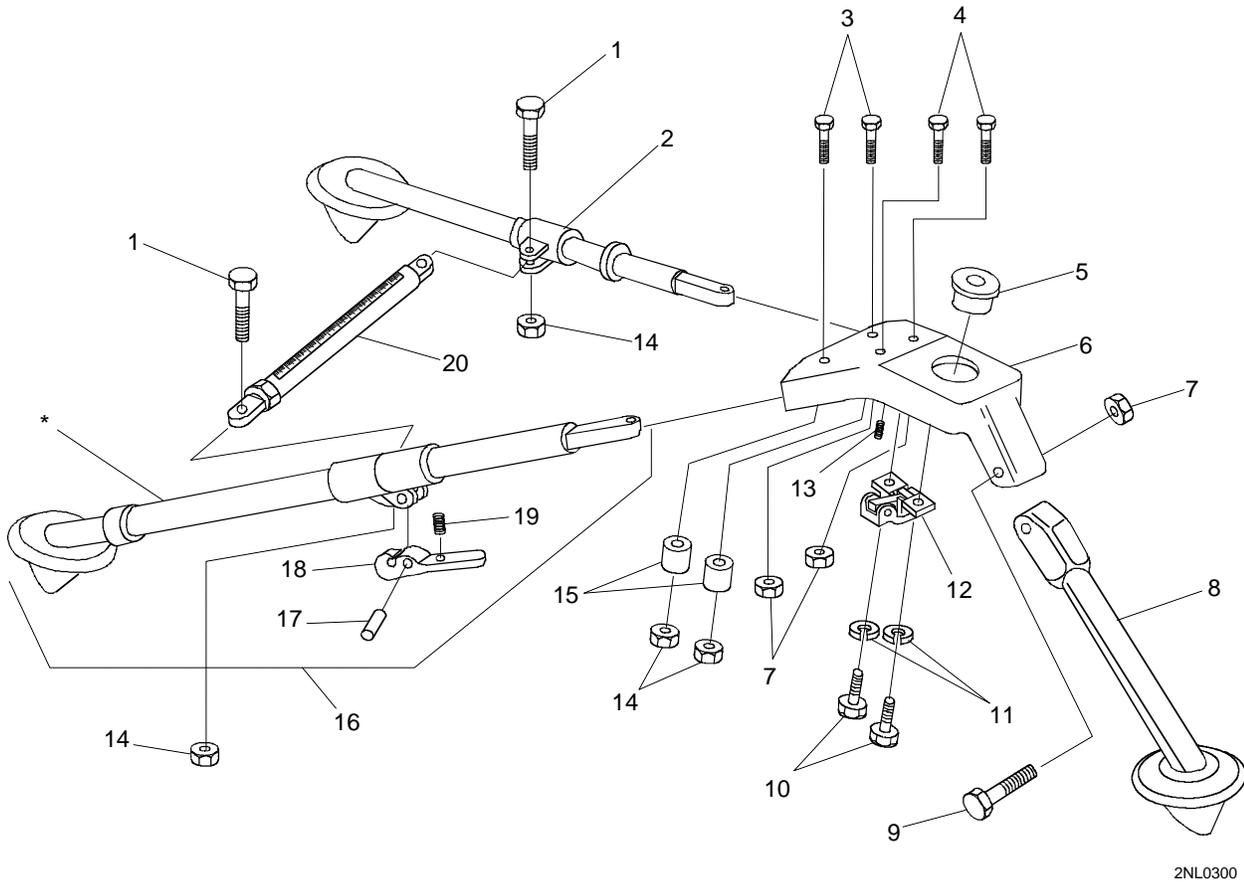


**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
TRIPOD LEG ASSEMBLY, NSNA, P/N 7790948, AND  
LEG, TRIPOD MOUNT, NSN 1005-00-555-9337, P/N 5559337**

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**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
TRIPOD LEG ASSEMBLY, NSNA, P/N 7790948 AND  
LEG, TRIPOD MOUNT, NSN 1005-00-555-9337, P/N 5559337 (cont)**



2NL0300

\* No further disassembly authorized

**Figure 3. Tripod Leg Assembly, P/N 7790948;  
Leg, Tripod Mount, P/N 5559337**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
					GROUP 01, 0101	
					FIGURE 3. TRIPOD, LEG ASSEMBLY, P/N 7790948; LEG, TRIPOD MOUNT, P/N 5559337	
1	PAFZZ	5306-00-516-9880	19200	5169880	BOLT, MACHINE UOC: AM5, BC5.....	2
2	PAFZZ	1005-00-555-9338	19204	5559338	LEG, TRIPOD MOUNT UOC: AM5, BC5.....	1
3	PAFZZ	5306-00-516-9881	19204	5169881	BOLT, MACHINE UOC: AM5, BC5.....	2
4	PAFZZ	5306-00-516-9882	19204	5169882	BOLT, MACHINE UOC: AM5, BC5.....	2
5	PAFZZ	3120-00-610-8201	19205	6108201	BUSHING, SLEEVE UOC: AM5, BC5.....	1
6	XAFZZ		19204	5559331	HEAD UOC: AM5, BC5.....	1
7	PAOZZ	5310-00-732-0559	96906	MS51968-8	NUT, PLAIN, HEXAGON UOC: AM5, BC5.....	3
8	PAOZZ	1005-00-610-8195	19204	6108195	LEG, TRIPOD MOUNT UOC: AM5, BC5.....	1
9	PAOZZ	5306-00-516-9879	19204	5169879	BOLT, MACHINE UOC: AM5, BC5.....	1
10	PAOZZ	5305-00-514-1950	19204	5141950	SCREW, MACHINE UOC: AM5, BC5.....	2
11	PAOZZ	5310-00-550-1130	80205	MS35333-40	WASHER, LOCK UOC: AM5, BC5.....	2
12	PAOFF	1005-00-610-8986	19204	6108986	LOCK ASSEMBLY, PINTLE SEE FIG. 4 FOR BRKDOWN UOC; AM5, BC5.....	1
13	PAFZZ	5305-00-054-6869	80205	MS51031-48	SETSCREW UOC: AM5, BC5.....	1
14	PAFZZ	5310-00-768-0319	96906	MS51968-2	NUT, PLAIN, HEXAGON UOC: AM5, BC5.....	4
15	PAFZZ	5365-00-513-9962	19200	5139962	SPACER, SLEEVE UOC: AM5, BC5.....	2
16	PAFFF	1005-00-555-9337	19204	5559337	LEG, TRIPOD MOUNT UOC; AM5, BC5.....	1
17	PAFZZ	5315-00-514-0004	19207	5140004	.. PIN, STRAIGHT, HEADLESS UOC: AM5, BC5.....	1
18	PAFZZ	5342-00-513-9959	19205	5139959	.. LATCH, SLEEVE UOC: AM5, BC5.....	1
19	PAFZZ	5360-00-513-9997	19205	5139997	.. SPRING, HELICAL, COMPRESSION UOC; AM5, BC5.....	1
20	PAFZZ	1005-00-555-9333	19205	5559333	BAR ASSEMBLY, TRAVERSING UOC: AM5, BC5.....	1

END OF FIGURE

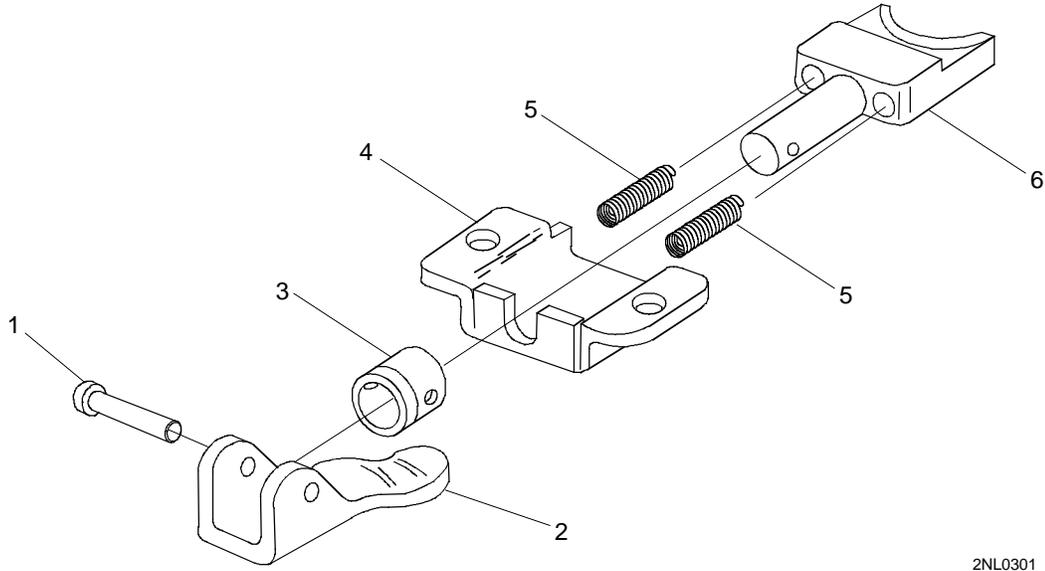
\*MARINE CORPS ONLY

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**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
LOCK ASSEMBLY, PINTLE, NSN 1005-00-610-8986, P/N 6108986**



2NL0301

**Figure 4. Lock Assembly, Pintle, P/N 6108986**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 0102						
FIGURE 4. LOCK ASSEMBLY, PINTLE, P/N 6108986						
1	PAFZZ	5320-00-915-8185	19205	11010448	RIVET, SOLID UOC: AM5, BC5 .....	1
2	PAFZZ	1005-00-514-1080	19205	5141080	CAM, PINTLE LOCK RELEASE UOC: AM5, BC5 .....	1
3	XAFZZ		19205	5141081	COLLAR, SHAFT UOC: AM5, BC5 .....	1
4	XAFZZ		19205	6140648	HOUSING UOC: AM5, BC5 .....	1
5	PAFZZ	5360-00-514-2877	19205	5142877	SPRING, HELICAL, COMPRESSION UOC: AM5, BC5 .....	2
6	XAFZZ		19205	5141121	BODY UOC: AM5, BC5 .....	1

**END OF FIGURE**

**END OF WORK PACKAGE**



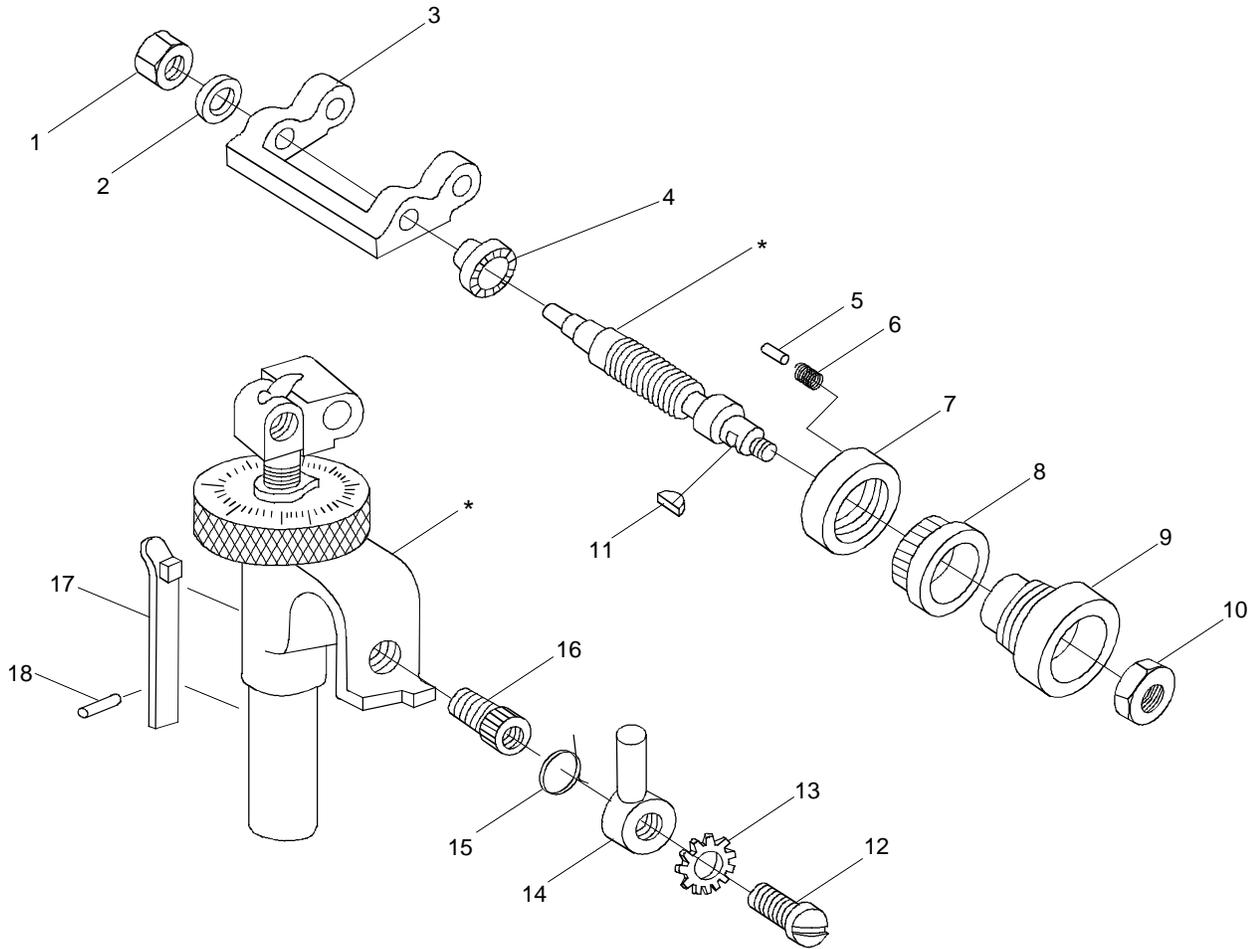
**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
ELEVATING AND TRAVERSING MECHANISM ASSEMBLY (TRAVERSING AND CLAMPING UNIT),  
NSN 1005-00-603-4834, P/N 7791119**

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**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
ELEVATING AND TRAVERSING MECHANISM ASSEMBLY (TRAVERSING AND CLAMPING UNIT),  
NSN 1005-00-603-4834, P/N 7791119 (cont)**

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\* ISSUED AS A SET – SEE FIGURE 6

**Figure 5. Elevating and Traversing Mechanism Assembly  
(Traversing and Clamping Unit), P/N 7791119**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 02						
FIGURE 5. ELEVATING AND TRAVERSING MECHANISM ASSEMBLY (TRAVERSING AND CLAMPING UNIT), P/N 7791119						
1	PAFZZ	5310-01-374-0508	96906	MS51943-2	NUT, SELF-LOCKING, HEX UOC: AM5, BC5 .....	1
2	PAFZZ	5310-00-517-4192	19205	5174192	WASHER, FLAT UOC: AM5, BC5 .....	1
3	XAFZZ		19204	11010037	YOKE UOC: AM5, BC5 .....	1
4	PAFZZ	1005-00-588-3490	19205	5174175	RING, TRAVERSING, MECHANISM UOC: AM5, BC5 .....	1
5	PAFZZ	5315-00-517-1495	19205	5171495	PIN, STRAIGHT, HEADLESS UOC: AM5, BC5 .....	1
6	PAFZZ	5360-00-915-5615	19205	11010547	SPRING, HELICAL, COMPRESSION UOC: AM5, BC5 .....	1
7	PAFZZ	4730-00-517-1491	19207	5171491	NUT, UNION UOC: AM5, BC5 .....	1
8	PAFZZ	5355-00-517-1492	19205	5171492	RING, TRAVERSING MECHANISM UOC; AM5, BC5 .....	1
9	PAFZZ	5355-00-615-8375	19207	6158375	KNOB UOC: AM5, BC5 .....	1
10	PAFZZ	5310-00-935-3750	96906	MS51943-4	NUT, SELF-LOCKING, HEX UOC: AM5, BC5 .....	1
11	PAFZZ	5315-00-616-5517	80205	MS35756-2	KEY, WOODRUFF UOC: AM5, BC5 .....	1
12	PAOZZ	5305-00-513-9989	19205	5139989	SCREW, MACHINE UOC: AM5, BC5 .....	1
13	PAOZZ	5310-00-949-1971	19205	11010413	WASHER, LOCK UOC: AM5, BC5 .....	1
14	PAOZZ	1005-00-722-3850	19205	7793002	LEVER, TRAVERSING UOC; AM5, BC5 .....	1
15	PAOZZ	5360-00-473-5447	19205	7793003	SPRING, HELICAL, TORSION UOC: AM5, BC5 .....	1
16	PAOZZ	5305-00-513-9988	19205	5139988	SCREW, MACHINE UOC: AM5, BC5 .....	1
17	PAFZZ	1005-00-518-9757	19205	5189757	STOP ASSEMBLY, ELEVATING UOC: AM5, BC5 .....	1
18	PAFZZ	5315-00-051-8636	80205	MS16562-120	PIN, SPRING UOC: AM5, BC5 .....	1

END OF FIGURE

END OF WORK PACKAGE



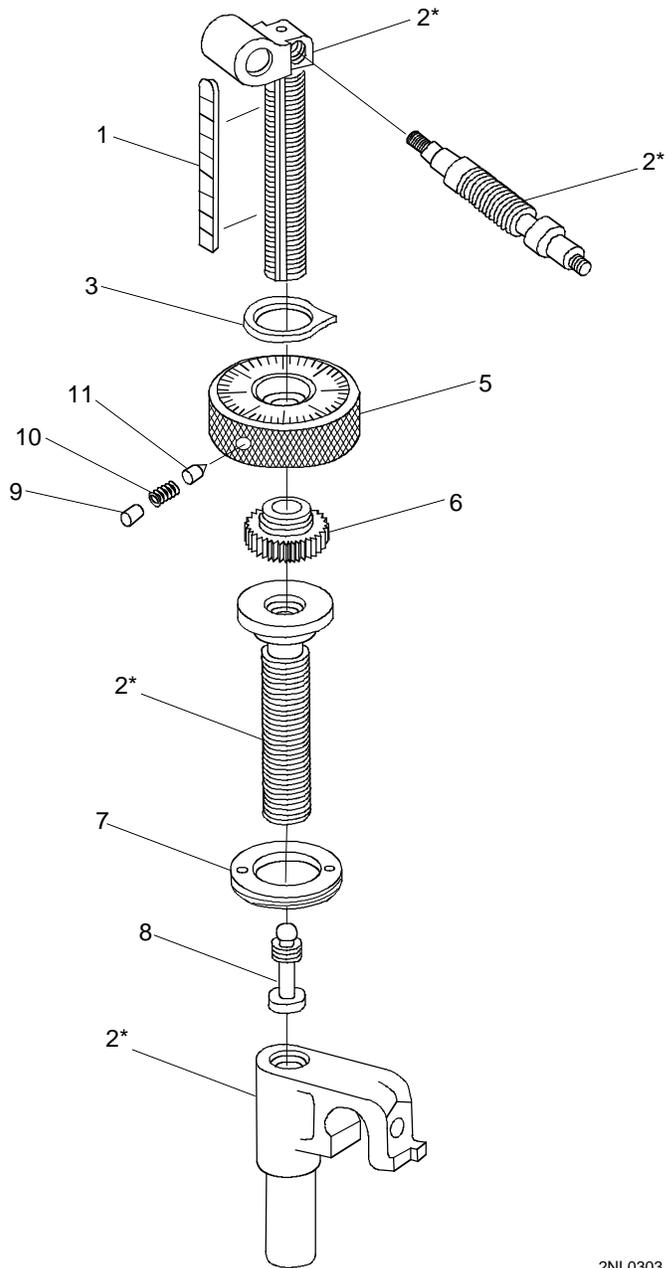
**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
ELEVATING AND TRAVERSING MECHANISM ASSEMBLY (ELEVATING UNIT),  
NSN 1005-00-603-4834, P/N 7791119**

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**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
ELEVATING AND TRAVERSING MECHANISM ASSEMBLY (ELEVATING UNIT),  
NSN 1005-00-603-4834, P/N 7791119 (cont)**

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2NL0303

**Figure 6. Elevating and Traversing Mechanism Assembly  
(Elevating Unit), P/N 7791119**

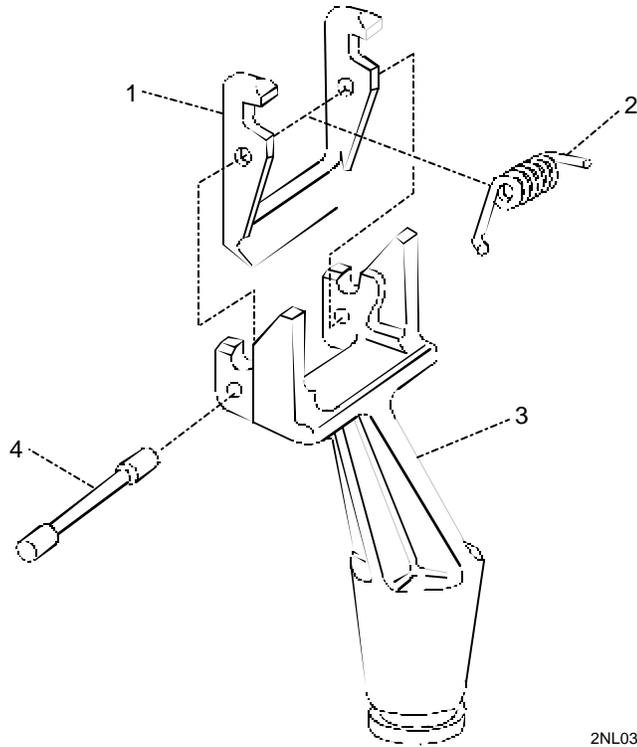
(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 02						
FIGURE 6. ELEVATING AND TRAVERSING MECHANISM ASSEMBLY (ELEVATING UNIT), P/N 7791119						
1	PAFZZ	1005-00-919-7273	19205	11010242	PLATE, SCALE UOC: AM5, BC5 .....	1
2	XAFZZ		19204	7793004	ELEVATING SCREW ASSEMBLY (ISSUED AS A SET) UOC: AM5, BC5 .....	1
3	PAFZZ	5355-00-513-9982	19204	5139982	POINTER, DIAL UOC: AM5, BC5 .....	1
4	PAFZZ	5305-00-514-0612	19204	5140612	SETSCREW UOC: AM5, BC5 .....	1
5	PAFZZ	5355-00-610-8211	19204	6108211	KNOB UOC: AM5, BC5 .....	1
6	PAFZZ	1005-00-513-9994	19204	5139994	RING, CLICK, HANDWHEEL UOC: AM5, BC5 .....	1
7	PAFZZ	5365-00-514-0485	19205	5140485	RING, EXTERNALLY THREADED UOC: AM5, BC5 .....	1
8	PAFZZ	1005-00-840-8768	19204	8408768	STOP, ELEVATION UOC: AM5, BC5 .....	1
9	PAFZZ	5340-00-513-9995	19204	5139995	DISK, SOLID, PLAIN UOC: AM5, BC5 .....	1
10	PAFZZ	5360-00-915-5616	19205	11010523	SPRING, HELICAL, COMPRESSION UOC: AM5, BC5 .....	1
11	PAFZZ	5315-00-915-8174	19205	11010522	PIN, STRAIGHT, HEADLESS UOC: AM5, BC5 .....	1

END OF FIGURE

END OF WORK PACKAGE



**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
PINTLE, MOUNT, NSN 1005-00-945-9756, P/N 11010408**



**Figure 7. Mount, Pintle, P/N 11010408**

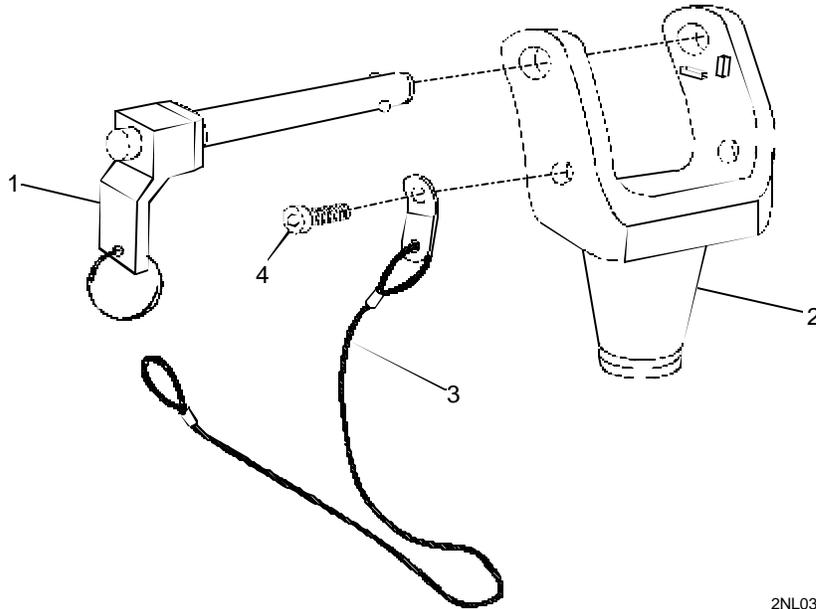
(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 03						
FIGURE 7. MOUNT, PINTLE, P/N 11010408						
1	PAOZZ	5340-00-945-9768	19205	11010409	LEVER, LOCK RELEASE UOC: AM5 .....	1
2	PAOZZ	5360-00-945-9954	19204	11010410	SPRING, HELICAL, TORSION UOC: AM5 .....	1
3	XAOZZ		19204	11010412	PINTLE UOC: AM5 .....	1
4	PAOZZ	5315-00-947-7250	19205	11010411	PIN, GROOVED, HEADLESS UOC: AM5 .....	1

**END OF FIGURE**

**END OF WORK PACKAGE**



**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
PINTLE, MOUNT, NSN 1005-01-461-2656, P/N 12986102**



2NL0305

**Figure 8. Mount, Pintle, P/N 12986102**

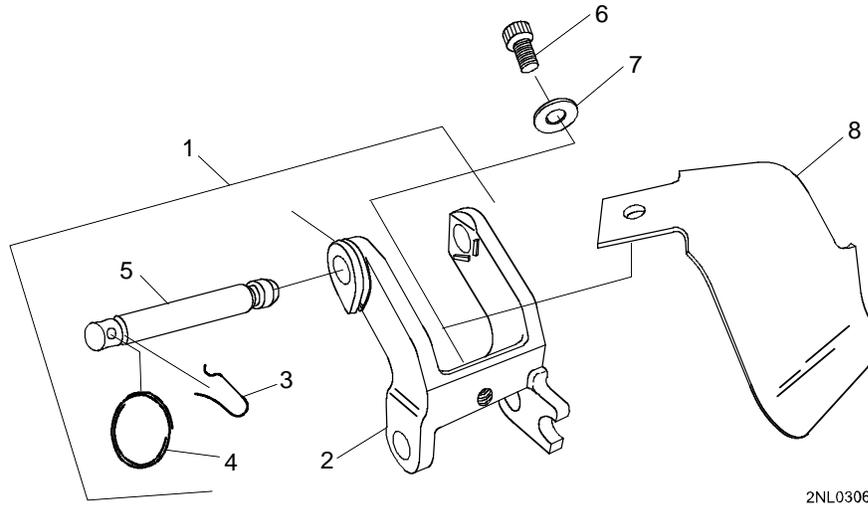
(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND CODE USABLE ON (UOC)	(7) QTY
GROUP 03						
1	PAOZZ	5315-01-461-2651	19200	12986104	FIGURE 8. MOUNT, PINTLE, P/N 12986102 PIN, QUICK RELEASE UOC: BC5.....	1
2	XAOZZ		19200	12986103	PINTLE UOC: BC5.....	1
3	PAOZZ	4010-01-151-6230	53711	2843009	CABLE ASSEMBLY UOC: BC5.....	1
4	PAOZZ	5305-00-052-9329	80205	MS16996-21	SCREW, CAP UOC: BC5.....	1

**END OF FIGURE**

**END OF WORK PACKAGE**



**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
ADAPTER ASSEMBLY, NSNA, P/N 12990570 AND  
FORK ASSEMBLY, NSN 1005-01-225-1156, P/N 9378233**



**Figure 9. Adapter Assembly, P/N 12990570 and  
Fork Assembly, P/N 9378233**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
					GROUP 04, 0401	
					FIGURE 9. ADAPTER ASSEMBLY, P/N 12990570 AND FORK ASSEMBLY, TRIPOD, P/N 9378233	
1	PAOOO	1005-01-225-1156	19200	9378233	FORK ASSEMBLY UOC: AM5, BB8, BC5.....	1
2	XAOZZ		19200	9378232	. FORK UOC: AM5, BB8, BC5.....	1
3	PAOZZ	5340-01-225-8545	19200	9378231	. CLIP UOC: AM5, BB8, BC5.....	1
4	PAOZZ	1005-01-223-2892	19200	9378229	. RING UOC: AM5, BB8, BC5.....	1
5	PAOZZ	5315-01-225-8635	19200	9378228	. PIN UOC: AM5, BB8, BC5.....	1
6	PAOZZ	5305-00-052-9329	80205	MS16996-21	SCREW, CAP, SOCKET UOC: BB8, BC5.....	1
7	PAOZZ	5310-00-809-4058	96906	MS27183-10	WASHER, FLAT UOC: BB8, BC5.....	1
8	PAOZZ	1005-01-470-5701	19200	12990569	DEFLECTOR UOC: BB8, BC5.....	1

**END OF FIGURE**

**END OF WORK PACKAGE**

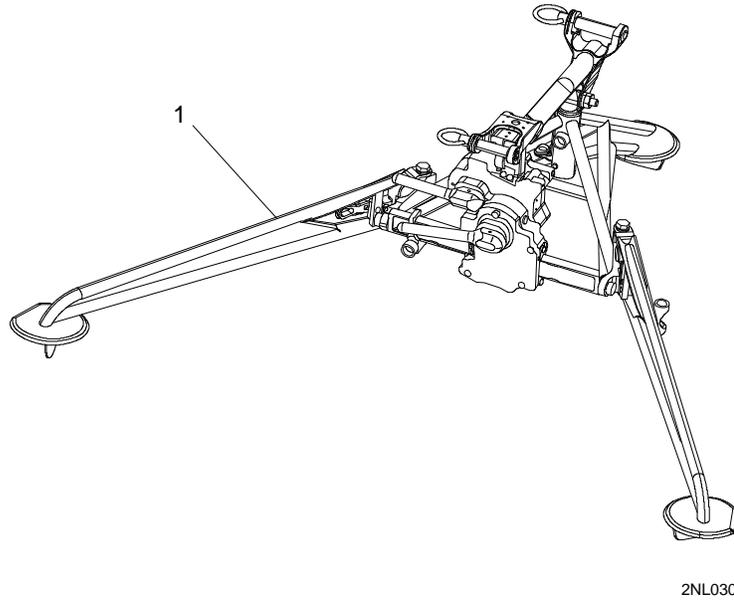


**TM 91-005-245-13&P**

**REPAIR PARTS AND SPECIAL TOOLS LIST**  
**FOR**  
**M192 LIGHTWEIGHT TRIPOD**

TM 91-005-245-13&P

**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
M192 LIGHTWEIGHT TRIPOD, NSN 1005-01-503-0141, P/N 13001669**



**Figure 1. M192 Lightweight Tripod, (Assembled View), P/N 13001669**

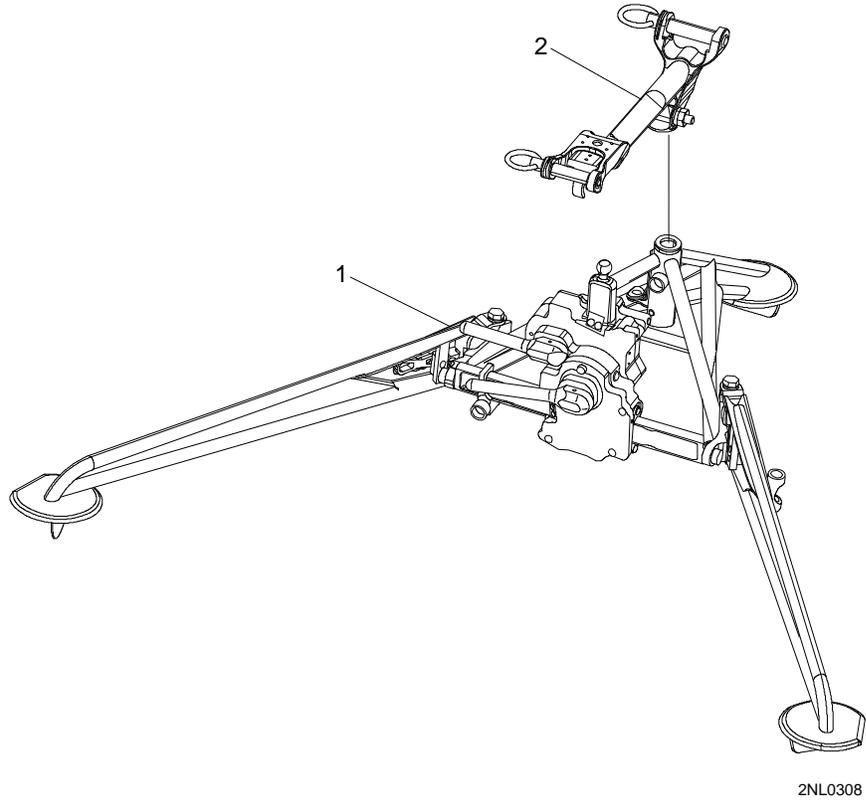
(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
					GROUP 00	
					FIGURE 1. M192 LIGHTWEIGHT TRIPOD, P/N 13001669	
1	PAOOO	1005-01-503-0141	19200	13001669	M192 LIGHTWEIGHT TRIPOD SEE FIG. 2 FOR BRKDOWN.....	1

**END OF FIGURE**

**END OF WORK PACKAGE**



**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
M192 LIGHTWEIGHT TRIPOD, NSN 1005-01-503-0141, P/N 13001669**



**Figure 2. M192 Lightweight Tripod, P/N 13001669**

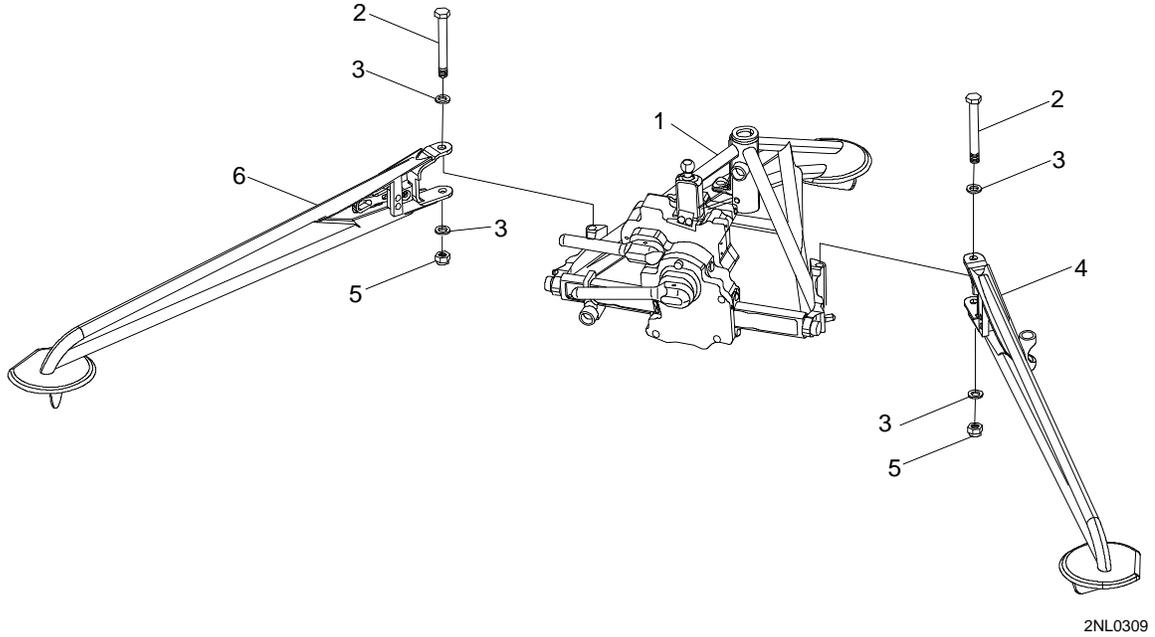
(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 00						
FIGURE 2. M192 LIGHTWEIGHT TRIPOD, P/N 13001669						
1	A0000		19200	13001670	TRIPOD ASSEMBLY SEE FIG. 3 FOR BRKDNW.....	1
2	PA000	1005-01-515-8270	19200	13001717	BRACKET ASSEMBLY, MOUNTING SEE FIG. 7 FOR BRKDNW.....	1

**END OF FIGURE**

**END OF WORK PACKAGE**



**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
TRIPOD ASSEMBLY, NSN , P/N 13001670**



**Figure 3. Tripod Assembly, P/N 13001670**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 01						
1	AOOOO		19200	13001671	FIGURE 3. TRIPOD ASSEMBLY, P/N 13001670 FRAME ASSEMBLY, TRIPOD SEE FIG. 4 FOR BRKDNW.....	1
2	PAOZZ	5306-01-521-4554	19200	13001684	BOLT, MACHINE.....	2
3	PAOZZ	5310-01-523-2318	19200	13001705	WASHER, FLAT.....	4
4	PAOOO	1005-01-516-6461	19200	13001694	LEG ASSEMBLY, RIGHT REAR SEE FIG. 5 FOR BRKDNW.....	1
5	PAOZZ	5310-01-523-4870	19200	13001704	NUT, SELF LOCKING.....	2
6	PAOOO	1005-01-516-9185	19200	13001708	LEG ASSEMBLY, LEFT REAR SEE FIG. 5 FOR BRKDNW.....	1

**END OF FIGURE**

**END OF WORK PACKAGE**



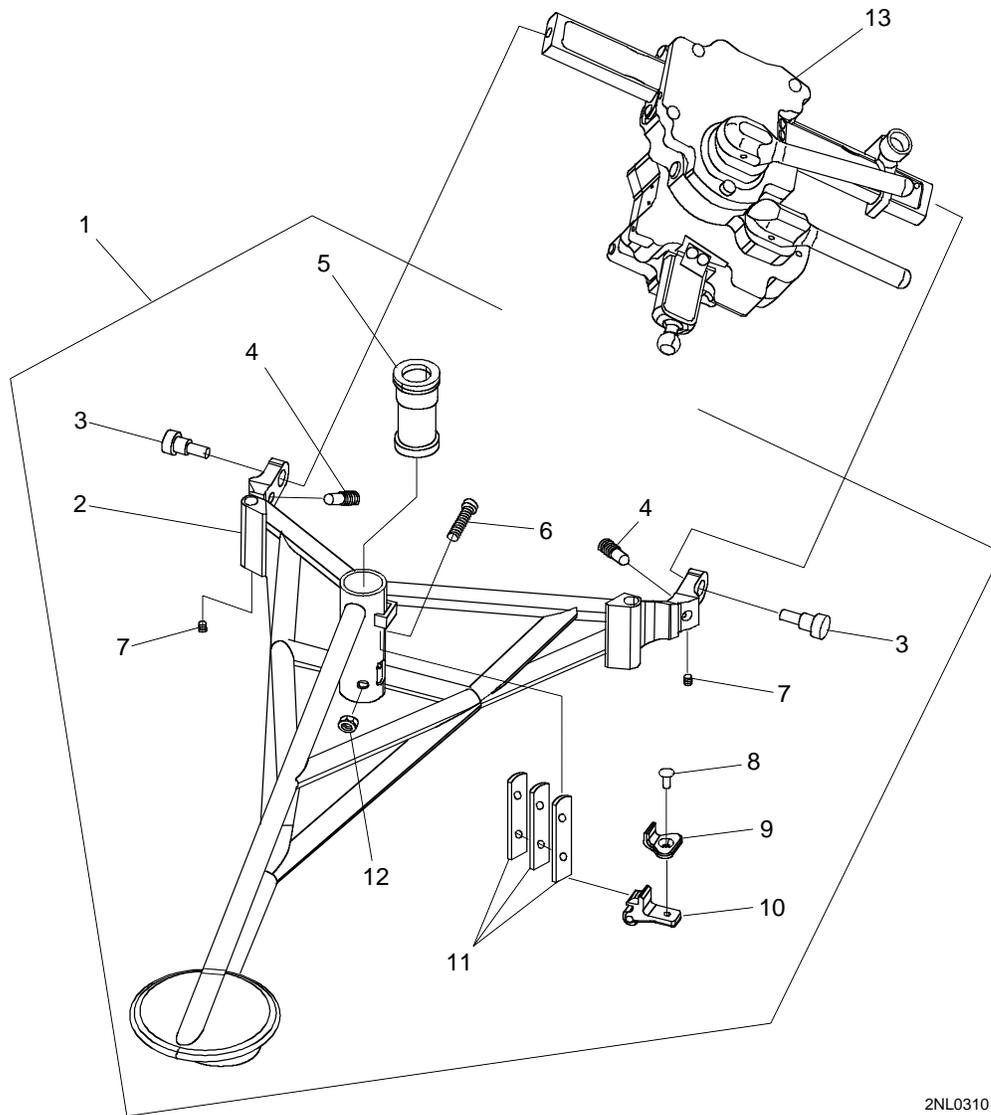
**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
FRAME ASSEMBLY, TRIPOD, NSNA, P/N 13001671**

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**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
FRAME ASSEMBLY, TRIPOD, NSNA, P/N 13001671 (cont)**

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2NL0310

**Figure 4. Frame Assembly, Tripod, P/N 13001671**

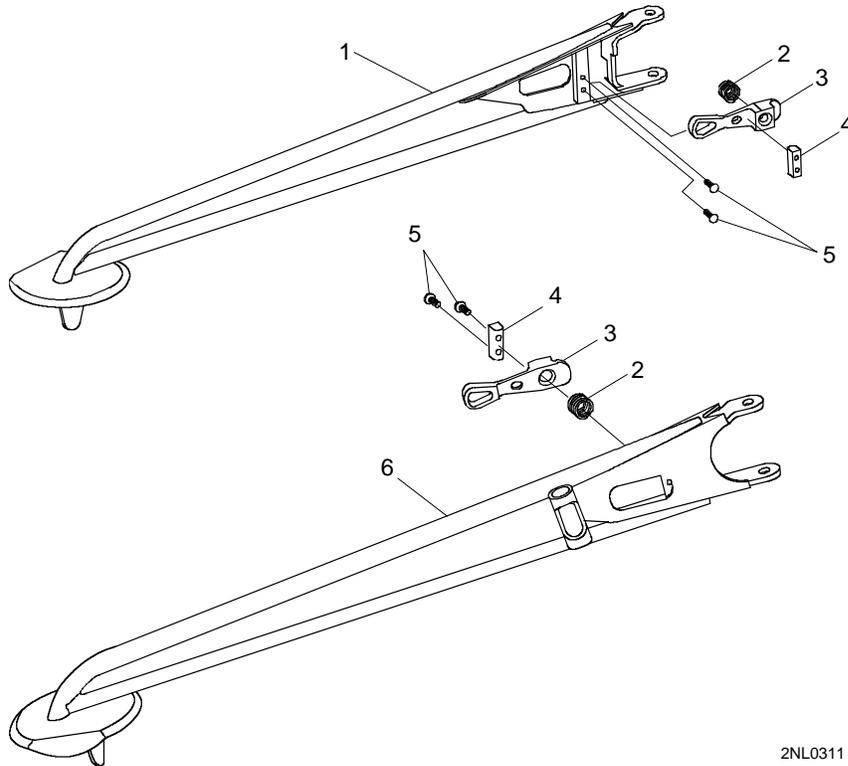
(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
					GROUP 0101	
					FIGURE 4. FRAME ASSEMBLY, TRIPOD, P/N 13001671	
1	PAOOO	1005-01-516-9184	19200	13001678	FRAME ASSEMBLY .....	1
2	XAOZZ		19200	13001672	FRAME, WELDMENT .....	1
3	PAOZZ	5360-01-521-6073	19200	13001687	BOLT, SHOULDER .....	2
4	PAOZZ	5307-01-516-3964	19200	13001682	STUD, BALL .....	2
5	PAOZZ	3120-01-516-3962	19200	13001683	BUSHING, PINTLE .....	1
6	PAOZZ	5306-01-521-4557	19200	13001689	BOLT, SHOULDER .....	1
7	PAOZZ	5305-01-521-4553	19200	13001790	SETSCREW .....	2
8	PAOZZ	5305-01-521-4552	19200	13001690	SCREW, FLAT HEAD .....	1
9	PAOZZ	1005-01-517-1750	19200	13001686	LEVER, RELEASE .....	1
10	PAOZZ	1005-01-516-9186	19200	13001685	LEVER, PINTLE LATCH .....	1
11	PAOZZ	5360-01-516-2309	19200	13001688	SPRING, FLAT .....	3
12	PAOZZ	5310-01-521-6089	19200	13001789	NUT, SELF-LOCKING .....	1
13	PAOOO	1005-01-517-1749	19200	13001738	TRAVERSE AND ELEVATION MECHANISM SEE FIG. 6 FOR BRKDOWN .....	1

END OF FIGURE

END OF WORK PACKAGE



**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
LEG ASSEMBLY, RIGHT REAR, NSNA, P/N 13001694 AND  
LEG ASSEMBLY, LEFT REAR, NSNA, P/N 13001708**



2NL0311

**Figure 5. Leg Assembly, Right Rear, P/N 13001694 and  
Leg Assembly, Left Rear, P/N 13001708**

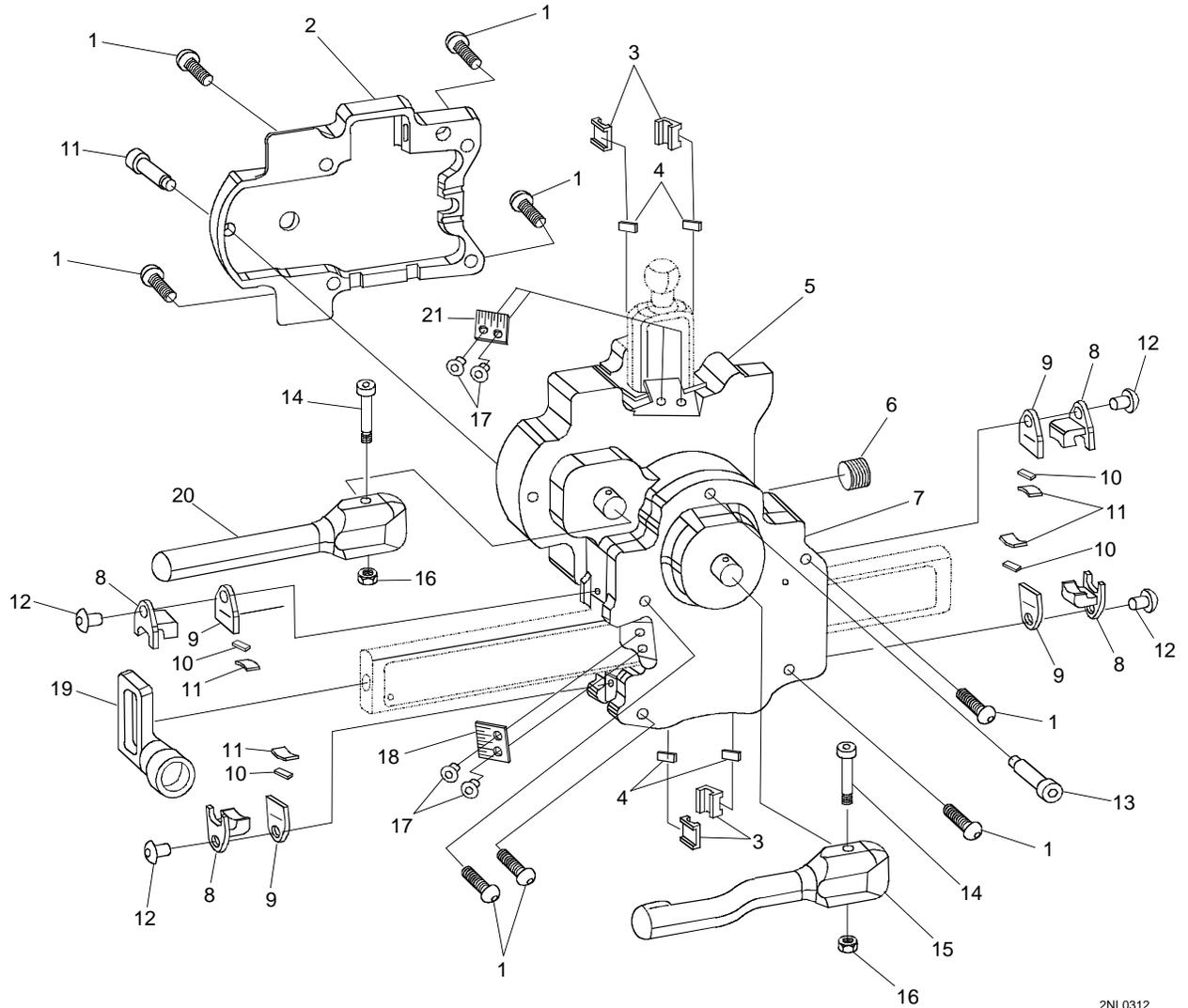
(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 0102						
FIGURE 5. LEG ASSEMBLY, LEFT REAR, P/N 13001708 AND LEG ASSEMBLY, RIGHT REAR, P/N 13001694						
1	XAOZZ		19200	13001709	LEG, LEFT REAR.....	1
2	PAOZZ	5360-01-521-6080	19200	13001692	SPRING, LATCH.....	2
3	PAOZZ	1005-01-516-1431	19200	13001702	LEVER, LEG .....	2
4	PAOZZ	1005-01-515-8271	19200	13001703	BLOCK, LATCH .....	2
5	PAOZZ	5305-01-521-7893	19200	13001693	SCREW, BUTTON HEAD .....	4
6	XAOZZ		19200	13001695	LEG, RIGHT REAR.....	1

**END OF FIGURE**

**END OF WORK PACKAGE**



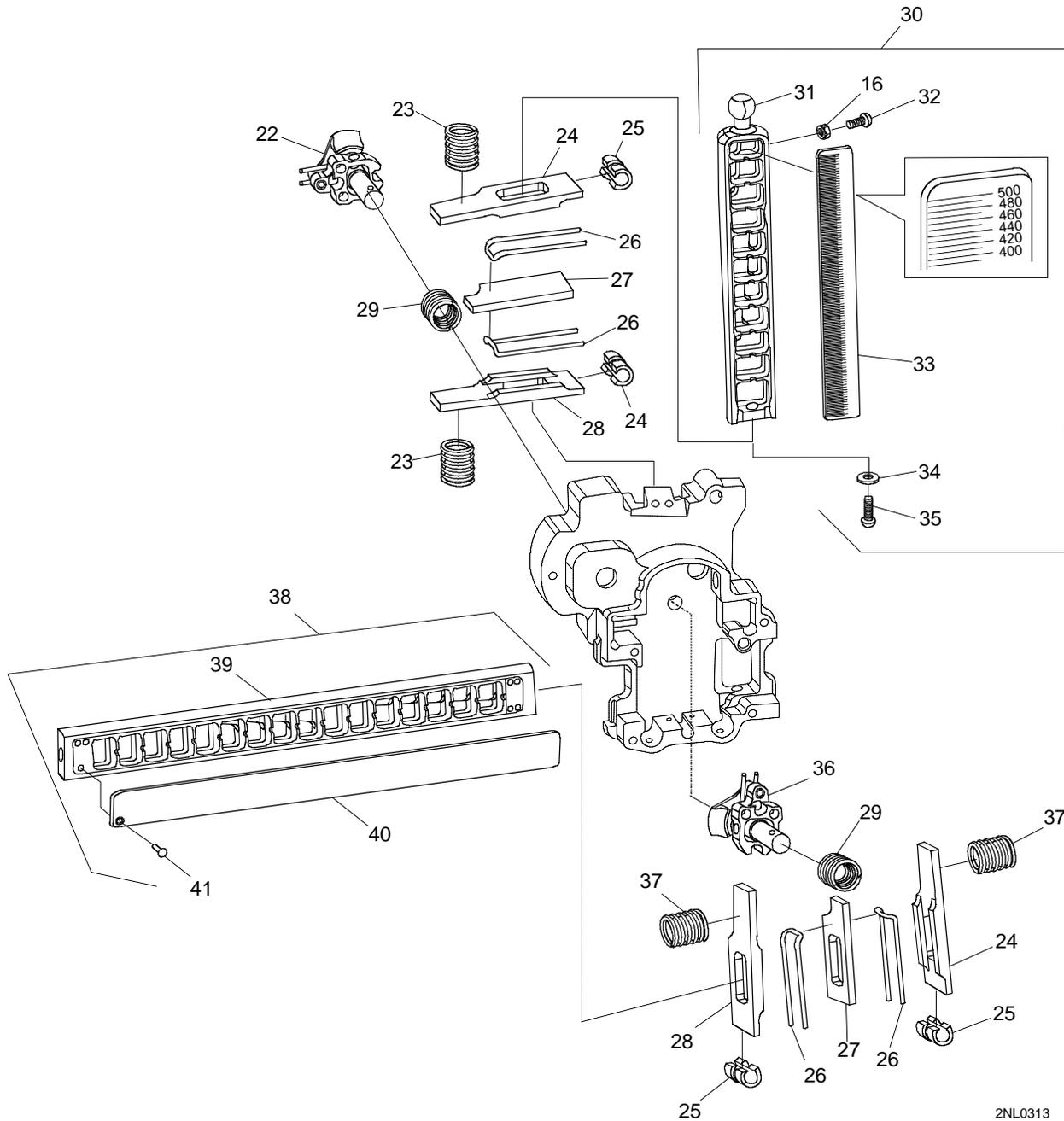
**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
TRAVERSING AND ELEVATING MECHANISM ASSEMBLY,  
NSN 1005-01-517-1749, P/N 13001738**



2NL0312

**Figure 6. Traversing and Elevating Mechanism Assembly (External Diagram),  
P/N 13001738 (Figure 1 of 2)**

**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
TRAVERSING AND ELEVATING MECHANISM ASSEMBLY,  
NSN 1005-01-517-1749, P/N 13001738 (cont)**



**Figure 6. Traversing and Elevating Mechanism Assembly (Internal Diagram),  
P/N 13001738 (Figure 2 of 2)**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
					GROUP 02	
					FIGURE 6. TRAVERSING AND ELEVATING MECHANISM ASSEMBLY, P/N 13001738	
1	PAOZZ	5305-01-521-6075	19200	13001760	SCREW, BUTTON HEAD .....	8
2	PAOZZ	1005-01-517-0203	19200	13001756	COVER, ELEVATION.....	1
3	PAOZZ	1005-01-521-4561	19200	13001753	GLIDE, ELEVATION.....	4
4	PAOZZ	TBD	19200	13001772	. SHIM .....	4
5	PAOZZ	1005-01-516-3963	19200	13001746	HOUSING, TRAVERSE AND ELEVATION .....	1
6	PAOZZ	5340-01-521-4560	19200	13001736	PLUG, FLUSHING.....	1
7	PAOZZ	1005-01-517-6143	19200	13001761	COVER, TRAVERSE .....	1
8	PAOZZ	1005-01-521-4558	19200	13001748	GLIDE, TRAVERSE .....	2
10	PAOZZ	TBD	19200	13001754	SEAL .....	4
9	PAOZZ	TBD	19200	13001771	. SHIM, ASSORTMENT.....	4
11	PAOZZ	TBD	19200	13001750	. WIPER.....	4
12	PAOZZ	5305-01-521-6076	19200	13001759	SCREW, BUTTON HEAD .....	4
13	PAOZZ	5306-01-521-6077	19200	13001757	SCREW, SHOULDER .....	2
14	PAOZZ	5306-01-521-6079	19200	13001779	BOLT, SHOULDER .....	2
15	PAOZZ	5340-01-516-1447	19200	13001781	HANDLE, TRAVERSE.....	1
16	PAOZZ	5310-01-523-2322	19200	13001782	NUT, SELF-LOCKING.....	3
17	PAOZZ	5305-01-521-6074	19200	13001758	SCREW, BUTTON HEAD .....	4
18	PAOZZ	1005-01-515-8263	19200	13001762	SCALE, READER, TRAVERSE .....	1
19	PAOZZ	5340-01-515-7134	19200	13001786	STOP, MECHANICAL .....	1
20	PAOZZ	5340-01-516-1438	19200	13001780	HANDLE, ELEVATION.....	1
21	PAOZZ	1005-01-516-1436	19200	13001747	SCALE, READER, ELEVATION.....	1
22	PAOZZ	3040-01-515-7135	19200	13001768	ACTUATOR, ELEVATION.....	1
23	PAOZZ	5360-01-521-6084	19200	13001773	SPRING, COMPRESSION, ELEVATION....	2
24	PAOZZ	1005-01-516-9182	19200	13001774	PLATE, RIGHT.....	2
25	PAOZZ	5310-01-515-7136	19200	13001777	WASHER, KEYWAY .....	4
26	PAOZZ	5340-01-516-1446	19200	13001778	SPRING, CENTERING.....	4
27	PAOZZ	1005-01-515-8267	19200	13001776	PLATE LOCKING .....	2
28	PAOZZ	1005-01-515-8261	19200	13001775	PLATE, LEFT .....	2
29	PAOZZ	5360-01-521-7880	19200	13001791	SPRING, BOLD, COMPRESSION .....	2
30	PAOOO	1005-01-516-1442	19200	13001739	ELEVATION BAR ASSEMBLY.....	1
31	XAOZZ		19200	13001740	. BAR, ELEVATION.....	1
32	PAOZZ	5305-01-521-6086	19200	13001755	. SCREW .....	1
33	PAOZZ	1005-01-516-9183	19200	13001741	. SCALE, ELEVATION.....	1
34	PAOZZ	5310-01-523-2321	19200	13001783	. WASHER, FLAT .....	1
35	PAOZZ	5305-01-521-4559	19200	13001751	SCREW, BUTTON HEAD .....	1
36	PAOZZ	3040-01-516-1439	19200	13001763	ACTUATOR, TRAVERSE .....	1
37	PAOZZ	5360-01-521-6081	19200	13001770	SPRING, COMPRESSION, TRAVERSE.....	2
38	PAOOO	1005-01-516-1445	19200	13001742	TRAVERSE BAR ASSEMBLY .....	1

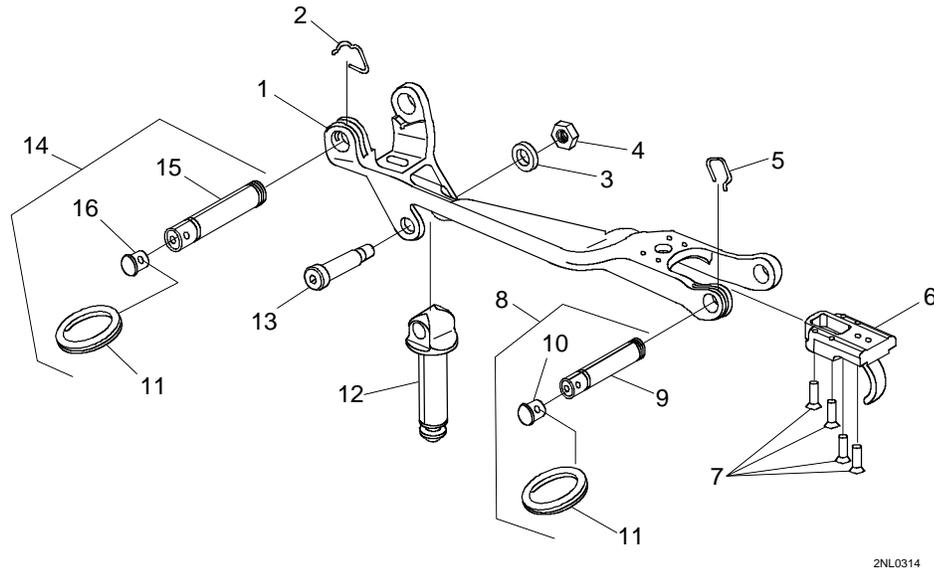
**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
TRAVERSING AND ELEVATING MECHANISM ASSEMBLY,  
NSN 1005-01-517-1749, P/N 13001738 (cont)**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 02						
FIGURE 6. TRAVERSING AND ELEVATING MECHANISM ASSEMBLY, P/N 13001738						
39	XAOZZ		19200	13001743	. TRAVERSE BAR .....	1
40	PAOZZ	1005-01-516-1434	19200	13001744	. SCALE, TRAVERSE BAR .....	1
41	PAOZZ	5320-01-524-7772	19200	13001784	. RIVET .....	1

**END OF FIGURE**

**END OF WORK PACKAGE**

**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR MOUNTING BRACKET ASSEMBLY, NSN ????, P/N 13001717**



**Figure 7. Mounting Bracket Assembly, P/N 13001717**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 03						
FIGURE 7. MOUNTING BRACKET ASSEMBLY, P/N 13001717						
1	XAOZZ		19200	13001722	MOUNTING BRACKET	1
2	PAOZZ	5340-01-516-6463	19200	13001720	CLIP, RETAINING, FRONT.....	1
3	PAOZZ	5310-01-516-7541	19200	13001733	WASHER, PINTLE .....	1
4	PAOZZ	5310-01-521-6083	19200	13001737	NUT, SELF-LOCKING.....	1
5	PAOZZ	5340-01-516-1443	19200	13001721	CLIP, RETAINING, REAR .....	1
6	PAOZZ	1005-01-515-8259	19200	13001726	LOCK, QUICK RELEASE.....	1
7	PAOZZ	5305-01-521-7881	19200	13001713	SCREW, FLAT HEAD .....	4
8	PAOZZ	5315-01-516-2310	19200	13001716	PIN, QUICK RELEASE, REAR.....	1
9	XAOZZ		19200	13001719	. PIN, MOUNTING, REAR .....	1
10	PAOZZ	1005-01-521-6078	19200	13001734	. CAP (REAR).....	2
11	PAOZZ	5325-01-521-6085	19200	13001711	. RING, SPLIT .....	2
12	PAOZZ	1005-01-517-0205	19200	13001730	PINTLE.....	1
13	PAOZZ	5306-01-521-6082	19200	13001714	BOLT, SHOULDER .....	1
14	PAOOO	5315-01-516-1435	19200	13001715	PIN, QUICK RELEASE, FRONT .....	1
15	XAOZZ		19200	13001718	. PIN, MOUNTING, FRONT,.....	1
16	PAOZZ	1005-01-521-7882	19200	13001735	. CAP (FRONT) .....	1

**END OF FIGURE**

**END OF WORK PACKAGE**

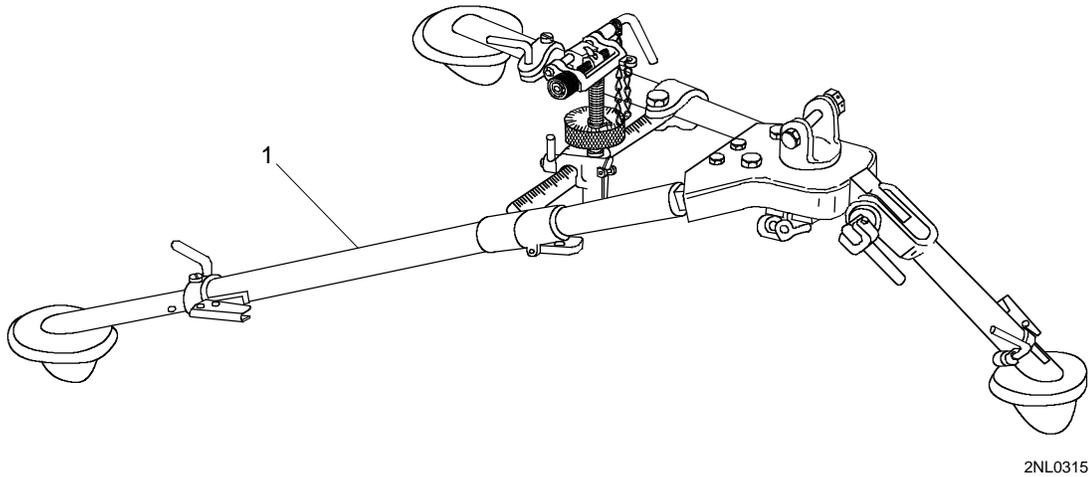


**TM 91-005-245-13&P**

**REPAIR PARTS AND SPECIAL TOOLS LIST  
FOR  
M3 MACHINE GUN TRIPOD**

TM 91-005-245-13&P

**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
TRIPOD, MACHINE GUN, M3, NSN 1005-00-322-9716, P/N 8403398**



**Figure 1. Tripod, Machine Gun, M3, (Assembled View), P/N 8403398**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
					GROUP 00	
					FIGURE 1. TRIPOD, MACHINE GUN, M3 (ASSEMBLED VIEW), P/N 8403398	
1	PAOFF *PAODD	1005-00-322-9716	19204	8403398	TRIPOD, MACHINE GUN, M3.....	1

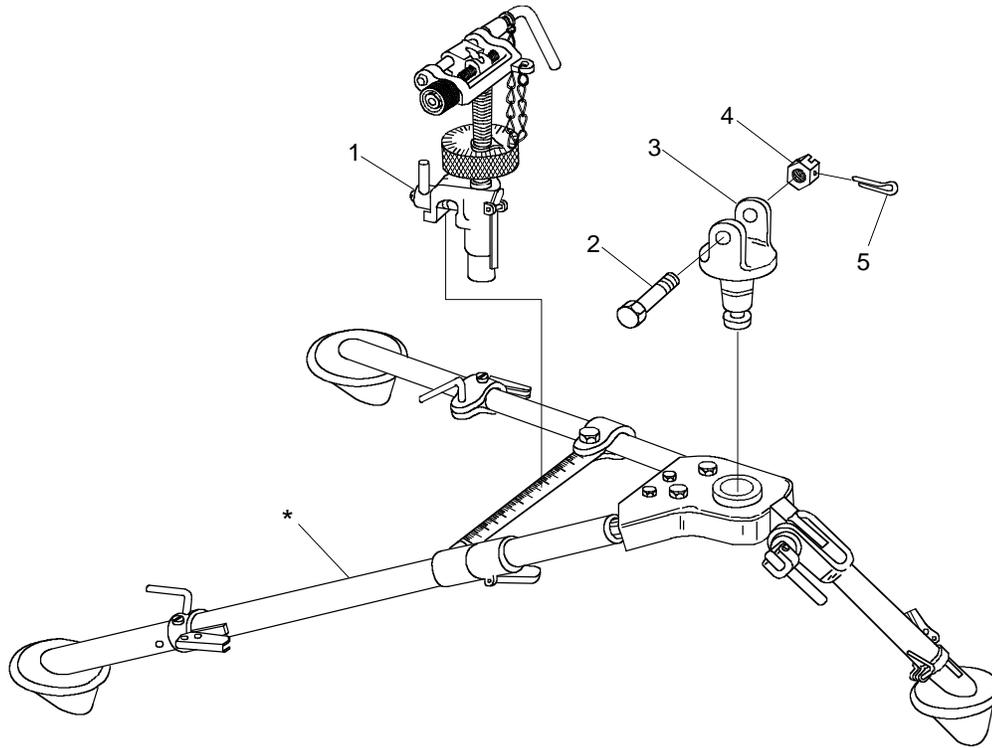
**END OF FIGURE**

\*MARINE CORPS ONLY

**END OF WORK PACKAGE**



**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
TRIPOD, MACHINE GUN, M3, NSN 1005-00-322-9716, P/N 8403398**



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\*See Figure 3 for further breakdown.

**Figure 2. Tripod, Machine Gun, M3, P/N 8403398**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 00						
FIGURE 2. TRIPOD, MACHINE GUN, M3, P/N 8403398						
1	PAOFF	1010-01-151-6227	53711	5830128	ELEVATING AND TRAVERSING MECHANISM SEE FIG. 7 AND 8 FOR BRKDWN UOC: AK3, AN0, BB9 .....	1
2	PAOZZ	5306-00-513-9973	19204	5139973	BOLT, MACHINE UOC: AN0.....	1
3	PAOZZ	1005-00-555-9332	19200	5559332	PINTLE, MOUNT UOC: AN0.....	1
4	PAOZZ	5310-00-513-9964	19204	5139964	NUT, HEXAGON, SLOTTED UOC: AN0.....	1
5	PAOZZ	5315-00-903-3971	80205	MS24665-834	PIN, COTTER UOC: AN0.....	1

**END OF FIGURE**

**END OF WORK PACKAGE**

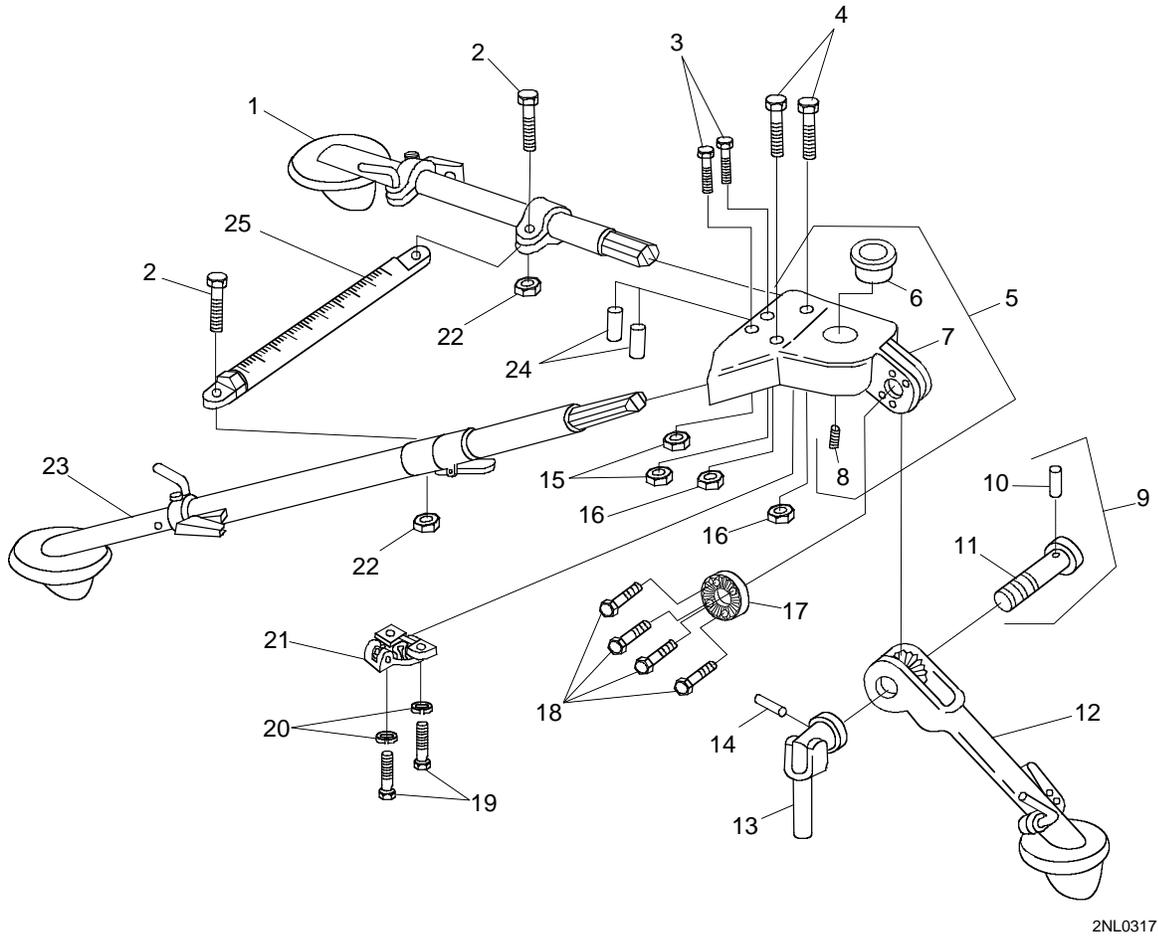


**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
TRIPOD, MACHINE GUN, M3, NSN 1005-00-322-9716, P/N 8403398;  
HEAD, BEARING ASSEMBLY, NSNA, P/N 8448211; AND  
BOLT, MACHINE, NSN 5306-00-610-8395, P/N 6108395**

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**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
 TRIPOD, MACHINE GUN, M3, NSN 1005-00-322-9716, P/N 8403398;  
 HEAD, BEARING ASSEMBLY, NSNA, P/N 8448211; AND  
 BOLT, MACHINE, NSN 5306-00-610-8395, P/N 6108395 (cont)**



2NL0317

**Figure 3. Tripod, Machine Gun, M3, P/N 8403398;  
 Head Bearing Assembly, P/N 8448211; and Bolt, Machine, P/N 6108395**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
					GROUP 00, 01, 02	
					FIGURE 3. TRIPOD, MACHINE GUN, M3, P/N 8403398; HEAD, BEARING ASSEMBLY, P/N 8448211; AND BOLT, MACHINE, P/N 6108395	
1	PAOFF	1005-00-650-7137	19204	6507137	LEG, TRIPOD MOUNT SEE FIG.4 FOR BRKDOWN.....	1
2	PAOZZ	5306-00-297-8753	19204	5170484	BOLT, MACHINE.....	2
3	PAFZZ	5306-00-182-1801	88044	AN174-21A	BOLT, MACHINE.....	2
4	PAFZZ	5306-00-517-0486	19205	5170486	BOLT, MACHINE.....	2
5	XAFFF		19200	8448211	HEAD, BEARING ASSEMBLY .....	1
6	PAFZZ *PADZZ	3120-00-610-8397	19205	6108397	..BEARING, SLEEVE.....	1
7	XAFZZ		19204	5559419	..HEAD, TRIPOD .....	1
8	PAFZZ *PADZZ	5305-00-054-6869	80205	MS51031-48	..SETSCREW .....	1
9	PAOFF	5306-00-610-8395	19204	6108395	BOLT, MACHINE.....	1
10	PAOZZ	5315-00-902-0419	96906	MS16555-42	..PIN, STRAIGHT, HEADLESS.....	1
11	PAOZZ	5305-01-169-4720	19204	6108400	..SCREW .....	1
12	PAOZZ	1005-00-555-9423	19204	5559423	LEG, TRIPOD MOUNT SEE FIG.5 FOR BRKDOWN.....	1
13	PAOZZ	5310-00-619-3782	19204	6193782	NUT, FRONT LEG CLAMP.....	1
14	PAOZZ	5315-00-812-1008	80205	MS39086-95	PIN, SPRING.....	1
15	PAOZZ	5310-00-947-8635	19205	11010526	NUT, PLAIN, HEXAGON .....	2
16	PAFZZ	5310-00-543-5858	96906	MS35691-826	NUT, PLAIN, HEXAGON .....	2
17	PAOZZ	3110-00-610-8396	19204	6108396	PLATE, RETAINING.....	2
18	PAOZZ	5305-00-514-0237	19205	5140237	SCREW, MACHINE.....	8
19	PAOZZ	5305-00-514-1950	19204	5141950	SCREW, MACHINE.....	2
20	PAOZZ	5310-00-916-2171	19205	11010529	WASHER, LOCK.....	2
21	PAOFF	5340-00-610-8402	19204	6108402	LATCH, PINTLE, MOUNT SEE FIG. 7 FOR BRKDOWN.....	1
22	PAOZZ	5310-00-926-5916	96906	MS51968-12	NUT, PLAIN HEX.....	2
23	PAFFF	1005-00-650-7136	19204	6507136	LEG, TRIPOD MOUNT, REAR RIGHT SEE FIG. 4 FOR BRKDOWN.....	1
24	PAOZZ	5365-00-514-0219	19205	5140219	SPACER, SLEEVE.....	2
25	PAOZZ	1005-00-714-9678	19204	7149678	BAR ASSEMBLY, TRAVERSE.....	1

END OF FIGURE

\*MARINE CORPS ONLY

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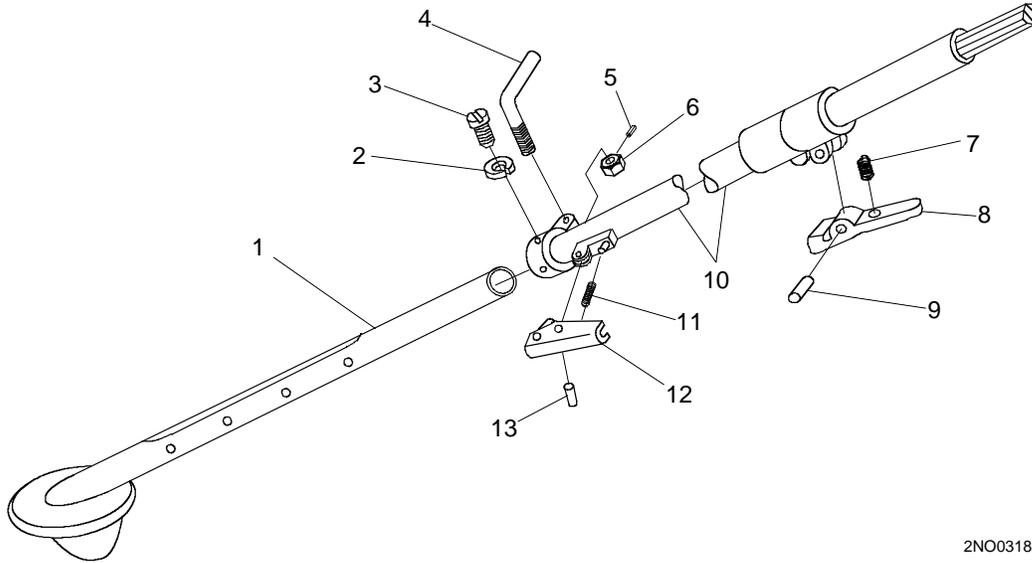
**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
LEG, TRIPOD (LEFT REAR), NSN 1005-00-650-7137, P/N 6507137 AND  
LEG, TRIPOD (RIGHT REAR), NSN 1005-00-650-7136, P/N 6507136**

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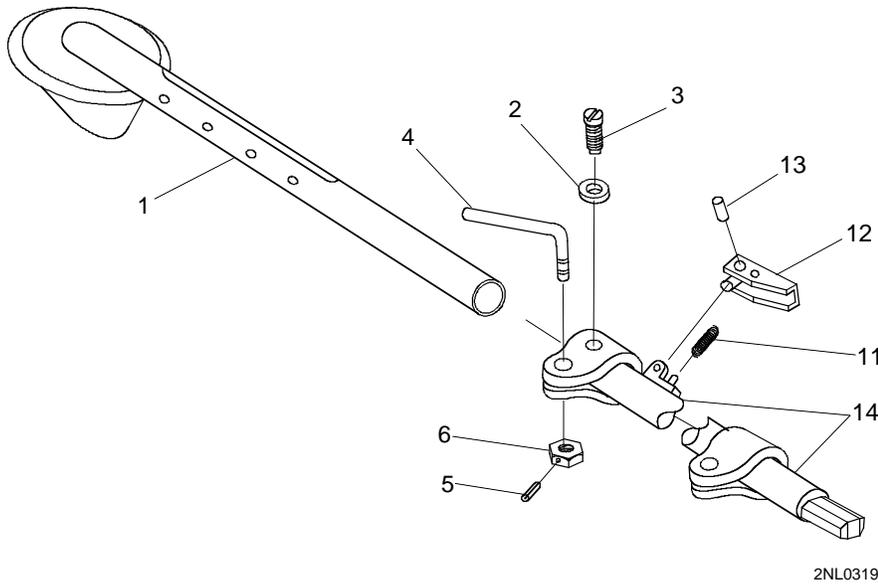
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**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
LEG, TRIPOD (LEFT REAR), NSN 1005-00-650-7137, P/N 6507137 AND  
LEG, TRIPOD (RIGHT REAR), NSN 1005-00-650-7136, P/N 6507136 (cont)**

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**Right Leg**



**Left Leg**

**Figure 3. Leg, Tripod (Right Rear), P/N 6507136 and  
Leg, Tripod (Left Rear), P/N 6507137**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
					GROUP 03, 05	
					FIGURE 4. LEG, TRIPOD (RIGHT REAR), P/N 6507136; LEG, TRIPOD (LEFT REAR), P/N 6507137	
1	PAOZZ	1005-00-940-8077	19200	11010426	LEG SECTION, TRIPOD .....	2
2	PAOZZ	5310-00-916-2172	19205	11010530	WASHER, LOCK .....	1
3	PAOZZ	5305-00-514-0213	19204	5140213	SETSCREW .....	1
4	PAOZZ	5340-00-514-0211	19204	5140211	HANDLE, MANUAL CONTROL.....	1
5	PAOZZ	5315-00-812-0762	80205	MS39086-54	PIN, SPRING.....	1
6	PAOZZ	5310-00-916-2170	19205	11010421	NUT, PLAIN, HEXAGON .....	1
7	PAOZZ	5360-00-514-0215	19205	5140215	SPRING, HELICAL, COMPRESSION ....	1
8	PAOZZ	5340-00-514-0216	19204	5140216	LEVER, LOCK-RELEASE .....	1
9	PAOZZ	5315-00-514-0217	19204	5140217	PIN, STRAIGHT, HEADLESS.....	1
10	XAFZZ		19204	5559425	LEG REAR RIGHT UPPER .....	1
11	PAOZZ	5360-00-514-0209	19205	5140209	SPRING, HELICAL, COMPRESSION ....	1
12	PAOZZ	3040-00-514-0204	19204	5140204	LEVER, MANUAL CONTROL.....	
13	PAOZZ	5315-00-514-0210	19205	5140210	PIN, STRAIGHT, HEADLESS.....	1
14	XAFZZ		19204	5559428	LEG, REAR LEFT UPPER .....	1

END OF FIGURE

END OF WORK PACKAGE



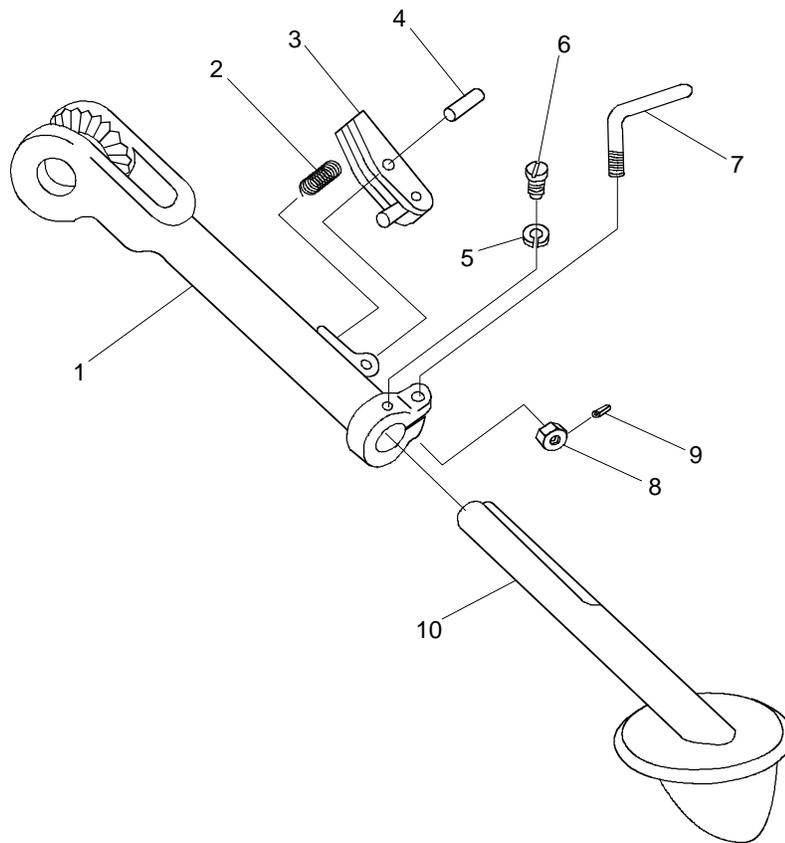
**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
LEG, TRIPOD (FRONT), NSN 1005-00-555-9423, P/N 5559423**

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**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
LEG, TRIPOD (FRONT), NSN 1005-00-555-9423, P/N 5559423 (cont)**

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2NL0320

**Figure 5. Leg, Tripod (Front), P/N 5559423**

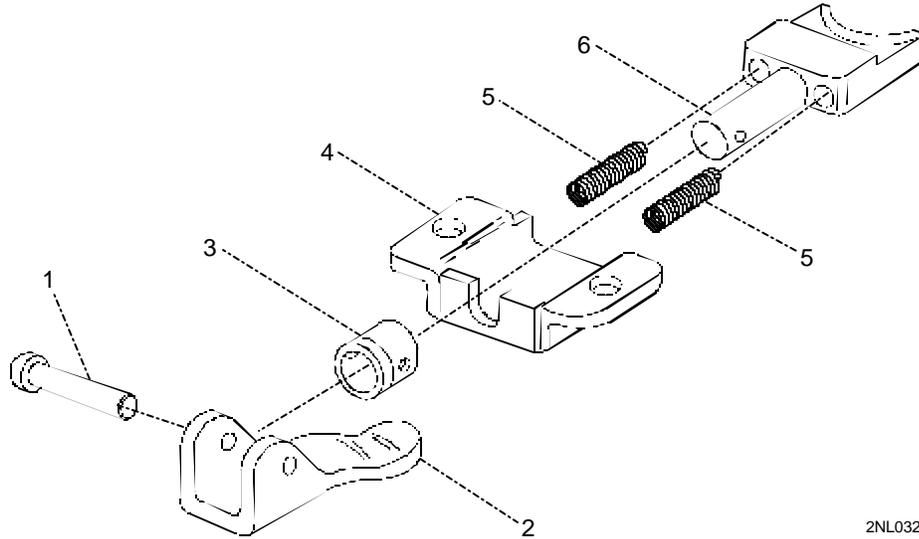
(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 04						
FIGURE 5. LEG, TRIPOD (FRONT), P/N 5559423						
1	XAOZZ		19204	5559424	LEG .....	1
2	PAOZZ	5360-00-514-0209	19205	5140209	SPRING, HELICAL, COMPRESSION .....	1
3	PAOZZ	3040-00-514-0204	19204	5140204	LEVER, MANUAL CONTROL.....	1
4	PAOZZ	5315-00-514-0210	19205	5140210	PIN, STRAIGHT, HEADLESS.....	1
5	PAOZZ	5310-00-916-2172	19205	11010530	WASHER, LOCK .....	1
6	PAOZZ	5305-00-514-0213	19204	5140213	SETSCREW .....	1
7	PAOZZ	5340-00-514-0211	19204	5140211	HANDLE, MANUAL CONTROL.....	1
8	PAOZZ	5310-00-916-2170	19205	11010421	NUT, PLAIN, HEXAGON .....	1
9	PAOZZ	5315-00-812-0762	80205	MS39086-54	PIN, SPRING .....	1
10	XAFZZ		19204	11010424	LEG .....	1

END OF FIGURE

END OF WORK PACKAGE



**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
LATCH, PINTLE, NSN 5340-00-610-8402, P/N 6108402**



2NL0321

**Figure 6. Latch, Pintle, P/N 6108402**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 07						
FIGURE 6. LATCH, PINTLE, P/N 6108402						
1	PAFZZ	5320-00-915-8185	19205	11010448	RIVET, SOLID .....	1
2	PAFZZ	1005-00-514-1080	19205	5141080	CAM, PINTLE LOCK RELEASE .....	1
3	XAFZZ		19204	5141081	COLLAR, SHAFT .....	1
4	XAFZZ		19205	6153118	HOUSING.....	1
5	PAFZZ	5360-00-514-0209	19205	5140209	SPRING, HELICAL, COMPRESSION .....	2
6	XAFZZ		19204	5140225	LOCK.....	1

**END OF FIGURE**

**END OF WORK PACKAGE**

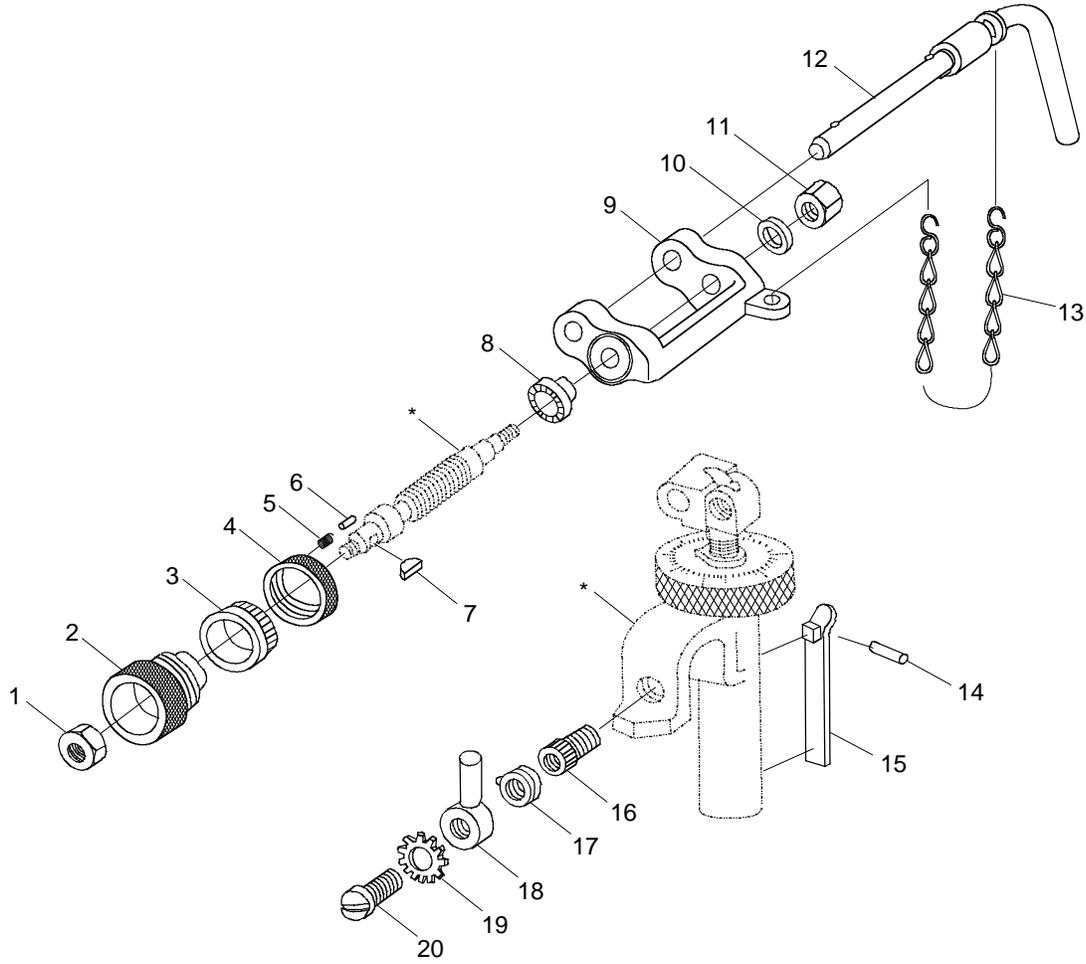


**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
ELEVATION MECHANISM (TRAVERSING AND CLAMPING),  
NSN 1010-01-151-6227, P/N 5830128**

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**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
ELEVATION MECHANISM (TRAVERSING AND CLAMPING),  
NSN 1010-01-151-6227, P/N 5830128 (cont)**



2NL0322

\*Shown for disassembly purposes only.  
For breakdown see Figure 8.

**Figure 7. Elevation Mechanism (Traversing and Clamping), P/N 5830128**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
					GROUP 06	
					FIGURE 7. ELEVATION MECHANISM (TRAVERSING AND CLAMPING), P/N 5830128	
1	PAFZZ	5310-00-935-3750	96906	MS51943-4	NUT, SELF-LOCKING UOC: AK3, AN0, AY7, AY8, BB9, BL4 .....	1
2	PAFZZ	5355-00-615-8375	19207	6158375	KNOB UOC: AK3, AN0, AY7, AY8, BB9, BL4 ....	1
3	PAFZZ	5355-00-517-1492	19205	5171492	DIAL, SCALE UOC: AK3, AN0, AY7, AY8, BB9, BL4 ....	1
4	PAFZZ	4730-00-517-1491	19207	5171491	NUT, UNION UOC: AK3, AN0, AY7, AY8, BB9, BL4 ....	1
5	PAFZZ	5360-00-915-5615	19205	11010547	SPRING, HEADLESS, COMPRESSION UOC: AK3, AN0, AY7, AY8, BB9, BL4 ....	1
6	PAFZZ	5315-00-517-1495	19205	5171495	PIN, STRAIGHT, HEADLESS UOC: AK3, AN0, AY7, AY8, BB9, BL4 ....	1
7	PAFZZ	5315-00-916-2173	19205	11010407	KEY, WOODRUFF UOC: AK3, AN0, AY7, AY8, BB9, BL4 ....	1
8	PAFZZ	1005-00-517-4123	19200	5174123	RING, CLICK, TRAVERSING UOC: AK3, AN0, AY7, AY8, BB9, BL4 ....	1
9	XAFZZ		19204	6166497	YOKE UOC: AK3, AN0, AY7, AY8, BB9, BL4 ....	1
10	PAFZZ	5310-00-517-4192	19205	5174192	WASHER, FLAT UOC: AK3, AN0, AY7, AY8, BB9, BL4 ....	1
11	PAFZZ	5310-00-916-2167	19205	11010206	NUT, SELF-LOCKING, HEX UOC: AK3, AN0, AY7, AY8, BB9, BL4 ....	1
12	PAOZZ	5315-01-443-7576	19200	12938267	PIN, QUICK RELEASE UOC: AK3, AN0, AY7, AY8, BB9, BL4 ....	1
13	PAOZZ	4010-01-149-5517	53711	5830087-2	CHAIN ASSEMBLY, SINGLE UOC: AK3, AN0, AY7, AY8, BB9, BL4 ....	1
14	PAFZZ	5315-00-051-8636	80204	MS16562-120	PIN, SPRING UOC: AK3, AN0, AY7, AY8, BB9, BL4 ....	1
15	PAFZZ	5360-00-518-9756	19200	5189756	SPRING, FLAT UOC: AK3, AN0, AY7, AY8, BB9, BL4 ....	1
16	PAOZZ	5305-00-514-0383	19200	5140383	SCREW, SELF-LOCKING UOC: AK3, AN0, AY7, AY8, BB9, BL4 ....	1
17	PAOZZ	5360-00-305-0725	19205	8412295	SPRING, HELICAL TORSION UOC: AK3, AN0, AY7, AY8, BB9, BL4 ....	1
18	PAOZZ	3040-00-519-4313	19200	5194313	LEVER UOC: AK3, AN0, AY7, AY8, BB9, BL4 ....	1
19	PAOZZ	531000-949-1971	19205	11010413	WASHER, LOCK UOC: AK3, AN0, AY7, AY8, BB9, BL4 ....	1
20	PAOZZ	5305-00-513-9989	19204	5139989	SCREW, MACHINE UOC: AK3, AN0, AY7, AY8, BB9, BL4 ....	1

END OF FIURE

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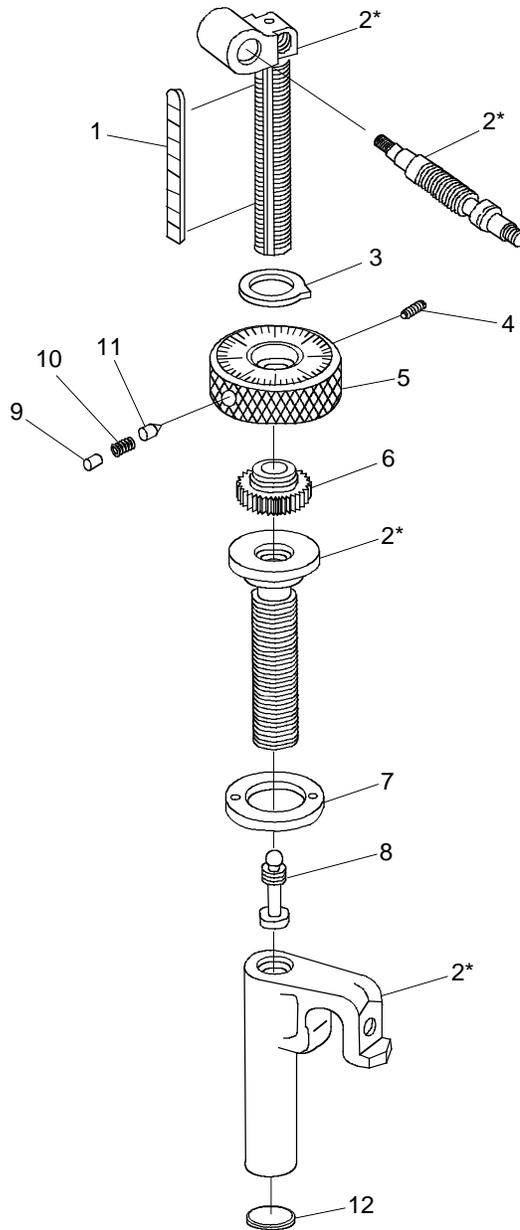


**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
ELEVATION MECHANISM (ELEVATING UNIT), NSN 1010-01-151-6227, P/N 5830128**

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**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
ELEVATION MECHANISM (ELEVATING UNIT), NSN 1010-01-151-6227, P/N 5830128 (cont)**



2NL0323

\*Issued as a set.

**Figure 8. Elevation Mechanism (Elevating Unit), P/N 5830128**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 06						
FIGURE 8. ELEVATION MECHANISM (ELEVATING UNIT), P/N 5830128						
1	PAFZZ	9905-00-514-0669	19204	5140669	SCALE, SLOTTED LINE UOC: AK3, AN0, AY7, AY8, BB9, BL4 .....	1
2	XAFFF		19204	5591828	SCREW ASSEMBLY UOC: AK3, AN0, AY7, AY8, BB9, BL4 .....	1
3	PAFZZ	5355-00-513-9982	19204	5139982	POINTER, DIAL UOC: AK3, AN0, AY7, AY8, BB9, BL4 .....	1
4	PAFZZ	5305-00-514-0612	19204	5140612	SETSCREW UOC: AK3, AN0, AY7, AY8, BB9, BL4 .....	1
5	PAFZZ	5355-00-610-8211	19204	6108211	KNOB UOC: AK3, AN0, AY7, AY8, BB9, BL4 .....	1
6	PAFZZ	1105-00-514-0137	19200	5140137	RING, CLICK, ELEVATING UOC: AK3, AN0, AY7, AY8, BB9, BL4 .....	1
7	PAFZZ	5365-00-514-0485	19205	5140485	RING, EXTERNALLY THREADED UOC: AK3, AN0, AY7, AY8, BB9, BL4 .....	1
8	PAFZZ	1005-00-840-8768	19204	8408768	STOP, ELEVATION UOC: AK3, AN0, AY7, AY8, BB9, BL4 .....	1
9	PAFZZ	5340-00-513-9995	19204	5139995	PIN, STRAIGHT HEADLESS UOC: AK3, AN0, AY7, AY8, BB9, BL4 .....	1
10	PAFZZ	5360-00-915-5616	19205	11010523	SPRING, HELICAL COMPRESSION UOC: AK3, AN0, AY7, AY8, BB9, BL4 .....	1
11	PAFZZ	5315-00-915-8174	19205	11010522	PIN, STRAIGHT, HEADLESS UOC: AK3, AN0, AY7, AY8, BB9, BL4 .....	1
12	PAFZZ	5340-01-487-3060	19205	5140765	PLUG, ELEVATING SLEEVE UOC: AK3, AN0, AY7, AY8, BB9, BL4 .....	1

END OF FIGURE

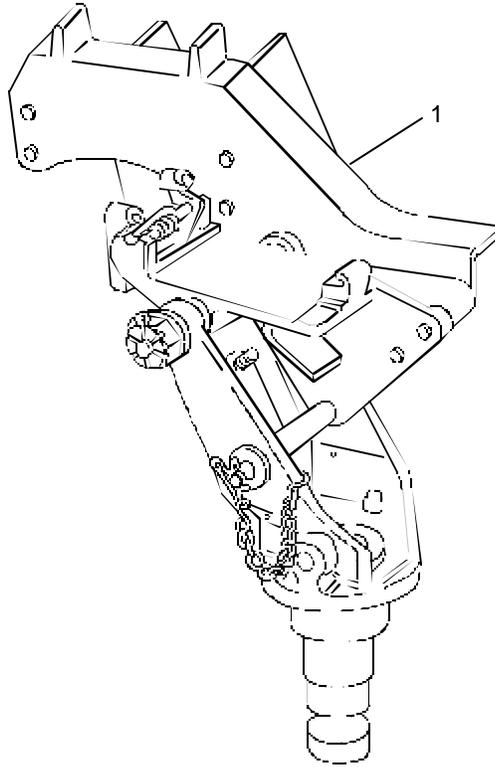
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**REPAIR PARTS AND SPECIAL TOOLS LIST**  
**FOR**  
**M142 MACHINE GUN MOUNT**



**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
M142 MACHINE GUN MOUNT (ASSEMBLED VIEW),  
NSN 1005-00-854-4463, P/N 10900945**



2NL0324

**Figure 1. M142 Machine Gun Mount (Assembled View), P/N 10900945**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
					GROUP 00	
					FIGURE 1. M142 MACHINE GUN MOUNT (ASSEMBLED VIEW), P/N 10900945	
1	PBOFF	1005-00-854-4463	19207	10900945	MOUNT, MACHINE GUN, M142.....	1

**END OF FIGURE**

**END OF WORK PACKAGE**

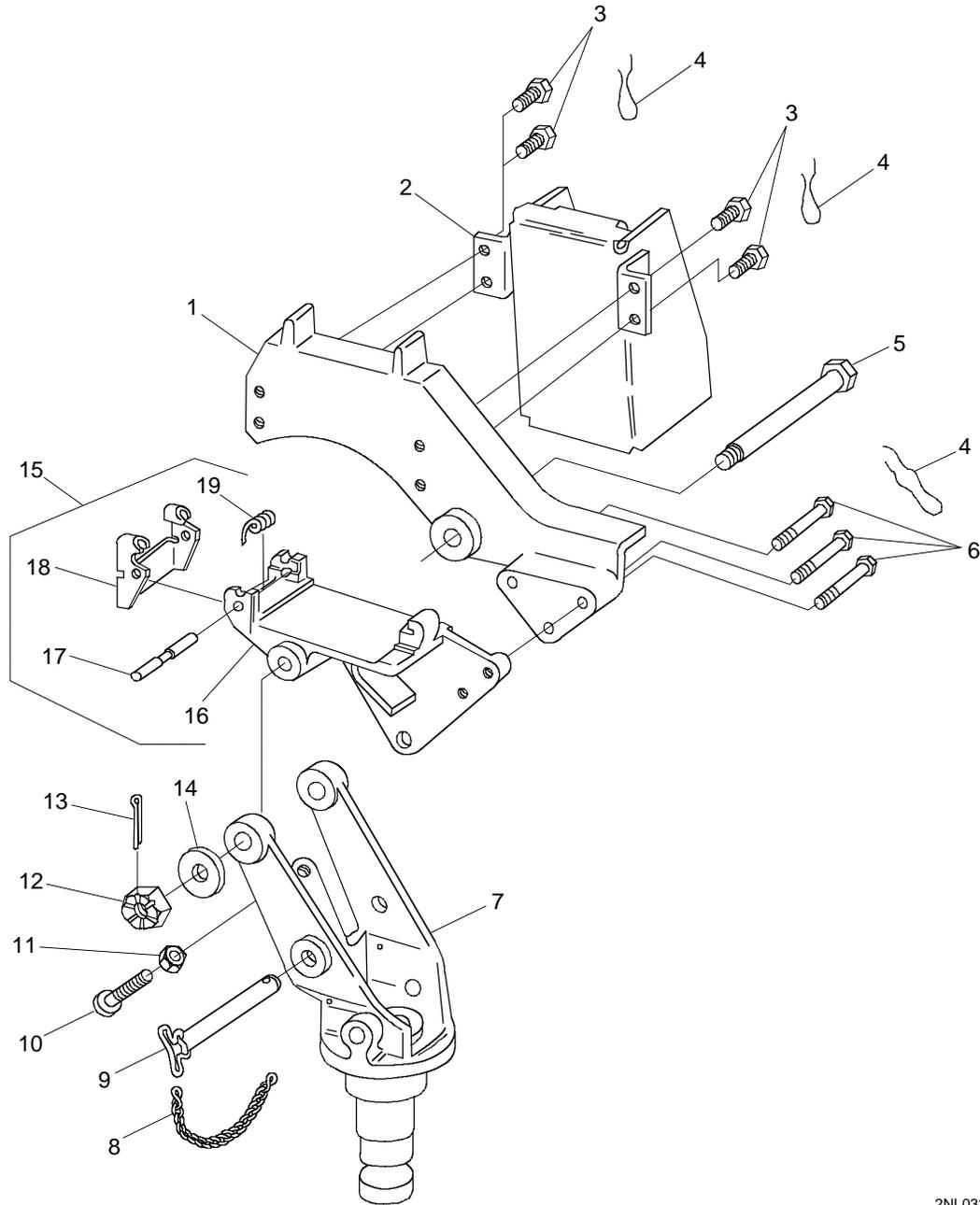


**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
MOUNT, MACHINE GUN, M142, NSN 1005-00-854-4463, P/N 10900945 AND  
PLATFORM ASSEMBLY, NSNA, P/N 10900947**

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**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
MOUNT, MACHINE GUN, M142, NSN 1005-00-854-4463, P/N 10900945 AND  
PLATFORM ASSEMBLY, NSNA, P/N 10900947 (cont)**



2NL0325

**Figure 2. M142 Machine Gun Mount, P/N 10900945 and  
Platform Assembly, PN 10900947**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
					GROUP 00, 01	
					FIGURE 2. M142 MACHINE GUN MOUNT, P/N 10900945 AND PLATFORM ASSEMBLY, P/N 10900947	
1	PAOZZ	1005-00-779-2479	19204	10900948	CRADLE, MACHINE GUN.....	1
2	PAOZZ	1005-00-121-0778	19204	10900712	HOLDER, AMMUNITION CAN .....	1
3	PAOZZ	5305-00-904-4053	96906	MS51096-355	SCREW, CAP, HEXAGON .....	4
4	MOOZZ		80205	MS20995C32	WIRE, NON-ELECTRICAL MAKE FROM NSN 9505-00-293-4208 .....	V
5	PAOZZ	5306-00-854-4464	19207	10900962	BOLT, SHOULDER .....	1
6	PAOZZ	5305-00-939-1179	96906	MS51095-364	SCREW, CAP, HEXAGON .....	3
7	XAOZZ		19204	10900949	PINTLE, MOUNT, MG .....	1
8	PAOZZ	4010-00-523-6999	19204	5236999	CHAIN ASSEMBLY .....	1
9	PAOZZ	5315-00-854-4465	19207	10900963	PIN, QUICK RELEASE .....	1
10	PAOZZ	5305-00-984-5695	96906	MS35206-315	SCREW, MACHINE .....	1
11	PAOZZ	5310-00-851-2682	96906	MS35691-17	NUT, PLAIN, HEXAGON .....	1
12	PAOZZ	5310-00-842-1490	96906	MS35692-37	NUT, PLAIN, SLOTTED .....	1
13	PAOZZ	5315-00-019-0777	80205	MS24665-291	PIN, COTTER .....	1
14	PAOZZ	5310-00-809-5998	96906	MS27183-18	WASHER, FLAT .....	1
15	AFOFF *A0000		19204	10900947	PLATFORM ASSEMBLY .....	1
16	PAFZZ *PAOZZ	1005-00-121-0779	19204	10900946	.. PLATFORM ASSEMBLY .....	1
17	PAFZZ *PAOZZ	5315-00-772-0186	19205	7792977	.. PIN, GROOVED, HEADLESS .....	1
18	PAFZZ *PAOZZ	5340-00-772-0190	19204	7792982	.. STRIKE CATCH .....	1
19	PAFZZ *PAOZZ	5360-00-772-0187	19205	7792978	.. SPRING, HELICAL, TORSION.....	1

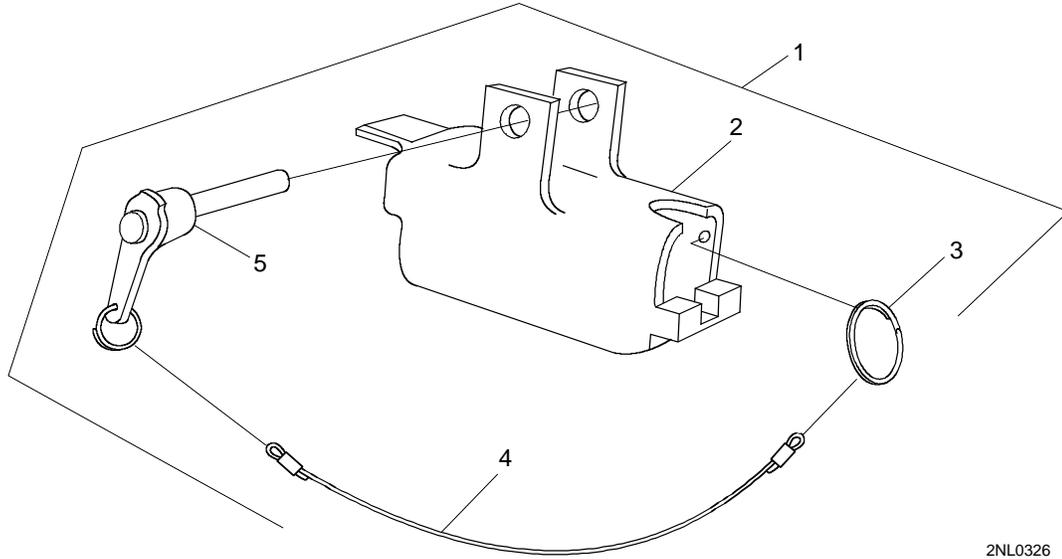
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\*MARINE CORPS ONLY

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**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
ADAPTER, GUN MOUNTING, NSN 1005-01-451-7558, P/N 12598081**



2NL0326

**Figure 3. Adapter, Gun Mounting, P/N 12598081**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 00, 01						
FIGURE 3. ADAPTER, GUN MOUNTING, P/N 12598081						
1	PAOZZ	1005-01-451-7558	19200	12598081	ADPTER, GUN MOUNTING UOC: AM7 .....	1
2	XAOZZ		19200	12598080	BODY .....	1
3	PAOZZ	5325-01-452-8694	19200	12956283-1	RING.....	1
4	PAOZZ	4010-01-447-5812	19200	12956269	CABLE ASSEMBLY.....	1
5	PAOZZ	5315-01-008-2981	80205	MS17986-C825	PIN, QUICK RELEASE.....	1

**END OF FIGURE**

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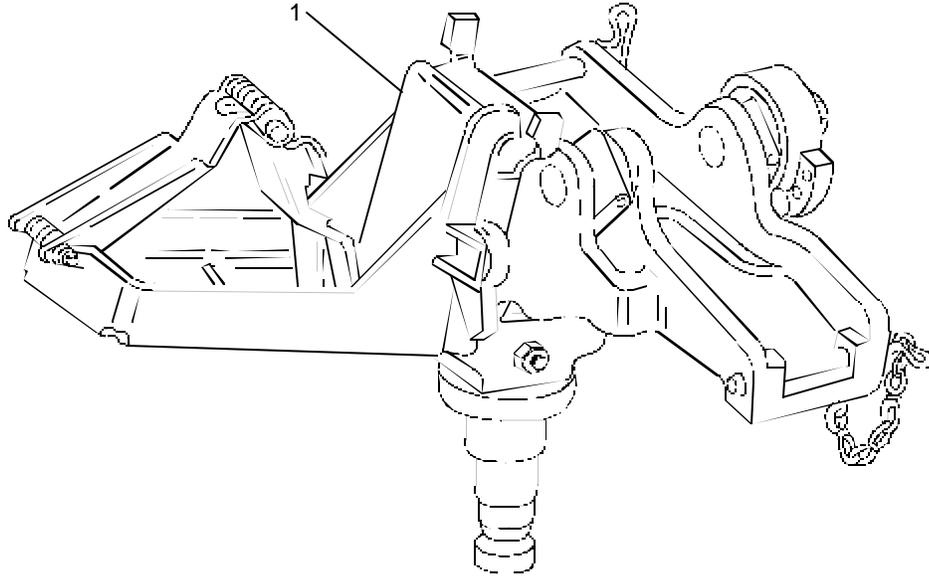


**TM 9-1005-245-13&P**

**REPAIR PARTS AND SPECIAL TOOLS LIST**  
**FOR**  
**6650, CAL .50, MACHINE GUN MOUNT**

TM 9-1005-245-13&P

**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
6650, .50 CALIBER, MACHINE GUN MOUNT (ASSEMBLED VIEW),  
NSN 1005-00-704-6650, P/N 7046650**



2NL0327

**Figure 1. 6650, .50 Caliber, Machine Gun Mount  
(Assembled View), P/N 7046650**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
					GROUP 00	
1	PBOFF *PAOOO	1005-00-704-6650	19204	7046650	FIGURE 1. 6650, .50 CALIBER, MACHINE GUN MOUNT, (ASSEMBLED VIEW), P/N 7046650 6650, .50 CALIBER, MACHINE GUN MOUNT SEE FIG. 2 FOR BRKDWN .....	1

**END OF FIGURE**

\*MARINE CORPS ONLY

**END OF WORK PACKAGE**

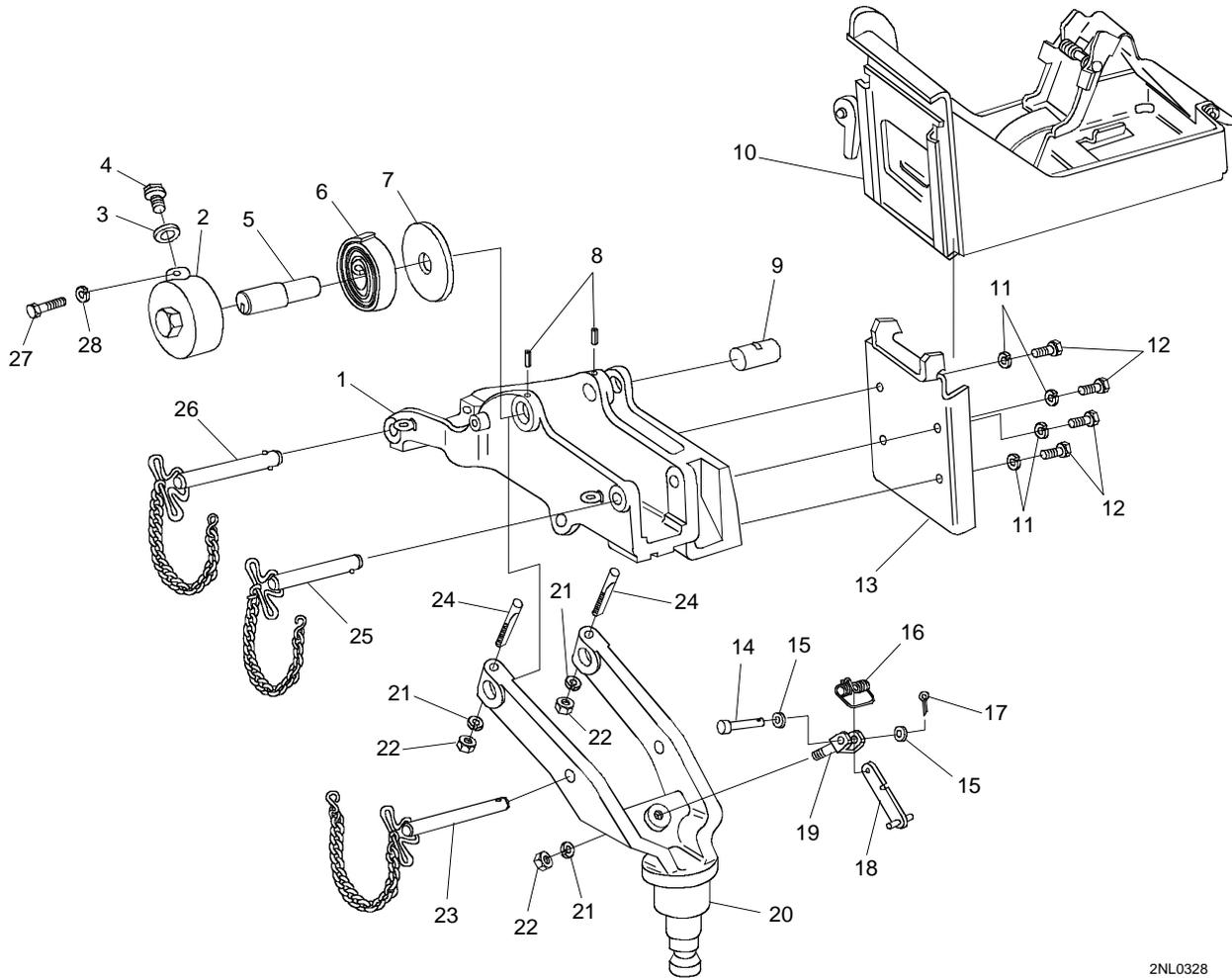


**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
6650, .50 CALIBER, MACHINE GUN MOUNT, NSN 1005-00-704-6650, P/N 7046650**

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**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
6650, .50 CALIBER, MACHINE GUN MOUNT, NSN 1005-00-704-6650, P/N 7046650 (cont)**



2NL0328

**Figure 2. 6650, .50 Caliber, Machine Gun Mount, P/N 7046650**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 00						
FIGURE 2. 6650, .50 CALIBER, MACHINE GUN MOUNT, P/N 7046650						
1	PAFZZ	1005-00-704-6652	19204	7046652	CRADLE, MACHINE GUN.....	1
2	PAFZZ	1005-00-629-7412	19204	6297412	CASE, MACHINE GUN .....	1
3	PAFZZ	5310-00-543-4385	80204	MS35333-46	WASHER, LOCK .....	1
4	PAFZZ	5307-00-538-4059	19204	5384059	STUD, EQUILIBRATOR .....	1
5	PAFZZ	5315-00-538-4056	19204	5384056	PIN, GROOVED, HEADLESS .....	1
6	PAFZZ	5360-00-629-7411	19207	6297411	SPRING, SPIRAL, TORSION.....	1
7	PAFZZ	5310-00-538-4064	19204	5384064	WASHER, FLAT .....	1
8	PAFZZ	9390-00-532-8284	19204	5328284	PIN, SPLIT.....	2
9	PAFZZ	5315-00-538-4055	19204	5384055	PIN, STRAIGHT, HEADLESS.....	1
10	PAOZZ	8140-00-659-0078	19204	6590078	HOLDER ASSEMBLY, AMMO CAN SEE FIG.3 FOR BRKBWN .....	1
11	PAOZZ *PAOZZ	5310-00-595-7237	96906	MS35333-42	WASHER, LOCK .....	4
12	PAOZZ	5305-00-269-3233	96906	MS90726-57	SCREW, CAP, HEXAGON .....	4
13	PAOZZ	1005-00-704-6653	19204	7046653	BRACKET, AMMUNITION.....	1
14	PAFZZ *PAOZZ	5315-00-811-9105	80204	MS20392-3C41	PIN, STRAIGHT, HEADED.....	1
15	PAFZZ *PAOZZ	5310-00-809-4058	80204	MS27183-10	WASHER, FLAT .....	2
16	PAFZZ *PAOZZ	5360-00-526-0143	19207	5384062	SPRING, HELICAL, TORSION.....	1
17	PAFZZ *PAOZZ	5315-00-839-2325	80205	MS24665-132	PIN, COTTER.....	1
18	PAFZZ *PAOZZ	1005-00-538-4053	19204	5384053	BAR, MACHINE GUN CRADLE .....	1
19	PAFZZ *PAOZZ	5340-00-538-4060	19204	5384060	CLEVIS, ROD END .....	1
20	XAFZZ		19204	7042930	PINTLE, MOUNT.....	1
21	PAFZZ *PAOZZ	5310-00-407-9566	80205	MS35338-45	WASHER, LOCK.....	3
22	PAFZZ *PAOZZ	5310-00-880-7746	96906	MS51968-5	NUT, PLAIN HEXAGON .....	3
23	PAOZZ	5315-00-707-0292	19207	7070292	PIN, QUICK RELEASE.....	1
24	PAFZZ	5315-00-538-4057	19204	5384057	PIN, TAPERED, THREADED .....	2
25	PAOZZ	5315-00-704-2932	19205	7042932	PIN, QUICK RELEASE .....	1
26	PAOZZ	5315-00-707-0291	19207	7070291	PIN, QUICK RELEASE .....	1
27	PAOZZ	5305-00-068-0511	80204	B1821BH038C 125N	SCREW, CAP, HEXAGON .....	1
28	PAOZZ	5310-01-389-4257	80204	MS35338-046	WASHER, LOCK.....	1

END OF FIGURE

\*MARINE CORPS ONLY

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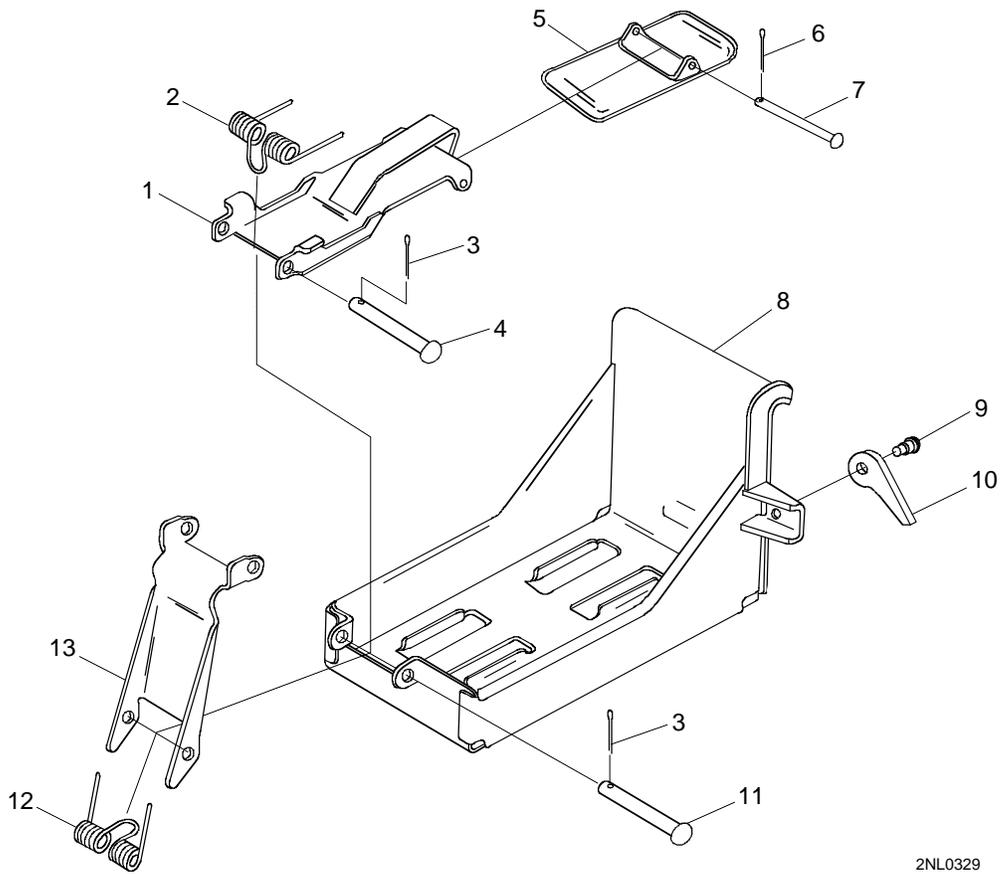
**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
AMMUNITION BOX TRAY ASSEMBLY, NSN 8140-00-659-0078, P/N 6590078**

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**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
AMMUNITION BOX TRAY ASSEMBLY, NSN 8140-00-659-0078, P/N 6590078**

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2NL0329

**Figure 3. Ammunition Box Tray Assembly, P/N 6590078**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
					GROUP 01	
					FIGURE 3. AMMUNITION BOX TRAY ASSEMBLY, P/N 6590078	
1	PAOZZ	5340-00-711-4359	19204	7114359	STRAP RETAINING .....	1
2	PAOZZ	5360-00-541-2820	19207	5412820	SPRING .....	1
3	PAOZZ	5315-00-842-3044	80205	MS24665-283	PIN, COTTER .....	2
4	PAOZZ	5315-01-056-7320	96906	MS20392-4C91	PIN, STRAIGHT .....	1
5	PAOZZ	1005-00-633-7900	19204	6337900	PAD ASSEMBLY .....	1
6	PAOZZ	5315-00-839-2325	80205	MS24665-132	PIN, COTTER .....	1
7	PAOZZ	5315-00-782-1821	96906	MS20392-2C81	PIN, STRAIGHT .....	1
8	XAOOO		19204	6590077	TRAY ASSEMBLY .....	1
9	PAOZZ	5320-00-541-2816	19204	5412816	RIVET .....	1
10	PAOZZ	5340-00-541-2817	19204	5412817	CAM .....	1
11	PAOZZ	5315-00-930-0101	96906	MS20392-5C99	PIN, STRAIGHT .....	1
12	PAOZZ	5360-00-541-2819	19207	5412819	SPRING .....	1
13	PAOZZ	1005-01-565-2811	19204	5652801	STRAP .....	1

END OF FIGURE

END OF WORK PACKAGE

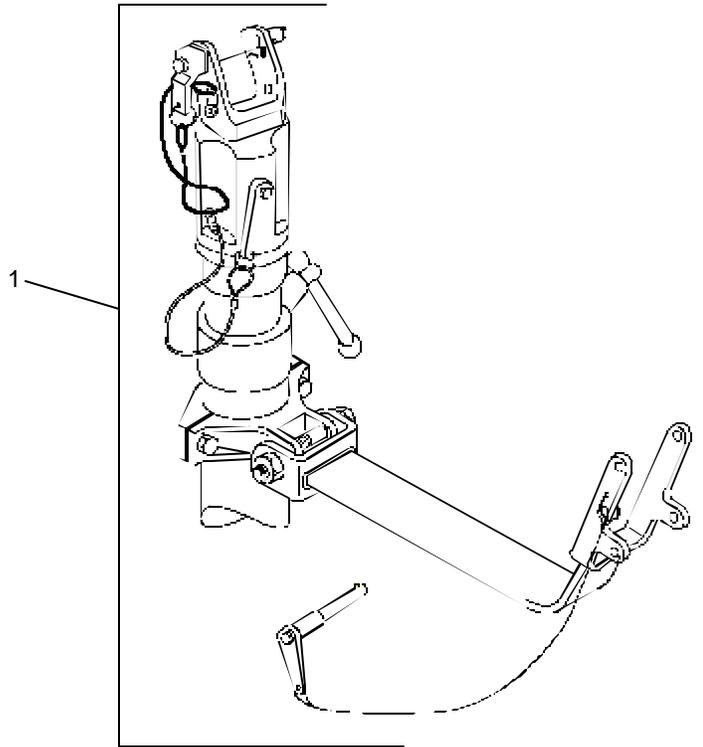


**TM 9-1005-245-13&P**

**REPAIR PARTS AND SPECIAL TOOLS LIST  
FOR  
M197 MACHINE GUN MOUNT**

TM 9-1005-245-13&P

**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
M197 MACHINE GUN MOUNT, NSN 1005-01-413-4098, P/N 12956264**



2NL0330

**Figure 1. M197 Machine Gun Mount, P/N 12956264**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
					GROUP 00	
1	PAOOO	1005-01-413-4098	19200	12956264	FIGURE 1. M197 MACHINE GUN MOUNT, P/N 12956264 MOUNT, MACHINE GUN, M197.....	1

**END OF FIGURE**

**END OF WORK PACKAGE**



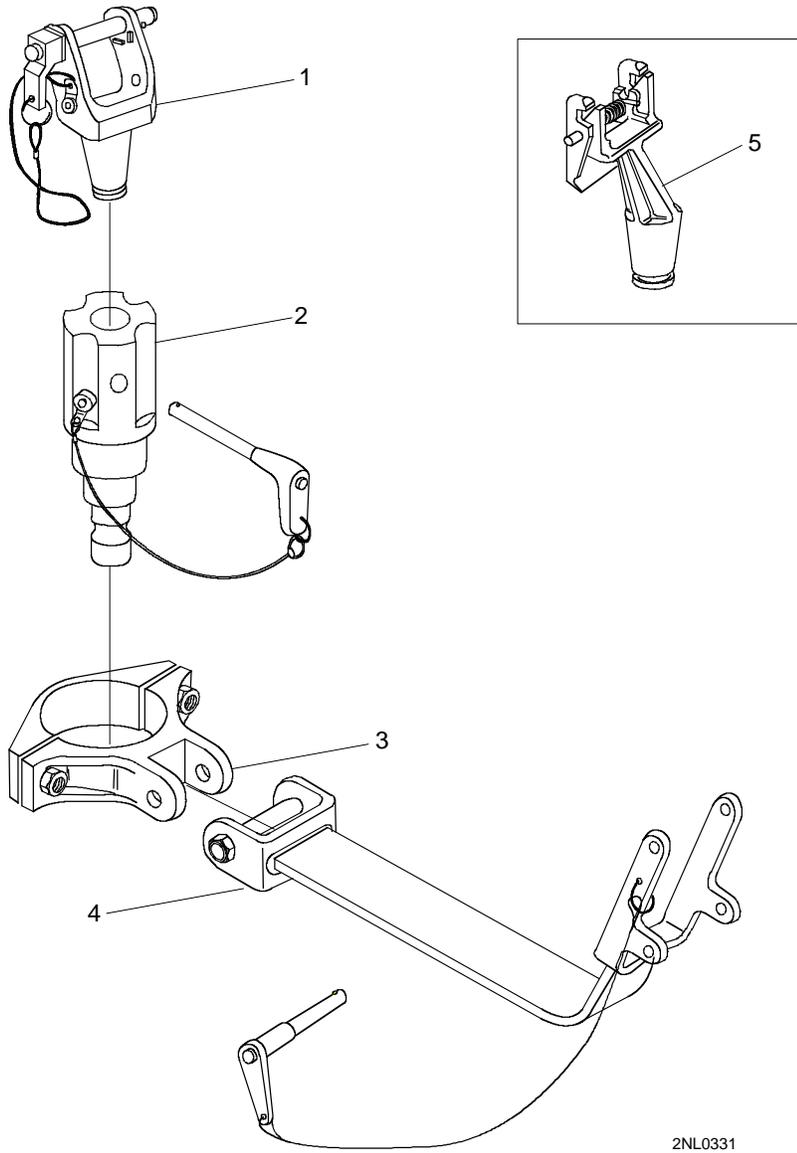
**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
M197 MACHINE GUN MOUNT, NSN 1005-01-413-4098, P/N 12956264**

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**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
M197MACHINE GUN MOUNT, NSN 1005-01-413-4098, P/N 12956264 (cont)**

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2NL0331

**Figure 2. M197 Machine Gun Mount, PN/N 12956264**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
					GROUP 00	
					FIGURE 2. M197 MACHINE GUN MOUNT, P/N 12956264	
1	PAOOO	1005-01-461-2656	19200	12986102	PINTLE ASSEMBLY, TRAVEL LOCK SEE WP 0141 00 FOR BRKDOWN UOC: BB8, BC5 .....	1
2	PAOOO	1010-01-151-6229	53711	5830131	PINTLE ADAPTER ASSEMBLY SEE WP 0171 00 FOR BRKDOWN UOC: AK3, BB8, BB9 .....	1
3	PAOOO	1010-01-151-6239	53711	5830063	BRACKET ASSEMBLY, TRAVEL LOCK SEE FIG. 4 FOR BRKDOWN UOC: BB8 .....	1
4	PAOOO	1005-01-480-9118	19200	12956265-2	TRAVEL LOCK ASSEMBLY SEE FIG. 3 FOR BRKDOWN UOC: BB8 .....	1
5	PAOOO	1005-00-945-9756	19205	11010408	PINTLE MOUNT SEE WP 0129 FOR BRKDOWN UOC: AM5, BB8 .....	1

END OF FIGURE

END OF WORK PACKAGE



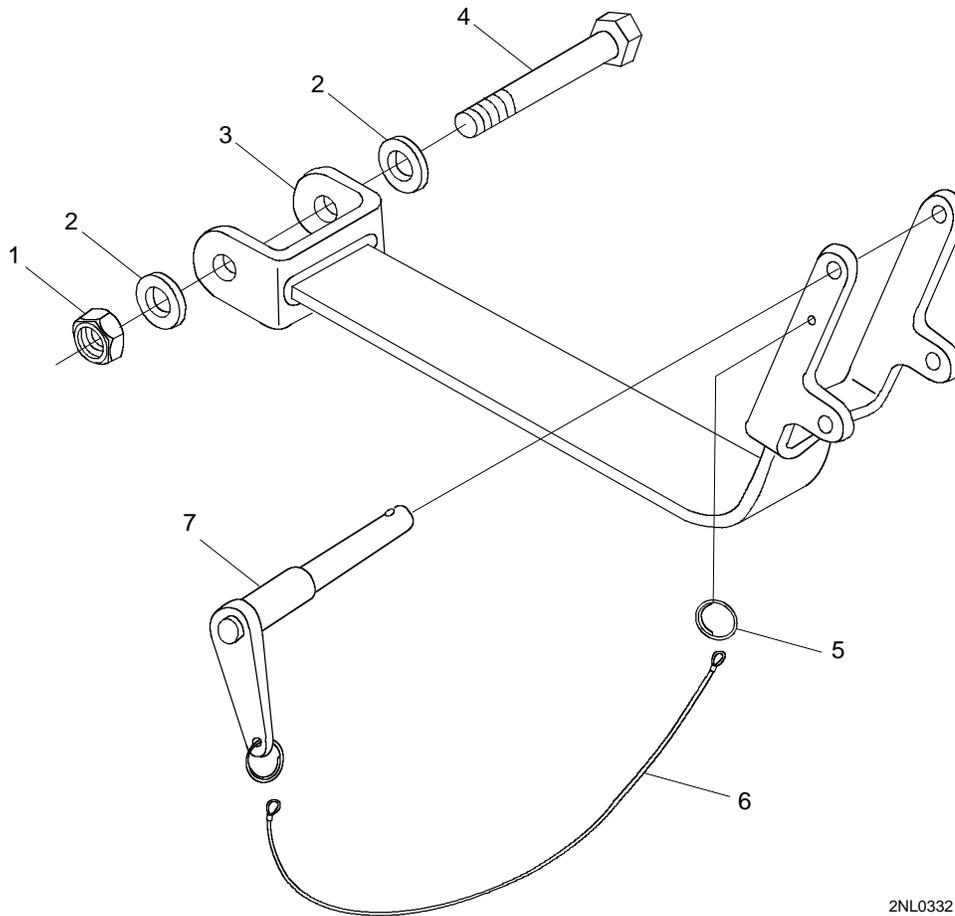
**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
TRAVEL LOCK ASSEMBLY, NSN 1005-01-480-9118, P/N 12956265-2**

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**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
TRAVEL LOCK ASSEMBLY, NSN 1005-01-480-9118, P/N 12956265-2 (cont)**

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2NL0332

**Figure 3. Travel Lock Assembly, P/N 12596365-2**

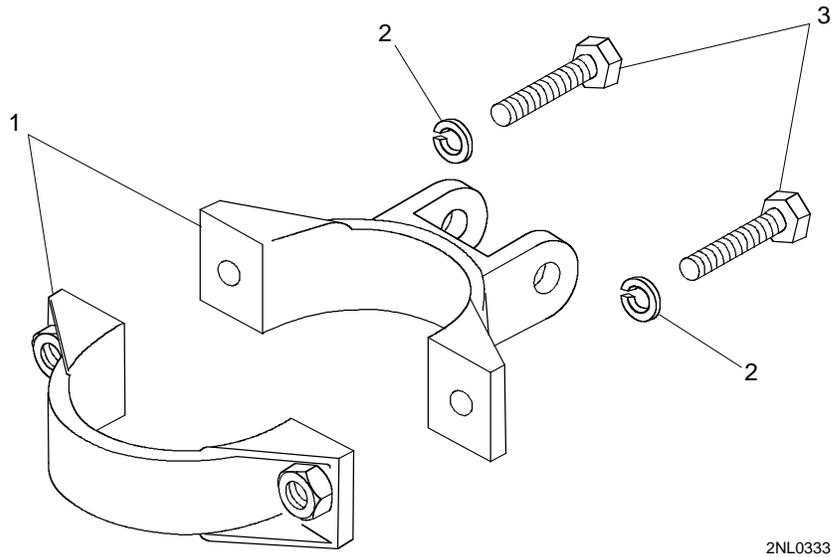
(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 01						
FIGURE 3. TRAVEL LOCK ASSEMBLY, P/N 12956265-2						
1	PAOZZ	5310-00-950-0039	80205	MS21044N6	NUT, SELF-LOCKING, HEX .....	1
2	PAOZZ	5310-00-149-9130	80205	MS20002-6	WASHER, FLAT .....	2
3	XAOZZ		19200	12956266	BRACKET, TRAVEL LOCK.....	1
4	PAOZZ	5305-00-269-3246	80204	B1821BH038F 300N	SCREW, CAP, HEX HEAD .....	1
5	PAOZZ	5365-01-306-4235	19200	12956283-2	RING RETAINING.....	1
6	MOOZZ	4010-01-447-5812	19200	12956269	CABLE ASSEMBLY, WIRE ROPE Make from NSN 1640-01-200-7079 and NSN4030-00-145-5721 .....	1
7	PAOZZ	5315-01-368-7364	0205	MS17986C725	PIN, QUICK RELEASE .....	1

END OF FIGURE

END OF WORK PACKAGE



**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
BRACKET ASSEMBLY, TRAVEL LOCK, NSN 1010-01-151-6239, P/N 5830063**



**Figure 4. Bracket Assembly, Travel Lock, P/N 5830063**

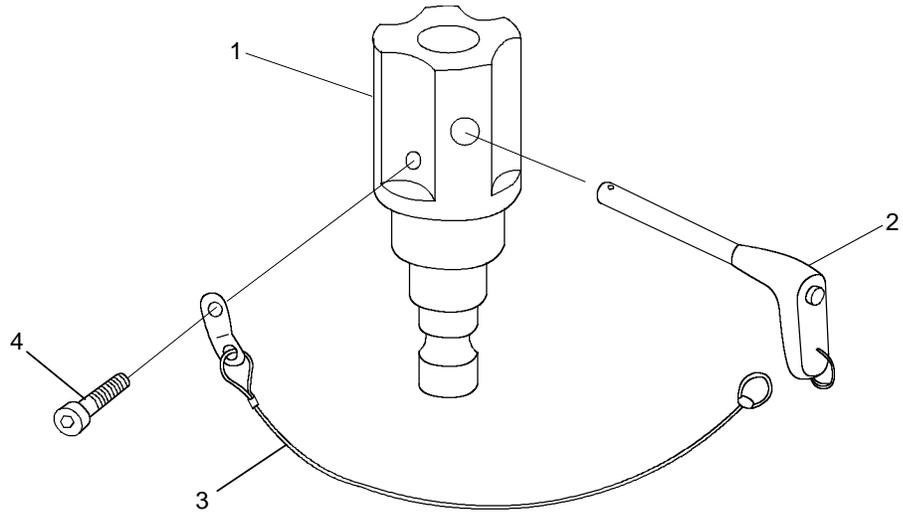
(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 02						
FIGURE 4. BRACKET ASSEMBLY, TRAVEL LOCK, P/N 5830063						
1	XAOZZ		53711	5830133	CLAMP, TRAIN .....	1
2	PAOZZ	5310-00-407-9566	96906	MS35338-45	WASHER, LOCK.....	2
3	PAOZZ	5306-00-225-8499	96906	MS90725-34	BOLT, MACHINE .....	2

**END OF FIGURE**

**END OF WORK PACKAGE**



**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
PINTLE ADAPTER ASSEMBLY, NSN 1010-01-151-6229, P/N 5830131**



2NL0334

**Figure 5. Pintle Adapter Assembly, P/N 5830131**

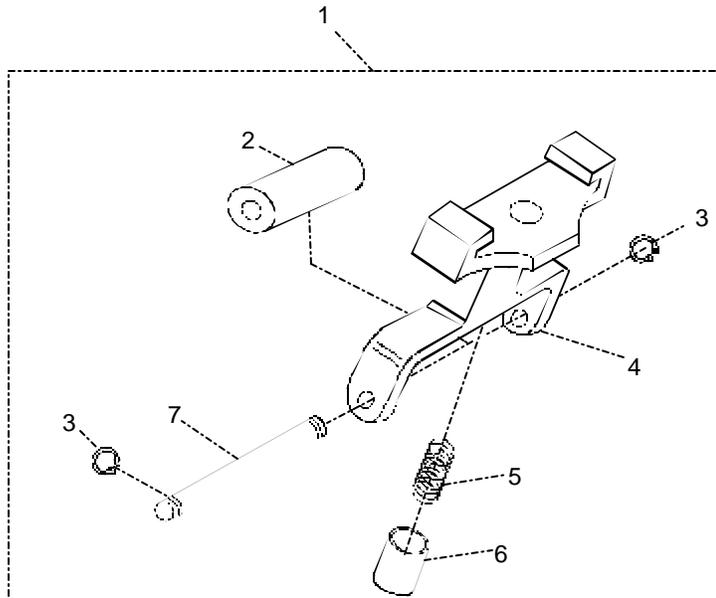
(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 03						
FIGURE 5. PINTLE ADAPTER ASSEMBLY, P/N 5830131						
1	XAOZZ		53711	5830132	PINTLE ADAPTER.....	1
2	PAOZZ	5315-01-292-6411	96906	MS17986C325	PIN, QUICK RELEASE .....	1
3	PAOZZ	4010-01-151-6230	53711	2843009	WIRE ROPE ASSEMBLY .....	1
4	PAOZZ	5305-00-052-9329	96906	MS16996-21	SCREW, CAP, SOCKET, HEX .....	1

**END OF FIGURE**

**END OF WORK PACKAGE**



**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
PARTS KIT, ADAPTER ASSEMBLY, NSN 1005-00-772-0194, P/N 7792991**



2NL0335

**Figure 5. Parts Kit, Adapter Assembly, P/N 7792991**

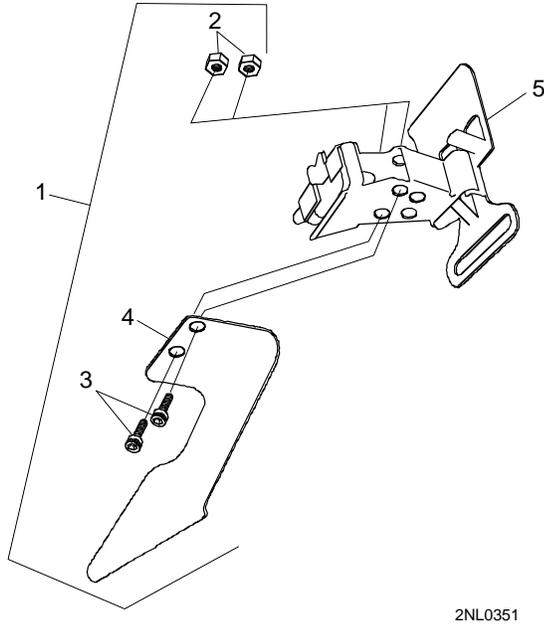
(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 03						
FIGURE 5. PARTS KIT ADAPTER ASSEMBLY, P/N 13008479						
1	PAOOO	1005-01-519-2128	19200	13008479	PARTS KIT, ADAPTER ASSEMBLY UOC: AM5, BB8 .....	1
2	PAOZZ	5365-01-434-0883	19200	12956268	. SLEEVE SPACER UOC: AM5, BB8 .....	1
3	PAOZZ	5325-00-803-7315	96906	MS16624-1043	. RETAINING CLIP UOC: AM5, BB8 .....	2
4	XAOZZ		19205	7792991	. FORK UOC: AM5, BB8 .....	1
5	PAOZZ	5360-00-772-0193	19205	7792987	. SPRING, HELICAL COMPRESSION UOC: AM5, BB8 .....	1
6	PAOZZ	1005-00-772-0192	19205	7792986	. STUD PLUNGER UOC: AM5, BB8 .....	1
7	PAOZZ	5315-01-434-3288	19200	12956267	. PIN, GROOVED HEADLESS UOC: AM5, BB8 .....	1

**END OF FIGURE**

**END OF WORK PACKAGE**



**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
AMMO ADAPTER BRACKET ASSEMBLY, NSN 1005-01-468-0552, P/N 12986106**



2NL0351

**Figure 6. Ammo Adapter Bracket Assembly, P/N 12986106**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP ADDITIONAL AUTHORIZED LIST						
1	PAO00	1005-01-468-0552	19200	12986106	FIGURE 6. AMMO ADAPTER BRACKET ASSEMBLY, P/N 12986106 AMMO ADAPTER BRACKET ASSEMBLY UOC: BB8 .....	1
2	PAOZZ	5310-00-889-2589	80205	MS21044C4	. NUT, SELF-LOCKING UOC: BB8 .....	1
3	PAOZZ	5305-00-052-9329	80205	MS16996-21	. SCREW, CAP, SOCKET HEAD UOC: BB8 .....	1
4	KFOZZ	1005-01-461-5040	19200	12986105	. PLATE, DEFLECTOR UOC: BB8 .....	1
5	PAOOO	1005-01-431-8324	19200	12976909	BRACKET, AMMO UOC: BB8 .....	1

**END OF FIGURE**

**END OF WORK PACKAGE**



**TM 9-1005-245-13&P**

**REPAIR PARTS AND SPECIAL TOOLS LIST  
FOR  
MK64 MACHINE GUN MOUNT**

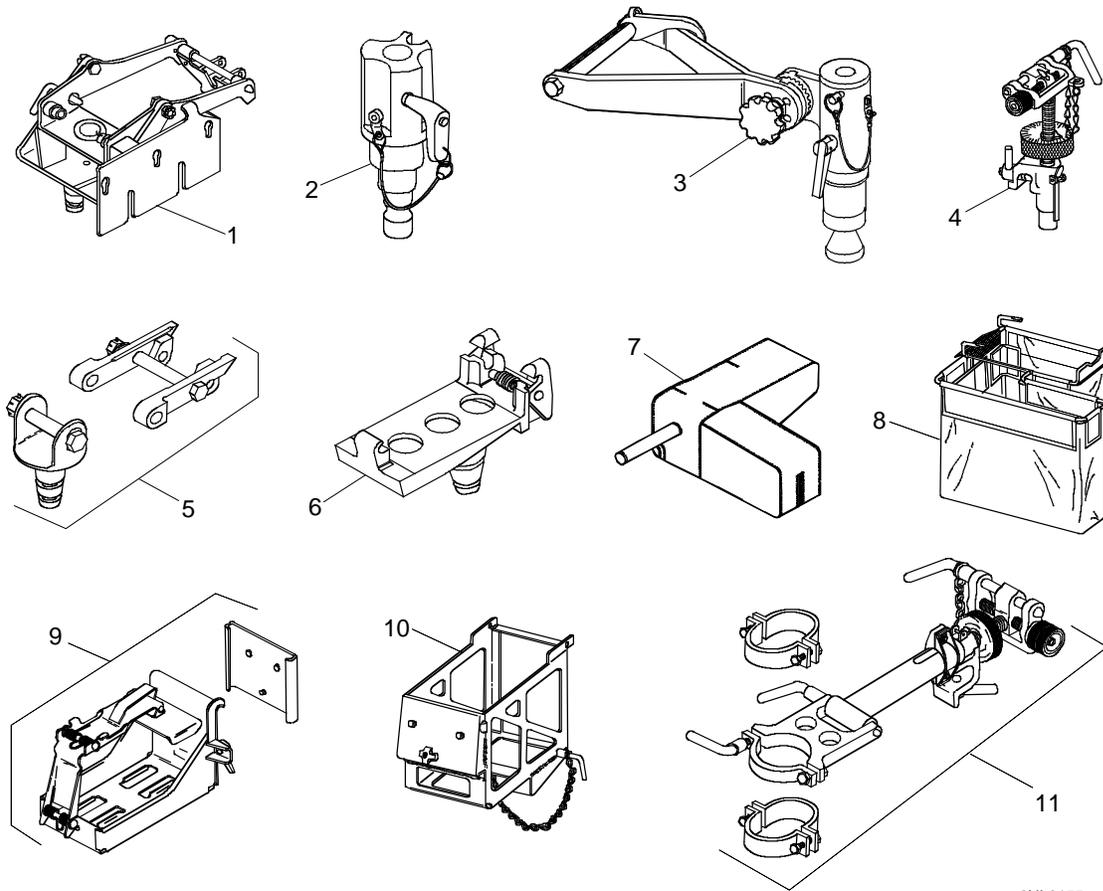
TM 9-1005-245-13&P

**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
MK64 MACHINE GUN MOUNT, MOD 5, NSN 1010-01-180-9319, P/N 5831467;  
MK64 MACHINE GUN MOUNT, MOD 9, NSN 1010-01-412-3159, P/N 12972474**

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**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
MOUNT, MACHINE GUN, MK64 MOD 5, NSN 1010-01-180-9319, P/N 5831467;  
MOUNT, MACHINE GUN, MK64 MOD 9, NSN 1010-01-412-3159, P/N 12972474 (cont)**



2NL0155

**Figure 1. Mount, Machine Gun, MK64 MOD 5, P/N 5831467;  
Mount, Machine Gun, MK64 MOD 9, P/N 12972474**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
					GROUP 00	
					FIGURE 1. MOUNT, MACHINE GUN, MK64 MOD 5, P/N 5831467; MOUNT, MACHINE GUN, MK64 MOD 9, P/N 12972474	
1	PAOFF	1010-01-160-6115	53711	5830052	CARRIAGE AND CRADLE ASSEMBLY SEE FIG.2 FOR BRKDWN UOC: AK3, BB9.....	1
2	PAOOO	1010-01-151-6229	53711	5830131	PINTLE ADAPTER ASSEMBLY SEE WP 0157 00 FOR BRKDWN UCO: AK3, BB8, BB9.....	1
3	PAOFF	1010-01-445-6143	19200	12012061	ADAPTER, UNIVERSAL PINTLE ADAPTER SEE FIG.3 FOR BRKDWN UOC: AY8, BB9, BL4 .....	1
4	PAOFF	1010-01-151-6227	53711	5830128	MECHANISM ASSEMBLY, ELEVATING AND TRAVERSING SEE WP 0145 00 AND WP 0146 00 FOR BRKDWN UOC: AK3, AN0, AY7, AY8, BB9, BL4.....	1
5	PAOOO	1010-01-151-6217	53711	5830097	.50 CALIBER MOUNTING ADAPTER ASSEMBLY SEE FIG.4 FOR BRKDWN UOC: AK3 .....	1
6	PBOOO	1010-01-289-2709	53711	5831546	PLATFORM ASSEMBLY SEE FIG.5 FOR BRKDWN UOC: AK3 .....	1
7	PAOZZ *PAOFF	1010-01-151-6277	53711	5830059	COVER MOUNT, MACHINE GUN UOC: AK3 .....	1
8	AOOOO		53711	6650759	CATCH BAG ASSEMBLY SEE FIG. 7 FOR BRKDWN UOC: BB9 .....	1
9	PAOOO	8140-01-156-7371	53711	5830093	AMMUNITION BOX MOUNTING TRAY SEE FIG.8 FOR BRKDWN UOC: AK3 .....	1
10	PAOOO	5340-01-340-8471	19200	12929150	BRACKET ASSEMBLY, AMMUNITION CAN, MULTIPURPOSE SEE FIG.9 FOR BRKDWN UOC: AK3, BB9.....	1
11	PZOZZ	1010-01-151-6221	53711	5830123	TRAIN AND ELEVATION ASSEMBLY SEE FIG.11 FOR BRKDWN UOC: AK3 .....	1

END OF FIGURE

END OF WORK PACKAGE

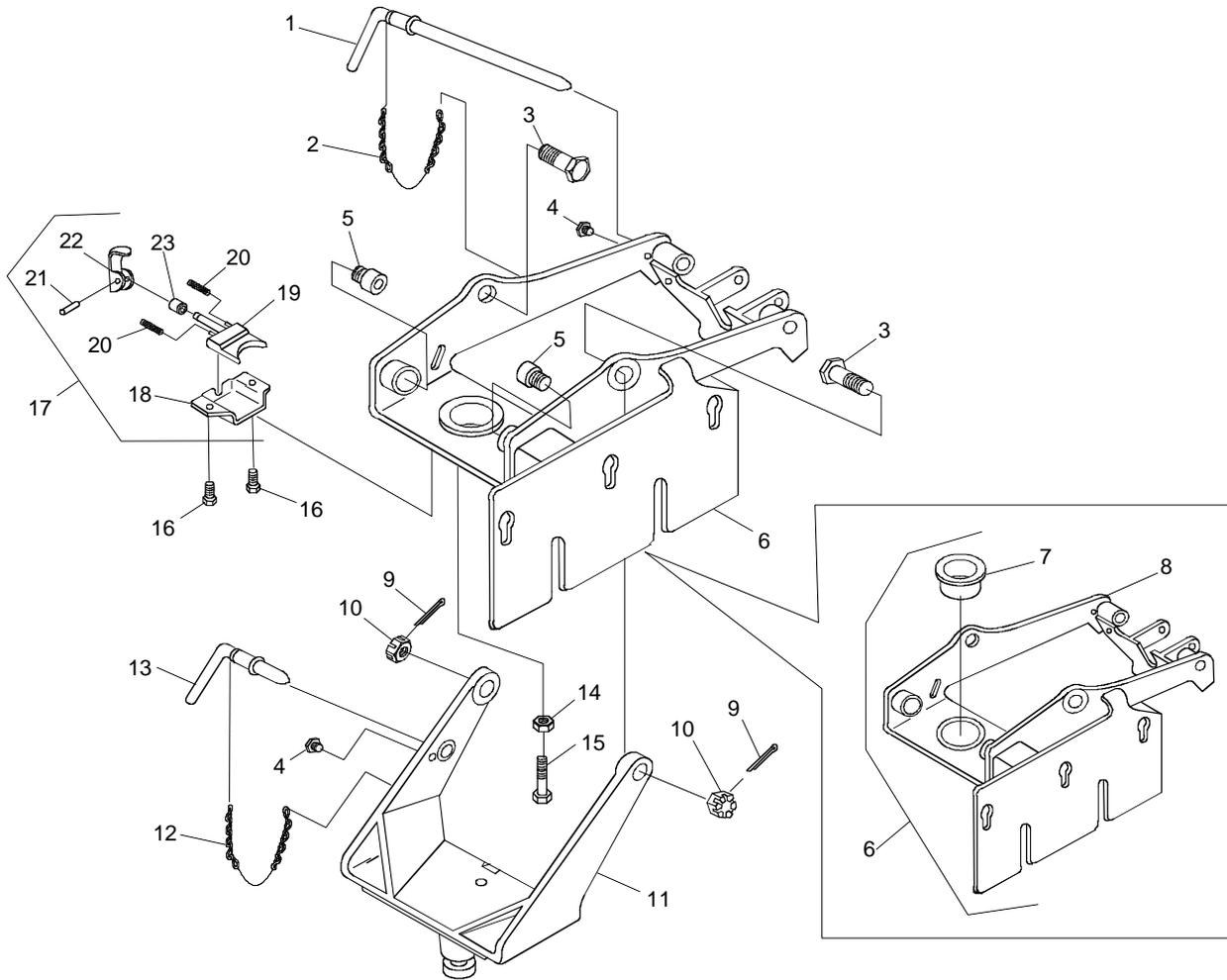


**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
CARRIAGE AND CRADLE ASSEMBLY, NSN 1010-01-160-6115, P/N 5830052;  
CRADLE AND BUSHING ASSEMBLY, NSN 1010-01-151-6231, P/N 5830134; AND  
PINTLE LOCK ASSEMBLY, NSN 1010-01-151-6232, P/N 5830116**

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**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
 CARRIAGE AND CRADLE ASSEMBLY, NSN 1010-01-160-6115, P/N 5830052;  
 CRADLE AND BUSHING ASSEMBLY, NSN 1010-01-151-6231, P/N 5830134;  
 PINTLE LOCK ASSEMBLY, NSN 1010-01-151-6232, P/N 5830116 AND  
 DEPRESSION STOP, NSNA, NPN (cont)**



2NL0336

**Figure 2. Carriage and Cradle Assembly, P/N 5830052;  
 Cradle and Bushing Assembly, P/N 5830134; Pintle Lock Assembly, P/N 5830116  
 and Depression Stop, NPN**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 01, 0101, 0102						
FIGURE 2. CARRIAGE AND CRADLE ASSEMBLY, P/N 5830052; CRADLE AND BUSHING ASSEMBLY, P/N 5830134; PINTLE LOCK ASSEMBLY, P/N 5830116 AND DEPRESSION STOP, NPN						
1	PAOZZ	5315-01-292-9631	80205	MS17985C875	PIN, QUICK RELAEASE .....	1
2	PAOZZ	4010-01-149-5520	53711	5830087-5	CHAIN .....	1
3	PAOZZ	5306-01-150-1922	53711	5830054	BOLT, MACHINE .....	2
4	PAOZZ	5305-01-149-5537	53711	5830086	SCREW, SHOULDER .....	2
5	PAOZZ	5305-01-151-0080	53711	5830053	SCREW, SELF-LOCKING.....	2
6	PAFFF *PAOFF	1010-01-151-6231	53711	5830134	CRADLE AND BUSHING ASSEMBLY.....	1
7	PAFZZ	3120-01-151-6265	53711	5830115	. BUSHING, PINTLE .....	1
8	XAFZZ		53711	5830058	. CRADLE.....	1
9	PAOZZ	5315-00-849-5579	80205	MS24665-437	PIN, COTTER .....	2
10	PAOZZ	5310-01-162-5722	96906	MS35692-55	NUT, SLOTTED, HEX.....	2
11	XAFZZ *PAOFF	1010-01-151-6240	53711	5830056	CARRIAGE .....	1
12	PAOZZ	4010-01-149-5519	53711	5830087-4	CHAIN .....	1
13	PAOZZ	5315-01-151-6261	53711	5830101-1	PIN, RETAINER .....	1
14	PAOZZ	5310-00-880-7744	96906	MS51967-5	NUT, PLAIN, HEX .....	1
15	PAFZZ *PAOZZ	5306-00-225-8503	96906	MS90725-39	BOLT, MACHINE, HEX HEAD .....	1
16	PAFZZ	5305-00-267-8952	80204	B1821BH025F 050N	SCREW, CAP, HEX HEAD .....	2
17	PAFFF	1010-01-151-6232	53711	5830116	LOCK ASSEMBLY, PINTLE.....	1
18	XAFZZ		53711	5831118	. HOUSING LOCK.....	1
19	XAFZZ		53711	5141121	. BODY. LOCK .....	1
20	PAFZZ	5360-01-151-6248	53711	5830119	. SPRING, HELICAL, COMP .....	2
21	PAFZZ	5315-00-059-5234	96906	MS93090-201	. RIVET, SOLID .....	1
22	XAFZZ		53711	5830121	. CAM, RELEASE.....	1
23	XAFZZ		53711	5830120	. COLLAR, SPACING.....	1

END OF FIGURE

\* - MARINE CORPS ONLY

NPN – No part number

END OF WORK PACKAGE

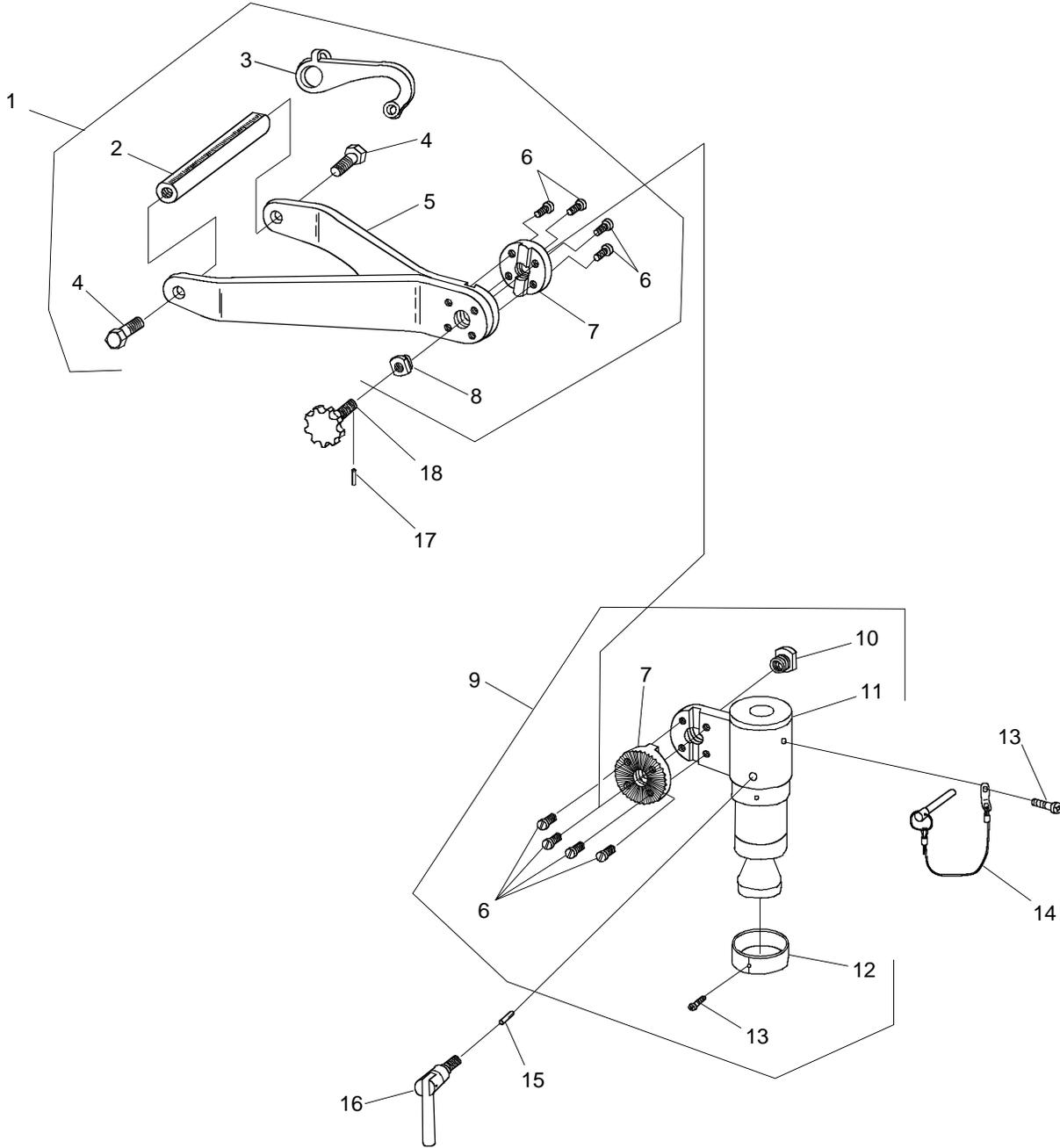


**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
ADAPTER, UNIVERSAL PINTLE, NSN 1010-01-445-6143, P/N 12012061;  
ARM ASSEMBLY, TRAVERSE, NSN 2510-01-387-0586, P/N 12012089; AND  
BODY ASSEMBLY, NSNA, P/N 12012062**

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**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
 ADAPTER, UNIVERSAL PINTLE, NSN 1010-01-445-6143, P/N 12012061;  
 ARM ASSEMBLY, TRAVERSE, NSN 2510-01-387-0586, P/N 12012089; AND  
 BODY ASSEMBLY, NSNA, P/N 12012062 (cont)**



2NL0337

**Figure 3. Adapter, Universal Pintle, P/N 12012061;  
 Arm Assembly, Traverse, P/N 12012089; and Body Assembly, P/N 12012062**

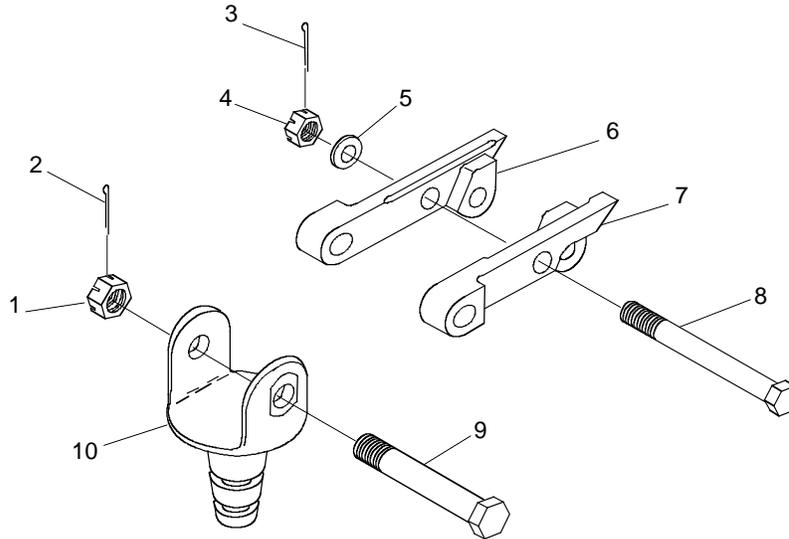
(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
					GROUP 05, 0501, 0502	
					FIGURE 3. ADAPTER, UNIVERSAL PINTLE, P/N 12012061; ARM ASSEMBLY, TRAVERSE, P/N 12012089; AND BODY ASSEMBLY, P/N 12012062	
1	PAFFF	1090-01-468-6535	19200	12012089	ADJUSTABLE ARM AND TRAVEL LOCK ASSEMBLY UOC: AY8, BB9, BL4 .....	
2	PAFZZ	1290-01-386-2008	53711	6650496	. INDICATOR, AZIMUTH UOC: AY8, BB9, BL4 .....	1
3	PAFZZ	1010-01-458-1563	19200	12012088	TRAVEL LOCK UOC: AY8, BB9, BL4 .....	1
4	PAFZZ	5306-01-388-0795	53711	6650501-1	. BOLT, SHOULDER UOC: AY8 BB9, BL4 .....	2
5	XAFZZ	5340-01-388-5595	53711	6650489	ARM, ADJUSTABLE UOC: AY8, BB9, BL4 .....	1
6	PAFZZ	5305-00-514-0237	19205	5140237	. SCREW, MACHINE UOC: AY8, BB9.....	8
7	PAFZZ	3110-01-387-0590	53711	6650561	. PLATE, RETAINING UOC: AY8, BB9, BL4 .....	2
8	PAFZZ	5365-01-386-5924	53711	6650494	. INSERT, SCREW THREAD UOC: AY8, BB9, BL4 .....	1
9	XAFFF		19200	12012062	ADAPTER, PINTLE, SUBASSEMBLY UOC: AY8, BB9, BL4 .....	1
10	PAFZZ	5325-01-386-8327	53711	6650493	. INSERT, SCREW THREAD UOC: AY8, BB9, BL4 .....	1
11	XAFZZ		53711	12012063	PINTLE ADAPTER UOC: AY8, BB9, BL4 .....	1
12	PAFZZ	5325-01-447-2281	19200	12012071	. SPLIT RING UOC: AY8, BB9, BL4 .....	1
13	PAOZZ	5305-01-075-6083	80204	MS51958-79B	. SCREW, MACHINE UOC: AY8, BB9, BL4 .....	2
14	PAOZZ	5315-01-447-2233	53711	12012064	PIN AND CABLE ASSEMBLY UOC: AY8, BB9, BL4 .....	1
15	PAFZZ	5315-01-447-2276	19200	12012067	PIN, STRAIGHT, HEADLESS (PAWL) UOC: AY8, BB9, BL4 .....	1
16	PAFZZ	1010-01-447-2983	19200	12012065	HANDLE, MANUAL CONTROL UOC: AY8, BB9, BL4 .....	1
17	PAFZZ	5315-00-826-3251	80204	MS16562-223	PIN, SPRING UOC: AY8, BB9, BL4 .....	1
18	PAFZZ	5305-01-386-2768	53711	6650498	THUMBSCREW UOC: AY8, BB9, BL4 .....	1

END OF FIGURE

END OF WORK PACKAGE



**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
CALIBER .50 MOUNTING ADAPTER ASSEMBLY, NSN 1010-01-151-6217, P/N 5830097**



2NL0338

**Figure 4. .50 Caliber Mounting Adapter Assembly, P/N 5830097**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 07						
FIGURE 4. .50 CALIBER MOUNTING ADAPTER ASSEMBLY, P/N 5830097						
1	PAOZZ	5310-00-513-9964	19204	5139964	NUT, PLAIN, SLOTTED, HEX UOC: AK3 .....	1
2	PAOZZ	5315-00-903-3971	80205	MS24665-834	PIN, COTTER UOC: AK3 .....	1
3	PAOZZ	5315-00-241-7330	80205	MS24665-304	PIN, COTTER UOC: AK3 .....	1
4	PAOZZ	5310-00-350-9707	96906	MS35692-27	NUT, PLAIN, SLOTTED HEX UOC: AK3 .....	1
5	PAOZZ	5310-00-206-8491	96906	MS20002-7	WASHER, FLAT, ROUND UOC: AK3 .....	1
6	PAOZZ *XAOZZ	1010-01-151-6218	53711	5830078	MOUNT, AFT, RH UOC: AK3 .....	1
7	PAOZZ *XAOZZ	1010-01-151-6219	53711	5830079	MOUNT, AFT, LH UOC: AK3 .....	1
8	PAOZZ	5305-01-163-5779	96906	MS51109-96	BOLT, MACHINE, HEX. HEAD UOC: AK3 .....	1
9	PAOZZ	5306-00-513-9973	19204	5139973	BOLT, MACHINE, HEX HEAD UOC: AK3 .....	1
10	PAOZZ *XAOZZ	1005-00-555-9332	19200	5559332	PINTLE MOUNT, TRIPOD UOC: AK3 .....	1

**END OF FIGURE**

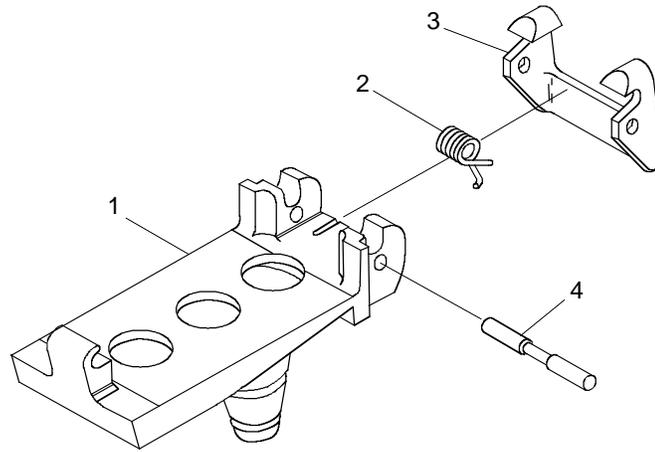
\* MARINE CORPS ONLY

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**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
PLATFORM ASSEMBLY, NSN 1010-01-289-2709, P/N 5831546**



**Figure 5. Platform Assembly, P/N 5831546**

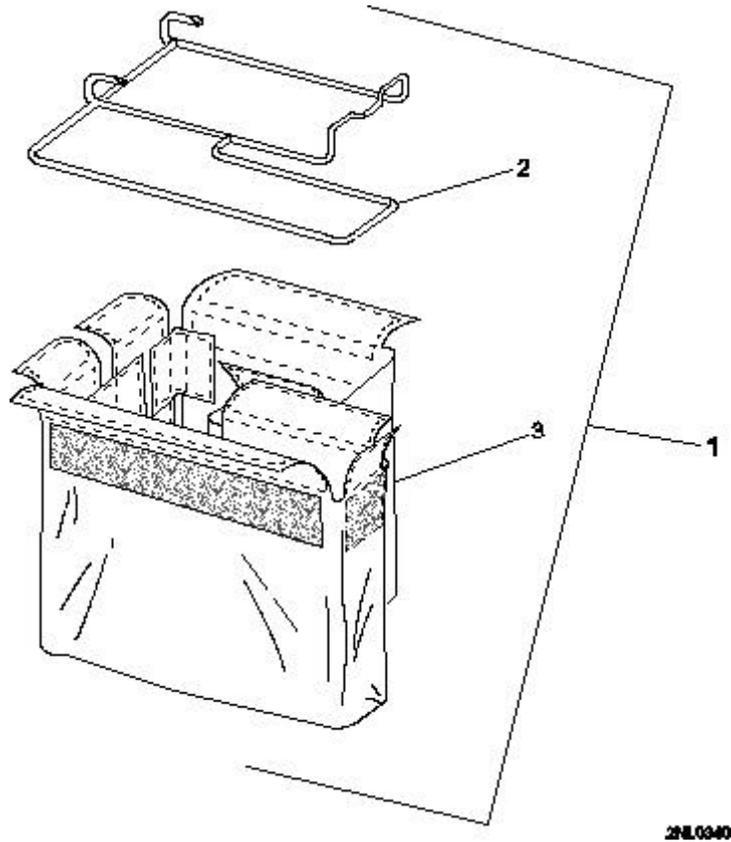
(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 07						
FIGURE 5. PLATFORM ASSEMBLY, P/N 5831546						
1	XAOZZ		53711	5831547	PLATFORM UOC: AK3, BB9.....	1
2	PAOZZ	5360-01-150-1923	53711	2814006	SPRING, HELICAL TORSION UOC: AK3, BB9.....	1
3	PAOZZ	1010-01-156-7372	53711	2814007	LATCH, PLATFORM UOC: AK3, BB9.....	2
4	PAOZZ	5315-01-149-5531	53711	2680617	PIN, GROOVES HEAD UOC: AK3, BB9.....	1

**END OF FIGURE**

**END OF WORK PACKAGE**



**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
CATCH BAG ASSEMBLY, NSN 1005-01-418-4360, P/N 6650759**



**Figure 7. Catch Bag Assembly, P/N 6650759**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 02						
1	AOOOO		53711	6650759	FIGURE 7. CATCH BAG ASSEMBLY, P/N 6650759 CATCH BAG ASSEMBLY UOC: BB9 .....	
2	PAOZZ	1005-01-516-3961	53711	6650753	FRAME, CATCH BAG UOC: BB9 .....	1
3	PAOZZ	1005-01-388-5702	53711	6650722-1	CATCH BAG, CARTRIDGE (OLIVE) UOC: BB9 .....	1
4	PAOZZ	1005-01-388-5685	5371	6650722-2	CATCH BAG, CARTRIDGE (SAND) UOC: BB9 .....	1

**END OF FIGURE**

**END OF WORK PACKAGE**

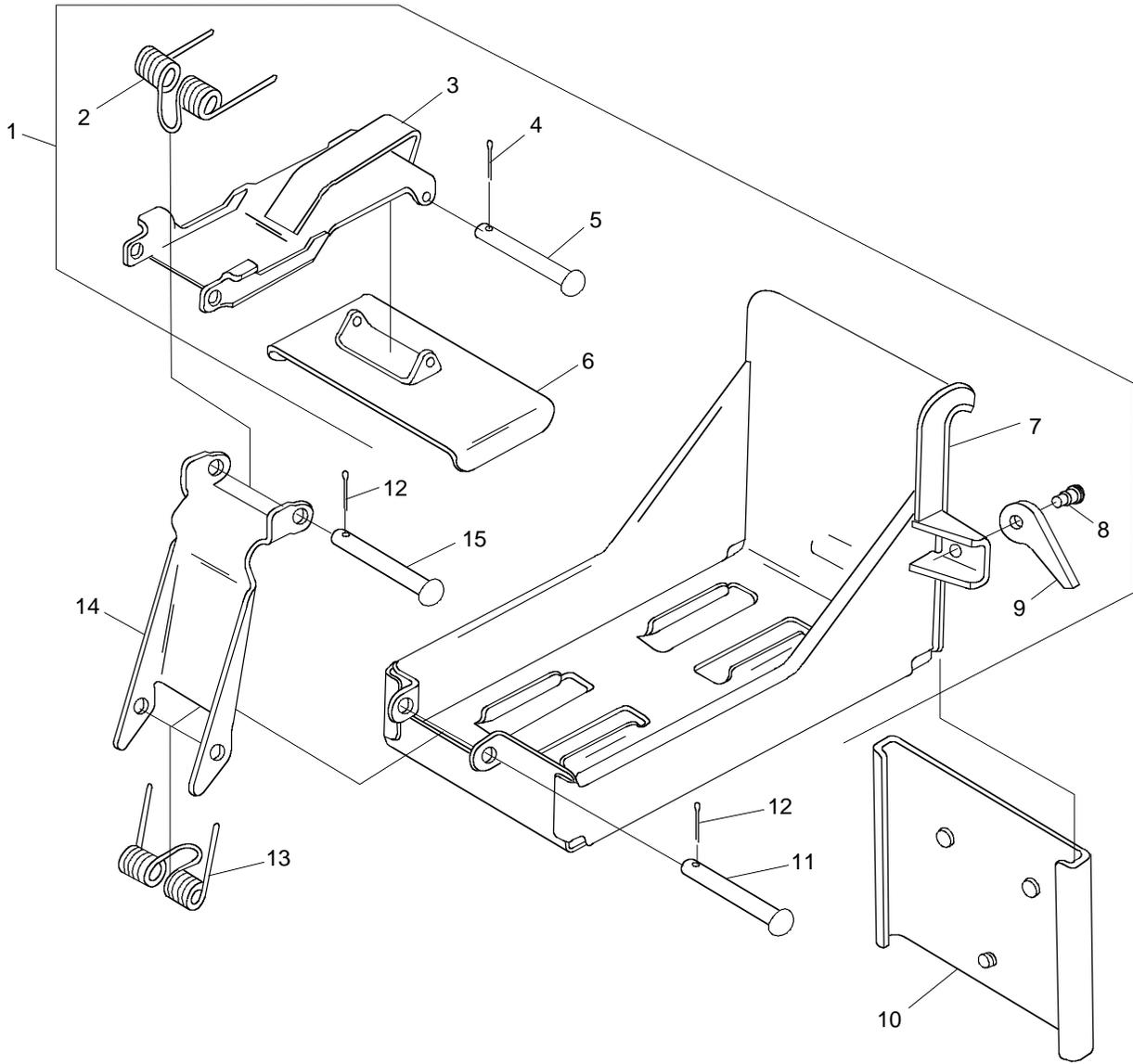


**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
AMMUNITION BOX MOUNTING TRAY ASSEMBLY, NSN 8140-01-156-7371, P/N 5830093; AND  
AMMUNITION BOX MOUNTING TRAY ASSEMBLY, NSN 1010-01-15-6242, P/N 5830114**

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**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
 AMMUNITION BOX MOUNTING TRAY ASSEMBLY, NSN 8140-01-156-7371, P/N 5830093; AND  
 AMMUNITION BOX MOUNTING TRAY ASSEMBLY, NSN 1010-01-15-6242, P/N 5830114 (cont)**



2NL0341

**Figure 8. Ammunition Mounting Box Tray Assembly, P/N 5830093; and  
 Ammunition Mounting Box Tray Assembly, P/N 5830114**

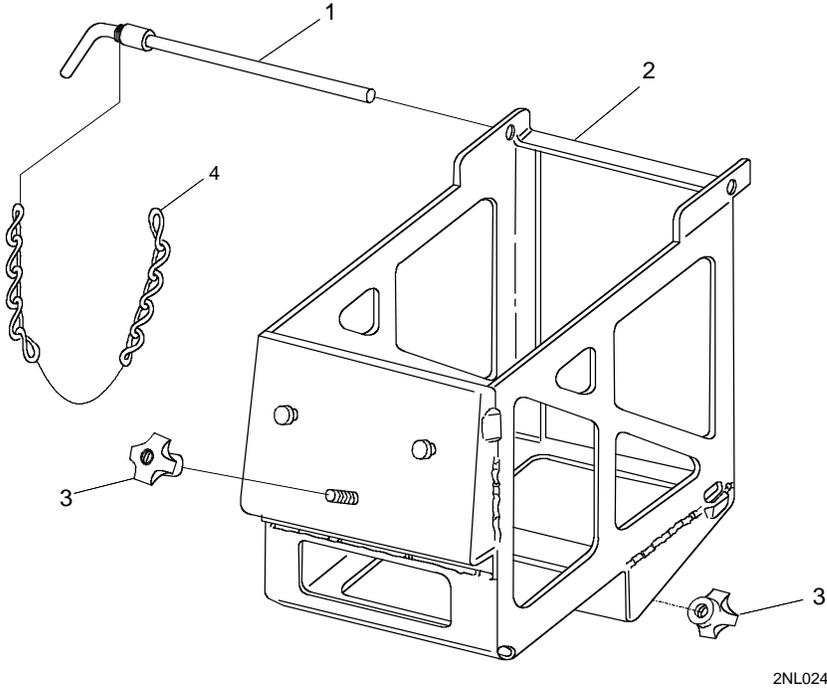
(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
					GROUP 06, 0601	
					FIGURE 8. AMMUNITION BOX MOUNTING TRAY ASSEMBLY, P/N 5830093; AND AMMUNITION BOX MOUNTING TRAY ASSEMBLY, P/N 5830114	
1	PAOOO	1010-01-151-6242	53711	5830114	TRAY ASSEMBLY, AMMUNITION BOX MOUNTING UOC: AK3 .....	1
2	PAOZZ	5360-00-541-2820	19207	5412820	. SPRING UOC: AK3 .....	1
3	PAOZZ	5340-00-711-4359	19204	7114359	. STRAP RETAINING UOC AK3 .....	1
4	PAOZZ	5315-00-013-7137	80205	MS24665-814	. PIN, COTTER UOC: AK3 .....	1
5	PAOZZ	5315-00-782-1821	96906	MS20392- 2C81	. PIN, STRAIGHT UOC: AK3 .....	
6	PAOZZ	1010-01-151-6243	53711	5830077	. PAD ASSEMBLY UOC: AK2, AK3, AK4 .....	1
7	XAOZZ		19204	6590077	. TRAY ASSEMBLY UOC: AK3 .....	1
8	PAOZZ	TBD	19204	5412616	. RIVET UOC: AK3 .....	1
9	PAOZZ	5340-00-541-2817	19204	5412817	. LEVER, LOCK RELEASE (CAM) UOC: AK3 .....	1
10	PAOZZ	5340-01-151-6241	53711	5830104	BRACKET ASSEMBLY, AMMUNITION BOX UOC: AK3 .....	1
11	PAOZZ	5315-01-056-7320	96906	MS20392- 4C91	PIN, STRAIGHT UOC: AK3 .....	1
12	PAOZZ	5315-00-842-3044	80205	MS24665-283	. PIN, COTTER UOC: AK3 .....	2
13	PAOZZ	5360-00-541-2819	19207	5412819	. SPRING UOC: AK3 .....	1
14	XAFZZ		19204	5852801	. STRAP UOC: AK3 .....	1
15	PAOZZ	5315-00-930-0101	96906	MS20392- 5C99	. PIN, STRAIGHT UOC: AK3 .....	1

END OF FIGURE

END OF WORK PACKAGE



**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
MULTIPURPOSE AMMUNITION CAN BRACKET ASSEMBLY,  
NSN 5340-01-340-8471, PN 12929150**



**Figure 9. Multipurpose Ammunition Can Bracket Assembly, P/N 12929150**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 03						
FIGURE 9. MULTIPURPOSE AMMUNITION CAN BRACKET ASSEMBLY, P/N 12929150						
1	PAOZZ	5315-01-342-0671	19200	12929251	PIN, SHOULDER, HEADED UOC: AK3, AY8, BB9 .....	1
2	XAOZZ		19200	12929159	BRACKET, WELDMENT UOC: AK3, AY8, BB9 .....	1
3	PAOZZ	5355-01-387-4540	19200	12953608	KNOB UOC: AK3, AY8, BB9 .....	2
4	PAOZZ	4010-01149-5520	53711	5830087-5	CHAIN ASSEMBLY UOC: AK3, AY8, BB9 .....	1

**END OF FIGURE**

**END OF WORK PACKAGE**



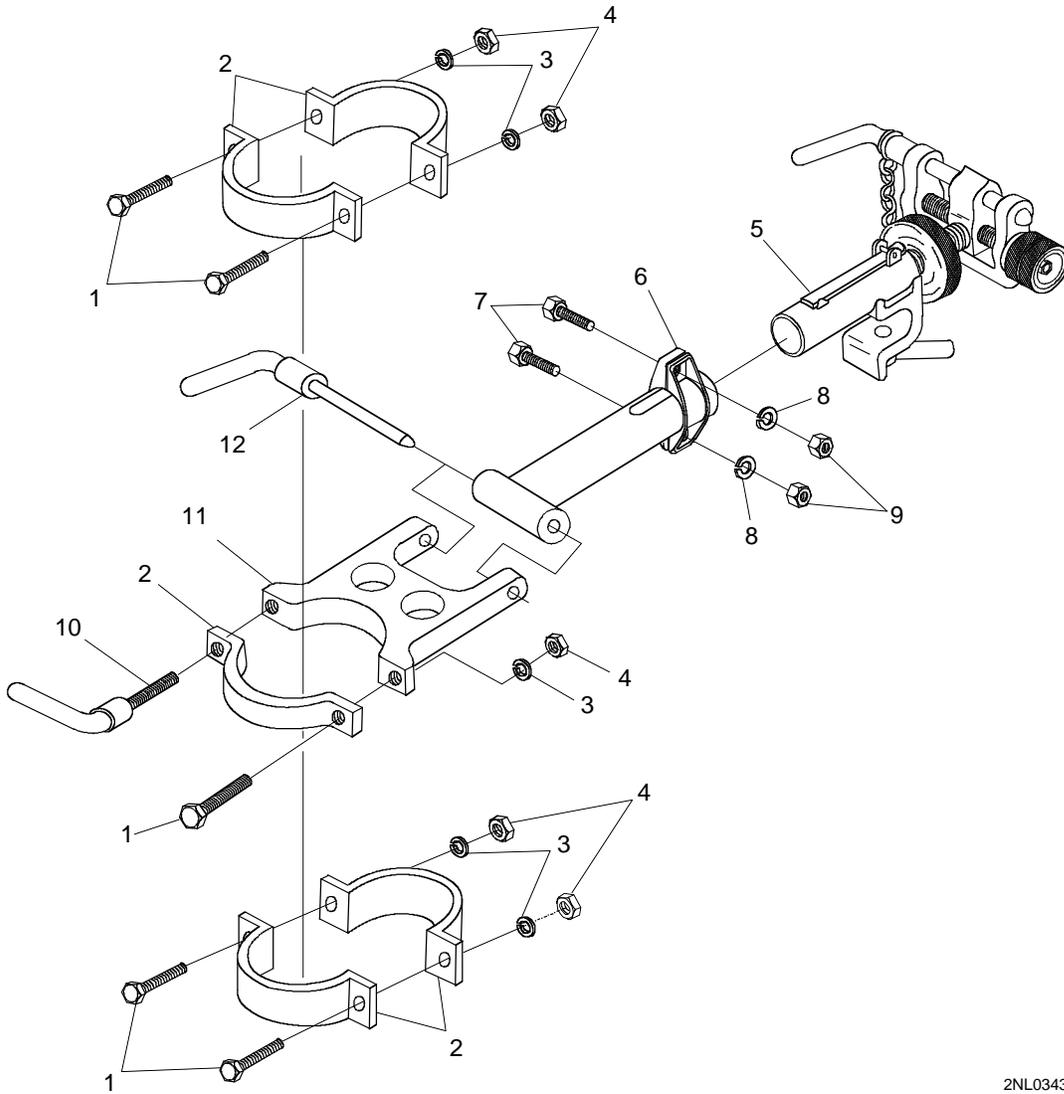
**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
TRAIN AND ELEVATION ASSEMBLY, NSN 1010-01-151-6221, P/N 5830123**

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**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
TRAIN AND ELEVATION ASSEMBLY, NSN 1010-01-151-6221, P/N 5830123 (cont)**

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2NL0343

**Figure 10. Train and Elevation Assembly, P/N 5830123**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
					GROUP	
					FIGURE 11. TRAIN AND ELEVATION ASSEMBLY, P/N 5830123	
1	PAOZZ	5305-00-269-4511	96906	MS90725-63	SCREW, CAP, HEX. HEAD UOC: AK3 .....	5
2	PAOZZ	5340-01-151-6224	53711	5830126	CLAMP, RIM CLENCHING UOC: AK3 .....	5
3	PAOZZ	5310-00-011-5093	96906	MS35338-65	WASHER, SPLIT LOCK UOC: AK3 .....	5
4	PAOZZ	5310-00-732-0558	96906	MS51967-8	NUT, PLAIN HEX. UOC: AK3 .....	5
5	PAOFF	1010-01-151-6227	19200	5830128	TRAVERSE AND ELEVATING MECHANISM ASSEMBLY FOR BRKDOWN SEE WP0145 00 AND WP 0146 00 UOC: AK3, ANO, AY8, BB9, BL4 .....	1
6	AFFFF		53711	5830135	PIVOT ARM ASSEMBLY UOC: AK3 .....	1
7	PAOZZ	5305-00-068-0502	96906	MS90725-6	SCREW, CAP, HEX. HEAD UOC: AK3 .....	2
8	PAOZZ	5310-00-274-8715	96906	MS35338-63	WASHER, SPLIT LOCK UOC: AK3 .....	2
9	PAOZZ	5310-00-761-6882	96906	MS51967-2	NUT, PLAIN HEX. UOC: AK3 .....	2
10	PAOZZ	1010-01-151-3556	53711	5830127	HANDLE, LOCK TRAIN TOE UOC: AK3 .....	1
11	PAOZZ	1010-01-151-6223	53711	5830125	PIVOT UOC: AK3 .....	1
12	PAOZZ	1010-01-151-6228	53711	5830129	HANDLE, LOCK TRAIN TOE UOC: AK3 .....	1

END OF FIGURE

This item is for Marine Corps only.

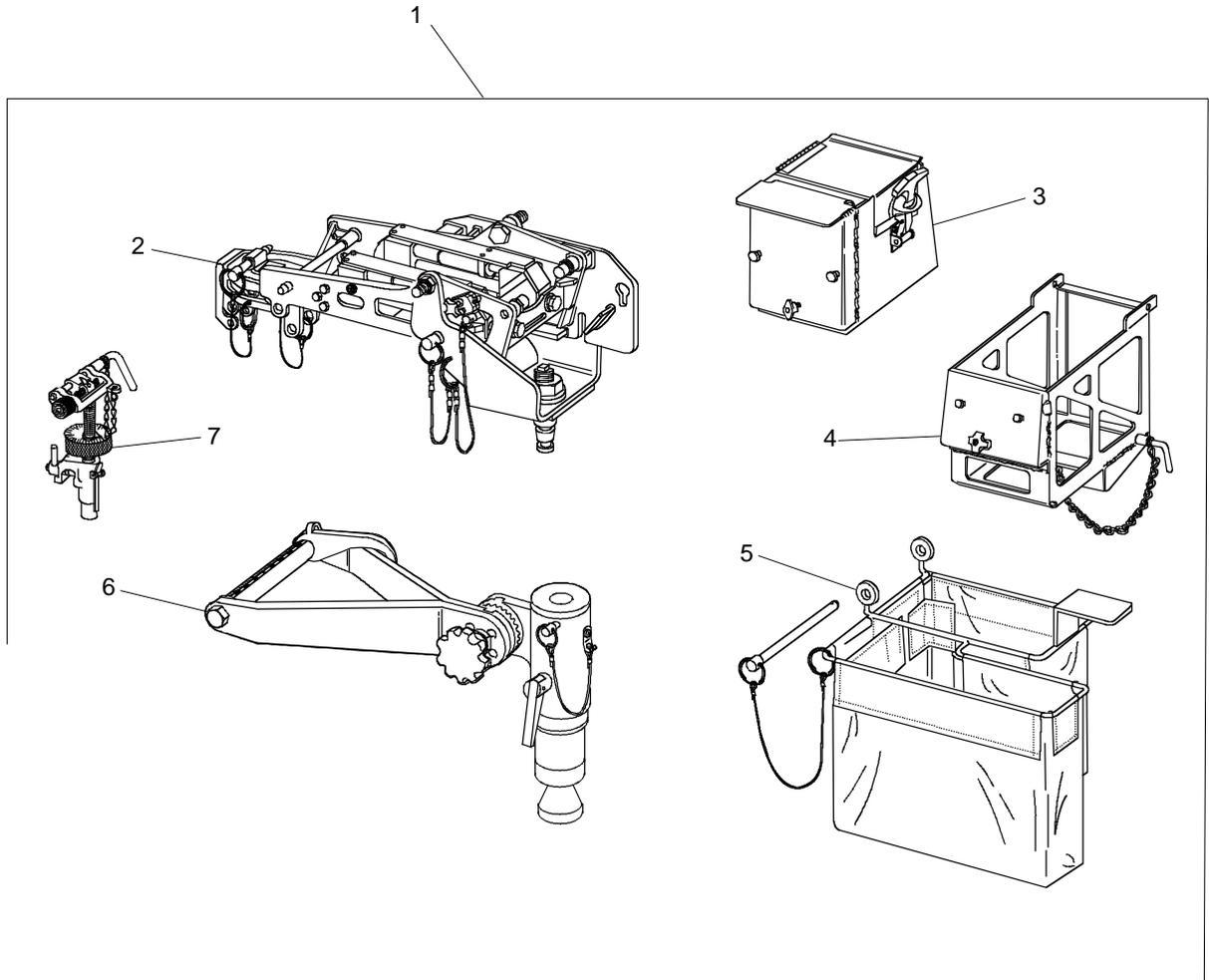
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**REPAIR PARTS AND SPECIAL TOOLS LIST**  
**FOR**  
**MK93 MOD 1 MACHINE GUN MOUNT**  
**AND**  
**MK93 MOD 2 MACHINE GUN MOUNT**

TM 9-1005-245-13&P

**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
MOUNT, MACHINE GUN, MK93 MOD 1, NSN 1005-01-383-2757, P/N 6650717; AND  
MOUNT, MACHINE GUN, MK93 MOD 2, NSN 1005-01-502-7547, P/N 13001175 (ASSEMBLED VIEW)**

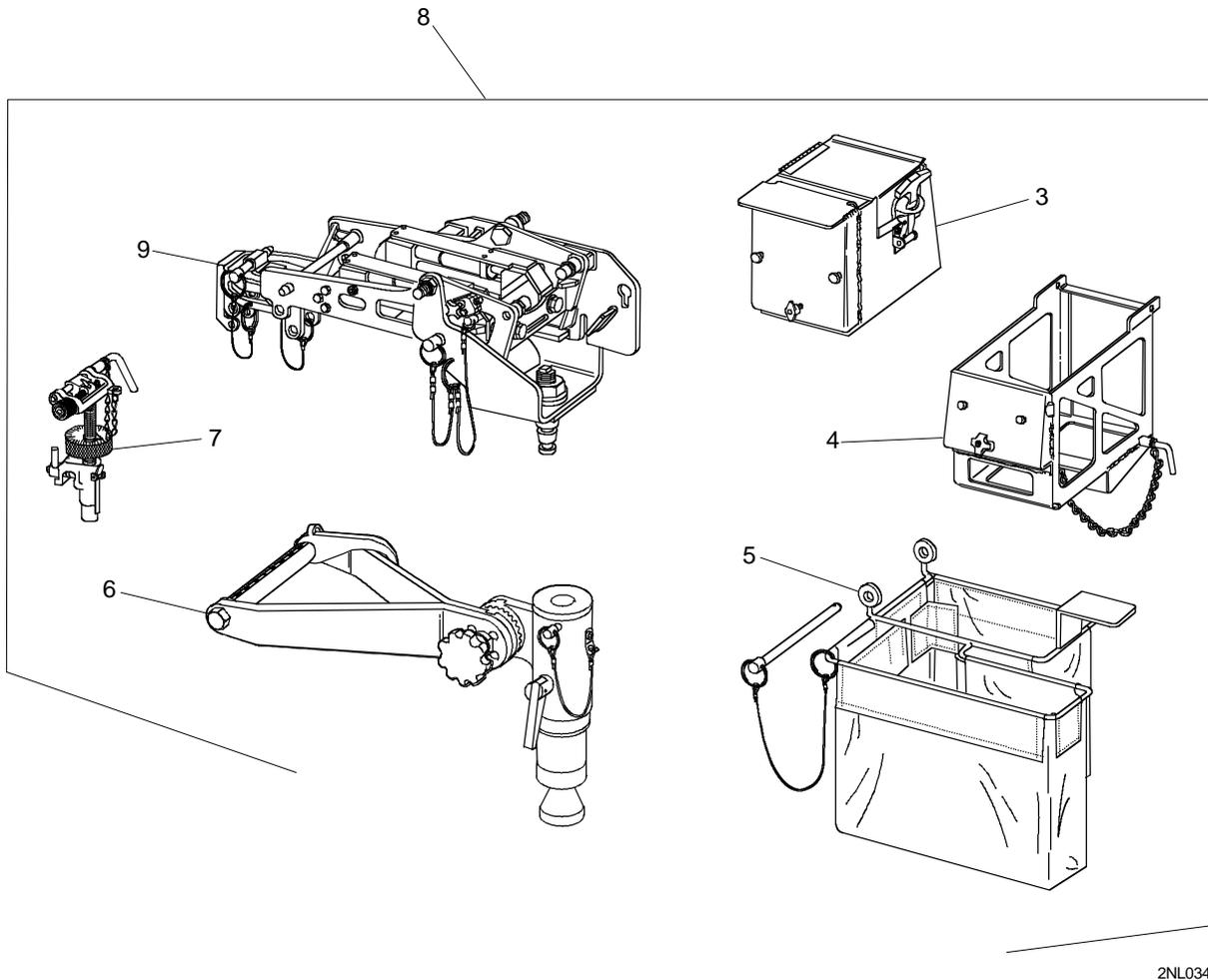


2NL0344

**Mount, Machine Gun, MK93 MOD 1**

**Figure 1. Mount, Machine Gun, MK93 MOD 1, P/N 6650717 and  
Mount, Machine Gun, MK93 MOD 2, P/N 13001175 (Assembled View) (Sheet 1 of 2)**

**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
MOUNT, MACHINE GUN, MK93 MOD 1, NSN 1005-01-383-2757, P/N 6650717; AND  
MOUNT, MACHINE GUN, MK93 MOD 2, NSN 1005-01-502-7547, P/N 13001175 (ASSEMBLED VIEW)  
(cont)**



2NL0345

**Mount, Machine Gun, MK93 MOD 2**

**Figure 1. Mount, Machine Gun, MK93 MOD 1, P/N 6650717 and  
Mount, Machine Gun, MK93 MOD 2, P/N 13001175 (Sheet 2 of 2)**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
					GROUP 00, 01	
					FIGURE 1. ; MOUNT, MACHINE GUN, MK93 MOD 1, P/N 6650717; MOUNT, MACHINE GUN, MK93 MOD 2, P/N 13001175 (ASSEMBLED VIEW)	
1	PAOFF	1005-01-383-2757	53711	6650717	MOUNT, MACHINE GUN, MK93 MOD 1 UOC: AY8 .....	1
2	PBOFF	1005-01-383-2949	53711	6650450	. CARRIAGE AND CRADLE ASSEMBLY SEE FIG.2 FOR BRKDWN UOC: AY8 .....	1
3	PAOOO	8140-01-387-3095	53711	6650724	. HOLDER ASSEMBLY, AMMO SEE FIG.5 FOR BRKDWN UOC: AY8, BL4.....	1
4	PAOOO	5340-01-340-8471	19200	12929150	. BRACKET ASSEMBLY, MULTIPURPOSE AMMUNITION CAN SEE WP 0180 00 FOR BRKDWN UOC: AK3, AY8, BB9, BL4 .....	1
5	AOOOO	1005-01-388-5679	53711	6650723	. CATCH BAG ASSEMBLY SEE FIG.6 FOR BRKDWN UOC: AK3, AY8, BB9, BL4 .....	1
6	PAOFF	1010-01-445-6143	19200	12012061	. ADAPTER, UNIVERSAL PINTLE SEE WP 0174 00 FOR BRKDWN UOC: AK3, AY8, BB9, BL4 .....	1
7	PAOFF	1010-01-151-6227	53711	5830128	. ELEVATION MECHANISM SEE WP 0145 00 AND 0146 00 FOR BRKDWN UOC: AK3, AN0, AY8, BB9, BL4 .....	1
8	PAOFF	1005-01-502-7547	19200	13001175	MOUNT, MACHINE GUN, MK93 MOD 2 UOC: BL4 .....	1
9	AFOFF	1005-01-508-1574	19200	13001176	. MOUNT, DUAL MG MK93 SEE FIG. 2 FOR BRKDWN UOC: BL4 .....	1

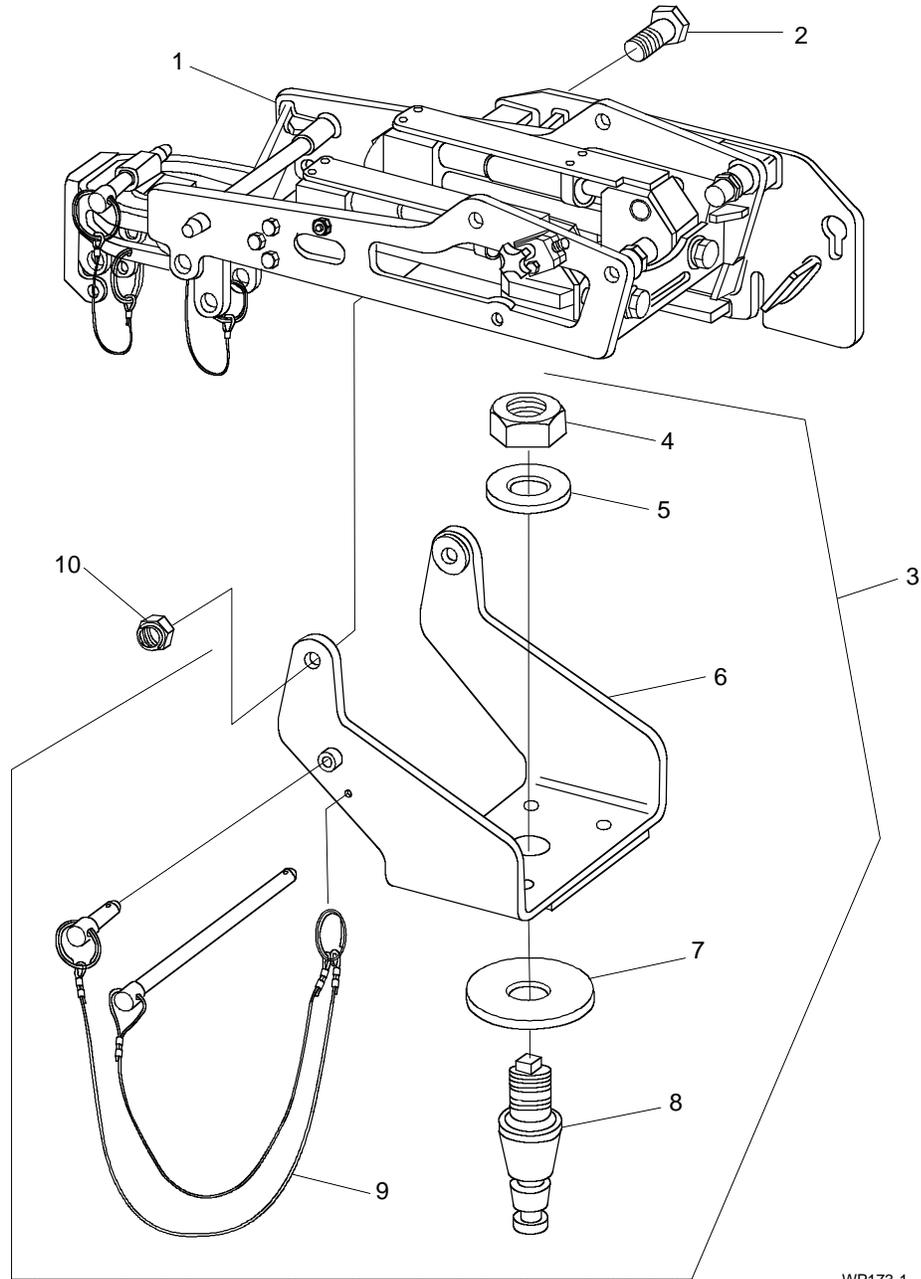
END OF FIGURE

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**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
CARRIAGE AND CRADLE ASSEMBLY, NSN 1005-01-383-2949, P/N 6650450; AND  
MK93 DUAL MACHINE GUN MOUNT, NSN 1005-01-508-1176, P/N 13001176**

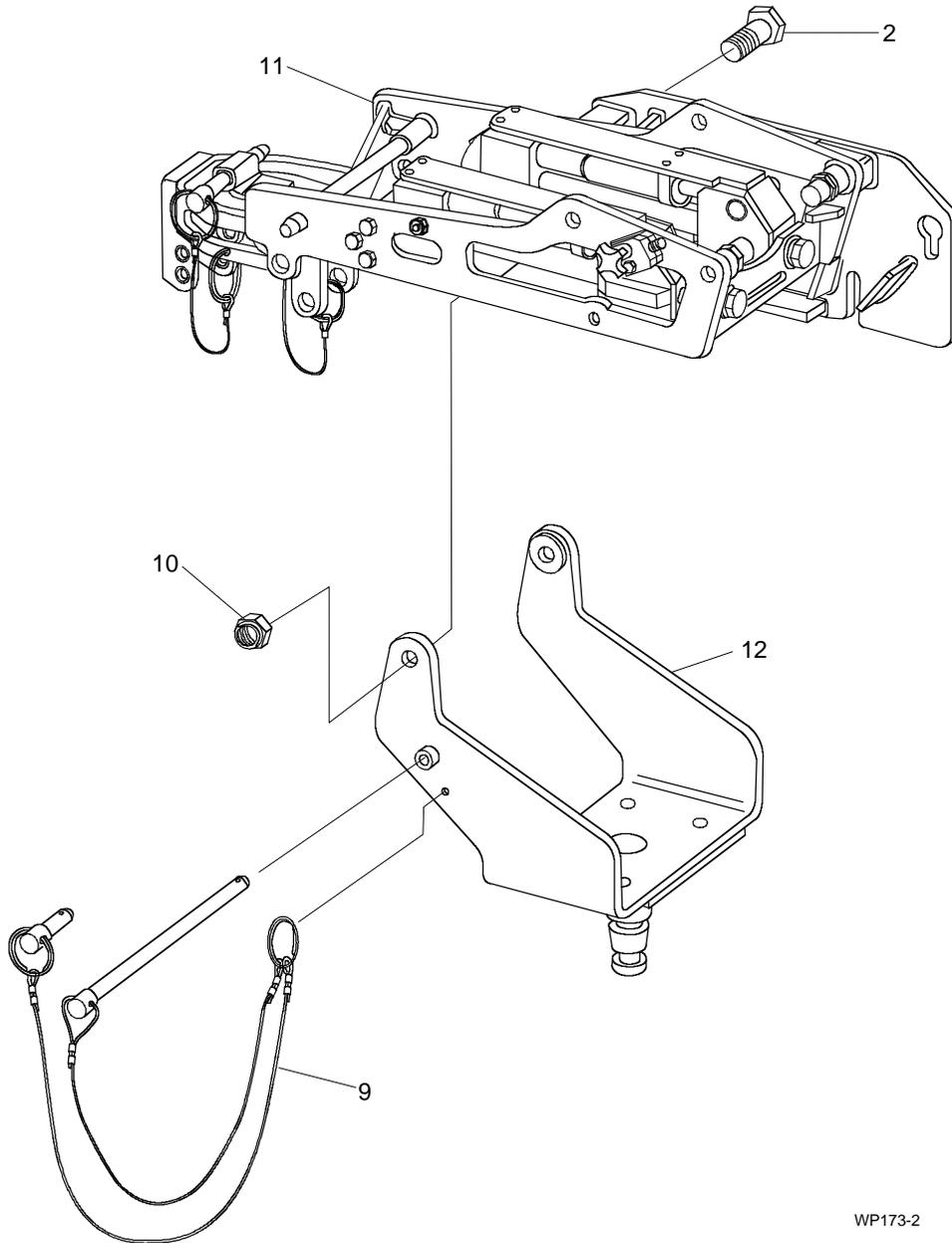
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**CARRIAGE AND CRADLE ASSEMBLY**

**Figure 3. Carriage and Cradle Assembly, P/N 6650450; and  
MK93 Dual Machine Gun Mount, P/N 13001176 (1 of 2)**

**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
CARRIAGE AND CRADLE ASSEMBLY, NSN 1005-01-383-2949, P/N 6650450; AND  
MK93 DUAL MACHINE GUN MOUNT, NSN 1005-01-508-1176, P/N 13001176 (cont)**



WP173-2

**MK93 DUAL MACHINE GUN MOUNT**

**Figure 3. MK93 MOD 0 Machine Gun Mount, P/N 6650450; and  
MK93 Dual Machine Gun Mount, P/N 13001176 (2 of 2)**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
					GROUP 0101, 0102	
					FIGURE 3. CARRIAGE AND CRADLE ASSEMBLY, P/N 6650450; AND MK93 DUAL MACHINE GUN MOUNT, P/N 13001176	
1	PAFFF	1005-01-496-1039	53711	6650434	CARRIAGE AND CRADLE ASSEMBLY SEE FIG. 4 FOR BRKDOWN UOC: AY8 .....	1
2	PAFZZ	5306-01-150-1922	53711	5830054	BOLT, MACHINE UOC: AY8, BL4 .....	2
3	AFFFF		53711	6650725	CARRIAGE ASSEMBLY UOC: AY8 .....	1
4	PAFZZ	5310-00-160-9869	80204	MS21083C16	. NUT, SELF-LOCKING UOC: AY8 .....	1
5	PAFZZ	5310-00-261-7423	96906	MS35333-83	. WASHER, LOCK UOC: AY8 .....	1
6	PBFZZ	1005-01-388-5696	53711	6650446	. YOKE, CARRIAGE UOC: AY8 .....	1
7	PAFZZ	5310-01-388-4108	53711	6650407	. WASHER, FLAT UOC: AY8 .....	1
8	PAFZZ	1005-01-386-2011	53711	6650406	. PINTLE, SMALL UOC: AY8 .....	1
9	PAOZZ	5315-01-386-0206	53711	6650695	. PIN, QUICK RELEASE UOC: AY8, BL4 .....	1
10	PAFZZ	5310-01-429-4371	81349	MS21083C10	NUT, SELF-LOCKING UOC: AY8, BL4 .....	2
11	PAFZZ	1005-01-504-9808	53711	13001177	CRADLE ASSEMBLY, DUAL MOUNT UOC: BL4.....	1
12	PAFFF	1005-01-505-1037	19200	12999574	CARRIAGE UOC: BL4.....	1

END OF FIGURE

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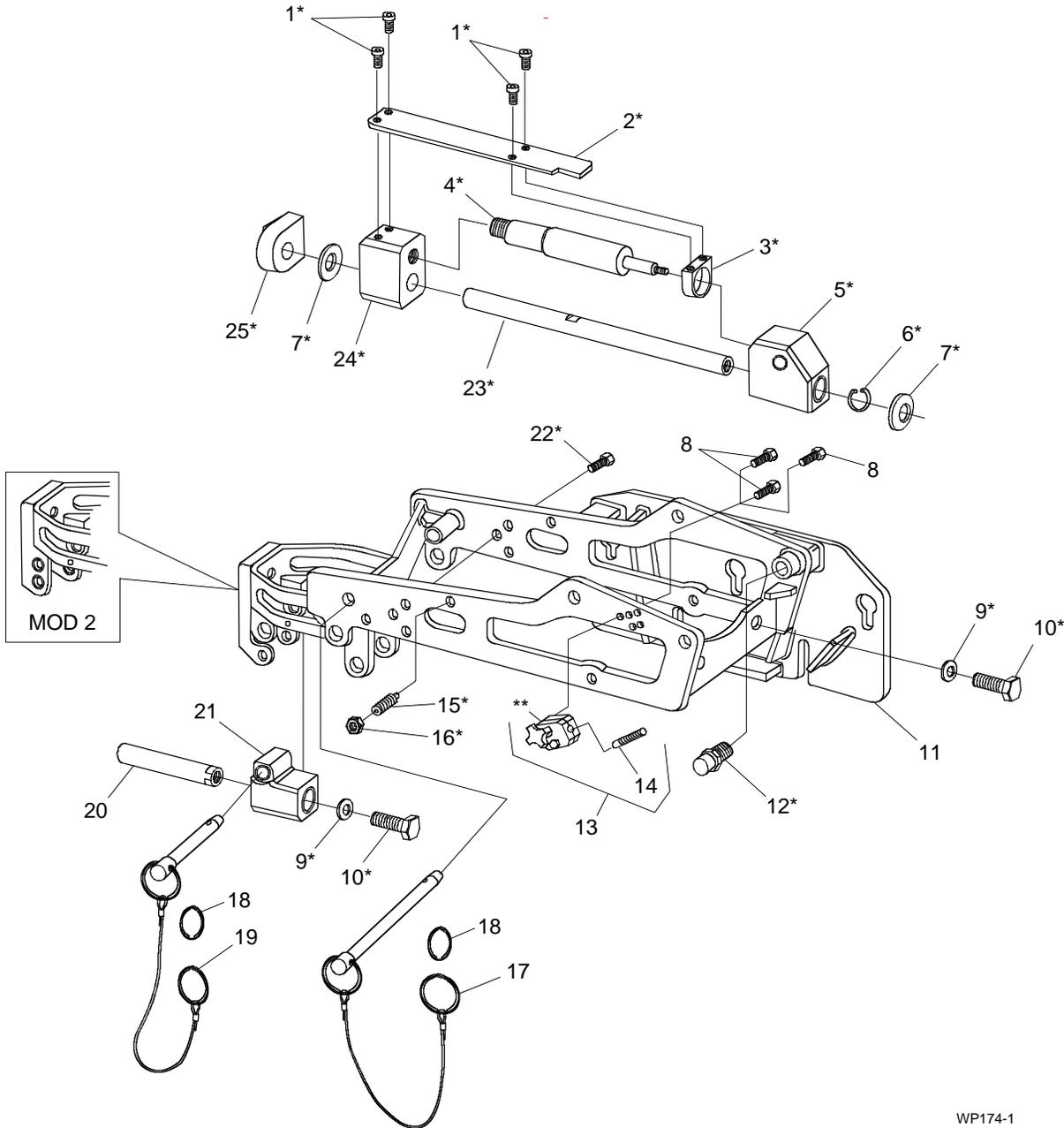


**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
CARRIAGE AND CRADLE ASSEMBLY, NSN 1005-01-496-1039, P/N 6650434;  
DUAL MOUNT CRADLE ASSEMBLY, NSN 1005-01-508-1574, P/N 13001177, AND  
STOP ASSEMBLY, DEPRESSION, NSN 1010-01-451-7557, P/N 6650651**

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**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
CARRIAGE AND CRADLE ASSEMBLY, NSN 1005-01-496-1039, P/N 6650434;  
DUAL MOUNT CRADLE ASSEMBLY, NSN 1005-01-508-1574, P/N 13001177, AND  
STOP ASSEMBLY, DEPRESSION, NSN 1010-01-451-7557, P/N 6650651 (cont)**



WP174-1

\*Only one side shown for clarity.  
\*\*Further disassembly not authorized.

**Figure 4. Carriage and Cradle Assembly, P/N 6650434;  
Dual Mount Carriage Assembly, P/N 13001177 and  
Stop Assembly, Depression, P/N 6650651**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
					GROUP 0101, 010101	
					FIGURE 4. CARRIAGE AND CRADLE ASSEMBLY, P/N 6650434; DUAL MOUNT CARRIAGE ASSEMBLY, P/N 13001177 AND STOP ASSEMBLY, DEPRESSION, P/N 6650651	
1	PBFZZ	5305-00-172-4180	96906	MS51957-61B	SCREW, MACHINE UOC: AY7, AY8, BL4 .....	8
2	PBFZZ	1005-01-386-4688	53711	6650443	DEFLECTOR, LINK UOC: AY7, AY8, BL4 .....	2
3	PBFZZ	5340-01-388-4109	53711	6650442	DEFLECTOR, MOUNTING BRACKET UOC: AY7, AY8, BL4 .....	2
4	PBFZZ	2510-01-387-0586	53711	6650448	SHOCK, ABSORBER UOC: AY7, AY8, BL4 .....	2
5	PBFZZ	1005-01-388-5697	53711	6650437	SLIDE ASSEMBLY, RH FRONT UOC: AY7, AY8, BL4 .....	1
5	PBFFF	1005-01-388-7006	53711	6650436	SLIDE ASSEMBLY, LH FRONT UOC: AY7, AY8, BL4 .....	1
6	PBFZZ	5325-00-804-2275	96906	MS16625- 4125	. RING, INTERNAL RETAINING UOC: AY7, AY8, BL4 .....	2
7	PBFZZ	5310-01-142-8417	19200	9363644	WASHER, SPRING UOC: AY7, AY8, BL4 .....	4
8	PAFZZ	5305-00-719-3997	80205	MS35307-303	SCREW, CAP, HEXAGON UOC: AY7, AY8, BL4 .....	3
9	PAFZZ	5310-00-151-5572	80205	NAS1149C086 3B	WASHER, FLAT UOC: AY7, AY8, BL4 .....	3
10	PAFZZ	5305-00-646-7389	80204	MS35307-409	SCREW, HEX HEAD, CAP, UOC: AY7, AY8, BL4 .....	3
11	XAFZZ		53711	6650445	CRADLE, MACHINE GUN UOC: AY7, AY8, BL4 .....	1
12	PAOZZ	5315-01-387-4379	53711	6650673	PIN, SHOULDER, HEADLESS UOC: AY7, AY8, BL4 .....	2
13	PBOOO	1010-01-451-7557	53711	6650651	STOP ASSEMBLY, DEPRESSION UOC: AY7, AY8, BL4 .....	1
14	PBOZZ	5307-01-386-2015	53711	6650654	..STUD, CONTINUOUS UOC: AY7, AY8, BL4 .....	
15	PAFZZ	5305-01-386-0209	53711	6650696	SETSCREW UOC: AY7, AY8.....	2
16	PAFZZ	5310-01-386-0202	53711	6650697	NUT, PLAIN, HEXAGON UOC: AY7, AY8, BL4 .....	2
17	PAOZZ	5315-01-385-9216	53711	6650433-2	PIN ASSEMBLY, QUICK RELEASE UOC: AY7, AY8, BL4 .....	1
18	PAOZZ	5325-01-306-4235	19200	12956283-2	RETAINING RING UOC: AY7, AY8, BL4 .....	2
19	PAOZZ	5315-01-385-9214	53711	6650433-1	PIN ASSEMBLY, QUICK RELEASE UOC: AY7, AY8, BL4 .....	1
20	PAFZZ	3040-01-386-0204	53711	6650439-1	SHAFT, STRAIGHT UOC: AY7, AY8, BL4 .....	1

**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
DUAL MOUNT CARRIAGE ASSEMBLY, NSN 1005-01-496-1039, P/N 6650434, AND  
STOP ASSEMBLY, DEPRESSION, NSN 1010-01-451-7557, P/N 6650651 (cont)**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
					GROUP 0101, 010101	
					FIGURE 4. CARRIAGE AND CRADLE ASSEMBLY, P/N 6650434; DUAL MOUNT CARRIAGE ASSEMBLY, P/N 13001177 AND STOP ASSEMBLY, DEPRESSION, P/N 6650651 (cont)	
21	PBFZZ	1005-01-388-6911	53711	6650438	SLIDER ASSEMBLY, REAR UOC: AY7, AY8, BL4.....	1
22	PAFZZ	5306-00-637-9675	80204	MS35307-332	SCREW, HEX HEAD CAP UOC: AY7, AY8, BL4.....	6
23	PBFZZ	3040-01-386-5925	53711	6650439-2	SHAFT, STRAIGHT UOC: AY7, AY8, BL4.....	2
24	PBFZZ	5340-01-386-8380	53711	6650444	SHOCK MOUNT, REAR UOC: AY7, AY8, BL4.....	2
25	PBFZZ	5340-01-387-1944	53711	6650441	SHOCK MOUNT, REAR UOC: AY7, AY8, BL4.....	2

**END OF FIGURE**

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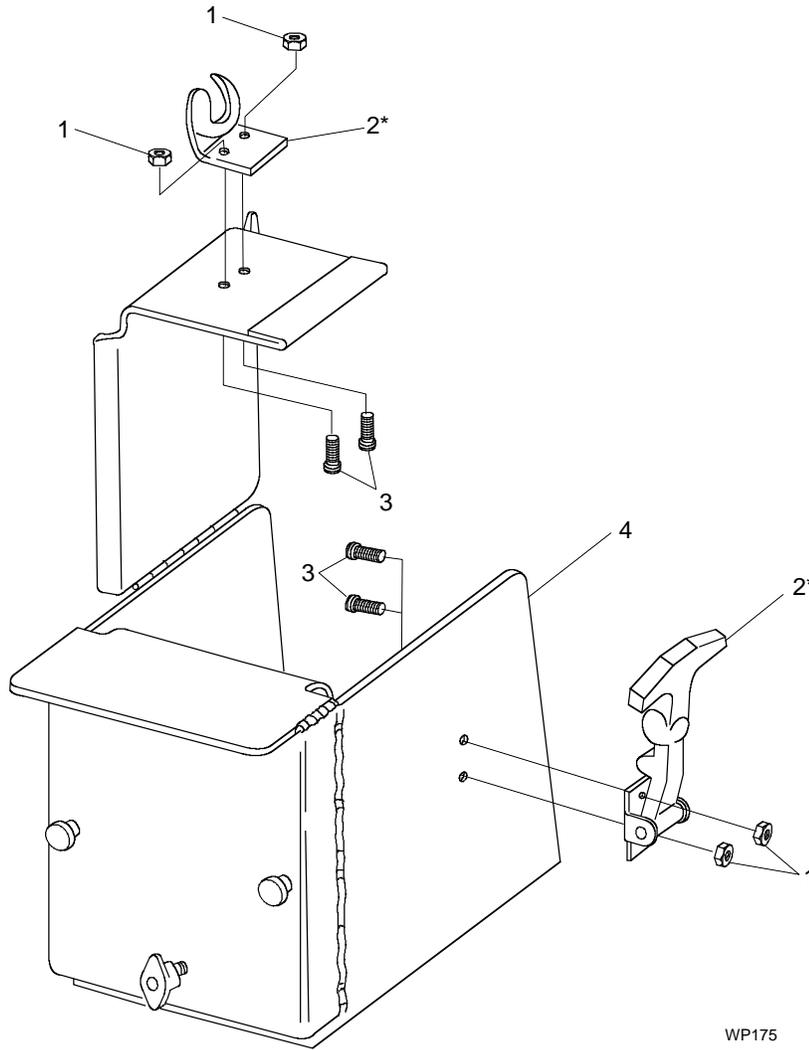
**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
HOLDER ASSEMBLY, AMMO, .50 CALIBER, NSN 1398-01-387-3095, P/N 6650724**

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**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
HOLDER ASSEMBLY, AMMO, .50 CALIBER, NSN 1398-01-387-3095, P/N 6650724 (cont)**

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\*Issued as a set.

**Figure 5. Holder Assembly, Ammo, .50 Caliber, P/N 6650724**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
					GROUP 02	
					FIGURE 5. HOLDER ASSEMBLY, AMMO, .50 CALIBER, P/N 6650724	
1	PAOZZ	5310-00-208-9255	80205	MS21044C3	NUT, SELF-LOCKING UOC: AY8, BL4 .....	4
2	PAOZZ	5340-01-282-3650	19200	12972501	CATCH, CLAMPING UOC: AY8, BL4 .....	1
3	PAOZZ	5305-00-433-3740	80205	MS51958-64B	SCREW, MACHINE UOC: AY8, BL4 .....	4
4	XAOZZ		53711	6650435	HOLDER, AMMO CAN UOC: AY8, BL4 .....	1
5	PAOZZ	5305-01-150-1924	19200	5830084	THUMBSCREW UOC: AY8, BL4 .....	1

END OF FIGURE

END OF WORK PACKAGE



**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
CATCH BAG ASSEMBLY, NSN 1005-01-388-5679, P/N 6650723**

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**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
CATCH BAG ASSEMBLY, NSN 1005-01-388-5679, P/N 6650723 (cont)**

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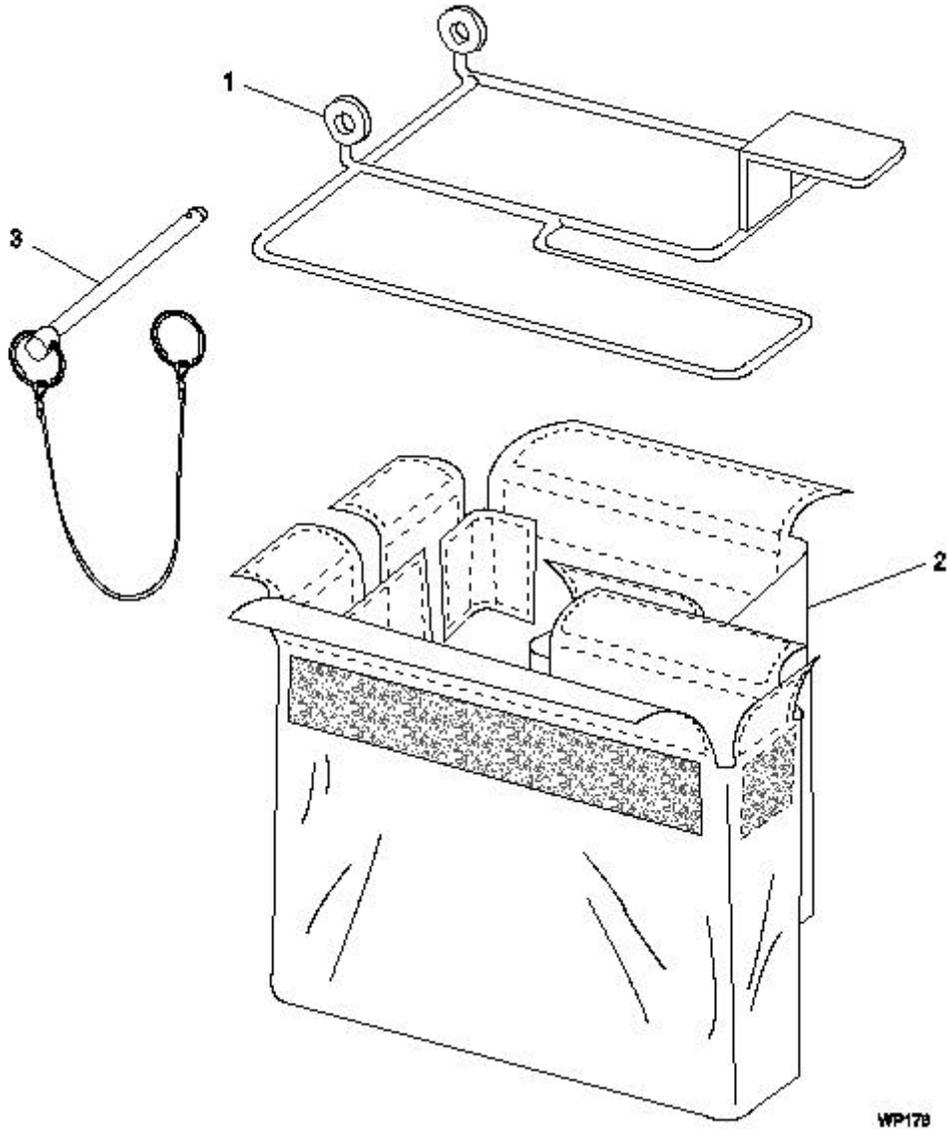


Figure 6. Catch Bag Assembly, P/N 6650723

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
					GROUP 04	
					FIGURE 6. CATCH BAG ASSEMBLY, P/N 6650723	
1	PAOZZ	1005-01-513-9741	53711	6650671	FRAME, CATCH BAG UOC: AY8 .....	1
2	PAOZZ	1001-00-388-5702	53711	6650722-1	BAG, CATCH, OLIVE UOC: AY8 .....	1
2	PAOZZ	1005-01-388-5685	53711	6650722-2	BAG, CATCH, SAND UOC: AY8 .....	1
3	PAOZZ	5315-01-385-9216	53711	6650433-2	PIN, QUICK RELEASE UOC: AY8 .....	1
<b>END OF FIGURE</b>						

END OF WORK PACKAGE



**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
BULK MATERIAL**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
					GROUP 9999 BULK MATERIAL	
					FIG. BULK	
1	PAFZZ		96906	MS20995C32	WIRE, NONELECTRICAL UOC: AM7, AM9.....	V

**END OF FIGURE**



**CROSS REFERENCE INDEX - PART NUMBER****Table 1. Cross Reference List – Part Number**

<u>PART NUMBER</u>	<u>WORK PACKAGE</u>	<u>ITEM</u>	<u>NATIONAL STOCK NUMBER</u>
AN174-21A	0141 00	3	5306-00-182-1801
B1821BH025F050N	0161 00	16	5305-00-267-8952
B1821BH038C125N	0151 00	27	5305-00-068-0511
B1821BH038F300N	0155 00	4	5305-00-269-3246
MS16555-42	0141 00	10	5315-00-902-0419
MS16562-120	0127 00	18	5315-00-051-8636
	0145 00	14	
MS16562-223	0162 00	17	5315-00-826-3251
MS16624-1043	0124 00	7	5325-00-803-7315
	0158 00	3	
MS16625-4125	0171 00	6	5325-00-804-2275
MS16996-21	0130 00	4	5305-00-052-9329
	0131 00	6	
	0157 00	4	
	0159 00	3	
MS17985C875	0161 00	1	5315-01-292-9631
MS17986C325	0157 00	2	5315-01-292-6411
MS17986C725	0155 00	7	5315-01-368-7364
MS17986-C825	0149 00	5	5315-01-008-2981
MS20002-6	0155 00	2	5310-00-149-9130
MS20002-7	0163 00	5	5310-00-206-8491
MS20392-2C81	0152 00	7	5315-00-782-1821
	0166 00	5	
MS20392-3C41	0151 00	14	5315-00-811-9105
MS20392-4C91	0152 00	4	5315-01-056-7320
	0166 00	11	
MS20392-5C99	0152 00	11	5315-00-930-0101
	0166 00	15	
MS20995C32	0148 00	4	
	0173 00	1	
MS21044C3	0172 00	1	5310-00-208-9255
MS21044N6	0155 00	1	5310-00-950-0039
MS21083C10	0170 00	10	5310-01-429-4371
MS21083C16	0170 00	4	5310-00-160-9869
MS24665-132	0151 00	17	5315-00-839-2325
MS24665-132	0152 00	6	5315-00-839-2325
MS24665-283	0152 00	3	5315-00-842-3044
	0166 00	12	
MS24665-291	0148 00	13	5315-00-019-0777
MS24665-304	0163 00	3	5315-00-241-7330
MS24665-437	0161 00	9	5315-00-849-5579
MS24665-814	0166 00	4	5315-00-013-7137

**CROSS REFERENCE INDEX - PART NUMBER (cont)**

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**Table 1. Cross Reference List – Part Number (cont)**

<u>PART NUMBER</u>	<u>WORK</u>		<u>NATIONAL</u>
	<u>PACKAGE</u>	<u>ITEM</u>	<u>STOCK NUMBER</u>
MS24665-834	0140 00	5	5315-00-903-3971
	0163 00	2	
MS27183-10	0131 00	7	5310-00-809-4058
	0151 00	15	
MS27183-18	0148 00	14	5310-00-809-5998
MS35206-315	0148 00	10	5305-00-984-5695
MS35307-303	0171 00	8	5305-00-719-3997
MS35307-332	0171 00	22	5306-00-637-9675
MS35307-409	0171 00	10	5305-00-646-7389
MS35333-40	0125 00	11	5310-00-916-2171
MS35333-42	0151 00	11	5310-00-595-7237
MS35333-46	0151 00	3	5310-00-543-4385
MS35333-83	0170 00	5	5310-00-261-7423
MS35338-046	0151 00	26	5310-01-389-4257
MS35338-45	0151 00	21	5310-00-407-9566
MS35338-45	0156 00	2	5310-00-407-9566
MS35338-63	0168 00	8	5310-00-274-8715
MS35338-65	0168 00	3	5310-00-011-5093
MS35691-17	0148 00	11	5310-00-851-2682
MS35691-826	0141 00	16	5310-00-543-5858
MS35692-27	0163 00	4	5310-00-350-9707
MS35692-37	0148 00	12	5310-00-842-1490
MS35692-55	0161 00	10	5310-01-162-5722
MS35756-2	0127 00	11	5315-00-616-5517
MS39086-54	0142 00	5	5315-00-812-0762
	0143 00	9	
MS39086-95	0141 00	14	5315-00-812-1008
MS51031-48	0125 00	13	5305-00-054-6869
	0141 00	8	
MS51095-364	0148 00	6	5305-00-939-1179
MS51096-355	0148 00	3	5305-00-904-4053
MS51109-96	0163 00	8	5305-01-163-5779
MS51943-2	0127 00	1	5310-01-374-0508
MS51943-4	0127 00	10	5310-00-935-3750
	0145 00	1	
MS51957-61B	0171 00	1	5305-00-172-4180
MS51958-64B	0172 00	2	5305-00-433-3740
MS51958-79B	0162 00	13	5305-01-075-6083
MS51967-2	0168 00	9	5310-00-761-6882
MS51967-5	0161 00	14	5310-00-880-7744
MS51967-8	0168 00	4	5310-00-732-0558
MS51968-12	0141 00	22	5310-00-926-5916
MS51968-2	0125 00	15	5310-00-768-0319
MS51968-5	0151 00	22	5310-00-880-7746

<u>PART NUMBER</u>	<u>WORK PACKAGE</u>	<u>ITEM</u>	<u>NATIONAL STOCK NUMBER</u>
MS51968-8	0125 00	7	5310-00-732-0559
MS90725-34	0156 00	3	5306-00-225-8499
MS90725-39	0161 00	15	5306-00-225-8503
MS90725-6	0168 00	7	5305-00-068-0502
MS90725-63	0168 00	1	5305-00-269-4511
MS90726-57	0151 00	12	5305-00-269-3233
MS93090-201	0161 00	21	5315-00-059-5234
NAS1149C0863B	0171 00	9	5310-00-151-5572
10900712	0148 00	2	1005-00-121-0778
10900945	0147 00	1	1005-00-854-4463
10900946	0148 00	16	1005-00-121-0779
10900947	0148 00	15	
10900948	0148 00	1	1005-00-779-2479
10900949	0148 00	7	
10900962	0148 00	5	5306-00-854-4464
10900963	0148 00	9	5315-00-854-4465
11010037	0127 00	3	
11010206	0145 00	11	5310-00-916-2167
11010242	0128 00	1	1005-00-919-7273
11010407	0145 00	7	5315-00-916-2173
11010408	0124 00	4	1005-00-945-9756
11010409	0129 00	1	5340-00-945-9768
11010410	0129 00	2	5360-00-945-9954
11010411	0129 00	4	5315-00-947-7250
11010412	0129 00	3	
11010413	0127 00	13	5310-00-949-1971
	0145 00	19	
11010421	0142 00	6	5310-00-916-2170
	0143 00	8	
11010424	0143 00	10	
11010426	0142 00	1	1005-00-940-8077
11010448	0126 00	1	5320-00-915-8185
	0144 00	1	
11010522	0128 00	11	5315-00-915-8174
	0146 00	11	
11010523	0128 00	10	5360-00-915-5616
11010523	0146 00	10	5360-00-915-5616
11010526	0141 00	15	5310-00-947-8635
11010529	0141 00	20	5310-00-916-2171
11010530	0142 00	2	5310-00-916-2172
	0143 00	5	
11010547	0127 00	6	5360-00-915-5615
	0145 00	5	5360-00-915-5615
12012061	0160 00	3	1010-01-445-6143
	0169 00	6	

**CROSS REFERENCE INDEX - PART NUMBER (cont)**

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**Table 1. Cross Reference List – Part Number (cont)**

<u>PART NUMBER</u>	<u>WORK PACKAGE</u>	<u>ITEM</u>	<u>NATIONAL STOCK NUMBER</u>
12012062	0162 00	9	
12012063	0162 00	11	
12012064	0162 00	14	5315-01-447-2233
12012065	0162 00	16	1010-01-447-2983
12012067	0162 00	15	5315-01-447-2276
12012071	0162 00	12	5325-01-447-2281
12012088	0162 00	3	1010-01-458-1563
12012089	0162 00	1	1090-01-468-6535
12598080	0149 00	2	
12598081	0149 00	1	1005-01-451-7558
12929150	0160 00	10	5340-01-340-8471
	0169 00	4	
12929159	0167 00	2	
12929251	0167 00	1	5315-01-342-0671
12938267	0145 00	12	5315-01-443-7576
12953608	0167 00	3	5355-01-387-4540
12956264	0153 00	1	1005-01-413-4098
12956265-2	0154 00	4	1005-01-480-9118
12956266	0155 00	3	
12956267	0158 00	7	5315-01-434-3288
12956268	0158 00	2	5365-01-434-0883
12956269	0149 00	4	4010-01-447-5812
	0155 00	6	
12956283-1	0149 00	3	5325-01-452-8694
12956283-2	0155 00	5	5365-01-306-4235
	0171 00	18	
12972501	0172 00	3	5340-01-282-3650
12976909	0159 00	5	1005-01-431-8324
12976948	0123 00	1	1005-01-433-1617
12986102	0124 00	3	1005-01-461-2656
	0154 00	1	
12986103	0130 00	2	
12986104	0130 00	1	5315-01-461-2651
12986105	0159 00	4	1005-01-461-5040
12986106	0159 00	1	1005-01-468-0552
12990569	0131 00	8	1005-01-470-5701
12990570	0124 00	5	
12999574	0170 00	12	1005-01-505-1037
13001175	0169 00	8	1005-01-502-7547
13001176	0169 00	9	1005-01-508-1574
13001177	0170 00	11	1005-01-504-9808
13001669	0132 00	1	1005-01-503-0141
13001670	0133 00	1	
13001671	0134 00	1	

<u>PART NUMBER</u>	<u>WORK PACKAGE</u>	<u>ITEM</u>	<u>NATIONAL STOCK NUMBER</u>
13001672	0135 00	2	
13001678	0135 00	1	1005-01-516-9184
13001682	0135 00	4	5307-01-516-3964
13001683	0135 00	5	3120-01-516-3962
13001684	0134 00	2	5306-01-521-4554
13001685	0135 00	10	1005-01-516-9186
13001686	0135 00	9	1005-01-517-1750
13001687	0135 00	3	5360-01-521-6073
13001688	0135 00	11	5360-01-516-2309
13001689	0135 00	6	5306-01-521-4557
13001690	0135 00	8	5305-01-521-4552
13001692	0136 00	2	5360-01-521-6080
13001693	0136 00	5	5305-01-521-7893
13001694	0134 00	4	1005-01-516-6461
13001695	0136 00	6	
13001702	0136 00	3	1005-01-516-1431
13001703	0136 00	4	1005-01-515-8271
13001704	0134 00	5	5310-01-523-4870
13001705	0134 00	3	5310-01-523-2318
13001708	0134 00	6	1005-01-516-9185
13001709	0136 00	1	
13001711	0138 00	11	5325-01-521-6085
13001713	0138 00	7	5305-01-521-7881
13001714	0138 00	13	5306-01-521-6082
13001715	0138 00	14	5315-01-516-1435
13001716	0138 00	8	5315-01-516-2310
13001717	0133 00	2	1005-01-515-8270
13001718	0138 00	15	
13001719	0138 00	9	
13001720	0138 00	2	5340-01-516-6463
13001721	0138 00	5	5340-01-516-1443
13001722	0138 00	1	
13001726	0138 00	6	1005-01-515-8259
13001730	0138 00	12	1005-01-517-0205
13001733	0138 00	3	5310-01-516-7541
13001734	0138 00	10	1005-01-521-6078
13001735	0138 00	16	1005-01-521-7882
13001736	0137 00	5	5340-01-521-4560
13001737	0138 00	4	5310-01-521-6083
13001738	0135 00	13	1005-01-517-1749
13001739	0137 00	28	1005-01-516-1442
13001740	0137 00	29	
13001741	0137 00	31	1005-01-516-9183
13001742	0137 00	36	1005-01-516-1445
13001743	0137 00	37	
13001744	0137 00	38	1005-01-516-1434

**CROSS REFERENCE INDEX - PART NUMBER (cont)**

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**Table 1. Cross Reference List – Part Number (cont)**

<u>PART NUMBER</u>	<u>WORK PACKAGE</u>	<u>ITEM</u>	<u>NATIONAL STOCK NUMBER</u>
13001746	0137 00	4	1005-01-516-3963
13001747	0137 00	19	1005-01-516-1436
13001748	0137 00	7	1005-01-521-4558
13001750	0137 00	10	
13001751	0137 00	33	5305-01-521-4559
13001753	0137 00	3	1005-01-521-4561
13001754	0137 00	9	
13001755	0137 00	30	5305-01-521-6086
13001756	0137 00	2	1005-01-517-0203
13001757	0137 00	11	5306-01-521-6077
13001758	0137 00	15	5305-01-521-6074
13001759	0137 00	8	5305-01-521-6076
13001760	0137 00	1	5305-01-521-6075
13001761	0137 00	6	1005-01-517-6143
13001762	0137 00	16	1005-01-515-8263
13001763	0137 00	34	3040-01-516-1439
13001768	0137 00	20	3040-01-515-7135
13001770	0137 00	35	5360-01-521-6081
13001773	0137 00	21	5360-01-521-6084
13001774	0137 00	22	1005-01-516-9182
13001775	0137 00	26	1005-01-515-8261
13001776	0137 00	25	1005-01-515-8267
13001777	0137 00	23	5310-01-515-7136
13001778	0137 00	24	5340-01-516-1446
13001779	0137 00	12	5306-01-521-6079
13001780	0137 00	18	5340-01-516-1438
13001781	0137 00	13	5340-01-516-1447
13001782	0137 00	14	5310-01-523-2322
13001783	0137 00	32	5310-00-523-2321
13001784	0137 00	39	TBD
13001786	0137 00	17	5340-01-515-7134
13001789	0135 00	12	5310-01-521-6089
13001790	0135 00	7	5305-01-521-4553
13001791	0137 00	27	5360-01-521-7880
13008479	0158 00	1	1005-01-519-2128
2680617	0164 00	4	5315-01-149-5531
2814006	0164 00	2	5360-01-150-1923
2814007	0164 00	3	1010-01-156-7372
2843009	0130 00	3	4010-01-151-6230
	0157 00	3	
5139959	0125 00	19	5342-00-513-9959
5139962	0125 00	16	5365-00-513-9962
5139964	0140 00	4	5310-00-513-9964
	0163 00	1	

<u>PART NUMBER</u>	<u>WORK PACKAGE</u>	<u>ITEM</u>	<u>NATIONAL STOCK NUMBER</u>
5139973	0140 00	2	5306-00-513-9973
	0163 00	9	
5139982	0128 00	3	5355-00-513-9982
	0146 00	3	
5139988	0127 00	16	5305-00-513-9988
5139989	0127 00	12	5305-00-513-9989
	0145 00	20	
5139994	0128 00	6	1005-00-513-9994
5139995	0128 00	9	5340-00-513-9995
	0146 00	9	
5139997	0125 00	20	5360-00-513-9997
5140004	0125 00	18	5315-00-514-0004
5140137	0146 00	6	1105-00-514-0137
5140204	0142 00	12	3040-00-514-0204
	0143 00	3	
5140209	0142 00	11	5360-00-514-0209
	0143 00	2	
	0144 00	5	
5140210	0142 00	13	5315-00-514-0210
	0143 00	4	
5140211	0142 00	4	5340-00-514-0211
	0143 00	7	
5140213	0142 00	3	5305-00-514-0213
	0143 00	6	
5140215	0142 00	7	5360-00-514-0215
5140216	0142 00	8	5340-00-514-0216
5140217	0142 00	9	5315-00-514-0217
5140219	0141 00	24	5365-00-514-0219
5140225	0144 00	6	5305-00-514-0237
	0141 00	18	
5140237	0162 00	6	5305-00-514-0237
	0141 00	18	
5140383	0145 00	16	5305-00-514-0383
5140485	0128 00	7	5365-00-514-0485
	0146 00	7	
5140612	0128 00	4	5305-00-514-0612
	0146 00	4	
5140669	0146 00	1	9905-00-514-0669
5140765	0146 00	12	5340-01-487-3060
5141080	0126 00	2	1005-00-514-1080
	0144 00	2	
5141081	0126 00	3	1005-00-514-1080
	0144 00	3	
5141121	0126 00	6	1005-00-514-1080
	0161 00	19	
5141950	0125 00	10	5305-00-514-1950
	0141 00	19	

**CROSS REFERENCE INDEX - PART NUMBER**

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**Table 1. Cross Reference List – Part Number**

<u>PART NUMBER</u>	<u>WORK</u>		<u>NATIONAL</u>
	<u>PACKAGE</u>	<u>ITEM</u>	<u>STOCK NUMBER</u>
5142877	0126 00	5	5360-00-514-2877
5169879	0125 00	9	5306-00-516-9879
5169880	0125 00	1	5306-00-516-9880
5169881	0125 00	3	5306-00-516-9881
5169882	0125 00	4	5306-00-516-9882
5170484	0141 00	2	5306-00-297-8753
5170486	0141 00	4	5306-00-517-0486
5171491	0127 00	7	4730-00-517-1491
	0145 00	4	
5171492	0127 00	8	5355-00-517-1492
	0145 00	3	
5171495	0127 00	5	5315-00-517-1495
	0145 00	6	
5174123	0145 00	8	1005-00-517-4123
5174175	0127 00	4	1005-00-588-3490
5174192	0127 00	2	5310-00-517-4192
	0145 00	10	
5189756	0145 00	15	5360-00-518-9756
5189757	0127 00	17	1005-00-518-9757
5194313	0145 00	18	3040-00-519-4313
5236999	0148 00	8	4010-00-523-6999
5328284	0151 00	8	9390-00-532-8284
5384053	0151 00	18	1005-00-538-4053
5384055	0151 00	9	5315-00-538-4055
5384056	0151 00	5	5315-00-538-4056
5384057	0151 00	24	5315-00-538-4057
5384059	0151 00	4	5307-00-538-4059
5384060	0151 00	19	5340-00-538-4060
5384062	0151 00	16	5360-00-526-0143
5384064	0151 00	7	5310-00-538-4064
5412616	0152 00	9	5320-00-541-2816
	0166 00	8	
5412817	0152 00	10	5340-00-541-2817
	0166 00	9	
5412819	0152 00	12	5360-00-541-2819
	0166 00	13	
5412820	0152 00	2	5360-00-541-2820
	0166 00	2	
5559331	0125 00	6	
5559332	0140 00	3	1005-00-555-9332
	0163 00	10	
5559333	0125 00	21	1005-00-555-9333
5559337	0125 00	17	1005-00-555-9337

<u>PART NUMBER</u>	<u>WORK PACKAGE</u>	<u>ITEM</u>	<u>NATIONAL STOCK NUMBER</u>
5559338	0125 00	2	1005-00-555-9338
5559419	0141 00	7	
5559423	0141 00	12	1005-00-555-9423
5559424	0143 00	1	
5559425	0142 00	10	
5559428	0142 00	14	
5652801	0152 00	13	1005-01-565-2811
5830052	0160 00	1	1010-01-160-6115
5830053	0161 00	5	5305-01-151-0080
5830054	0161 00	3	5306-01-150-1922
	0170 00	2	
5830056	0161 00	11	1010-01-151-6240
5830058	0161 00	8	
5830059	0160 00	7	1010-01-151-6277
5830063	0154 00	3	1010-01-151-6239
5830077	0166 00	6	1010-01-151-6243
5830078	0163 00	6	1010-01-151-6218
5830079	0163 00	7	1010-01-151-6219
5830084	0172 00	5	5305-01-150-1924
5830086	0161 00	4	5305-01-149-5537
5830087-2	0145 00	13	4010-01-149-5517
5830087-4	0161 00	12	4010-01-149-5519
5830087-5	0161 00	2	4010-01-149-5520
5830087-5	0167 00	4	4010-01-149-5520
5830093	0160 00	9	8140-01-156-7371
5830097	0160 00	5	1010-01-151-6217
5830101-1	0161 00	13	5315-01-151-6261
5830104	0166 00	10	5340-01-151-6241
5830114	0166 00	1	1010-01-151-6242
5830115	0161 00	7	3120-01-151-6265
5830116	0161 00	17	1010-01-151-6232
5830119	0161 00	20	5360-01-151-6248
5830120	0161 00	23	
5830121	0161 00	22	
5830123	0160 00	11	1010-01-151-6221
5830125	0168 00	11	1010-01-151-6223
5830126	0168 00	2	5340-01-151-6224
5830127	0168 00	10	1010-01-151-3556
5830128	0140 00	1	1010-01-151-6227
	0160 00	4	
	0168 00	5	
	0169 00	7	
5830129	0168 00	12	1010-01-151-6228
5830131	0154 00	2	1010-01-151-6229
	0160 00	2	
5830132	0157 00	1	

**CROSS REFERENCE INDEX - PART NUMBER (cont)**

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**Table 1. Cross Reference List – Part Number (cont)**

<u>PART NUMBER</u>	<u>WORK PACKAGE</u>	<u>ITEM</u>	<u>NATIONAL STOCK NUMBER</u>
5830133	0156 00	1	
5830134	0161 00	6	1010-01-151-6231
5830135	0168 00	6	
5831118	0161 00	18	
5831546	0160 00	6	1010-01-289-2709
5831547	0164 00	1	
5852801	0166 00	14	
6108195	0125 00	8	1005-00-610-8195
6108201	0125 00	5	3120-00-610-8201
6108211	0128 00	5	5355-00-610-8211
	0146 00	5	
6108395	0141 00	9	5306-00-610-8395
6108396	0141 00	17	3110-00-610-8396
6108397	0141 00	6	3120-00-610-8397
6108400	0141 00	11	5305-01-169-4720
6108402	0141 00	21	5340-00-610-8402
6108986	0125 00	12	1005-00-610-8986
6140648	0126 00	4	
6153118	0144 00	4	
6158375	0127 00	9	5355-00-615-8375
	0145 00	2	
6166497	0145 00	9	
6193782	0141 00	13	5310-00-619-3782
6297411	0151 00	6	5360-00-629-7411
6297412	0151 00	2	1005-00-629-7412
6337900	0152 00	5	1005-00-633-7900
6507136	0141 00	23	1005-00-650-7136
6507137	0141 00	1	1005-00-650-7137
6590077	0152 00	8	
	0166 00	7	
6590078	0151 00	10	8140-00-659-0078
6650406	0170 00	8	1005-01-386-2011
6650407	0170 00	7	5310-01-388-4108
6650433-1	0171 00	19	5315-01-385-9214
6650433-2	0171 00	17	5315-01-385-9216
	0173 00	3	
6650434	0170 00	1	1005-01-496-1039
6650435	0172 00	4	
6650436	0171 00	5	1005-01-388-7006
6650437	0171 00	5	1005-01-388-5697
6650438	0171 00	21	1005-01-388-6911

<u>PART NUMBER</u>	<u>WORK PACKAGE</u>	<u>ITEM</u>	<u>NATIONAL STOCK NUMBER</u>
6650439-1	0171 00	20	3040-01-386-0204
6650439-2	0171 00	23	3040-01-386-5925
6650441	0171 00	25	5340-01-387-1944
6650442	0171 00	3	5340-01-388-4109
6650443	0171 00	2	1005-01-386-4688
6650444	0171 00	24	5340-01-386-8380
6650445	0171 00	11	
6650446	0170 00	6	1005-01-388-5696
6650448	0171 00	4	2510-01-387-0586
6650450	0169 00	2	1005-01-383-2949
6650489	0162 00	5	5340-01-388-5595
6650493	0162 00	10	5325-01-386-8327
6650494	0162 00	8	5365-01-386-5924
6650496	0162 00	2	1290-01-386-2008
6650498	0162 00	18	5305-01-386-2768
6650501-1	0162 00	4	5306-01-388-0795
6650561	0162 00	7	3110-01-387-0590
6650651	0171 00	13	1010-01-451-7557
6650654	0171 00	14	5307-01-386-2015
6650671	0173 00	1	1005-01-513-9741
6650673	0171 00	12	5315-01-387-4379
6650695	0170 00	9	5315-01-386-0206
6650696	0171 00	15	5305-01-386-0209
6650697	0171 00	16	5310-01-386-0202
6650717	0169 00	1	1005-01-383-2757
6650722-1	0165 00	3	1005-01-388-5702
	0173 00	2	
6650722-2	0165 00	4	1005-01-388-5685
	0173 00	2	
6650723	0169 00	5	1005-01-388-5679
6650724	0169 00	3	8140-01-387-3095
6650725	0170 00	3	
6650753	0165 00	2	1005-01-516-3961
6650759	0160 00	8	
	0165 00	1	
7042930	0151 00	20	
7042932	0151 00	25	5315-00-704-2932
7046650	0150 00	1	1005-00-704-6650
7046652	0151 00	1	1005-00-704-6652
7046653	0151 00	13	1005-00-704-6653
7070291	0151 00	28	5315-00-707-0291
7070292	0151 00	23	5315-00-707-0292
7114359	0152 00	1	5340-00-711-4359
	0166 00	3	
7149678	0141 00	25	1005-00-714-9678
7790723	0123 00	1	1005-00-710-5599

**CROSS REFERENCE INDEX - PART NUMBER (cont)**

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**Table 1. Cross Reference List – Part Number (cont)**

<u>PART NUMBER</u>	<u>WORK PACKAGE</u>	<u>ITEM</u>	<u>NATIONAL STOCK NUMBER</u>
7790948	0124 00	1	
7791119	0124 00	2	1005-00-603-4834
7792977	0148 00	17	5315-00-772-0186
7792978	0148 00	19	5360-00-772-0187
7792982	0148 00	18	5340-00-772-0190
7792986	0158 00	6	1005-00-772-0192
7792987	0158 00	5	5360-00-772-0193
7792991	0158 00	4	
7792993	0124 00	6	5315-00-809-5417
7793002	0127 00	14	1005-00-722-3850
7793003	0127 00	15	5360-00-473-5447
7793004	0128 00	2	
8403398	0139 00	1	1005-00-322-9716
8408768	0128 00	8	1005-00-840-8768
	0146 00	8	1005-00-840-8768
8412295	0145 00	17	5360-00-305-0725
8448211	0141 00	5	
9363644	0170 00	7	5310-01-142-8417
9378228	0131 00	5	5315-01-225-8635
9378229	0131 00	4	1005-01-223-2892
9378231	0131 00	3	5340-01-225-8545
9378232	0131 00	2	
9378233	0131 00	1	1005-01-225-1156

**END OF WORK PACKAGE**

**CROSS REFERENCE INDEX – NATIONAL STOCK NUMBER**

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**Table 1. Cross Reference List – National Stock Number**

<u>NATIONAL STOCK NUMBER</u>	<u>PART NUMBER</u>	<u>WORK PACKAGE</u>	<u>ITEM</u>
5310-00-011-5093	MS35338-65	0168 00	3
5315-00-013-7137	MS24665-814	0166 00	4
5315-00-019-0777	MS24665-291	0148 00	13
5315-00-051-8636	MS16562-120	0127 00	18
		0145 00	14
5305-00-052-9329	MS16996-21	0130 00	4
		0131 00	6
		0157 00	4
		0159 00	3
5305-00-054-6869	MS51031-48	0125 00	13
		0141 00	8
5315-00-059-5234	MS93090-201	0161 00	21
5305-00-068-0502	MS90725-6	0168 00	7
5305-00-068-0511	B1821BH038C125N	0151 00	27
1005-00-121-0778	10900712	0148 00	2
1005-00-121-0779	10900946	0148 00	16
5310-00-149-9130	MS20002-6	0155 00	2
5310-00-151-5572	NAS1149C0863B	0171 00	9
5310-00-160-9869	MS21083C16	0170 00	4
5305-00-172-4180	MS51957-61B	0171 00	1
5306-00-182-1801	AN174-21A	0141 00	3
5310-00-206-8491	MS20002-7	0163 00	5
5310-00-208-9255	MS21044C3	0172 00	1
5306-00-225-8499	MS90725-34	0156 00	3
5306-00-225-8503	MS90725-39	0161 00	15
5315-00-241-7330	MS24665-304	0163 00	3
5310-00-261-7423	MS35333-83	0170 00	5
5305-00-267-8952	B1821BH025F050N	0161 00	16
5305-00-269-3233	MS90726-57	0151 00	12
5305-00-269-3246	B1821BH038F300N	0155 00	4
5305-00-269-4511	MS90725-63	0168 00	1
5310-00-274-8715	MS35338-63	0168 00	8
5306-00-297-8753	5170484	0141 00	2
5360-00-305-0725	8412295	0145 00	17
1005-00-322-9716	8403398	0139 00	1
5310-00-350-9707	MS35692-27	0163 00	4
5310-00-407-9566	MS35338-45	0151 00	21
5310-00-407-9566	MS35338-45	0156 00	2
5305-00-433-3740	MS51958-64B	0172 00	2
5360-00-473-5447	7793003	0127 00	15
5365-00-513-9962	5139962	0125 00	16
5342-00-513-9959	5139959	0125 00	19

**CROSS REFERENCE INDEX – NATIONAL STOCK NUMBER (cont)**

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**Table 1. Cross Reference List – National Stock Number (cont)**

<u>NATIONAL</u> <u>STOCK NUMBER</u>	<u>PART NUMBER</u>	<u>WORK</u> <u>PACKAGE</u>	<u>ITEM</u>
5310-00-513-9964	5139964	0140 00	4
		0163 00	1
5306-00-513-9973	5139973	0140 00	2
		0163 00	9
5355-00-513-9982	5139982	0128 00	3
		0146 00	3
5305-00-513-9989	5139989	0127 00	12
		0145 00	20
5340-00-513-9995	5139995	0128 00	9
		0146 00	9
5360-00-513-9997	5139997	0125 00	20
5305-00-513-9988	5139988	0127 00	16
1005-00-513-9994	5139994	0128 00	6
9905-00-514-0669	5140669	0146 00	1
5315-00-514-0004	5140004	0125 00	18
1105-00-514-0137	5140137	0146 00	6
3040-00-514-0204	5140204	0142 00	12
		0143 00	3
5360-00-514-0209	5140209	0142 00	11
		0143 00	2
		0144 00	5
5315-00-514-0210	5140210	0142 00	13
		0143 00	4
5340-00-514-0211	5140211	0142 00	4
		0143 00	7
5305-00-514-0213	5140213	0142 00	3
		0143 00	6
5360-00-514-0215	5140215	0142 00	7
5340-00-514-0216	5140216	0142 00	8
5315-00-514-0217	5140217	0142 00	9
5365-00-514-0219	5140219	0141 00	24
5305-00-514-0237	5140237	0141 00	18
		0162 00	6
5305-00-514-0383	5140383	0145 00	16
5365-00-514-0485	5140485	0128 00	7
		0146 00	7
5305-00-514-0612	5140612	0128 00	4
		0146 00	4
1005-00-514-1080	5141080	0126 00	2
5305-00-514-1950	5141950	0144 00	2
		0125 00	10
5360-00-514-2877	5142877	0141 00	19
		0126 00	5

5306-00-516-9879	5169879	0125 00	9
5306-00-516-9880	5169880	0125 00	1
5306-00-516-9881	5169881	0125 00	3
5306-00-516-9882	5169882	0125 00	4
5306-00-517-0486	5170486	0141 00	4
4730-00-517-1491	5171491	0127 00	7
		0145 00	4
5355-00-517-1492	5171492	0127 00	8
		0145 00	3
5315-00-517-1495	5171495	0127 00	5
		0145 00	6
5310-00-517-4192	5174192	0127 00	2
		0145 00	10
1005-00-517-4123	5174123	0145 00	8
5360-00-518-9756	5189756	0145 00	15
1005-00-518-9757	5189757	0127 00	17
3040-00-519-4313	5194313	0145 00	18
5310-00-523-2321	13001783	0137 00	32
4010-00-523-6999	5236999	0148 00	8
5360-00-526-0143	5384062	0151 00	16
9390-00-532-8284	5328284	0151 00	8
1005-00-538-4053	5384053	0151 00	18
5340-00-538-4060	5384060	0151 00	19
5315-00-538-4055	5384055	0151 00	9
5315-00-538-4056	5384056	0151 00	5
5315-00-538-4057	5384057	0151 00	24
5307-00-538-4059	5384059	0151 00	4
5310-00-538-4064	5384064	0151 00	7
5320-00-541-2816	5412616	0152 00	9
		0166 00	8
5340-00-541-2817	5412817	0152 00	10
		0166 00	9
5360-00-541-2819	5412819	0152 00	12
		0166 00	13
5360-00-541-2820	5412820	0152 00	2
		0166 00	2
5310-00-543-4385	MS35333-46	0151 00	3
5310-00-550-1130	MS35333-40	0125 00	11
1005-00-555-9332	5559332	0140 00	3
		0163 00	10
1005-00-555-9333	5559333	0125 00	21
1005-00-555-9337	5559337	0125 00	17
1005-00-555-9338	5559338	0125 00	2
1005-00-555-9423	5559423	0141 00	12
1005-00-588-3490	5174175	0127 00	4
5310-00-595-7237	MS35333-42	0151 00	11
1005-00-603-4834	7791119	0124 00	2
1005-00-610-8195	6108195	0125 00	8
3120-00-610-8201	6108201	0125 00	5

**CROSS REFERENCE INDEX – NATIONAL STOCK NUMBER (cont)**

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**Table 1. Cross Reference List – National Stock Number (cont)**

<u>NATIONAL STOCK NUMBER</u>	<u>PART NUMBER</u>	<u>WORK PACKAGE</u>	<u>ITEM</u>
5355-00-610-8211	6108211	0128 00	5
		0146 00	5
5306-00-610-8395	6108395	0141 00	9
3110-00-610-8396	6108396	0141 00	17
3120-00-610-8397	6108397	0141 00	6
1005-00-610-8986	6108986	0125 00	12
5340-00-610-8402	6108402	0141 00	21
5355-00-615-8375	6158375	0127 00	9
		0145 00	2
5315-00-616-5517	MS35756-2	0127 00	11
5310-00-619-3782	6193782	0141 00	13
5360-00-629-7411	6297411	0151 00	6
1005-00-629-7412	6297412	0151 00	2
1005-00-633-7900	6337900	0152 00	5
5306-00-637-9675	MS35307-332	0171 00	22
5305-00-646-7389	MS35307-409	0171 00	10
1005-00-650-7136	6507136	0141 00	23
1005-00-650-7137	6507137	0141 00	1
8140-00-659-0078	6590078	0151 00	10
5315-00-704-2932	7042932	0151 00	25
1005-00-704-6650	7046650	0150 00	1
1005-00-704-6652	7046652	0151 00	1
1005-00-704-6653	7046653	0151 00	13
5315-00-707-0291	7070291	0151 00	28
5315-00-707-0292	7070292	0151 00	23
1005-00-710-5599	7790723	0123 00	1
5340-00-711-4359	7114359	0152 00	1
		0166 00	3
1005-00-714-9678	7149678	0141 00	25
5305-00-719-3997	MS35307-303	0171 00	8
1005-00-722-3850	7793002	0127 00	14
5310-00-732-0558	MS51967-8	0168 00	4
5310-00-732-0559	MS51968-8	0125 00	7
5310-00-761-6882	MS51967-2	0168 00	9
5310-00-768-0319	MS51968-2	0125 00	15
5360-00-772-0187	7792978	0148 00	19
5360-00-772-0193	7792987	0158 00	5
5340-00-772-0190	7792982	0148 00	18
5315-00-772-0186	7792977	0148 00	17
1005-00-772-0192	7792986	0158 00	6
1005-00-779-2479	10900948	0148 00	1

**CROSS REFERENCE INDEX – NATIONAL STOCK NUMBER (cont)**

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**Table 1. Cross Reference List – National Stock Number (cont)**

<u>NATIONAL STOCK NUMBER</u>	<u>PART NUMBER</u>	<u>WORK PACKAGE</u>	<u>ITEM</u>
5315-00-782-1821	MS20392-2C81	0152 00	7
		0166 00	5
5325-00-803-7315	MS16624-1043	0124 00	7
		0158 00	3
5325-00-804-2275	MS16625-4125	0171 00	6
5310-00-809-4058	MS27183-10	0131 00	7
		0151 00	15
5315-00-809-5417	7792993	0124 00	6
5310-00-809-5998	MS27183-18	0148 00	14
5315-00-811-9105	MS20392-3C41	0151 00	14
5315-00-812-0762	MS39086-54	0142 00	5
		0143 00	9
5315-00-812-1008	MS39086-95	0141 00	14
5315-00-826-3251	MS16562-223	0162 00	17
5315-00-839-2325	MS24665-132	0151 00	17
5315-00-839-2325	MS24665-132	0152 00	6
1005-00-840-8768	8408768	0128 00	8
		0146 00	8
5310-00-842-1490	MS35692-37	0148 00	12
5315-00-842-3044	MS24665-283	0152 00	3
		0166 00	12
5315-00-849-5579	MS24665-437	0161 00	9
5310-00-851-2682	MS35691-17	0148 00	11
1005-00-854-4463	10900945	0147 00	1
5306-00-854-4464	10900962	0148 00	5
5315-00-854-4465	10900963	0148 00	9
5310-00-880-7744	MS51967-5	0161 00	14
5310-00-880-7746	MS51968-5	0151 00	22
5315-00-902-0419	MS16555-42	0141 00	10
5315-00-903-3971	MS24665-834	0140 00	5
		0163 00	2
5305-00-904-4053	MS51096-355	0148 00	3
5360-00-915-5615	11010547	0127 00	6
		0145 00	5
5360-00-915-5616	11010523	0128 00	10
	11010523	0146 00	10
5315-00-915-8174	11010522	0128 00	11
		0146 00	11
5320-00-915-8185	11010448	0126 00	1
		0144 00	1
5310-00-916-2167	11010206	0145 00	11
5310-00-916-2170	11010421	0142 00	6
		0143 00	8

**CROSS REFERENCE INDEX – NATIONAL STOCK NUMBER (cont)**

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**Table 1. Cross Reference List – National Stock Number (cont)**

<u>NATIONAL STOCK NUMBER</u>	<u>PART NUMBER</u>	<u>WORK PACKAGE</u>	<u>ITEM</u>
5310-00-916-2172	11010530	0142 00	2
		0143 00	5
5315-00-916-2173	11010407	0145 00	7
5310-00-916-2171	11010529	0141 00	20
1005-00-919-7273	11010242	0128 00	1
5310-00-926-5916	MS51968-12	0141 00	22
5315-00-930-0101	MS20392-5C99	0152 00	11
		0166 00	15
5310-00-935-3750	MS51943-4	0127 00	10
		0145 00	1
5305-00-939-1179	MS51095-364	0148 00	6
1005-00-940-8077	11010426	0142 00	1
5360-00-945-9954	11010410	0129 00	2
1005-00-945-9756	11010408	0124 00	4
5340-00-945-9768	11010409	0129 00	1
5315-00-947-7250	11010411	0129 00	4
5310-00-947-8635	11010526	0141 00	15
5310-00-949-1971	11010413	0127 00	13
		0145 00	19
5310-00-950-0039	MS21044N6	0155 00	1
5305-00-984-5695	MS35206-315	0148 00	10
5315-01-008-2981	MS17986-C825	0149 00	5
5315-01-056-7320	MS20392-4C91	0152 00	4
		0166 00	11
5305-01-075-6083	MS51958-79B	0162 00	13
5310-01-142-8417	9363644	0170 00	7
4010-01-149-5517	5830087-2	0145 00	13
4010-01-149-5519	5830087-4	0161 00	12
4010-01-149-5520	5830087-5	0167 00	4
4010-01-149-5520	5830087-5	0161 00	2
5315-01-149-5531	2680617	0164 00	4
5305-01-149-5537	5830086	0161 00	4
5306-01-150-1922	5830054	0161 00	3
		0170 00	2
5360-01-150-1923	2814006	0164 00	2
5305-01-150-1924	5830084	0172 00	5
5305-01-151-0080	5830053	0161 00	5
1010-01-151-3556	5830127	0168 00	10
1010-01-151-6227	5830128	0140 00	1
		0160 00	4
		0168 00	5
		0169 00	7
1010-01-151-6229	5830131	0154 00	2
		0160 00	2

4010-01-151-6230	2843009	0130 00	3
		0157 00	3
3120-01-151-6265	5830115	0161 00	7
1010-01-151-6217	5830097	0160 00	5
1010-01-151-6218	5830078	0163 00	6
1010-01-151-6219	5830079	0163 00	7
1010-01-151-6221	5830123	0160 00	11
1010-01-151-6223	5830125	0168 00	11
5340-01-151-6224	5830126	0168 00	2
1010-01-151-6228	5830129	0168 00	12
1010-01-151-6231	5830134	0161 00	6
1010-01-151-6232	5830116	0161 00	17
1010-01-151-6239	5830063	0154 00	3
1010-01-151-6240	5830056	0161 00	11
5340-01-151-6241	5830104	0166 00	10
1010-01-151-6242	5830114	0166 00	1
1010-01-151-6243	5830077	0166 00	6
5360-01-151-6248	5830119	0161 00	20
5315-01-151-6261	5830101-1	0161 00	13
1010-01-151-6277	5830059	0160 00	7
8140-01-156-7371	5830093	0160 00	9
1010-01-156-7372	2814007	0164 00	3
1010-01-160-6115	5830052	0160 00	1
5310-01-162-5722	MS35692-55	0161 00	10
5305-01-163-5779	MS51109-96	0163 00	8
5305-01-169-4720	6108400	0141 00	11
1005-01-223-2892	9378229	0131 00	4
1005-01-225-1156	9378233	0131 00	1
5340-01-225-8545	9378231	0131 00	3
5315-01-225-8635	9378228	0131 00	5
5340-01-282-3650	12972501	0172 00	3
1010-01-289-2709	5831546	0160 00	6
5315-01-292-6411	MS17986C325	0157 00	2
5315-01-292-9631	MS17985C875	0161 00	1
5365-01-306-4235	12956283-2	0155 00	5
		0171 00	18
5340-01-340-8471	12929150	0160 00	10
		0169 00	4
5315-01-342-0671	12929251	0167 00	1
5315-01-368-7364	MS17986C725	0155 00	7
5310-01-374-0508	MS51943-2	0127 00	1
1005-01-383-2757	6650717	0169 00	1
1005-01-383-2949	6650450	0169 00	2
5315-01-385-9214	6650433-1	0171 00	19
5315-01-385-9216	6650433-2	0171 00	17
		0173 00	3
5310-01-386-0202	6650697	0171 00	16
5315-01-386-0206	6650695	0170 00	9
5307-01-386-2015	6650654	0171 00	14

**CROSS REFERENCE INDEX – NATIONAL STOCK NUMBER (cont)**

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**Table 1. Cross Reference List – National Stock Number (cont)**

<u>NATIONAL STOCK NUMBER</u>	<u>PART NUMBER</u>	<u>WORK PACKAGE</u>	<u>ITEM</u>
5325-01-386-8327	6650493	0162 00	10
5305-01-386-0209	6650696	0171 00	15
3040-01-386-0204	6650439-1	0171 00	20
1290-01-386-2008	6650496	0162 00	2
1005-01-386-2011	6650406	0170 00	8
5305-01-386-2768	6650498	0162 00	18
1005-01-386-4688	6650443	0171 00	2
5365-01-386-5924	6650494	0162 00	8
3040-01-386-5925	6650439-2	0171 00	23
5340-01-386-8380	6650444	0171 00	24
2510-01-387-0586	6650448	0171 00	4
3110-01-387-0590	6650561	0162 00	7
5315-01-387-4379	6650673	0171 00	12
5340-01-387-1944	6650441	0171 00	25
8140-01-387-3095	6650724	0169 00	3
5355-01-387-4540	12953608	0167 00	3
5306-01-388-0795	6650501-1	0162 00	4
5310-01-388-4108	6650407	0170 00	7
5340-01-388-4109	6650442	0171 00	3
5340-01-388-5595	6650489	0162 00	5
5310-01-389-4257	MS35338-046	0151 00	26
1005-01-388-5679	6650723	0169 00	5
1005-01-388-5685	6650722-2	0165 00	4
		0173 00	2
1005-01-388-5696	6650446	0170 00	6
1005-01-388-5697	6650437	0171 00	5
1005-01-388-5702	6650722-1	0165 00	3
		0173 00	2
1005-01-388-6911	6650438	0171 00	21
1005-01-388-7006	6650436	0171 00	5
1005-01-413-4098	12956264	0153 00	1
5310-01-429-4371	MS21083C10	0170 00	10
1005-01-431-8324	12976909	0159 00	5
1005-01-433-1617	12976948	0123 00	1
5365-01-434-0883	12956268	0158 00	2
5315-01-434-3288	12956267	0158 00	7
5315-01-443-7576	12938267	0145 00	12
1010-01-445-6143	12012061	0160 00	3
		0169 00	6
5315-01-447-2233	12012064	0162 00	14
5315-01-447-2276	12012067	0162 00	15
5325-01-447-2281	12012071	0162 00	12
1010-01-447-2983	12012065	0162 00	16

4010-01-447-5812	12956269	0149 00	4
		0155 00	6
1010-01-451-7557	6650651	0171 00	13
1005-01-451-7558	12598081	0149 00	1
5325-01-452-8694	12956283-1	0149 00	3
1010-01-458-1563	12012088	0162 00	3
5315-01-461-2651	12986104	0130 00	1
1005-01-461-2656	12986102	0124 00	3
		0154 00	1
1005-01-461-5040	12986105	0159 00	4
1005-01-468-0552	12986106	0159 00	1
1090-01-468-6535	12012089	0162 00	1
1005-01-470-5701	12990569	0131 00	8
1005-01-480-9118	12956265-2	0154 00	4
5340-01-487-3060	5140765	0146 00	12
1005-01-496-1039	6650434	0170 00	1
1005-01-502-7547	13001175	0169 00	8
1005-01-503-0141	13001669	0132 00	1
1005-01-504-9808	13001177	0170 00	11
1005-01-505-1037	12999574	0170 00	12
1005-01-508-1574	13001176	0169 00	9
1005-01-513-9741	6650671	0173 00	1
5340-01-515-7134	13001786	0137 00	17
3040-01-515-7135	13001768	0137 00	20
5310-01-515-7136	13001777	0137 00	23
1005-01-515-8259	13001726	0138 00	6
1005-01-515-8261	13001775	0137 00	26
1005-01-515-8263	13001762	0137 00	16
1005-01-515-8267	13001776	0137 00	25
1005-01-515-8270	13001717	0133 00	2
1005-01-515-8271	13001703	0136 00	4
1005-01-516-1431	13001702	0136 00	3
1005-01-516-1434	13001744	0137 00	38
5315-01-516-1435	13001715	0138 00	14
1005-01-516-1436	13001747	0137 00	19
5340-01-516-1438	13001780	0137 00	18
3040-01-516-1439	13001763	0137 00	34
1005-01-516-1442	13001739	0137 00	28
5340-01-516-1443	13001721	0138 00	5
1005-01-516-1445	13001742	0137 00	36
5340-01-516-1446	13001778	0137 00	24
5340-01-516-1447	13001781	0137 00	13
5360-01-516-2309	13001688	0135 00	11
5315-01-516-2310	13001716	0138 00	8
1005-01-516-3961	6650753	0165 00	2
3120-01-516-3962	13001683	0135 00	5
1005-01-516-3963	13001746	0137 00	4
5307-01-516-3964	13001682	0135 00	4
1005-01-516-6461	13001694	0134 00	4

**CROSS REFERENCE INDEX – NATIONAL STOCK NUMBER (cont)**

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**Table 1. Cross Reference List – National Stock Number (cont)**

<u>NATIONAL STOCK NUMBER</u>	<u>PART NUMBER</u>	<u>WORK PACKAGE</u>	<u>ITEM</u>
5340-01-516-6463	13001720	0138 00	2
5310-01-516-7541	13001733	0138 00	3
1005-01-516-9182	13001774	0137 00	22
1005-01-516-9183	13001741	0137 00	31
1005-01-516-9184	13001678	0135 00	1
1005-01-516-9185	13001708	0134 00	6
1005-01-516-9186	13001685	0135 00	10
1005-01-517-0203	13001756	0137 00	2
1005-01-517-0205	13001730	0138 00	12
1005-01-517-1749	13001738	0135 00	13
1005-01-517-1750	13001686	0135 00	9
1005-01-517-6143	13001761	0137 00	6
1005-01-519-2128	13008479	0158 00	1
5305-01-521-4552	13001690	0135 00	8
5305-01-521-4553	13001790	0135 00	7
5306-01-521-4554	13001684	0134 00	2
5306-01-521-4557	13001689	0135 00	6
1005-01-521-4558	13001748	0137 00	7
5305-01-521-4559	13001751	0137 00	33
5340-01-521-4560	13001736	0137 00	5
1005-01-521-4561	13001753	0137 00	3
5360-01-521-6073	13001687	0135 00	3
5305-01-521-6074	13001758	0137 00	15
5305-01-521-6075	13001760	0137 00	1
5305-01-521-6076	13001759	0137 00	8
5306-01-521-6077	13001757	0137 00	11
1005-01-521-6078	13001734	0138 00	10
5306-01-521-6079	13001779	0137 00	12
5360-01-521-6080	13001692	0136 00	2
5360-01-521-6081	13001770	0137 00	35
5306-01-521-6082	13001714	0138 00	13
5310-01-521-6083	13001737	0138 00	4
5360-01-521-6084	13001773	0137 00	21
5325-01-521-6085	13001711	0138 00	11
5305-01-521-6086	13001755	0137 00	30
5310-01-521-6089	13001789	0135 00	12
5360-01-521-7880	13001791	0137 00	27
5305-01-521-7881	13001713	0138 00	7
1005-01-521-7882	13001735	0138 00	16
5305-01-521-7893	13001693	0136 00	5
5310-01-523-2318	13001705	0134 00	3
5310-01-523-2322	13001782	0137 00	14
5310-01-523-4870	13001704	0134 00	5

**TM 9-1005-245-13&P**

**0176 00**

5310-00-543-5858	MS35691-826	0141 00	16
1005-01-565-2811	5652801	0152 00	13
TBD	13001784	0137 00	39

**END OF WORK PACKAGE**

**0176 00-11/12 blank**



**CHAPTER 12**  
**COMPONENT OF THE END ITEM (COEI),**  
**BASIC ISSUE ITEMS (BII),**  
**ADDITIONAL AUTHORIZATION LIST (AAL)**  
**AND**  
**EXPENDABLE DURABLE ITEMS LIST**



**COMPONENTS OF THE END ITEM AND  
BASIC ISSUE ITEMS**

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This work package lists components of the end item and basic issue items for the machine gun to help you inventory items required for safe and effective operation.

The Components of the End Item (COEI) and Basic Issue Items (BII) lists are divided into the following:

Components of the End Item (COEI): This is for informational purposes only and is not authority to requisition replacements. These items are part of the end item but are removed and separately packaged for transportation or shipment. As part of the end item, these items must be with the end item whenever it is issued or transferred between property accounts. Illustrations are furnished to assist you in identifying the items.

These are the minimum essential items required to place the machine gun in operation, to operate it, and to perform emergency repairs. Although shipped separately packaged, BII must be with the machine gun during operation and whenever it is transferred between property accounts. The illustrations will assist you with hard to identify items. This manual is your authority to request/ requisition replacement BII, based on TOE/MTOE authorization of the end item.

**EXPLANATION OF COLUMNS.** The following provide an explanation of columns found in the tabular listings:

Column (1) – Illus. Number, gives you the number of the item illustrated.

Column (2) – National Stock Number, the stock number of the item to be used for requisitioning purposes.

Column (3) – Description and Usable On Code, identifies the Federal item name (in capital letters) followed by a minimum description when needed. The last line below the description is the CAGEC (in parenthesis) and the part number. If the item you need is not the same for different models of the equipment, a Usable On Code will appear on the right side of the description column on the same line as the part number. These codes are identified

<u>Code</u>	<u>Used On</u>
AK3	MK64 MOD 5 Machine Gun Mount
AM5	M122 Machine Gun Tripod
AM7	M142 Machine Gun Tripod
AM8	6650 .50 Caliber Machine Gun Mount
AN0	M3 Machine Gun Tripod
AY8	MK93 MOD 1 Machine Gun Mount
BC5	M122A1 Machine Gun Mount
BB8	M197 Machine Gun Mount
BB9	MK64 MOD 9 Machine Gun Mount
BL5	M192 Machine Gun Tripod
BL4	MK93 MOD 2 Machine Gun Mount

Column (4) – U/M, indicates how the item is issued for the National Stock Number shown in column (2).

Column (5) – Qty Rqd, indicates the quantity required.

**COMPONENTS OF THE END ITEM AND BASIC ISSUE ITEMS (cont)**

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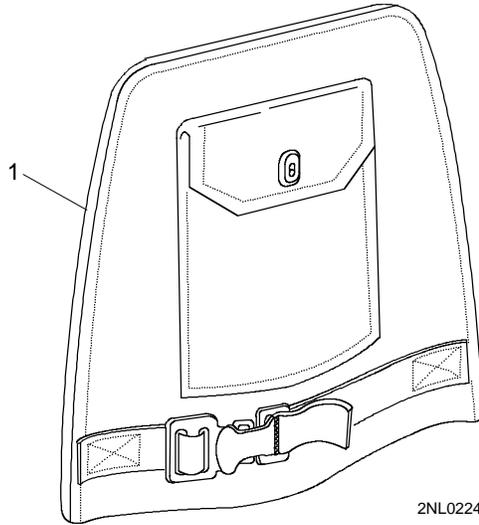
**COMPONENTS OF THE END ITEM**

There are no Components of the End Item.

**BASIC ISSUE ITEMS**

**Table 2. Basic Issue Items**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION CAGEC AND PART NUMBER	USABLE ON CODE	(4) U/M	(5) QTY RQD
1	1005-00-928-6189	COVER, TRIPOD MOUNT, M1 (19204) 11686597	AN0	EA	1



**END OF WORK PACKAGE**

**ADDITIONAL AUTHORIZATION LIST (AAL)**

---

**INTRODUCTION**

**Scope**

This work package lists additional items you are authorized for the support of your mount.

**General**

This list identifies items that do not have to accompany the mount and that do not have to be turned in with it. These items are authorized to you by CTA, MTOE, TDA, or JTA.

Explanation of Columns in the AAL

Column (1) – National Stock Number (NSN). Identifies the stock number of the item to be used for requisitioning purposes.

Column (2) – Description, Commercial and Government Entity Code, and Part Number (CAGEC), and Part Number (P/N). Identifies the Federal item name (in all Capital letters) followed by a minimum description when needed. The last line below the description is the CAGEC (in parentheses) and the part number.

Column (3) – Usable On Code. When applicable, gives you a code if the item you need is not the same for different models of equipment. These codes are identified below.

<u>Code</u>	<u>Used On</u>
AN0	M3 Machine Gun Mount
AM5	M122 Machine Gun Tripod
AM7	M142 Machine Gun Mount
BB8	M197 Machine Gun Mount
BB9	MK64 MOD 9
BC5	M122A1 Machine Gun Tripod

Column (4) – Unit of Issue (U/I). Indicates the physical measurement or count of the item as issued per the National Stock Number shown in column (1).

Column (5) – Qty Recm. Indicates the quantity recommended.

**ADDITIONAL AUTORIZATION LIST (AAL)**

**Table 1. Additional Authorization List**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION CAGEC AND PART NUMBER	USABLE ON CODE	(4) U/M	(5) QTY RQD
1	1005-01-451-7558	ADAPTER, M142 GUN MOUNTING (19200) 12598081	AM7	EA	1
2	1005-01-431-8324	BRACKET, AMMO (19200) 12976909	BB8	EA	1
3	8140-01-156-7371	HOLDER, AMMUNITION BOX (53711) 5830093	BB9	EA	1
4	1010-01-151-6217	.50 CALIBER MOUNT ADAPTER ASSEMBLY (53711) 5830097	BB9	EA	1
5	1010-01-151-6277	COVER, MOUNT, MACHINE GUN (53711) 5830059	BB9	EA	1
6	1005-01-470-5701	DEFLECTOR (19200) 12990569	BB8	EA	1
7	1005-01-225-1156	FORK ASSEMBLY (19200) 9378233	AM5, BC5, BB8	EA	1
8	5310-00-889-2589	NUT, SELF-LOCKING (80205) MS21044C4	BB8	EA	2
9	1005-01519-2128	PARTS KIT, ADAPTER ASSEMBLY (19200) 13008479	AM5, BC5, BB8	EA	1
10	1005-00-945-9756	PINTLE, MOUNT (19205) 11010408	BB8	EA	1
11	1005-01-461-5040	PLATE, DEFLECTOR (19200) 12986105	BB8	EA	1
12	5305-00-052-9329	SCREW. CAP, SOCKET HEAD (80205) MS16996-21	BB8	EA	1
13	5310-00-809-4058	WASHER, FLAT (96906) MS27183-10	BB8	EA	1

**END OF WORK PACKAGE**

**EXPENDABLE AND DURABLE ITEMS LIST**

**INTRODUCTION**

**Scope**

This work package lists expendable and durable items that you will need to operate and maintain your mount. This list is for information only and is not authority to requisition the listed items. These items are authorized to you by CTA 50-970, Expendable /Durable Items (Except Medical, Class V Repair Parts, and heraldic Items), or CTA 8-100, Army Medical Department Expendable/Durable Items.

**Explanation of Columns in the Expendable/Durable Items List**

Column (1) – Item Number. This number is assigned to the entry in the list and is listed in the narrative instructions to identify the item (e.g., Use brake fluid (item 5, WP 0098 00)).

Column (2) – Level. This column identifies the lowest level of maintenance that requires the listed item.

- C – Operator/Crew
- O – Unit Maintenance
- F – Direct Support Maintenance

Column (3) – National Stock Number (NSN). This is the NSN assigned to the item that you can use to requisition it.

Column (4) – Item Name, Description, Commercial and Government Entity Code (CAGEC), and Part Number (P/N). This column identifies the other information you need to identify the item.

Column (5) – Unit of Measure. This code shows the physical measurement or count of an item, such as gallon, dozen, gross, etc.

**EXPENDABLE AND DURABLE ITEMS LIST**

**Table 1. Expendable and Durable Items List**

(1) ITEM NUMBER	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) DESCRIPTION	(5) QTY
1	O	6810-00-753-4780	ACETONE (81348) OC265 1 pint bottle	PT
2	C	6810-00-205-6786 6810-00-543-7415	ALCOHOL, DENATURED (OMUS3) 27 CRF 20.113 (OMUS3) 27 CFR 21.35	QT GL
3	C	9150-01-054-6453 9150-01-053-6688	CLEANER, LUBRICANT AND PRESERVATIVE: Grade 2 (CLP) (81349) MIL-PRF-63460 1 pint bottle 1 gal bottle	PT GL
4	C	5350-00-221-0872	CLOTH, ABRASIVE, CROCUS (76381) 051144-02435 50 sheet package	SH
5	O	8010-01-235-2695	ENAMEL, HEAT RESISTING (CARC) BROWN (81349) MIL-P-14105 1 gal can	GL

**EXPENDABLE AND DURABLE ITEMS LIST (cont)**

**EXPENDABLE AND DURABLE ITEMS LIST (cont)**

**Table 1. Expendable and Durable Items List (cont)**

(1) ITEM NUMBER	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) DESCRIPTION	(5) QTY
6	O	8010-00-616-4009	ENAMEL, HEAT RESISTING (CARC) OLIVE DRAB (81349) MIL-P-14105 1 gal can	GL
7	O	8010-00-297-0560	ENAMEL, OLIVE DRAB (80244) MPI 8-FLAT 1 gal can	GL
8	O	8010-00-598-5460	ENAMEL, SAND (80244) MPI 8-FLAT 1 gal can	GL
9	C	9150-01-197-7689	GREASE, AUTOMOTIVE AND ARTILLERY (GAA) 6.5 lb can (81349) MIL-G-10924	CN
10	O	9150-01-260-2534	LUBRICANT, SOLID FILM (81349) MIL-PRF-680, Type 2 1 gal can	GL
11	C	9150-00-292-9689	LUBRICATING OIL, WEAPONS (LAW) (81349) MIL-PRF-14107 1 qt can	QT
12	C	9150-00-687-4241 9150-00-753-4686	LUBRICATING OIL, WEAPONS (LSA) (81349) MIL-L-46000 1 qt can 1 gal can	QT GL
13	C	9150-00-231-6689	LUBRICATING OIL, GENERAL PURPOSE (PS-L) (81348) W-L-800 1qt can	QT
14	C	7920-00-205-1711	RAG, WIPING (80244) A-A-531 50 lb bale	BE
15	O	8030-01-104-5392	SEALING COMPOUND (BLUE) 10cc bottle (10 per box)	BX
16	F	8030-00-111-2763	SEALING COMPOUND (GREEN) 10cc bottle (10 per box)	BX
17	C	6850-00-637-6135	SOLVENT, CLEANING COMPOUND, TY II (81349) P-D-680 1gal can	GL
18	F	9505-00-293-4208	WIRE, NON-ELECTRICAL (96906) MS20995C32, 1 lb	LB
19	O/F	1640-01-200-7079	WIRE, ROPE (81349) M83420/4-003 100 FT. ROLL	FT

Table 1. Expendable and Durable Items List (cont)

(1) ITEM NUMBER	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) DESCRIPTION	(5) QTY
20	F	8030-00-526-1454	FILLER, ENGRAVING (81348) TT-F-325 (12 Sticks to box)	BX
21	O/F	4030-00-145-5721	SLEEVE, SWAGING (96906) MS 51844-64	EA

END OF WORK PACKAGE



**ALPHABETICAL INDEX**

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