

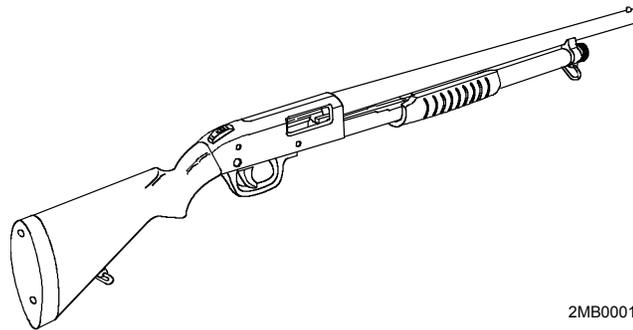
**TECHNICAL MANUAL  
UNIT AND DIRECT SUPPORT MAINTENANCE  
(INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)**

**FOR**

**MOSSBERG 12-GAUGE SHOTGUN, MODEL 500  
(1005-01-295-1832)**

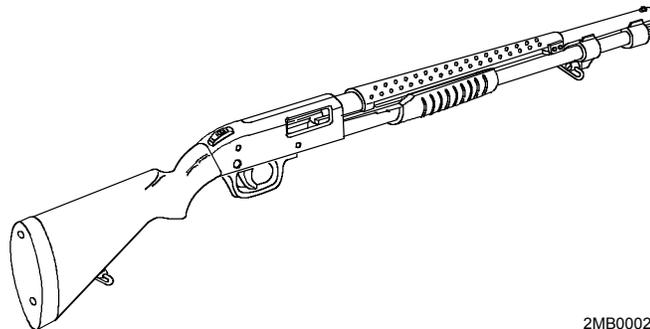
**AND**

**MOSSBERG 12-GAUGE SHOTGUN, MODEL 590  
(1005-01-251-8578)**



2MB0001

**MODEL 500**



2MB0002

**MODEL 590**

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**HEADQUARTERS, DEPARTMENTS OF THE ARMY, AIR FORCE**

**MAY 2005**



**WARNING SUMMARY**

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Be sure to clear your weapon before disassembling, cleaning, inspecting, transporting or storing.

Make certain weapon is cleared and that there is no obstruction in the barrel or chamber.

Before starting an inspection, be sure to clear the weapon. Do not actuate the trigger until the weapon has been cleared. Inspect the chamber to be sure that it is empty, and check to see that there are no obstructions in the barrel.

Do not pull trigger and allow hammer to fall when trigger assembly is removed from receiver. Personal injury or damage to trigger assembly may result.

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

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 your weapon or its parts.

For additional first aid data, see FM 4-25.11.

Refer to PAM 385-64 for information on weapons, ammunition, and related publications.

During immediate action make certain the shotgun is pointed in a safe direction at all times.

During remedial action make certain the shotgun is pointed in a safe direction at all times.

When using the M1030 Breaching round, the use of hearing protection and eye protection (goggles) is required. Use double hearing protection within 2 meters from the target. Use single hearing protection from 2 to 8.5 meters from a weapon being fired. ■

Operators should not chamber a round into the shotgun until they are ready to fire. Accidental discharge and injury could occur from dropping the shotgun in the muzzle down position. ■



CHANGE  
NO. 3

HEADQUARTERS  
DEPARTMENTS OF THE ARMY  
AND AIR FORCE  
Washington, D.C., 14 May 2010

**UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL  
(INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)  
FOR  
MOSSBERG 12-GAUGE SHOTGUN, MODEL 500  
(1005-01-295-1832)  
AND  
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4. Replace the following work packages with their revised version.

**Work Package Number**

WP 0005  
WP 0009  
WP 0036  
WP 0038

**Work Package Number**

WP 0039  
WP 0040  
WP 0042  
WP 0043  
WP 0044

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Official:



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Army TM 9-1005-338-13&P  
Air Force TO 11W3-6-2-11  
C2

CHANGE  
NO. 2

HEADQUARTERS  
DEPARTMENTS OF THE ARMY  
AND AIR FORCE  
Washington, D.C., 24 April 2008

**Technical Manual**  
**UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL**  
**(INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)**  
**FOR**  
**MOSSBERG 12-GAUGE SHOTGUN, MODEL 500**  
**(1005-01-295-1832)**  
**AND**  
**MOSSBERG 12-GAUGE SHOTGUN, MODEL 590**  
**(1005-01-251-8578)**

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WP 0018  
WP 0022  
WP 0024  
WP 0025

**Work Package Number**

WP 0028  
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WP 0031  
WP 0032  
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WP 0038  
WP 0041  
WP 0043  
WP 0044  
WP 0045  
WP 0047

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CHANGE  
NO. 1

**TECHNICAL MANUAL  
UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL  
(INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)**

**FOR**

**MOSSBERG 12-GAUGE SHOTGUN, MODEL 500  
(1005-01-295-1832)**

**AND**

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(1005-01-251-8578)**

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WP 0009 00  
WP 0013 00  
WP 0014 00

Work Package Number

WP 0015 00  
WP 0028 00  
WP 0029 00  
WP 0032 00  
WP 0036 00  
WP 0037 00  
WP 0038 00  
WP 0039 00  
WP 0040 00  
WP 0041 00  
WP 0042 00  
WP 0043 00  
WP 0044 00

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Dates of issue for this manual are:

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 Change 1 30 March 2007  
 Change 2 04 April 2008  
 Change 3 14 May 2010

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**TO 11W3-6-2-11**

TECHNICAL MANUAL  
Army TM 9-1005-338-13&P  
Air Force TO 11W3-6-2-11

HEADQUARTERS,  
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AND AIR FORCE  
WASHINGTON D.C. 15 MAY 2005

**TECHNICAL MANUAL  
UNIT AND DIRECT SUPPORT MAINTENANCE  
(INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)**

**FOR**

**MOSSBERG 12-GAUGE SHOTGUN, MODEL 500  
(1005-01-295-1832)**

**AND**

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(1005-01-251-8578)**

**REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS**

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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.** There are two maintenance chapters, one for unit and one for direct support. Each 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 0034 00.



**CHAPTER 1**  
**GENERAL INFORMATION**



## GENERAL INFORMATION

---

**CHAPTER OVERVIEW.** This chapter contains general information, equipment description and data, and principles of operation for the shotgun.

### SCOPE

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

Equipment Number and Model Number: Mossberg 12- Gauge Shotgun Model 500 and Mossberg 12- Gauge Shotgun Model 590.

Purpose of Equipment: To provide repeating weapon fire for offensive and defensive purposes.

**MAINTENANCE FORMS, RECORDS, AND REPORTS.** Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA PAM 750-8, The Army Maintenance Management System (TAMMS) Users Manual. Maintenance forms and records used by Air Force personnel are prescribed in AFI 21-101, the applicable TO-00-20 Series, AFI 36-2226, and TO 11W-1-10.

**REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR).** If your shotgun 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 Commander, Armament Research, Development and Engineering Center, ATTN: AMSTA-AR-QAW-A (R), 1 Rock Island Arsenal, Rock Island, IL 61299-7300. We'll send you a reply. Air Force personnel should send an AFTO Form 22 through their respective MAJCOM in the Joint Computer-aided Acquisition and Logistics Support (JCALS) system. They should follow the guidance in Section 5 of Air Force Technical Order 00-5-1.

**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 future items. 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 Feedback Center, 1 Rock Island Arsenal, Rock Island, IL 61299-7300.

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

**PREPARATION FOR STORAGE AND SHIPMENT.** Not applicable for Army users. Air Force personnel shall follow the guidance in AFI 36-2226 and the applicable Specialized Packaging Instruction (SPI) in preparing weapons for storage or shipment. SPI web site – <https://spires.wpafb.af.mil/sindex.cfm>. When a weapon is deployed or shipped to a repair facility for repairs and where the weapon is expected to return to the owning organization. Ensure a copy of each weapon's AFTO Form 105 is processed in accordance with guidance in TO 11W-1-10 and sent with the weapon, the original AFTO Form 105 will remain with the owning organization.

**GENERAL INFORMATION (cont)**

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**LIST OF ABBREVIATIONS AND ACRONYMS**

This list includes nomenclature cross-references used in this manual.

Common Name	Official Name
Action lock .....	Action bar lock
Action slide assembly .....	Fore End Tube Assembly; Grip Assembly; Slide Arm Extension
Barrel .....	Shotgun barrel
Barrel Assembly .....	Barrel and Bayonet Band Assembly; Barrel Group; Shotgun Barrel
Butt Plate .....	Recoil Pad; Shoulder Butt Plate
Cartridge Extractor Pin .....	Cartridge Extractor
Cartridge Extractor Spring .....	Cartridge Extractor
Cartridge Follower .....	Magazine Follower
Firing Pin Collar .....	Tool Holder Cutter Bit
Firing Pin Retaining Pin .....	Cartridge Extractor
Firing Pin Extractor Spring.....	Fire Pin Extractor
Fore End Assembly .....	Fore End Group
Front Swivel Assembly .....	Special Cap
Magazine Cap .....	Machine screw; Tube Cap
Magazine Spring.....	Helical Compression Spring
Magazine Tube .....	Metal tube Assembly; Shotgun Magazine Tube
Rear Swivel Assembly .....	Small Sling Swivel; Special Cap
Receiver Assembly .....	Receiver and Magazine Group
Shotgun Slide Grip .....	Gun Fore End Stock; Shotgun Grip
Slide Tube Nut.....	Grip Adapter; Retaining Ring Extension; Tube Cap
Stock.....	Buttstock Assembly; Shoulder Gun Stock (233103; 7440)
Stock Assembly .....	Shoulder Gun Stock (30515); Stock
Trigger Assembly.....	Trigger guard Assembly; Trigger housing Assembly; Trigger plate Assembly

---

**QUALITY OF MATERIAL**

Material used for replacement, repair, or modification must meet the requirements of this manual. If the quality of material requirements is not stated in the manual, the material must meet the requirements of the drawings, standards, specifications, or approved engineering change proposals applicable to the subject equipment.

**SAFETY, CARE AND HANDLING**

To ensure safety, read the warning page at the front of this manual. Pay close attention to the warnings and cautions that appear in this manual where special care and attention are required. For ammunition care and handling, refer to DA PAM 385-64.

**NUCLEAR, BIOLOGICAL, AND CHEMICAL (NBC)**

General procedures can found in FM 3-11.3, FM 3-11.4 and FM 3-11.5.

Air Force personnel will follow the guidance in AF HANDBOOK 32-4014, Ability to Survive and Operate Procedures in a Nuclear, Bioenvironmental, and Chemical (NBC) Environment.

**END OF WORK PACKAGE**



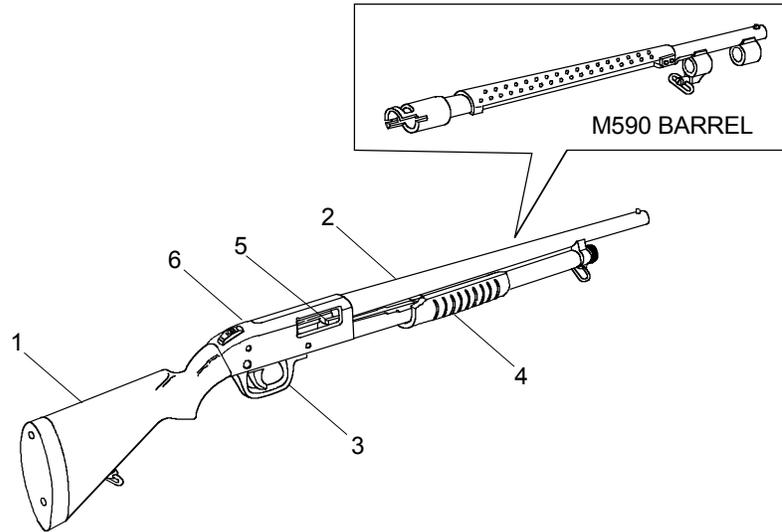
## EQUIPMENT DESCRIPTION AND DATA

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### EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES.

The shotgun is manually operated, repeating, magazine fed, shoulder fired weapon.

### LOCATION AND DESCRIPTION OF MAJOR COMPONENTS



2MB0003

**STOCK ASSEMBLY (1)** - The stock is an extension of the receiver group and provides a support to the shoulder fired weapon.

**SHOTGUN BARREL (2)** - Barrel provides path for projectiles. The front sight serves as an aiming device.

**TRIGGER HOUSING ASSEMBLY (3)** - The trigger guard assembly houses the components required to provide locking, initial feeding, loading, firing, and safety functions of the weapon.

**GUN FORE END (4)** - The slide arm extension is used to open and close the breech bolt group, permitting loading and firing of the weapon and extraction and ejection of spent cartridges.

**BOLT ASSEMBLY (5)** - The bolt assembly feeds and locks the round in the chamber. The firing pin detonates the primer to fire the weapon. The fired round is removed from the chamber by the extractor.

**RECEIVER ASSEMBLY (6)** - Receiver and magazine group. The magazine tube serves as a retainer for the fore end assembly and provides a storage area for the cartridges. The receiver houses the cartridge ejector and serves as support for all major groups and assemblies of the weapon.

### DIFFERENCES BETWEEN MODELS

The Mossberg Model 590 has a detachable heat shield.

**EQUIPMENT DESCRIPTION AND DATA (cont)**

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**EQUIPMENT DATA**

**MOSSBERG, MODEL 500**

Gauge of bore.....	12 gauge
Choke .....	Cylinder
Type of action .....	Pump
Type of firing mechanism .....	Internal hammer
Magazine capacity.....	5 rounds
Total capacity (with cartridge in chamber).....	6 rounds
Operation.....	Manual
Cooling.....	Air
Length (Barrel).....	18.5 in.
Length (Shotgun).....	39.5 in.
Weight of shotgun (approx) .....	7.0lb (3.2kg)
Ammunition.....	12 gauge, 2-3/4in/3 in. - No.00 buckshot, Chilled shot, non-lethal and breaching rounds as authorized.
Safety.....	Top of receiver

MOSSBERG, MODEL 590

Gauge of bore .....	12 gauge
Choke.....	Cylinder
Type of action .....	Pump
Type of firing mechanism.....	Internal hammer
Type of magazine .....	Tubular
Magazine capacity (3 in. cartridges).....	7 rounds
Total capacity (with cartridge in chamber).....	8 rounds
Operation .....	Manual
Cooling.....	Air
Length (Barrel).....	20 in. (51cm)
Length (Shotgun) (approx.).....	40.5 in (102.9 cm)
Weight of unloaded shotgun (approx.).....	8.0 lbs (3.6 kg)
Ammunition .....	12 gauge, 2-3/4in./3 in.- No.00 buckshot, Chilled shot, non-lethal and breaching rounds as authorized.
Safety.....	Top of receiver

END OF WORK PACKAGE



**THEORY OF OPERATION**

---

Pulling the trigger, sliding the fore end to the rear to open the action, and sliding the fore end forward again to close the action complete the entire operation of the shotgun. The fore end is mounted on double action bars and fully controlled by the operator. With the magazine fully loaded and one shell in the barrel chamber locked up, the shotgun is ready to fire.

**END OF WORK PACKAGE**

**0003 00-1/2 blank**



**CHAPTER 2**  
**OPERATOR INSTRUCTIONS**



**OPERATOR'S CONTROLS AND INDICATORS**

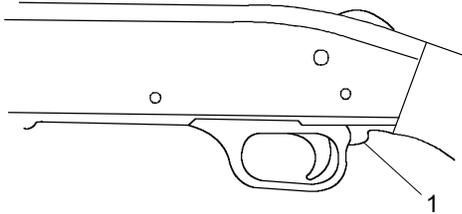
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**NOTE**

Controls/indicators function the same on both Mossberg Model 500 and Model 590.

**ACTION LOCK LEVER**

This lever (1) allows the action to be unlocked without engaging the trigger.



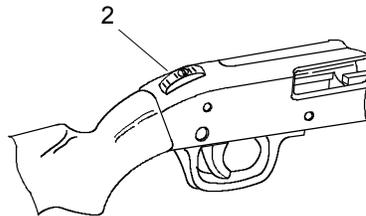
2MB0004

**WARNING**

If red is shown to the rear of the safety switch, weapon can be fired.  
Safety "ON" (safety switch to the rear) indicates "SAFE", safety "OFF" (safety switch forward) indicates "FIRE".

**SAFETY**

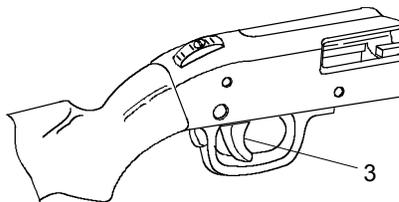
When in the rear (ON) position, the safety (2) prevents the firing of the weapon.



2MB0005

**TRIGGER**

The trigger (3) controls the firing of the weapon.



2MB0006

**OPERATOR'S CONTROLS AND INDICATORS (cont)**

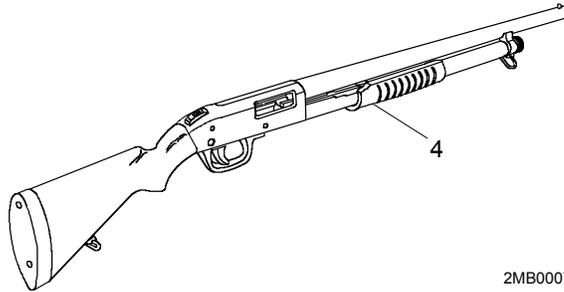
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**FORE END**

The fore end (4) is found forward of the receiver below barrel. Slide the action forward and rearward to chamber live cartridges and eject spent cartridges.

**NOTE**

Model M500 shown for illustration purposes.



2MB0007

**END OF WORK PACKAGE**

## OPERATION UNDER USUAL CONDITIONS – OPERATING PROCEDURES

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### LOADING

#### WARNING

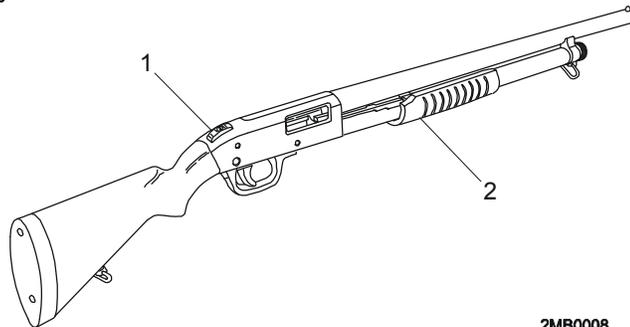
Operators should not chamber a round into the shotgun until they are ready to fire.  
Accidental discharge and injury could occur from dropping the shotgun in the muzzle down position.

#### NOTE

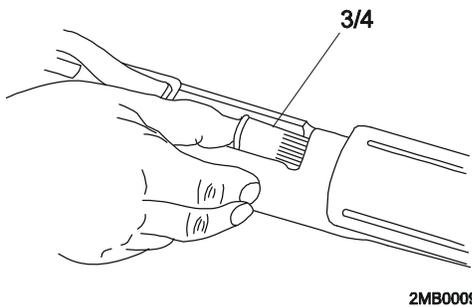
The safety will be found on the top of the receiver.

Move safety switch (1) fully rearward to "SAFE" position.

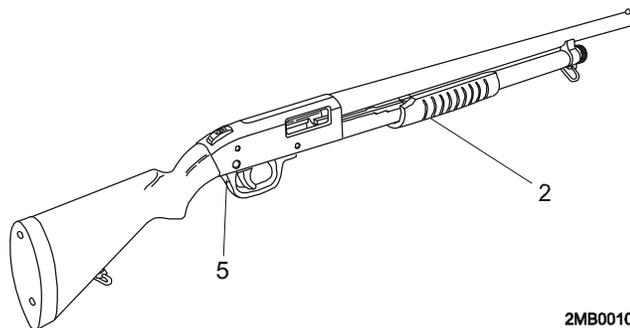
Assure fore end (2) is fully forward.



Turn shotgun over and insert cartridge (3) into magazine (4) until magazine is fully loaded.



Depress action lock (5) and move fore end (2) fully to the rear and forward again, chambering the first round. Another round can be added to the magazine if desired.



## OPERATION UNDER USUAL CONDITIONS – OPERATING PROCEDURES (cont)

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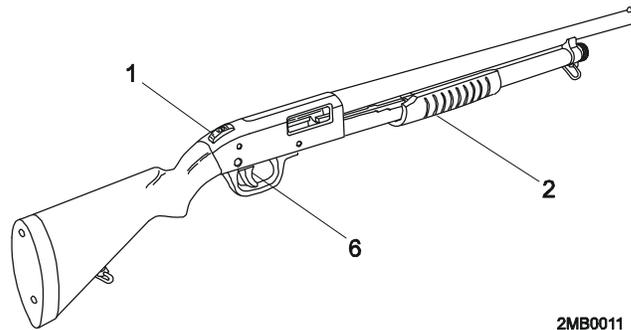
### FIRING

Point shotgun down range in a safe direction.

Move safety switch (1) forward to fire position.

Aim and fire by pulling the trigger (6).

Slide fore end (2) back and forth once to close action and load cartridge into chamber. Repeat to continue firing.



2MB0011

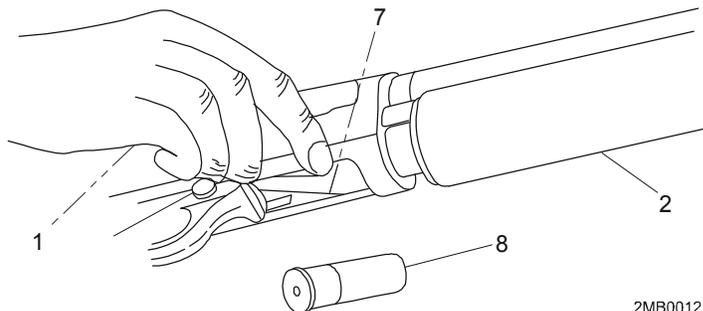
### REMOVING CARTRIDGES FROM MAGAZINE

Move safety switch (1) fully rearward to "SAFE" position.

Assure fore end (2) is fully forward.

Turn shotgun over, depress shell latch (7), allowing cartridges (8) to slide out of magazine tube.

Remove cartridge from shotgun. Repeat until magazine is empty.



2MB0012

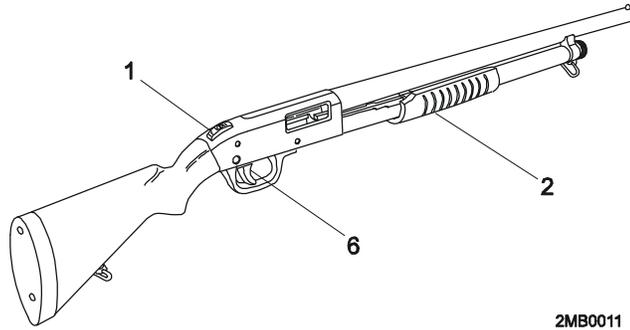
**REMOVING CARTRIDGES FROM CHAMBER**

Move safety switch (1) fully rearward to "SAFE" position.

Push in action lock (6) and slide fore end (2) to the rear.

Catch ejected cartridge (s) from chamber. Visually inspect the carrier for cartridge(s).

If a cartridge is present on carrier, rotate shotgun to the right and catch cartridge from the ejection port.

**END OF WORK PACKAGE**



**OPERATION UNDER USUAL CONDITIONS –  
STOPPAGE OR STUCK CARTRIDGE**

---

**STOPPAGE**

If stoppage occurs when firing:

- Put the weapon on safe and cycle the weapon.
- Observe if cartridge has been ejected; check to see if cartridge is stuck in the weapon. If cartridge is stuck in the weapon perform stuck cartridge procedures.
- Check to see if weapon is out of ammunition, reload and continue firing.

**STUCK CARTRIDGE**

If stuck cartridge occurs during firing:

- Put the weapon on safe.
- Unload the weapon (WP 0005 00) keeping the weapon pointed in a safe direction.
- Insert a cleaning rod down the muzzle end of barrel and push the stuck cartridge out of the chamber. Be ready to catch the round.
- Check the primer of the ejected cartridge:
  - If the primer has been dented by the firing pin (light strike) dispose of the cartridge in accordance with local procedures.
  - If there is no indication of round misfire, reload and try to fire round.
- If the problem continues notify the unit armor for further assistance.

**END OF WORK PACKAGE**



**OPERATION UNDER USUAL CONDITIONS –  
IMMEDIATE ACTION**

---

Immediate Action is the action performed immediately by the firer any time there is an unscheduled or unanticipated interruption of the shotgun operation. Immediate action should be practiced to the point that it occurs as a reflex action.

**WARNING**

During immediate action make certain the shotgun is pointed in a safe direction at all times.

To perform immediate action:

- Pull the fore-end rearward.
- Check the ejection port, if a cartridge is ejected push the fore-end forward and attempt to fire again.
- If the weapon still fails to fire, perform remedial action (WP 0008 00).

**END OF WORK PACKAGE**

0007 00-1/2 blank



**OPERATION UNDER USUAL CONDITIONS –  
REMEDIAL ACTION**

---

Remedial Action is the action performed to remedy a problem and place the shotgun back into operation after immediate action has been performed and proves ineffective.

**WARNING**

During remedial action make certain the shotgun is pointed in a safe direction at all times.

To perform remedial action:

- Clear the shotgun (WP 0005 00).
- Check the chamber and remove any type of obstruction caused by an empty or ruptured case, live round or forging matter (WP 0006 00).
- Reload magazine tube (WP 0005 00).
- Chamber a cartridge (WP 0005 00).
- Attempt to fire (WP 0005 00).
- Notify unit armorer if remedial action fails to correct problem.

**END OF WORK PACKAGE**

0008 00-1/2 blank



**OPERATION UNDER USUAL CONDITIONS –  
AUTHORIZED AMMUNITION**

---

**WARNING**

This is the only ammunition authorized for use in your shotgun. If it is not shown, it is not authorized.

Ammunition that fails to fire will be disposed of by authorized procedures.

When using the M1030 Breaching round, the use of hearing protection and eye protection (goggles) is required. Use double hearing protection within 2 meters from the target. Use single hearing protection from 2 to 8.5 meters from a weapon being fired.

**Table 1. Authorized Ammunition for  
Mossberg Model 500 and Model 590 Shotguns**

MODEL	CAPACITY (with one in chamber)	LETHAL	NON-LETHAL	IDENTIFICATION
500 and 590	6/5  9	# 00 BUCKSHOT M162 # 7 1/2 SHOT # 9 SHOT	M1012 Point Control M1013 Crowd Dispersal	LETHAL -2-3/4" NON-LETHAL – 3"
500 and 590	6/7  9	M1030 Breaching Cartridge		LETHAL -2-3/4"
500 and 590	6  9		MK242 MO D 0 Dummy Cartridge	INERT –2 3/4"

Protect ammunition from mud, sand, and water. If the ammunition gets wet or dirty, wipe it off at once with a clean, dry, rag (item 7, WP 0045 00). Wipe off light corrosion as soon as it is discovered. Turn in heavily corroded cartridges.

Do not expose ammunition to the direct rays of the sun. If the powder is hot, excessive pressure may develop when the weapon is fired.

Do not oil or grease ammunition. Dust and other abrasives that collect on greasy ammunition may cause damage to the operating parts of the machine gun. Moreover, oiled cartridges produce excessive chamber pressure.

Do not fire dented cartridges or otherwise defective rounds.

For information on care, handling, preservation and packing of ammunition refer to WP 0031 00.

**END OF WORK PACKAGE**



**OPERATION UNDER UNUSUAL CONDITIONS**

---

**EXTREME COLD (BELOW 32° F (0° C))****NOTE**

If weapons are exposed to temperatures changing quickly from warm to cold, condensation may form causing rusted parts.

If weapons are exposed to conditions that cause condensation, wipe condensation from exposed metal surfaces, and lubricate weapon. Ensure weapon function after exposure to extreme weather changes.

**HOT AND HUMID OR SALTY AIR**

Inspect shotgun frequently for rust. Lightly oil metal parts.

**HOT AND DRY**

Clean shotgun daily (or more often if needed).

In sandy or dusty areas, wipe shotgun free of oil to prevent sand and dust from collecting on the surface and on moving parts.

**IMMERSION IN WATER**

Drain water out of shotgun.

Unload shotgun.

If possible, wipe ammunition dry.

Field strip, wipe dry, and lube shotgun as soon as possible.

Clean and lubricate weapon, notify unit maintenance.

**END OF WORK PACKAGE**



**OPERATOR TROUBLESHOOTING PROCEDURES**

---

This work package contains unit-troubleshooting information for locating and correcting most of the operating troubles that may develop in the shotgun. Each malfunction for a part, assembly, or subassembly is followed by a list of tests or inspections, which will help you to determine corrective actions to take. You should perform the tests/inspections and corrective actions in the order listed.

This manual cannot list all possible malfunctions that may occur, nor all tests or inspections and corrective actions. If a malfunction is not listed (except when malfunction or cause is obvious) or is not corrected by listed corrective actions, notify direct support maintenance.

**TROUBLESHOOTING PROCEDURES**

Refer to symptom index or troubleshooting table for malfunctions, tests/inspections, and corrective action.

**SYMPTOM INDEX**

<b>Troubleshooting Procedure</b>	<b>Work Package/Page</b>
Ammunition double feeds .....	0011 00-4
Cartridge fails to extract or eject .....	0011 00-4
Operation is sluggish .....	0011 00-3
Shotgun fails to load or feed .....	0011 00-3
Shotgun will not fire.....	0011 00-2

**OPERATOR TROUBLESHOOTING PROCEDURES (cont)**

---

**Table 1. Operator Troubleshooting Procedures****SYMPTOM**

Shotgun will not fire.

**MALFUNCTION**

Safety is in rearward "SAFE" position.

**CORRECTIVE ACTION**

Move safety to forward "FIRE" position.

**MALFUNCTION**

No ammunition in chamber or magazine.

**CORRECTIVE ACTION**

Load shotgun.

**MALFUNCTION**

Chamber is empty.

**CORRECTIVE ACTION**

Pump cartridge into chamber.

**MALFUNCTION**

Ammunition is faulty.

**CORRECTIVE ACTION**

Remove defective cartridges and use new ammunition.

**MALFUNCTION**

Firing pin and/or extractors are burred, excessively worn or broken.

**CORRECTIVE ACTION**

Notify unit maintenance.

**MALFUNCTION**

Bolt assembly will not slide forward by pushing fore end forward.

**CORRECTIVE ACTION**

If fore end will not slide forward, notify unit maintenance.

**SYMPTOM**

Shotgun fails to load or feed.

**MALFUNCTION**

Obstruction in chamber.

**CORRECTIVE ACTION**

Remove obstruction in chamber.

**MALFUNCTION**

Foreign material in magazine tube and in the left and right slide arm supports of the action slide.

**CORRECTIVE ACTION**

Remove foreign matter. Clean and lube weapon.

**SYMPTOM**

Operation is sluggish.

**MALFUNCTION**

Weapon is dirty, lacks of lubrication, and/or has carbon or burrs.

**CORRECTIVE ACTION**

Clean and lubricate shotgun.

**SYMPTOM**

Ammunition double feeds.

**MALFUNCTION**

Cartridge stop or cartridge interrupter bent or missing.

**CORRECTIVE ACTION**

Notify unit maintenance.

**SYMPTOM**

Cartridge fails to extract or eject.

**MALFUNCTION**

Extractor or ejector are burred, broken or missing.

**CORRECTIVE ACTION**

Notify unit maintenance.

**END OF WORK PACKAGE**



**PREVENTIVE MAINTENANCE CHECKS AND SERVICES - OPERATOR**

---

**GENERAL**

This work package applies to all shotguns 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.

**END OF WORK PACKAGE**



**PREVENTIVE MAINTENANCE CHECKS AND SERVICES - OPERATOR**

**WARNING**

Before starting an inspection, be sure to clear the weapon. Do not actuate the trigger until the weapon has been cleared. Inspect the chamber to be sure that it is empty. Check to see that there are no obstructions in the barrel.

**GENERAL:** Inspect all assemblies for missing, broken, or loose parts. Inspect parts for cracks, dents, burrs, excessive wear, rust, or corrosion. Make sure all parts are cleaned and lubricated. Do not use cleaning solvents or lubricants on any composite/rubber components. Inspect external surfaces for adequate finish. Refinish if necessary using solid film lubricant (item 4, WP 0047 00). Repair or replace authorized defective parts or notify direct support maintenance if repair or replacement is not authorized.

**Table 1. Operator Preventive Maintenance Checks and Services**

Item	Interval	Man-Hours	Item to be Checked	Procedures	Not Fully Mission Capable if:
1	B/A		Shotgun	Check for missing pins, screws, and locking caps.	Pins, screws, and locking caps are missing.
	B/A			Check overall finish on metal surfaces.	1/3 of receiver finish is missing (shiny).
2	B		Safety	Cock shotgun. Move safety rearward to "SAFE" position and pull trigger.	Hammer releases and strikes firing pin.
3	B/A		Action Lock	Depress action lock. Fore end should slide back smoothly.	Fore end does not move.
4	B/A		Trigger	Move safety forward to "FIRE" position and pull trigger.	Hammer does not release.
5	B/A		Barrel	Check bore and chamber for obstructions and abnormalities.	Obstruction in bore or barrel is damaged.
				Check barrel for looseness.	Barrel is loose.
				Inspect barrel for rust, cracks, dents, and bulges.	Barrel is rusted, cracked, dented, or bulging.
				Check barrel for straightness.	Barrel is noticeably bent.
6	B/A		Fore End and Stock	Inspect parts for cracks and holes.	Fore End or Stock is cracked or broken.

**PREVENTIVE MAINTENANCE CHECKS AND SERVICES - OPERATOR (cont)**

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**Table 1. Operator Preventive Maintenance Checks and Services (cont)**

Item	Interval	Man-Hours	Item to be Checked	Procedures	Not Fully Mission Capable if:
7	B/A		Recoil Pad	Inspect for deterioration.	Recoil pad is split or missing.
8	B/A		Front Sight	Inspect for missing front bead.	Front sight missing or loose.
9	B/A		Sling and Swivels	Sling or swivel(s) are present and function properly.	Sling or swivel(s) are missing; do not function properly.

**END OF WORK PACKAGE**

## OPERATOR MAINTENANCE – FIELD STRIPPING

### DISASSEMBLY

#### WARNING

Before starting an inspection, be sure to clear the weapon. Do not actuate the trigger until the weapon has been cleared. Inspect the chamber to be sure that it is empty, and check to see that there are no obstructions in the barrel.

Move the safety (1) to "SAFE" (fully to the rear).

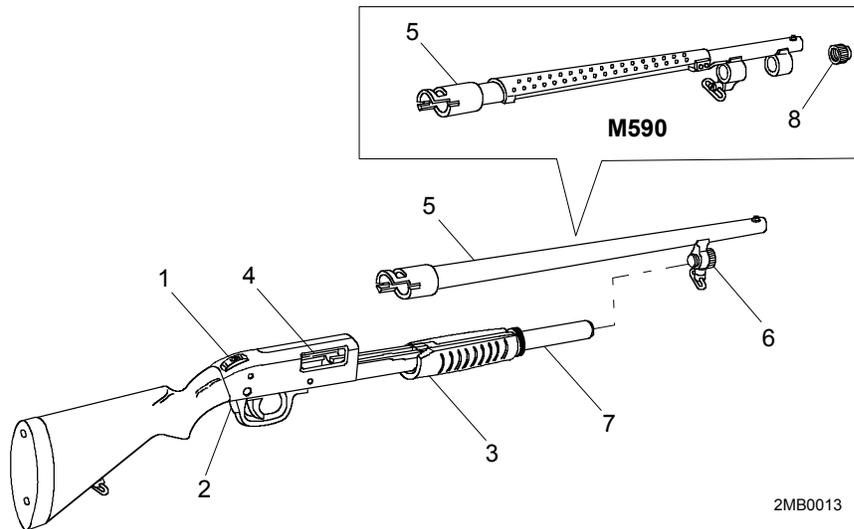
Depress the action lock lever (2) and open the action by sliding the forearm fully rearward.

Move the forearm (3) slowly forward from the rearward position until the front of the bolt is in the middle of the ejection port (4).

Unlock barrel assembly (5) by turning the takedown screw assembly (6) counterclockwise until screw threads are completely disengaged from the end of the magazine tube (7) (Model 500 only).

Unlock barrel assembly (5) by turning magazine cap (8) counterclockwise until screw threads are completely disengaged from the end of the magazine tube (7) (Model 590 only).

Remove the barrel (5) from the receiver with a gentle back and forth rotational movement while pulling the barrel from the receiver assembly.



2MB0013

## OPERATOR MAINTENANCE – FIELD STRIPPING (cont)

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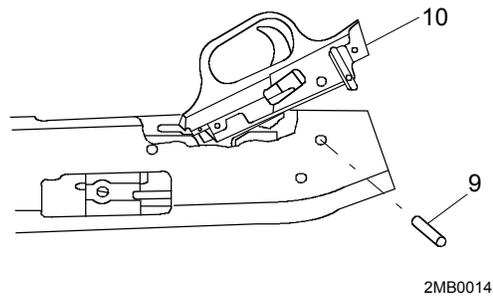
### DISASSEMBLY (cont)

#### CAUTION

Do not allow the hammer to fall when removing the trigger group from the receiver.  
To do so may result in damage to equipment.

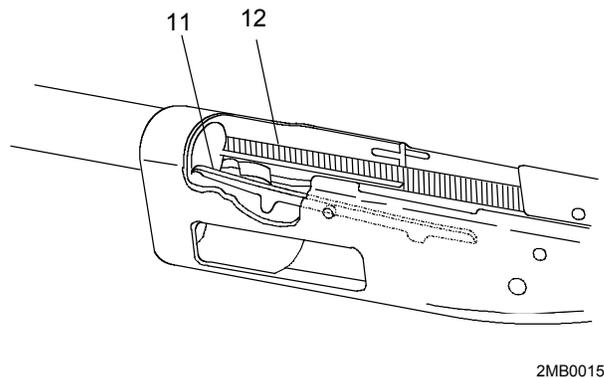
Position the shotgun on a clean surface with the trigger guard upward.

Push out trigger housing retainer pin (9) from the receiver. Rotate the rear of the trigger mechanism (10) upward and remove the trigger mechanism (10) from the receiver.



Remove cartridge interrupter (11) from the ejection port side of the receiver.

Remove the cartridge stop (12) from the opposite side of the receiver.



#### NOTE

Note the position of the bolt (13); bolt slide (14) and action bar assembly (16), as these parts must be in the same relationship during assembly.

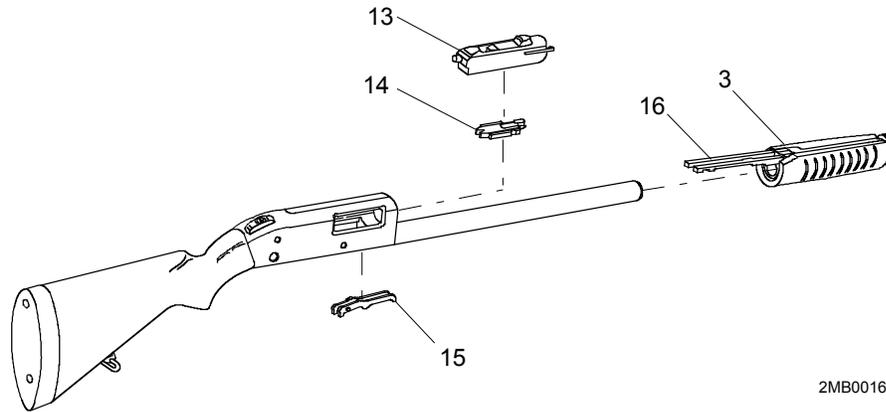
Move the forearm/action slide assembly rearward until the bolt assembly (13) and bolt slide (14) are three quarters of the way rearward.

When the bottom of the bolt slide (14) is aligned with the clearance cuts in the side of the receiver, lift the bolt slide upward and out of the receiver.

Remove fore end assembly (3) from magazine tube.

Push bolt (13) out the front of the receiver assembly.

Compress and remove elevator (15) from receiver.



2MB0016

Further disassembly of components is not authorized.

**ASSEMBLY**

Ensure the safety (1) is in "SAFE" (fully to the rear).

Insert compressed elevator (15) into receiver.

Depress ejector and insert bolt (13) into receiver.

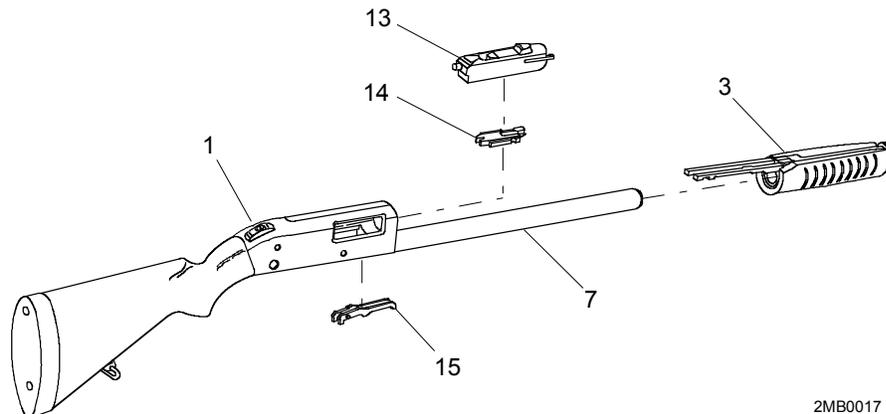
Push sides of elevator (15) down beside the bolt and slide the bolt (13) back.

Install fore end assembly (3) over magazine tube (7). Insert action bars (16) into slots in the front of the receiver on either side of the magazine tube (6).

**NOTE**

Moving the fore end assembly (3) approximately three quarters of the way forward will ease installation of the bolt slide (14).

Insert bolt slide (14), lower the front end and insert rear end first so lug fits in slot in bolt lock and is retained by the action bar.



2MB0017

**OPERATOR MAINTENANCE –  
FIELD STRIPPING (cont)**

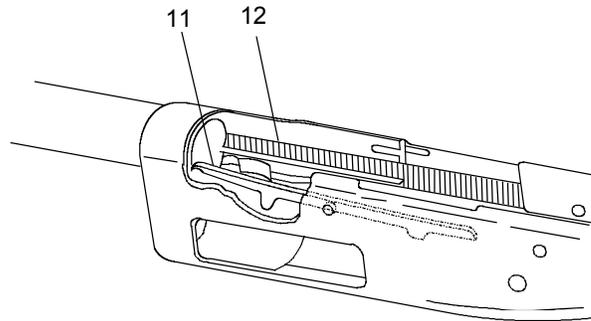
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**ASSEMBLY (cont)**

Push down bolt slide (14) and move action slide (3) to rear until engaged.

Move the bolt (13), bolt slide (14), and action (3) forward.

Insert interrupter (11) and cartridge stop (12).



2MB0015

**NOTE**

Hammer must be in the fully cocked position to allow the trigger housing to be inserted in the receiver.

Hold the cartridge stop (12) and cartridge interrupter (11) in place firmly against the receiver walls with one hand and grasp the trigger mechanism assembly (10) with the other.

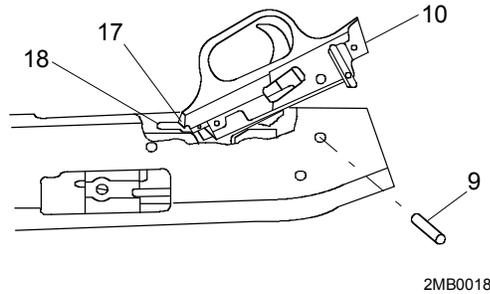
Insert the lugs (17) on each side of the front cover of the trigger mechanism (10) into the slots (18) on each side of the receiver.

Ease the rear of the trigger mechanism (10) down and into position. **DO NOT FORCE!**

**NOTE**

If the trigger mechanism (10) does not fit into place easily, check that all internal pins in the trigger mechanism (10) are flush with the side of the housing and that the cartridge stop and cartridge interrupter are positioned correctly.

Align the trigger mechanism pin hole in the trigger mechanism with those in the receiver and insert the trigger housing retainer pin (9) until fully flush on both sides.



**WARNING**

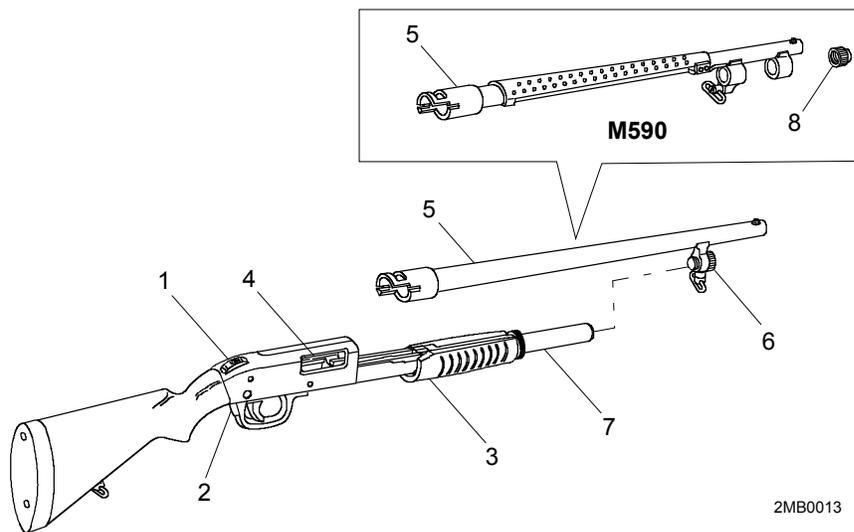
Visually inspect the inside of the barrel to ensure it is free of obstructions, excessive oil or hot grease. Failure to do so may result in personal bodily injury from explosion or damage to the weapon when the weapon is fired.

Depress the action lock lever (2) and move the forearm (3) rearward until the front of the bolt is in the middle of the ejection port (4).

**NOTE**

Be sure the barrel is firmly seated to the receiver by looking through the ejection port. The barrel extension must rest firmly against the corresponding cut in the top of the receiver.

Slide the barrel (5) into the receiver and tighten the takedown screw (6) fully clockwise finger tight only (Model 500 only).

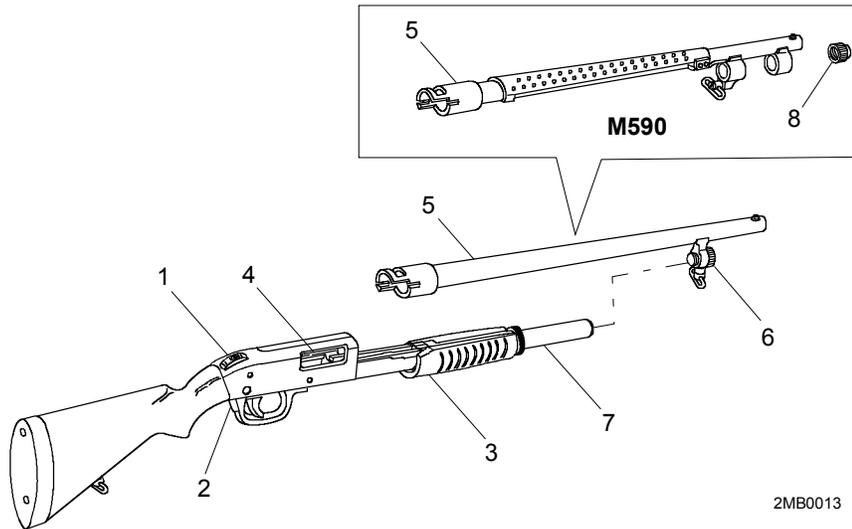


**OPERATOR MAINTENANCE –  
FIELD STRIPPING (cont)**

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**ASSEMBLY (cont)**

Slide the barrel (5) into the receiver and tighten the magazine cap (5) fully clockwise finger tight only (Model 590 only).



2MB0013

Perform safety/function check (WP 0017 00).

**END OF WORK PACKAGE**

**OPERATOR MAINTENANCE –  
CLEANING**

---

**NOTE**

When firing 12 Gauge Non-Lethal Cartridges (i.e., M1012, M1013, and XM1116 Cartridges), a greater build-up of residue in the weapon chamber can be expected. Using the Non-Lethal Cartridge will require more frequent cleanings.

Cleaning should be performed:

- After each firing.
- After any exposure to extreme environmental conditions.
- Minimum of every 90 days.

**BOLT ASSEMBLY**

Use bore cleaning brush with CLP/RBC (item 2 or 8, WP 0047 00). Clean all carbon and powder residue from the extractor and bolt face.

Carefully clean under the hooks of the extractors.

Wipe with clean, dry wiping rag (item 7, WP 0047 00).

**BARREL**

Use bore cleaning brush with CLP/RBC (item 2 or 8, WP 0047 00).

Wipe the barrel chamber and bore using a clean, dry patch.

Use a cleaning rod with clean dry patch for each pass through the barrel. Continue process until the patch comes out clean.

**METAL SURFACES**

Using a fiber or nylon brush and CLP (item 2, WP 0047 00) clean all metal surfaces.

Wipe with clean, dry wiping rag (item 7, WP 0047 00).

**RUBBER OR COMPOSITE SURFACES**

Clean with soap and water. Wipe dry with clean, dry wiping rag (item 7, WP 0047 00).

**LUBRICATION**

Lubricate all metal surfaces in accordance with WP 0016 00.

For Air Force only – Air Force users refer to AFTTP (1) 3-2.46, AFTTP (1) 3-2.56 and AFTTP (1) 3-2.60. Air Force personnel shall use only those cleaners, lubricants, or preservatives listed in the Technical Order. No other cleaners, lubricants, or preservatives are authorized.

**END OF WORK PACKAGE**



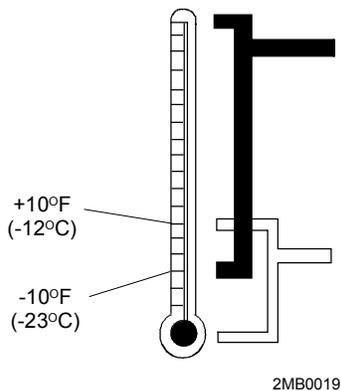
## OPERATOR MAINTENANCE – LUBRICATION

---

Under all but the coldest arctic conditions, LSA (item 6, WP 0047 00) or CLP (item 2, WP 0047 00) are the lubricants to use on your shotgun. Remember to remove excessive oil from the bore before firing.

### NOTE

Lubrication instructions are mandatory. Do not mix lubricants on the same weapon. The weapon must be thoroughly cleaned during change from one lubricant to another. Cleaning solvent (available to unit maintenance) is recommended for cleaning during change from one lubricant to another. Only lubricants and cleaners specified in this manual are authorized for use on this weapon.



CLP – Cleaner, lubricant and preservative (item 2, WP 0047 00).

LSA – Weapons lubricating oil, semi-fluid (item 6, WP 0047 00).

Between 10°F (-12°C) and -10°F (-23°C) use CLP, LSA or LAW. Below -10°F (-23°C) use only LAW.

LAW – Weapons lubricating oil, arctic (item 5, WP 0047 00).

Lightly lube – A film of oil barely visible to the eye.

After firing, field strip your shotgun (WP 0014 00).

Clean in accordance with WP 0015 00.

Wipe dry and lube as required. Inspect and run a lightly oiled swab (item 9, WP 0047 00) through the bore and chamber.

If your shotgun isn't used, it still needs complete cleaning and lubing at least every 30 days. (Unusual conditions could shorten this interval.)

**END OF WORK PACKAGE**



**FUNCTION CHECK**

---

A safety/function check should be performed anytime the shotgun is reassembled. This check will indicate whether the shotgun has been properly assembled.

A properly executed safety/function check can also reveal many obvious malfunctions that can occur.

**WARNING**

Before starting an inspection, be sure to clear the weapon. Do not actuate the trigger until the weapon has been cleared. Inspect the chamber to be sure that it is empty, and check to see that there are no obstructions in the barrel.

Clear the shotgun (WP 0004 00).

Move the safety rearward to the "SAFE" position.

Close the action fully. The action lock should be fully down.

Pull the trigger; the hammer should NOT fall.

Move the safety forward to the "FIRE" position.

Pull the trigger; hammer should fall and the lock lever should be fully up.

Hold trigger to the rear; recock the weapon by moving the forearm fully to the rear and then forward.

Release the trigger; hammer should NOT fall and trigger should return to its forward position.

Pull trigger; hammer should fall and the lock lever should be fully up.

Release trigger and recock the weapon by moving the forearm fully to the rear and then forward. The hammer should NOT fall.

Move the safety rearward to the "SAFE" position.

**NOTE**

Perform the following steps only if DUMMY rounds are available.

Load two DUMMY shot-shells into the magazine tube (WP 0004 00).

Depress the action lever and open the action fully. Dummy shot-shell should feed onto the elevator.

Release action lever and close action fully. Dummy shot-shell should feed into the chamber.

Depress the action lever and open the action fully. The first dummy shot-shell should be extracted and ejected and the second dummy shot-shell should feed onto the elevator.

Release action lock lever and close the action fully. Second dummy shot-shell should feed into the chamber.

Depress the action lever and open the action fully. The second dummy shot-shell should be extracted and ejected.

**END OF WORK PACKAGE**



**CHAPTER 3**  
**UNIT MAINTENANCE**



**SERVICE UPON RECEIPT OF MATERIEL**

**Table 1. Service Upon Receipt**

**WARNING**

Before starting an inspection, be sure to clear the weapon. Do not actuate the trigger until the weapon has been cleared. Inspect the chamber to be sure that it is empty. Check to see that there are no obstructions in the barrel.

LOCATION ITEM		ACTION	REMARKS
1. Container	Basic Issue Items	Check unpacked equipment. <ul style="list-style-type: none"> <li>Inspect the equipment for damage incurred during shipment. If the equipment has been damaged, report the damage on SF 364, Report of Discrepancy (ROD). Air Force users shall submit a Supply Discrepancy Report (SDR) in accordance with the guidance in Technical Order 00-35D-54.</li> <li>Check the equipment against the packing slip to see if the shipment is complete. Report all discrepancies in accordance with instructions of DA PAM 750-8.</li> <li>Check to see whether the equipment has been modified.</li> </ul>	
2. Shotgun  Shotgun	Barrel Assembly	<ul style="list-style-type: none"> <li>Remove volatile corrosion inhibitor (VCI) from barrels. Discard.</li> <li>Field strip weapon and inspect for missing parts.</li> <li>Clean and lubricate.</li> <li>Reassemble.</li> <li>Perform function check (WP 0017 00).</li> </ul>	

**END OF WORK PACKAGE**



**UNIT MAINTENANCE INSTRUCTIONS**

---

This work package contains information regarding repair parts, special tools, and support equipment and instructions for service upon receipt, PMCS, and unit maintenance to keep the machine gun in good repair.

**COMMON TOOLS AND EQUIPMENT**

For authorized common tools and equipment, refer to the Modified Table of Organization and Equipment (MTOE) (WP 0042 00) applicable to your unit.

**SPECIAL TOOLS, TMDE, AND SUPPORT EQUIPMENT**

There are no special tools for this item. Tools and test equipment are listed in WP 0034 00 of this manual. There is no Test, Measurement, and Diagnostic Equipment (TMDE) for this item.

**REPAIR PARTS**

Repair parts are listed and illustrated in the repair parts and special tools list (RPSTL) (WP 0036 00 through WP 0042 00) covering unit and direct support maintenance for this equipment.

**END OF WORK PACKAGE**



**UNIT MAINTENANCE TROUBLESHOOTING PROCEDURES**

---

This work package contains unit-troubleshooting information for locating and correcting most of the operating troubles that may develop in the shotgun. Each malfunction for a part, assembly, or subassembly is followed by a list of tests or inspections, which will help you to determine corrective actions to take. You should perform the tests/inspections and corrective actions in the order listed.

This manual cannot list all possible malfunctions that may occur, nor all tests or inspections and corrective actions. If a malfunction is not listed (except when malfunction or cause is obvious) or is not corrected by listed corrective actions, notify direct support maintenance.

**TROUBLESHOOTING PROCEDURES**

Refer to symptom index or troubleshooting table for malfunctions, tests/inspections, and corrective action.

**SYMPTOM INDEX**

<b>Troubleshooting Procedure</b>	<b>Work Package/Page</b>
Ammunition double feeds .....	0020 00-3
Cartridge fails to extract or eject .....	0020 00-3
Shotgun fails to load or feed .....	0020 00-2
Shotgun will not fire.....	0020 00-2

**UNIT MAINTENANCE TROUBLESHOOTING PROCEDURES (cont)**

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**Table 1. Unit Troubleshooting Procedures****SYMPTOM**

Shotgun will not fire.

**MALFUNCTION**

Firing pin well in bolt assembly is obstructed or dirty.

**CORRECTIVE ACTION**

Notify direct support maintenance.

**MALFUNCTION**

Firing pin is burred, excessively worn or broken.

**CORRECTIVE ACTION**

Notify direct support maintenance.

**MALFUNCTION**

Bolt assembly will not slide forward by pushing fore end forward.

**CORRECTIVE ACTION**

Clean, lube and reassemble properly. If fore end will not slide forward, notify direct support maintenance.

**SYMPTOM**

Shotgun fails to load or feed.

**MALFUNCTION**

Action slide does not function properly.

**CORRECTIVE ACTION**

If action slide is defective, notify direct support maintenance.

**MALFUNCTION**

Magazine spring weak or broken

**CORRECTIVE ACTION**

Notify direct support maintenance.

**SYMPTOM**

Ammunition double feeds.

**MALFUNCTION**

Cartridge stop or cartridge interrupter bent or missing.

**CORRECTIVE ACTION**

Notify direct support maintenance.

**SYMPTOM**

Cartridge fails to extract or eject.

**MALFUNCTION**

Cartridge extractors and/or ejector burred, bent, broken or missing.

**CORRECTIVE ACTION**

Notify direct support maintenance.

**END OF WORK PACKAGE**



**UNIT MAINTENANCE –  
PREVENTIVE MAINTENANCE CHECKS AND SERVICES**

**WARNING**

Before starting an inspection, be sure to clear the weapon. Do not actuate the trigger until the weapon has been cleared. Inspect the chamber to be sure that it is empty. Check to see that there are no obstructions in the barrel.

**Table 1. Preventive Maintenance Checks and Services**

**NOTE**

Unless otherwise stated, inspections are quarterly.

Item	Interval	Man-Hours	Item to be Checked	Procedures	Not Fully Mission Capable if:
1	Q		Shotgun	Check for missing pins, screws, and locking caps.  Check metal surface finish; touch up if necessary.  Check sling for tears or worn webbing.  Check for broken or missing swivels.  Function check.	Pins, screws, or locking caps are missing.  Missing one third or more of its exterior protective finish.

**NOTE**

Solid Film Lubricant (SFL) is the authorized touchup for the shotgun and may be used on up to one third of the exterior receiver finish of the weapon.

FOR CONUS USE ONLY: Solid Film Lubricant (item 4, WP 0047 00) may be used as a touchup without limitation on the receiver assembly. This is to say that the units which DO NOT fall under the category of Divisional Combat Units of rapid deployment type units may have up to 100% of the exterior surface of the receiver assembly protected with SFL. Prior to application of SFL, the surface must be thoroughly cleaned and inspected for corrosion and/or damage. If corroded or damaged, the part must be repaired or replace prior to application of SFL. Continued use under combat conditions would result in an unprotected surface when the SFL wears off. This would result in a large light reflecting surface and accelerated deterioration of the unprotected surface. Therefore, Divisional Combat Units, and units that fall under the definition of Rapid Deployment type must adhere to the limitation of NOT over one third of their exterior surface covered by SFL.

If the shotgun is missing one third or more of its exterior receiver protective finish, resulting in an unprotected/light-reflecting surface, this missing finish will be considered a shortcoming. This shortcoming requires action to obtain a replacement weapon. Once a replacement has been received, evacuate the original weapon to depot for overhaul.

**UNIT MAINTENANCE –  
PREVENTIVE MAINTENANCE CHECKS AND SERVICES (cont)**

**Table 1. Unit Preventive Maintenance Checks and Services (cont)**

Item	Interval	Man-Hours	Item to be Checked	Procedures	Not Fully Mission Capable if:
5	Q		Trigger Guard Pin	Check pin(s) for burrs, bends, and looseness of installation.	Pin(s) are loose or missing.
6	Q		Trigger Assembly	Check trigger assembly for proper operation.	Trigger hangs loose, will not move, or is bent or broken.
7	Q		Carrier	Check carrier for proper operation.	Carrier hangs loose, will not move, or is bent or broken.
8	Q		Magazine Cap	Check magazine cap for proper installation, burrs, and stripped threads.	Threads are stripped; cap is burred, or improperly installed.
9	Q		Barrel	Check barrel for looseness.  Inspect barrel for rust, cracks, dents, and bulges.  Check barrel for straightness.	Barrel is loose.  Barrel is rusted, cracked, dented, or bulging.  Barrel is noticeably bent.
10	Q		Butt Stock	Inspect for cracks and breakage; looseness.	Butt plate is loose, cracked or broken; ; creates hazard to shooter.
11	Q		Front Sight	Inspect for looseness or missing front sight.	Sight is loose or missing.
12	Q		Fore End Assembly	Check action slide assembly arms for excessive wear, burrs, and straightness.  Inspect for cracks.	Action slide assembly arms are bent, worn or broken.  Structural strength is impaired; create hazard to shooter.

14	Q		Bolt Assembly	<p>Check bolt for freedom of movement.</p> <p>Check bolt lock pinhole for burrs, excessive wear, or warping.</p> <p>Check for broken or missing bolt lock.</p>	<p>Bolt will not move.</p> <p>Bolt lock pinhole is burred, worn, or warped.</p> <p>Pin is broken or missing.</p>
15	Q		Ejector	<p>Check for burrs, excessive wear and straightness.</p>	<p>Ejector s burred, excessively worn, or bent.</p>
16	Q		Receiver	<p>Check that magazine tube is secured to the receiver.</p> <p>Check tube for dents, burrs, and damage that will restrict the passage of ammunition through the magazine tube.</p> <p>Check for rust and corrosion.</p>	<p>Magazine tube is loose.</p> <p>Magazine tube is dented, burred, or damaged and will not allow the passage of ammunition.</p> <p>Tube is rusted or corroded.</p>

END OF WORK PACKAGE



**UNIT MAINTENANCE OF  
MOSSBERG 12-GAUGE SHOTGUN, MODEL 500, NSN 1005-01-295-1832, P/N 50476;  
MOSSBERG 12-GAUGE SHOTGUN, MODEL 590, NSN 1005-01-251-8578, P/N 11788A12**

This task covers: a. Disassembly b. Inspection/Repair c. Assembly

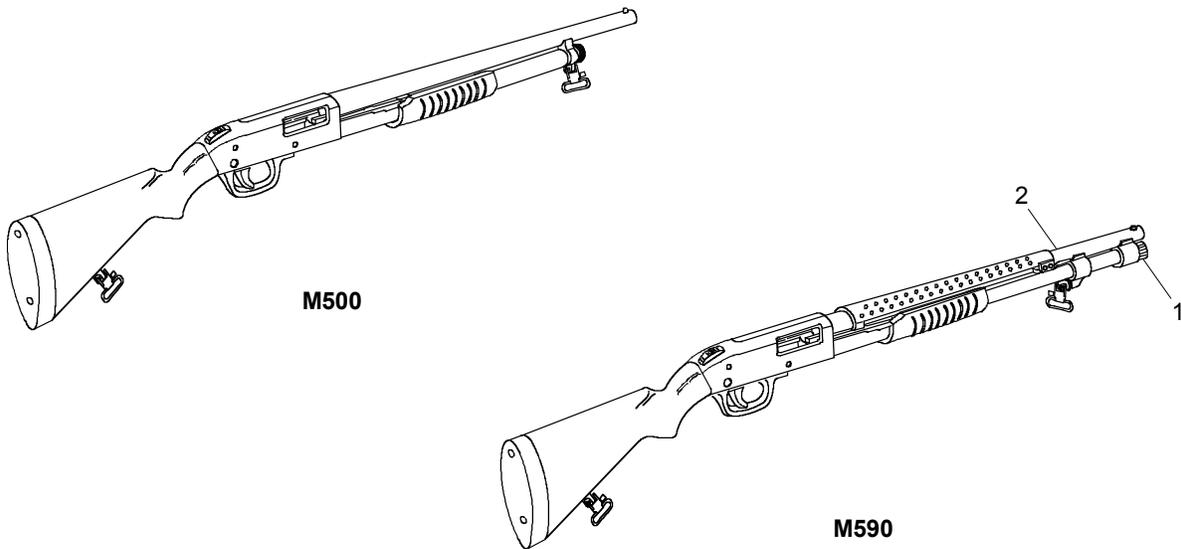
**INITIAL SETUP**

Tools and Special Tools:  
Tool Kit, Small Arms Repairman,  
P/N SC 5180-95-B71

Equipment Condition:  
Shotgun field stripped (WP 0014 00)

**DISASSEMBLY**

If damaged, remove magazine cap (1) from barrel assembly (2) (M590 only).



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**INSPECTION/REPAIR**

Check for broken, missing, or damaged parts.

For repair of Fore End Assembly refer to WP 0023 00.

For repair of Barrel Assembly refer to WP 0024 00.

For repair of Stock Assembly refer to WP 0025 00.

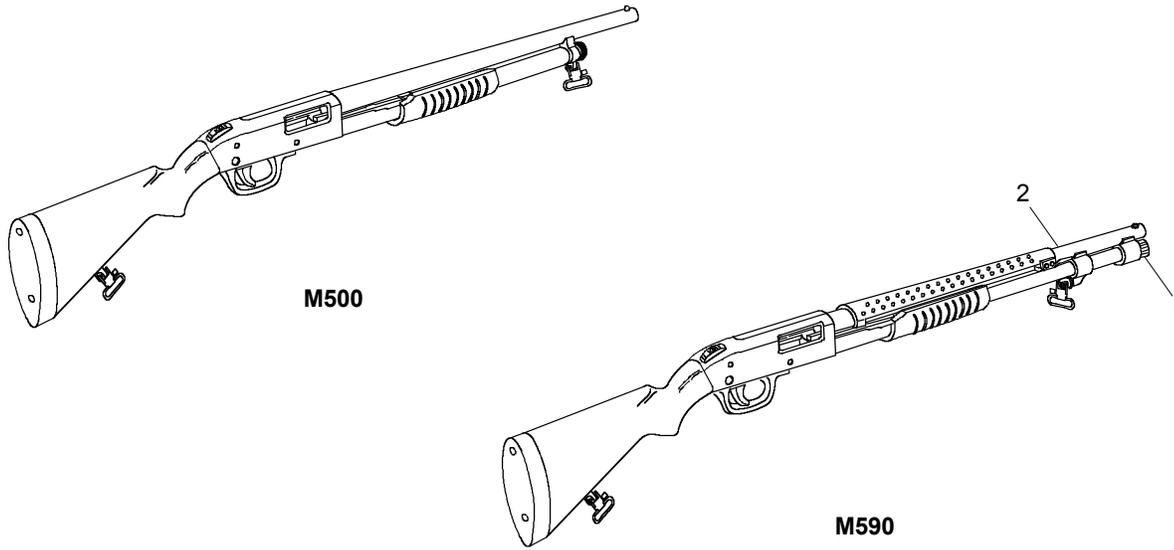
Check for damage to internal threads in magazine cap (1) (M590 only).

Repair is by replacement of authorized parts.

**UNIT MAINTENANCE OF  
MOSSBERG 12-GAUGE SHOTGUN, MODEL 500, NSN 1005-01-295-1832, P/N 50476;  
MOSSBERG 12-GAUGE SHOTGUN, MODEL 590, NSN 1005-01-251-8578, P/N 11788A12 (cont)**

**ASSEMBLY**

If removed, attach magazine cap (1) to barrel assembly (2) (M590 only).



2MB0020

**END OF WORK PACKAGE**

## UNIT MAINTENANCE OF FORE END ASSEMBLY, NSNA, P/N MOSS-05

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This task covers: a. Disassembly b. Inspection/Repair c. Assembly

### INITIAL SETUP

Tools and Special Tools:  
Tool Kit, Small Arms Repairman,  
P/N SC 5180-95-B71  
Tube Nut Tube (Fig. 1, WP 0030 00)

Equipment Condition:  
Barrel removed from receiver (WP 0014 00).

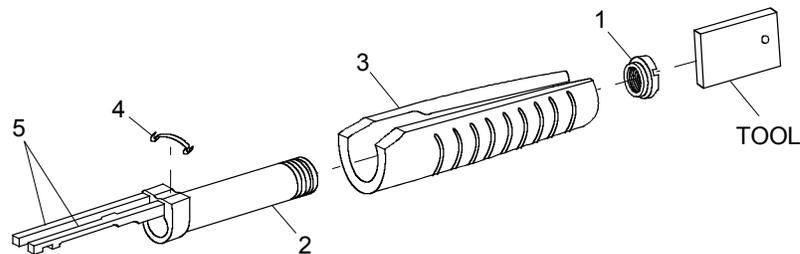
### DISASSEMBLY

Using tube nut tool, remove slide tube nut (1) from action slide assembly (2).

#### WARNING

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

Remove shotgun slide grip (3) and anti-rattle spring (4) from action slide assembly (2).



2MB0021

### INSPECTION/REPAIR

Check slide tube nut (1) for burred/worn threads.

Check slide grip (3) for cracks or breaks.

Check action slide assembly (2) for bent tube, burred/worn threads; cracked/bent action slide arms (5).

Check anti-rattle spring (4) for deformities that would prevent proper retention.

Repair is by replacement of authorized parts.

### ASSEMBLY

#### WARNING

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

Slide shotgun slide grip (3) onto action slide assembly (2) and install anti-rattle spring (4).

Screw slide tube nut (1) onto action slide assembly (2) and tighten using tube nut tool.

**END OF WORK PACKAGE**



**UNIT MAINTENANCE OF  
BARREL ASSEMBLY, NSN 1005-01-512-9286, P/N 3907MIL AND  
BARREL ASSEMBLY, NSNA, P/N 16019P**

This task covers: a. Disassembly b. Inspection/Repair c. Assembly

**INITIAL SETUP**

Tools and Special Tools:  
Tool Kit, Small Arms Repairman,  
P/N SC 5180-95-B71

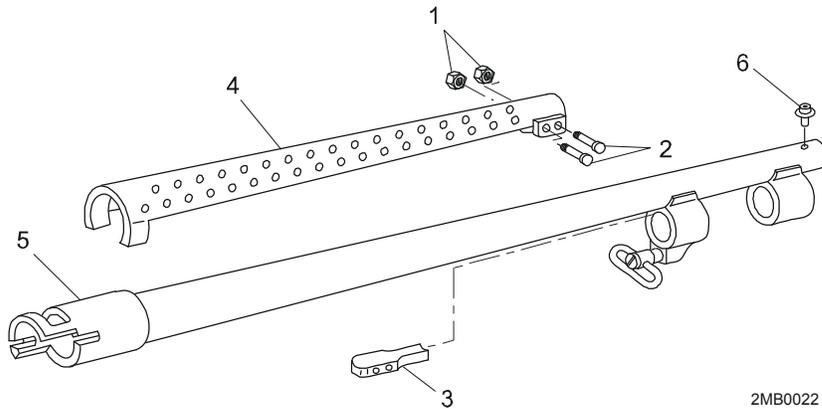
Materials/Parts:  
Nut, Self-locking (2), P/N 10494

Equipment Condition:  
Shotgun field stripped (WP 0014 00).

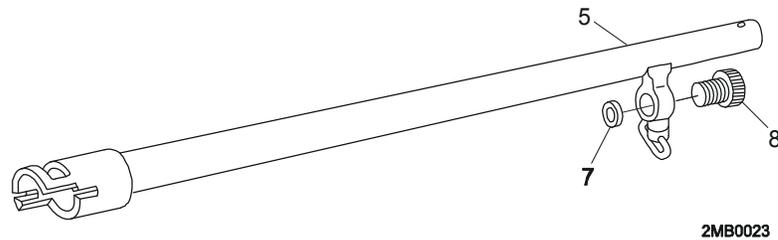
**DISASSEMBLY**

Remove two self-locking nuts (1), two screws (2), heat shield spacer (3), and heat shield (4) from barrel (5). Discard self-locking nuts (1) (M590 only).

Remove front sight (6) from barrel (5) (both models).



Remove retaining ring (7) and machine screw (8) from barrel (5) (M500 only).



**UNIT MAINTENANCE OF  
BARREL ASSEMBLY, NSN 1005-01-512-9286, P/N 3907MIL AND  
BARREL ASSEMBLY, NSNA, P/N 16019P (cont)**

**DISASSEMBLY (cont)**

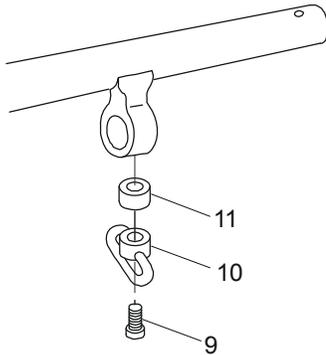
**NOTE**

Remove swivel only if damaged.

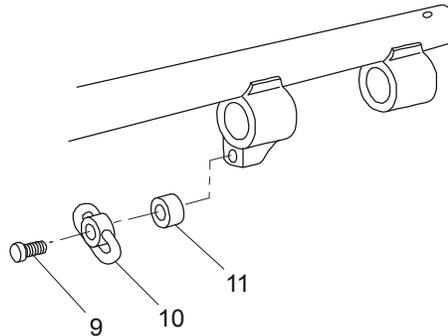
Removal of old /new swivel is the same for both models.

**OLD STYLE SWIVEL**

Remove screw (9), swivel (10), and sleeve bushing (11).



**M500**



**M590**

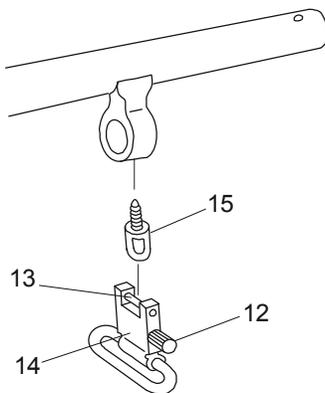
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**NEW STYLE SWIVEL**

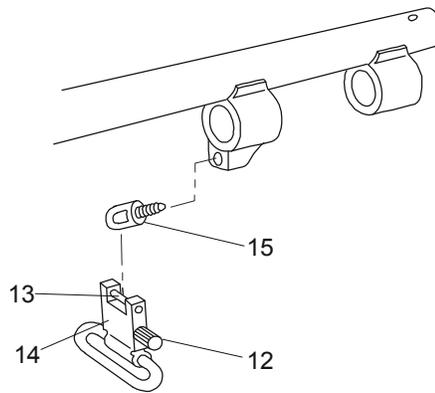
Turn locking knob (12) completely counterclockwise.

Push in on knob (12) to release swivel-locking bar (13) and remove sling swivel (14) from swivel post (15).

Turn swivel post (15) counterclockwise to remove.



**M500**



**M590**

2MB0024A

**INSPECTION/REPAIR**

Visually check barrel for straightness. If bent, notify direct support maintenance.

Check heat shield for bends/cracks; missing screws or nuts.

Check for missing/bent swivel. If old style swivel is damaged, replace with new style swivel.

Check for damaged sleeve bushing; burred/worn threads of machine screw (M500 only).

Repair is by replacement of authorized parts.

**ASSEMBLY****NOTE**

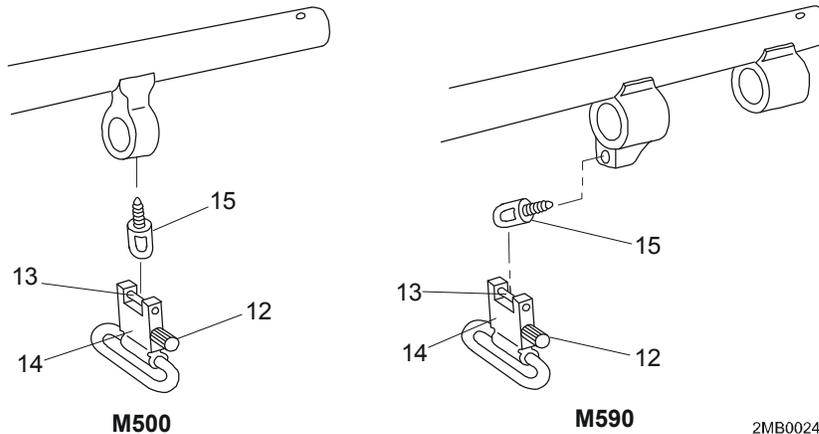
If old style swivel was removed, replace with new style swivel.

Install swivel post (15) by turning clockwise.

Turn locking knob (12) completely counterclockwise.

Push in on knob (12) to release swivel-locking bar (13) and insert through swivel post (15).

Tighten locking knob (12) by turning completely clockwise.



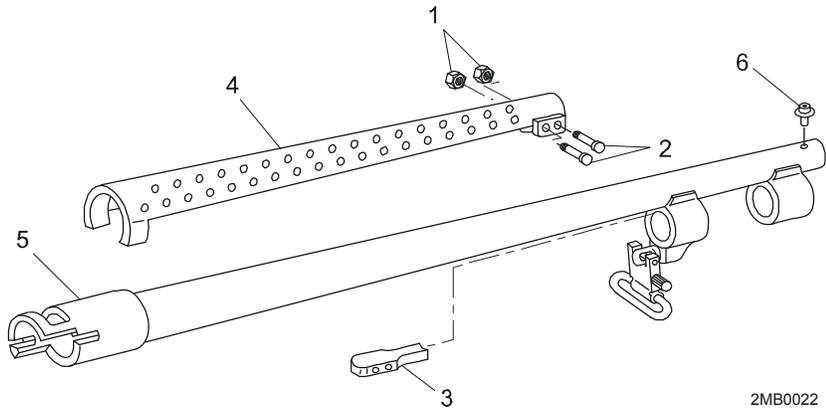
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**UNIT MAINTENANCE OF  
BARREL ASSEMBLY, NSN 1005-01-512-9286, P/N 3907MIL AND  
BARREL ASSEMBLY, NSNA, P/N 16019P (cont)**

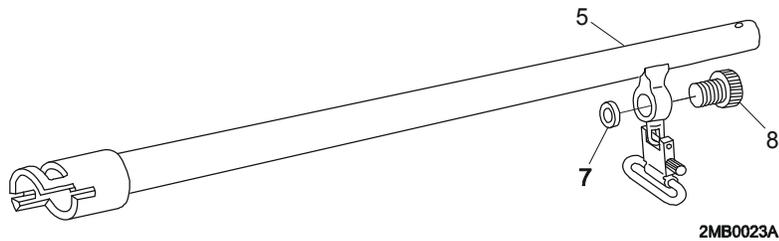
**ASSEMBLY**

Install front sight (6) from barrel (5) (both models).

Install heat shield (4), heat shield spacer (3), two screws (2) and two new self-locking nuts (1) to barrel (5) (M590 only).



Install retaining ring (7) and machine screw (8) on barrel (5) (M500 only).



**END OF WORK PACKAGE**

**UNIT MAINTENANCE OF  
STOCK, GUN, SHOULDER, NSN 1005-01-285-0612, P/N 14672MIL**

This task covers: a. Disassembly b. Inspection/Repair c. Assembly

**INITIAL SETUP**

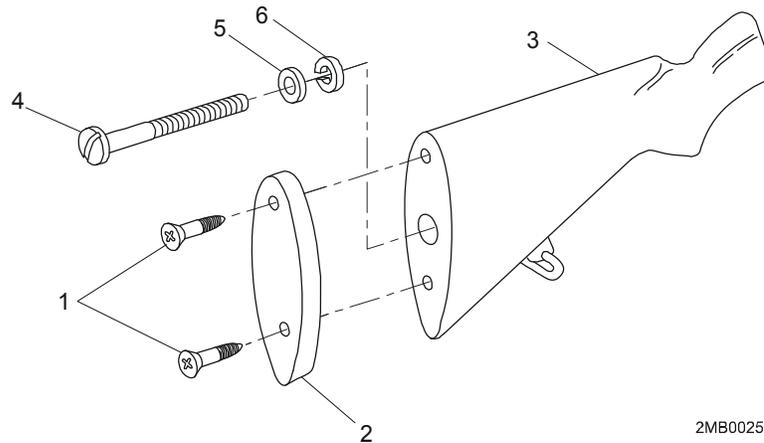
Tools and Special Tools:  
Tool Kit, Small Arms Repairman,  
P/N SC 5180-95-B71

Materials/Parts:  
Lock-washer, P/N 7613P

**DISASSEMBLY**

Remove two machine screws (1) and recoil pad (2) from stock (3).

Remove machine screw (4), lock-washer (5), and washer (6) from stock (3) and separate the stock from the receiver. Discard lock-washer (5).



**UNIT MAINTENANCE OF  
STOCK, GUN, SHOULDER, NSN 1005-01-285-0612, P/N 14672MIL (cont)**

**DISASSEMBLY (cont)**

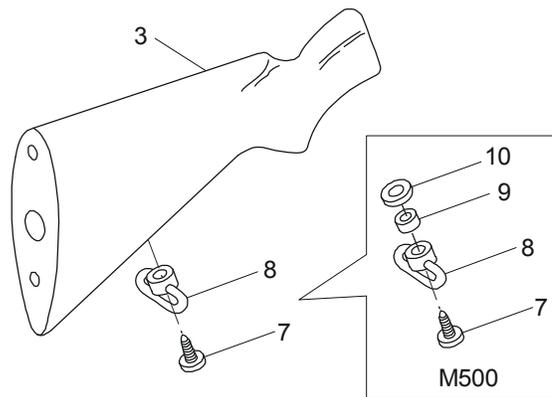
**OLD STYLE SWIVEL**

**NOTE**

Remove swivel only if damaged.

Removal of old /new swivel is the same for both models.

Remove screw (7), and swivel (8). Remove sleeve bushing (9) and swivel washer (10) (M500 only).



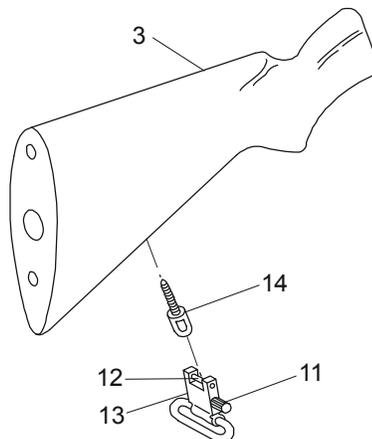
2MB0025A

**NEW STYLE SWIVEL**

Turn locking knob (11) completely counterclockwise.

Push in on knob (11) to release swivel-locking bar (12) and remove sling swivel (13) from swivel post (14).

Turn swivel post (14) counterclockwise to remove.



2MB0025B

**INSPECTION/REPAIR**

Check stock for cracks.

Check for missing/damaged sleeve bushing; burred/worn threads on machine screws.

Check for missing/bent swivel. If old style swivel is damaged, replace with new style swivel.

Check recoil pad for deterioration.

Repair is by replacement of authorized parts.

**ASSEMBLY****NOTE**

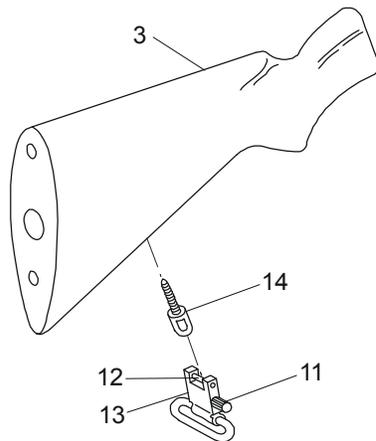
If old style swivel was removed, replace with new style swivel.

Install swivel post (14) by turning clockwise.

Turn locking knob (12) completely counterclockwise.

Push in on knob (11) to release swivel-locking bar (13) and insert through swivel post (14).

Tighten locking knob (12) by turning completely clockwise.

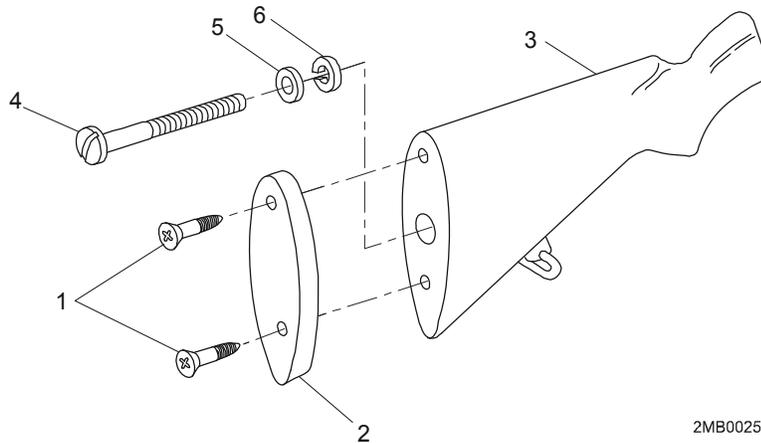


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**UNIT MAINTENANCE OF  
STOCK, GUN, SHOULDER, NSN 1005-01-285-0612, P/N 14672MIL (cont)****ASSEMBLY (cont)**

Align the stock with the receiver assembly. Place washer (6) and new lock-washer (5) on shaft of machine screw (4); insert machine screw (4) into end of stock (3) and tighten screw into receiver.

Align recoil pad (2) with end of stock (3) and secure with two machine screws (1).



2MB0025

**END OF WORK PACKAGE**

**UNIT MAINTENANCE OF  
GRIP ASSEMBLY, PISTOL, NSN 1005-01-512-2743, P/N 7995P**

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This task covers: a. Disassembly b. Inspection/Repair c. Assembly

**INITIAL SETUP**

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

**Materials/Parts:**  
Lock-washer, P/N 7613P

**Equipment Condition:**  
Shotgun field stripped (WP 0014 00).

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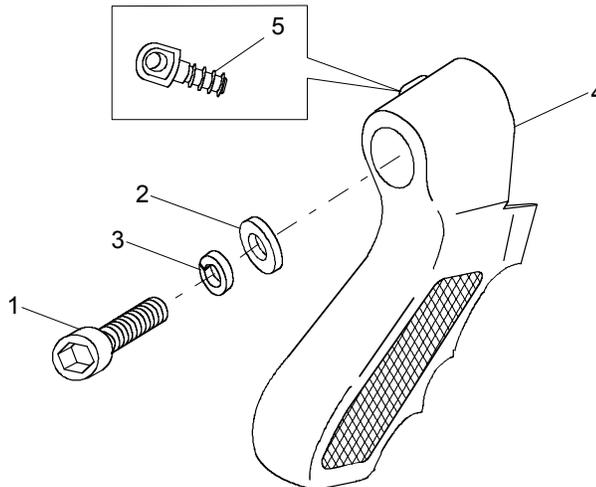
**NOTE**

To replace shoulder gun stock with the pistol grip assembly remove shoulder gun stock in accordance with WP 0025 00. Follow assembly procedures in this work package to install the pistol grip assembly

**DISASSEMBLY**

Remove hex screw (1), washer (2), and lock-washer (3) from pistol grip (4). Discard lock-washer (3).

Remove swivel post (5).



2MB0056

**INSPECTION AND REPAIR**

Check pistol grip for cracks.

Check screw and swivel for burred/worn threads.

Check for missing, worn and broken parts.

Repair is by replacement of authorized parts.

**UNIT MAINTENANCE OF  
GRIP ASSEMBLY, PISTOL, NSN 1005-01-512-2743, P/N 7995P (cont)**

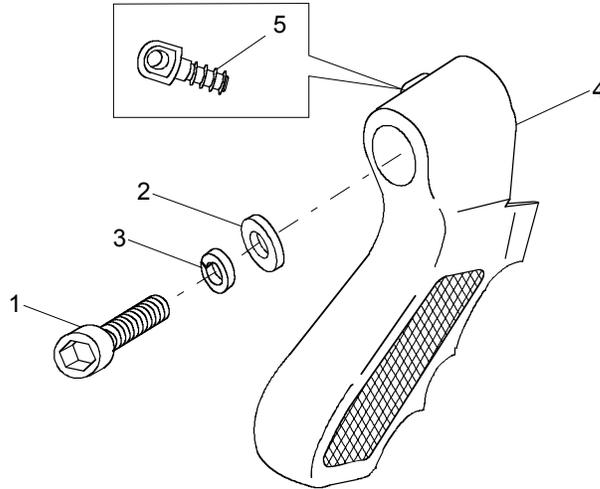
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**ASSEMBLY**

Align pistol grip to receiver.

Place new lock-washer (3) and washer (2) on hex screw (1) and insert into pistol grip (4). Tighten screw hand tight only.

Install swivel post (5).



2MB0056

**END OF WORK PACKAGE**

**CHAPTER 4**  
**DIRECT SUPPORT MAINTENANCE**



**DIRECT SUPPORT TROUBLESHOOTING PROCEDURES**

---

This work package contains direct support-troubleshooting information for locating and correcting most of the operating troubles that may develop in the shotgun. Each malfunction for a part, assembly, or subassembly is followed by a list of tests or inspections, which will help you to determine corrective actions to take. You should perform the tests/inspections and corrective actions in the order listed.

This manual cannot list all possible malfunctions that may occur, nor all tests or inspections and corrective actions. If a malfunction is not listed (except when malfunction or cause is obvious) or is not corrected by listed corrective actions, notify direct support maintenance.

**TROUBLESHOOTING PROCEDURES**

Refer to symptom index or troubleshooting table for malfunctions, tests/inspections, and corrective action.

**SYMPTOM INDEX**

<b>Troubleshooting Procedure</b>	<b>Work Package/Page</b>
Ammunition double feeds .....	0027 00-4
Cartridge fails to extract or eject .....	0027 00-3
Shotgun does not function correctly. ....	0027 00-4
Shotgun fails to load or feed .....	0027 00-3
Shotgun will not fire.....	0027 00-2

**DIRECT SUPPORT TROUBLESHOOTING PROCEDURES (cont)**

---

**Table 1. Direct Support Troubleshooting Procedures****SYMPTOM**

Shotgun will not fire.

**MALFUNCTION**

Firing pin is burred, excessively worn or broken.

**CORRECTIVE ACTION**

Replace firing pin.

**MALFUNCTION**

Check for foreign matter in firing pin aperture in bolt.

**CORRECTIVE ACTION**

Clean aperture in bolt and bolt slide.

**MALFUNCTION**

Check for broken trigger assembly.

**CORRECTIVE ACTION**

Replace trigger assembly.

**MALFUNCTION**

Check for foreign matter in safety well.

**CORRECTIVE ACTION**

Clean safety well.

**SYMPTOM**

Cartridge fails to extract or eject.

**MALFUNCTION**

Cartridge extractors and/or ejector are worn, burred, broken or missing.

**CORRECTIVE ACTION**

Replace cartridge extractors and/or ejector.

**MALFUNCTION**

Check for bent or broken extractor spring(s) on cartridge extractor.

**CORRECTIVE ACTION**

If one is damaged, replace both extractor spring(s).

**SYMPTOM**

Shotgun fails to load or feed.

**MALFUNCTION**

Cartridge follower is corroded.

**CORRECTIVE ACTION**

Clean or replace cartridge follower.

**MALFUNCTION**

Magazine spring is broken or kinked.

**CORRECTIVE ACTION**

Replace magazine spring.

**MALFUNCTION**

Foreign matter is in magazine tube.

**CORRECTIVE ACTION**

Clean magazine tube.

**MALFUNCTION**

Cartridge stop and/or cartridge interrupter is worn, burred, or broken.

**CORRECTIVE ACTION**

Replace cartridge stop and/or cartridge interrupter.

**DIRECT SUPPORT TROUBLESHOOTING PROCEDURES (cont)**

---

**Table 1. Direct Support Troubleshooting Procedures (cont)****SYMPTOM**

Ammunition double feeds.

**MALFUNCTION**

Cartridge stop or cartridge interrupter bent or missing.

**CORRECTIVE ACTION**

Replace action slide assembly.

**SYMPTOM**

Shotgun does not function correctly.

**MALFUNCTION**

Safety is burred or sticking.

**CORRECTIVE ACTION**

Replace, or clean and lubricate safety.

**END OF WORK PACKAGE**

**DIRECT SUPPORT MAINTENANCE OF  
RECEIVER ASSEMBLY, NSNA, P/N 10171MIL AND  
RECEIVER ASSEMBLY, NSNA, P/N 10171A1**

---

This task covers: a. Disassembly b. Inspection/Repair c. Assembly

**INITIAL SETUP**

**Tools and Special Tools:**

Tool Kit, Small Arms Repairman,  
P/N SC 5180-95-B71

Shop Set, Small Arms: Field Maintenance, Basic  
Less Power, P/N SC4933-95-CL-A11

**Materials/Parts:**

Wiping Rag (item 7, WP 0047 00)

**Equipment Condition:**

Barrel assembly and fore end assembly removed  
(WP 0014 00).

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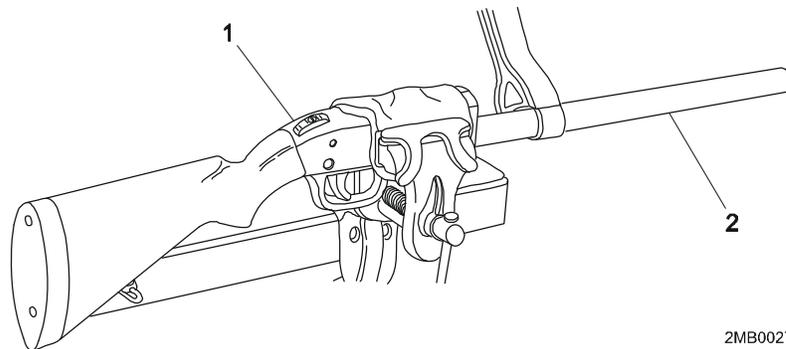
**DISASSEMBLY**

**MODEL M500**

Wrap wiping rag around receiver assembly (1). Place receiver assembly (1) in bench vise with vise jaw caps. Close vise just enough to hold receiver assembly (1).

Place strap style pipe wrench around magazine tube assembly (2) and turn to the left (counterclockwise), loosening metal tube assembly (2).

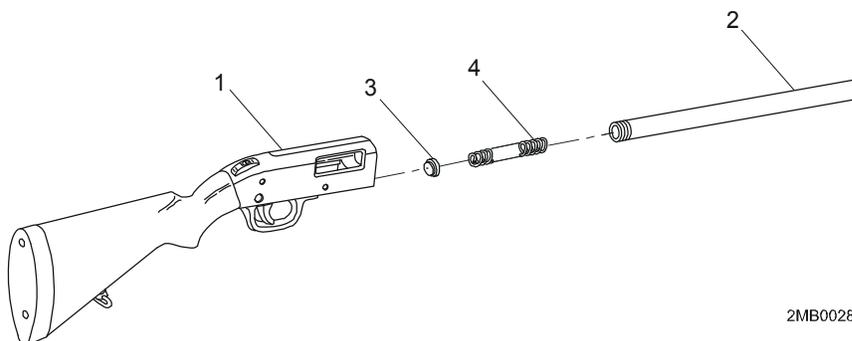
Remove magazine tube assembly (2) from receiver assembly (1).



**WARNING**

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

Remove cartridge follower (3) and magazine spring (4) from magazine tube assembly (2).



**DIRECT SUPPORT MAINTENANCE OF  
RECEIVER ASSEMBLY, NSNA, P/N 10171MIL AND  
RECEIVER ASSEMBLY, NSNA, P/N 10171A1 (cont)**

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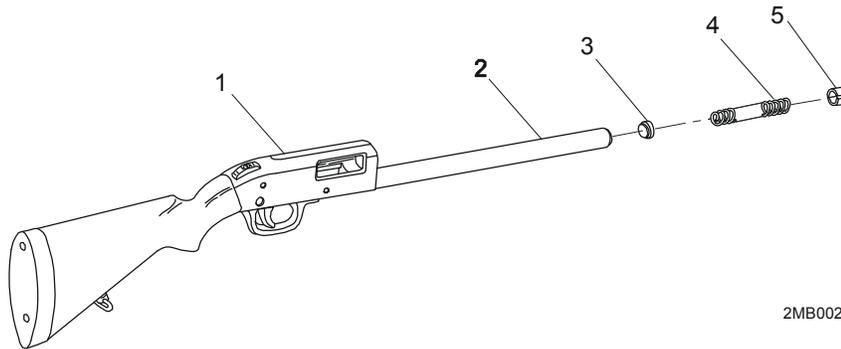
**DISASSEMBLY**

**MODEL M590**

**WARNING**

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

Remove magazine catch retainer (5), magazine spring (4) and cartridge follower (3) from magazine tube assembly (2).



2MB0029

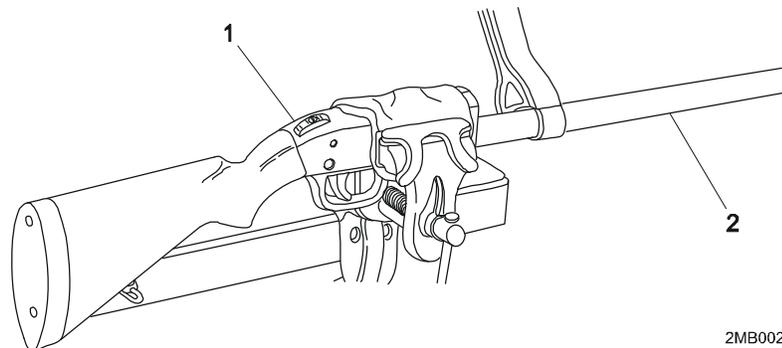
**NOTE**

Perform this step only if replacement of magazine tube is required.

Wrap wiping rag around receiver assembly (1). Place receiver assembly (1) in bench vise with vise jaw caps. Close vise just enough to hold receiver assembly (1).

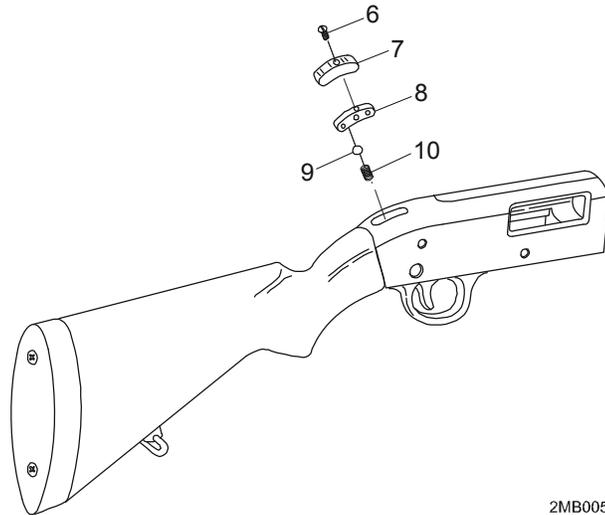
Place strap style pipe wrench around magazine tube assembly (2) and turn to the left (counterclockwise), loosening magazine tube assembly (2).

Remove magazine tube assembly (2) from receiver assembly (1).



2MB0027

Remove screw (6), safety button (7), safety detent plate (8), safety detent ball (9), and detent spring (10).



2MB0050A

### INSPECTION/REPAIR

Inspect for broken, damaged, or missing parts.

Inspect receiver (1) for cracks or bends, repair is by replacement of shotgun.

Inspect magazine tube (2) for cracks or bends.

Inspect magazine spring (4) and detent spring (10) for bends/breaks and flat spots.

Inspect safety button (7) and safety detent plate (8) for cracks and excessive wear.

Inspect safety detent ball (9) for flat spots.

Repair is by replacement of authorized parts.

**DIRECT SUPPORT MAINTENANCE OF  
RECEIVER ASSEMBLY, NSNA, P/N 10171MIL AND  
RECEIVER ASSEMBLY, NSNA, P/N 10171A1 (cont)**

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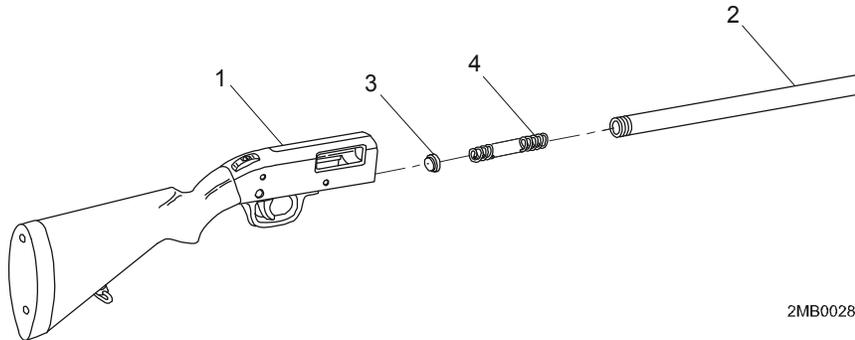
**ASSEMBLY**

**MODEL M500**

**WARNING**

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

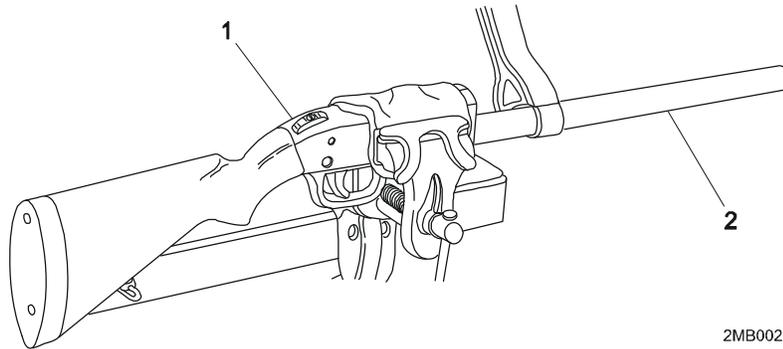
- Insert magazine spring (4) and cartridge follower (3) into magazine tube assembly (2).



2MB0028

Wrap wiping rag around receiver assembly (1). Place receiver assembly (1) in bench vise with vise jaw caps. Close vise just enough to hold receiver assembly (1).

Place strap style pipe wrench around magazine tube assembly (2) and turn to the right (clockwise), tightening magazine tube assembly (2).



2MB0027

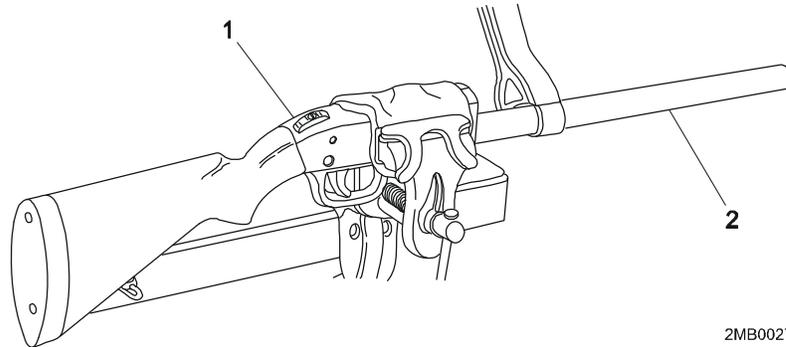
Assemble weapon (WP 0014 00).

**MODEL M590****NOTE**

Perform this step only if magazine tube was replaced.

Wrap wiping rag around receiver assembly (1). Place receiver assembly (1) in bench vise with vise jaw caps. Close vise just enough to hold receiver assembly (1).

Place strap style pipe wrench around new magazine tube assembly (2) and turn to the right (clockwise), tightening magazine tube assembly (2).

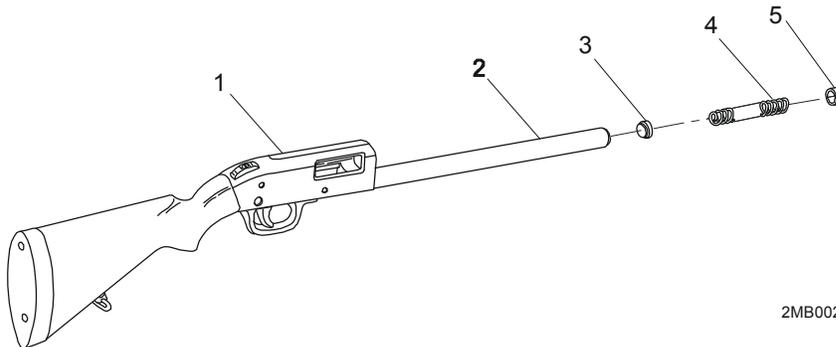


2MB0027

**WARNING**

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

Insert cartridge follower (3), magazine spring (4) and magazine catch retainer (5) into magazine tube assembly (2).



2MB0029

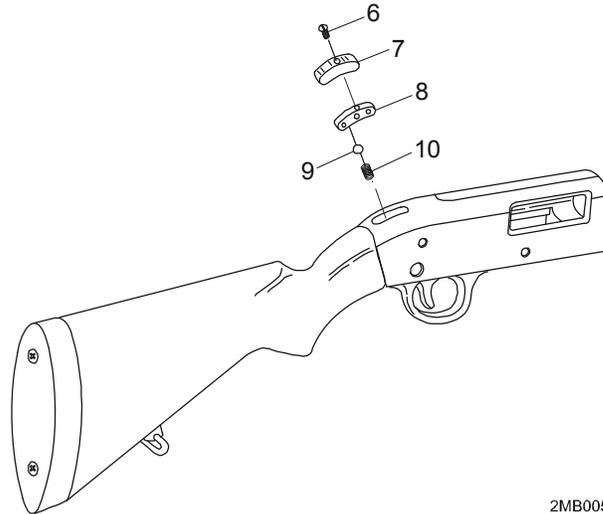
**DIRECT SUPPORT MAINTENANCE OF  
RECEIVER ASSEMBLY, NSNA, P/N 10171MIL AND  
RECEIVER ASSEMBLY, NSNA, P/N 10171A1 (cont)**

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**ASSEMBLY**

**MODEL M590 (cont)**

Install spring (10), detent ball (9), safety plate (8), safety button (7), and screw (6) into receiver.



2MB0050A

Assemble weapon (WP 0014 00).

**FUNCTION CHECK**

After performing any work on your shotgun, such as cleaning or repair, check shotgun for proper functioning before firing any live ammunition.

**END OF WORK PACKAGE**

**DIRECT SUPPORT MAINTENANCE OF  
BOLT ASSEMBLY, NSN 1005-01-512-2731, P/N 7437P**

This task covers: a. Disassembly b. Inspection/Repair c. Assembly

**INITIAL SETUP**

**Tools and Special Tools:**

Tool Kit, Small Arms Repairman,  
P/N SC 5180-95-B71  
Shop Set, Small Arms: Field Maintenance, Basic  
Less Power, P/N SC4933-95-CL-A11

**Equipment Condition:**

Shotgun field stripped (WP 0014 00)

**DISASSEMBLY**

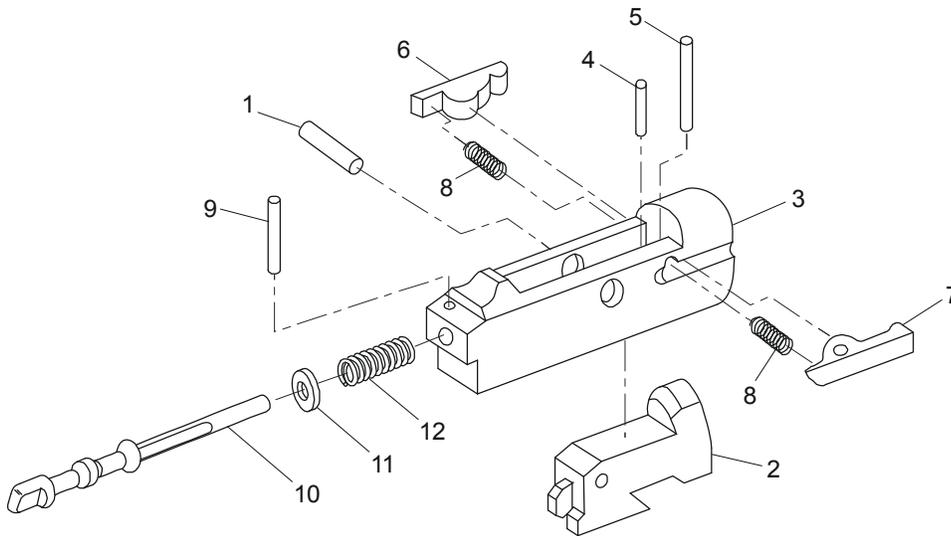
Remove bolt lock pin (1) and bolt lock (2) from bolt (3).

**WARNING**

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

Remove two cartridge extractor pins (4 and 5), left hand cartridge extractor (6), right hand cartridge extractor (7), and two cartridge extractor springs (8) from bolt (3).

Remove firing pin retaining pin (9), firing pin (10), flat washer (11), and firing pin spring (12) from bolt (3).



2MB0030

**DIRECT SUPPORT MAINTENANCE OF  
BOLT ASSEMBLY, NSN 1005-01-512-2731, P/N 7437P (cont)**

**INSPECTION/REPAIR**

Inspect bolt (3) and bolt lock (2) for cracks.

Inspect all components for bends, breaks, or excessive wear.

Repair is by replacement of authorized parts.

**ASSEMBLY**

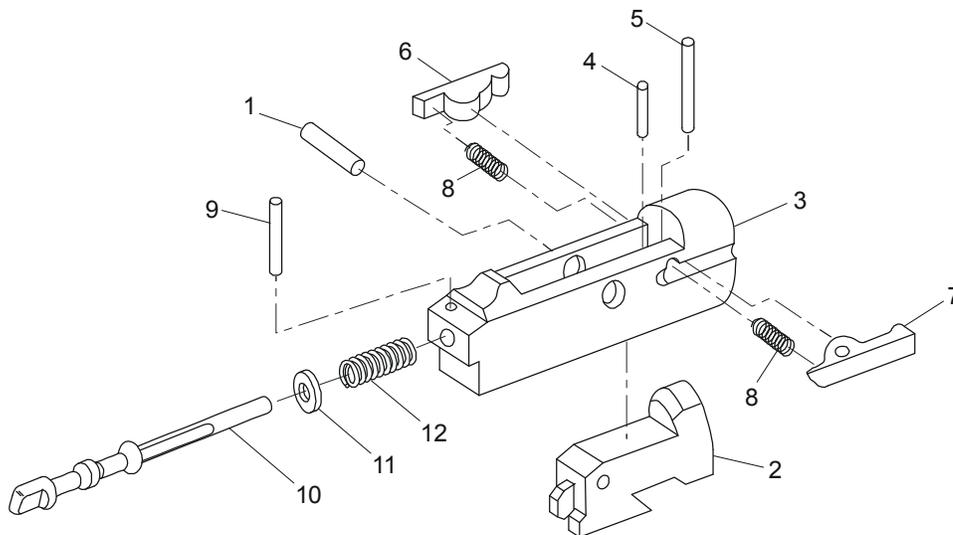
Install firing pin spring (12), flat washer (11), firing pin (10), and firing pin retaining pin (9) into bolt (3).

**WARNING**

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

Install two cartridge extractor springs (8), right hand and left hand cartridge extractors (7 and 6), and cartridge extractor pins (4 and 5) into bolt (3).

Install bolt lock (2) and bolt lock pin (1) into bolt (3).



2MB0030

**END OF WORK PACKAGE**

**ILLUSTRATED LIST OF MANUFACTURED ITEMS**

---

**SCOPE**

This work package includes complete instructions or making items authorized to be manufactured.

**HOW TO USE THE INDEX OF MANUFACTURED ITEMS**

A part number index in alphanumeric order is provided for cross-referencing the part number of the item to be manufactured to the page that covers fabrication criteria.

**EXPLANATION OF THE ILLUSTRATIONS OF MANUFACTURED ITEMS**

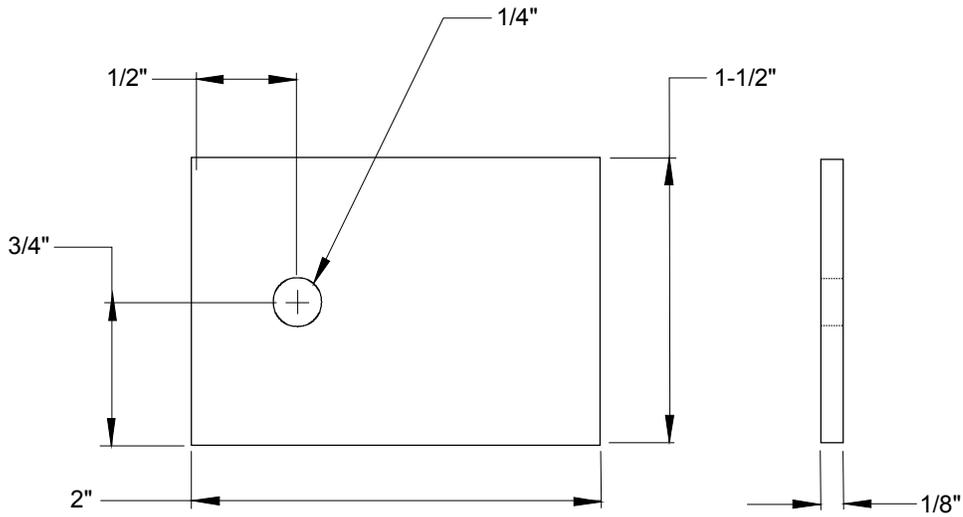
All instructions needed by maintenance personnel to manufacture the item are included on the illustrations. All bulk materials, needed for the manufacture of an item, are listed by part number or specification number in a tabular list on the illustration.

INDEX

<u>Figure Number</u>	<u>Part Number/ Drawing Number</u>	<u>Nomenclature</u>
1	Not Applicable	Tube Nut Tool

**ILLUSTRATED LIST OF MANUFACTURED ITEMS (cont)**

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2MB0031

**Figure 1. Tube Nut Tool**

NOTES:

Material: Bar, Metal, Type Grade 1080, QQ-S-634. Use NSN 9510-00-294-0992 (81348).

**END OF WORK PACKAGE**

**AMMUNITION CARE AND USAGE**

---

**CARE** - Protect ammunition from mud, dirt, and water. If ammunition gets wet or dirty, wipe it off prior to use. Wipe off light corrosion as soon as it is discovered. Heavily corroded cartridge or cartridges that have dented cases should not be fired.

**HANDLING** - Do not expose ammunition to the direct rays of the sun. If the powder is hot, excessive pressure may develop when gun is fired.

**PRESERVATION** - Do not open ammunition containers until the ammunition is to be used. Ammunition removed from airtight containers, particularly in damp climates, is likely to corrode.

**PACKING** - Do not oil or grease ammunition. Dust and other abrasives collecting on oiled or greased ammunition will damage the operating parts of the shotgun. Oiled cartridges will produce excessive chamber pressure. Pack unused cartridges in original containers and use first in subsequent firings.

**AUTHORIZED AMMUNITION**

For ammunition authorized for use in your shotgun refer to WP 0009 00.

**END OF WORK PACKAGE**



**CHAPTER 5**  
**SUPPORTING INFORMATION**



**REFERENCES**

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**DEPARTMENT OF ARMY PAMPHLETS AND FORMS**

- DA PAM 385-64 ..... Ammunition and Explosives Safety Standards
- DA PAM 750-8 ..... The Army Maintenance Management System (TAMMS) Users Manual
- DA Form 2028 ..... Recommended Changes to Publications and Blank Forms
- DA Form 2404 ..... Equipment Inspection and Maintenance Worksheet
- SF 364 ..... Report of Discrepancy (ROD)
- SF 368 ..... Product Quality Deficiency Report

**FIELD MANUALS**

- FM 3-11.3 ..... Multi-service Tactics, Techniques and Procedures for Chemical, Biological, Radiological and Nuclear Contamination Avoidance
- FM 3-11.4 ..... Multi-service Tactics, Techniques and Procedures for Nuclear, Biological and Chemical (NBC) Protection
- FM 3-11.5 ..... Multi-service Tactics, Techniques and Procedures for Chemical, Biological, Radiological and Nuclear Decontamination
- FM 4-25.11 ..... First Aid for Soldiers

**TECHNICAL MANUALS**

- TM 750-244-7 ..... Procedures for Destruction of Equipment in Federal Supply Classification 1000, 1005, 1010, 1015, 1020, 1025, 1030, 1055, 1090, and 1095 to Prevent Enemy Use

**RELATED PUBLICATIONS**

- DOD 4160.21-M ..... Defense Materiel Disposition Manual

**MISCELLANEOUS PUBLICATIONS**

- CTA 50-970 ..... Expendable/Durable Items (Except Medical Class V, Repair Parts and Heraldic Items)
- CTA 8-100 ..... Army Medical Department Expendable/Durable items

**AIR FORCE REFERENCES**

**AIR FORCE FORMS**

- AFTO 105 ..... Inspection Maintenance Firing Data for Ground Weapons

**AIR FORCE HANDBOOK**

- AFH 32-4014, Vol. 4 ..... USAF Ability to Survive and Operate Procedures in a Nuclear, Biological, and Chemical (NBC) Environment

**REFERENCES (cont)**

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**AIR FORCE REFERENCES (cont)**

**AIR FORCE INSTRUCTIONS**

AFI 21-115..... Product Quality Deficiency Report Program

AFI 36-2226..... USAF Combat Arms Program

**AIR FORCE JOINT MANUAL**

AFJMAN 23-215..... Reporting of Supply Discrepancies

**AIR FORCE TACTICS, TECHNIQUES AND PROCEDURES**

AFTTP (1) 3-2.46 ..... Multi-service Tactics, Techniques and Procedures for Nuclear, Biological and Chemical (NBC) Protection

AFTTP (1) 3-2.56 ..... Multi-service Tactics, Techniques and Procedures for Chemical, Biological, Radiological and Nuclear Contamination Avoidance

AFTTP (1) 3-2.60. .... Multi-service Tactics, Techniques and Procedures for Chemical, Biological, Radiological and Nuclear Decontamination

**AIR FORCE TECHNICAL ORDERS**

TO 00-35D-54 ..... USAF Material Deficiency Reporting and Investigating System

TO 11W-1-10..... Historical Data Recording of Inspection, Maintenance, and firing Data for Ground Weapons

**END OF WORK PACKAGE**

**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 gagings 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.

**END OF WORK PACKAGE**

**MAINTENANCE ALLOCATION CHART**

**Table 1. Maintenance Allocation Chart for Shotgun, Model 500 and Model 590**

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REF CODE	(6) REMARKS
			UNIT DS		F	DEPOT			
			C	O		H	D		
00	Shotgun, 12 Gauge, Model 500 (P/N 50476) and Shotgun, 12 Gauge, Model 590 (P/N 11788A12)	Inspect Service Overhaul	0.1	0.1	0.1	3.6	1, 2		
			0.1	0.1					
01	Stock Assembly (P/N 14762MIL) and Pistol Grip Assembly (P/N 7995P)	Inspect Service Repair	0.1	0.1	0.1		1, 2		
			0.1	0.1	0.2				
02	Receiver Assembly (P/N 10171MIL) and Receiver Assembly (P/N 10171A1)	Inspect Service Repair	0.1	0.1	0.1		1, 2		
			0.1	0.1	0.3				
0201	Safety Assembly (NPN)	Inspect Service Repair					1,2		
03	Barrel Assembly (P/N 3907MIL) and Barrel Assembly (P/N M590BRL-1)	Inspect Service Repair	0.1	0.1	0.1		1, 2		
			0.1	0.1	0.2				
04	Fore End Slide Assembly (P/N MOSS-5)	Inspect Service Repair	0.1	0.1	0.1		1, 2	A	
			0.1	0.1	0.2				
05	Bolt Assembly (P/N 7437P)	Inspect Service Replace Repair	0.1	0.1	0.1		1, 2		
			0.1	0.1	0.2				

**MAINTENANCE ALLOCATION CHART (cont)**

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**Table 2. Tools and Test Equipment for Shotguns**

(1) TOOL OR TEST EQUIPMENT REF CODE	(2) MAINTENANCE LEVEL	(3) NOMENCLATURE	(4) NATIONAL STOCK NUMBER	(5) TOOL NUMBER
1	O/F	Tool Kit, Small Arms Repairman	5180-01-462-4254 SC	5180-95-B71
2	F	Shop Set, Small Arms: Field Maintenance, Basic Less Power	4933-00-754-0664 SC	4933-95-CL-A11

**Table 3. Remarks for Shotgun**

Reference Code	Remarks
A	See manufactured item 1, WP 0029 00.

**END OF WORK PACKAGE**

**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST  
(INCLUDING DEPOT MAINTENANCE REPAIR PARTS FOR MOSSBERG SHOTGUNS)**

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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 MOSSBERG SHOTGUNS) (cont)**

**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 MOSSBERG SHOTGUNS) (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:

<u>Maintenance Code</u>	<u>Application/Explanation</u>
C	- Crew or operator maintenance done within unit/AVUM maintenance.
O	- Unit level/AVUM maintenance can remove, replace, and use the item.
F	- Direct support/AVIM maintenance can remove, replace, and use the item.
H	- General support maintenance can remove, replace, and use the item.
L	- Specialized repair activity can remove, replace, and use the item.
D	- 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).

<u>Maintenance Code</u>	<u>Application/Explanation</u>
O	- Unit/AVUM is the lowest level that can do complete repair of the item.
F	- Direct support/AVIM is the lowest level that can do complete repair of the item.
H	- General support is the lowest level that can do complete repair of the item.
L	- Specialized repair activity is the lowest level that can do complete repair of the item.
D	- Depot is the lowest level that can do complete repair of the item.
Z	- Non-reparable. No repair is authorized.
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:

<u>Recoverability Code</u>	<u>Application/Explanation</u>
<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 MOSSBERG SHOTGUNS) (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.

STOCK 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.

$\frac{\text{NSN}}{\text{NIIN}}$	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.
(e.g., $\frac{5385-01-574-1476}{}$ )	

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>
AL3	Mossberg, 12 Gauge, Shotgun, Model 500
AJ2	Mossberg, 12 Gauge, Shotgun, Model 590

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.

## 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.

**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST  
(INCLUDING DEPOT MAINTENANCE REPAIR PARTS FOR MOSSBERG SHOTGUNS) (cont)**

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**HOW TO LOCATE REPAIR PARTS (cont)**

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.

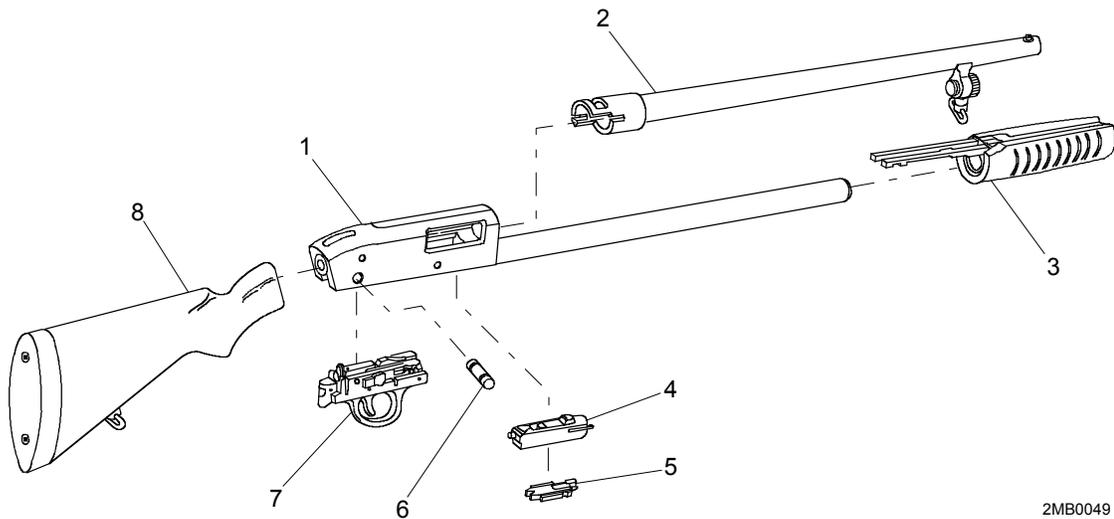
Second. Turn to the figure and locate the item number. Verify that the item is the one you are looking for.

**ABBREVIATIONS.** N/A

**END OF WORK PACKAGE**

**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
SHOTGUN, 12-GAUGE, MOSSBERG, MODEL 500, NSN 1005-01-295-1832, P/N 50476  
SHOTGUN, 12-GAUGE, MOSSBERG, MODEL 590, NSN 1005-01-251-8578, P/N 11788A12**

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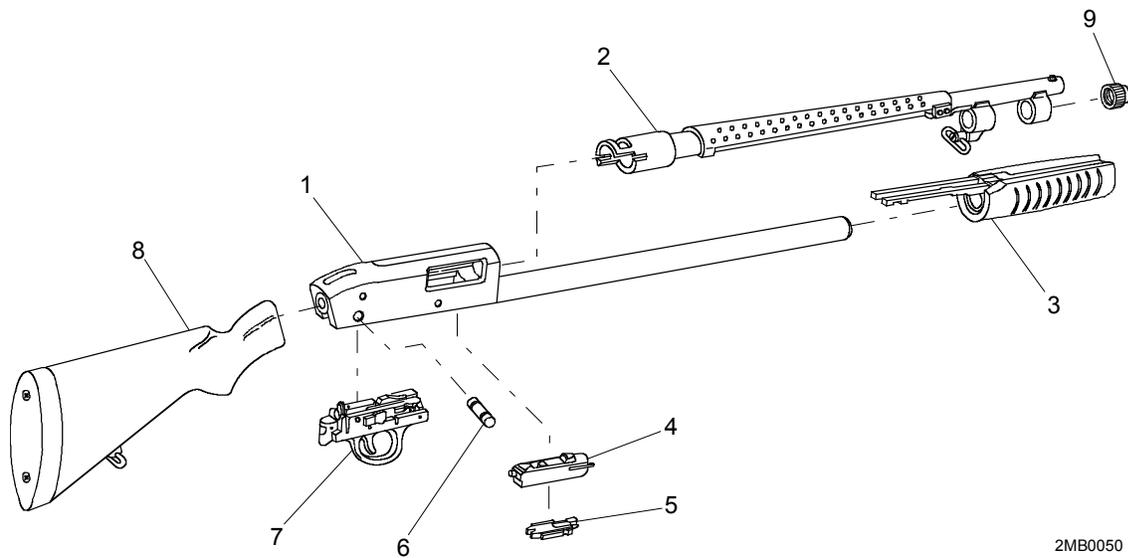


2MB0049

**MODEL 500**

**Figure 1. Shotgun, 12-Gauge, Mossberg, Model 500, P/N 50476 (1 of 2)**

**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
 SHOTGUN, 12-GAUGE, MOSSBERG, MODEL 500, NSN 1005-01-295-1832, P/N 50476  
 SHOTGUN, 12-GAUGE, MOSSBERG, MODEL 590, NSN 1005-01-251-8578, P/N 11788A12 (cont)**



**MODEL 590**

**Figure 1. Shotgun, 12-Gauge, Mossberg, Model 590, P/N 11788A12 (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	
					FIGURE 1. SHOTGUN, 12-GAUGE, MOSSBERG, M500, P/N 50476; SHOTGUN, 12-GAUGE, MOSSBERG, M590, P/N 11788A12	
1	XAFFA		41758	10171MIL	RECEIVER ASSEMBLY SEE FIG. 2 FOR BRKDOWN UOC: AL3.....	1
1	XAFFA		41758	10171A1	RECEIVER ASSEMBLY SEE FIG. 2 FOR BRKDOWN UOC: AJ2.....	1
2	PAOFF	1005-01-512-9286	41758	3907MIL	BARREL ASSEMBLY SEE FIG. 3 FOR BRKDOWN UOC: AL3.....	1
2	AFOFF	1005-01-523-1267	41758	16019P	BARREL ASSEMBLY SEE FIG. 3 FOR BRKDOWN UOC: AJ2.....	1
3	AOOOO		41758	MOSS-05	FORE END SLIDE ASSEMBLY SEE FIG. 4 FOR BRKDOWN UOC: AJ2, AL3.....	1
4	PAFFF	1005-01-512-2731	41758	6706P	BOLT ASSEMBLY SEE FIG. 5 FOR BRKDOWN UOC: AJ2, AL3.....	1
5	PAFZZ	1005-01-512-2734	41758	6443P	BOLT SLIDE UOC: AJ2, AL3.....	1
6	PAOZZ	5315-01-512-2729	41758	1580P	PIN, TRIGGER HOUSING UOC: AJ2, AL3.....	1
7	PAFZZ	1005-01-520-5995	41758	13229MIL	TRIGGER HOUSING ASSEMBLY UOC: AJ2, AL3.....	1
8	PAOOO	1005-01-511-9538	41758	14762MIL	STOCK, GUN, SHOULDER SEE FIG. 6 FOR BRKDOWN UOC: AJ2, AL3.....	1
9	PAFZZ	1005-01-520-5991	41758	11239P	CAP, RETAINING UOC: AJ2.....	1

END OF FIGURE

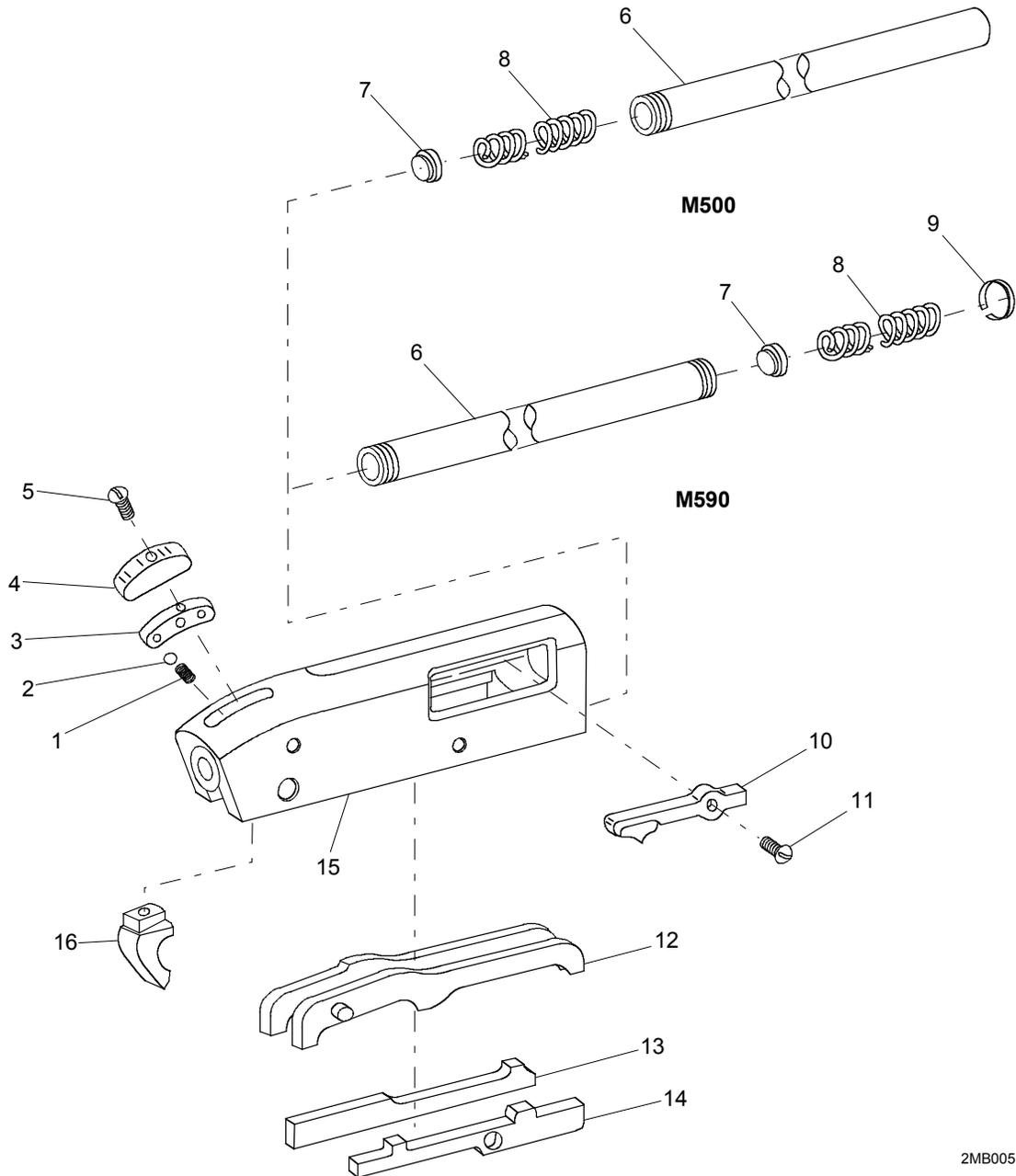
END OF WORK PACKAGE





**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
RECEIVER ASSEMBLY, NSNA, P/N 10171MIL;  
RECEIVER ASSEMBLY, NSNA, P/N 10171A1 AND  
SAFETY ASSEMBLY, NSNA, NPN (cont)**

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2MB0051

**Figure 2. Receiver Assembly, P/N 10171MIL and  
Safety Assembly, NPN**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC) GROUP 02, 0201	(7) QTY
					FIGURE 2. RECEIVER ASSEMBLY, P/N 10171MIL; RECEIVER ASSEMBLY, P/N 10171A1; AND SAFETY ASSEMBLY, NPN	
1	PAFZZ	5360-01-231-0419	41758	11761	SPRING, DETENT SAFETY UOC: AL3, AJ2.....	1
2	PAFZZ	1005-01-240-5003	41758	7349	BALL, SAFETY DETENT UOC: AL3, AJ2.....	1
3	PAFZZ	5365-01-5236534	41758	6297P	PLATE, SAFETY DETENT UOC: AL3, AJ2.....	1
4	PAFZZ	1005-01-285-0624	41758	13049P	SAFETY BUTTON UOC: AL3, AJ2.....	1
5	PAFZZ	5305-01-523-4871	41758	11125P	SCREW, SAFETY BUTTON UOC: AL3, AJ2.....	1
6	PAFZZ	1005-01-512-2741	41758	10342P	TUBE ASSEMBLY, MAGAZINE, 6-SHOT UOC: AL3.....	1
6	PAFZZ	1005-01-520-5993	41758	11241P	TUBE ASSEMBLY, MAGAZINE, 9-SHOT UOC: AJ2.....	1
7	PAFZZ	1005-01-513-3321	41758	1554P	FOLLOWER, CARTRIDGE UOC: AL3, AJ2.....	1
8	PAFZZ	5360-01-231-0420	41758	1553	SPRING, MAGAZINE UOC: AL3.....	1
8	PAFZZ	5360-01-285-0626	41758	11443	SPRING, MAGAZINE UOC: AJ2.....	1
9	PAFZZ	1005-01-391-3863	41758	12392P	RETAINER, CATCH, MAGAZINE UOC: AJ2.....	1
10	PAFZZ	1005-01-517-4151	41758	1538P	EJECTOR UOC: AL3, AJ2.....	1
11	PAFZZ	5305-01-523-6533	41758	1539P	SCREW, EJECTOR UOC: AL3, AJ2.....	1
12	PAFZZ	1005-01-512-2726	41758	1765P	ELEVATOR UOC: AL3, AJ2.....	1
13	PAFZZ	1005-01-512-2730	41758	7557P	CARTRIDGE STOP UOC: AL3, AJ2.....	1
14	PAFZZ	1005-01-512-2725	41758	7607P	CARTRIDGE INTERRUPTER UOC: AL3, AJ2.....	1
15	XAFFF		41758	M590-2	RECEIVER UOC: AJ2.....	1
15	XAFFF		41758	MOD500-10	RECEIVER UOC: AL3.....	1
16	PAFZZ	1005-01-512-2728	41758	7441P	LOCK, GUN, SAFETY UOC: AL3, AJ2.....	1

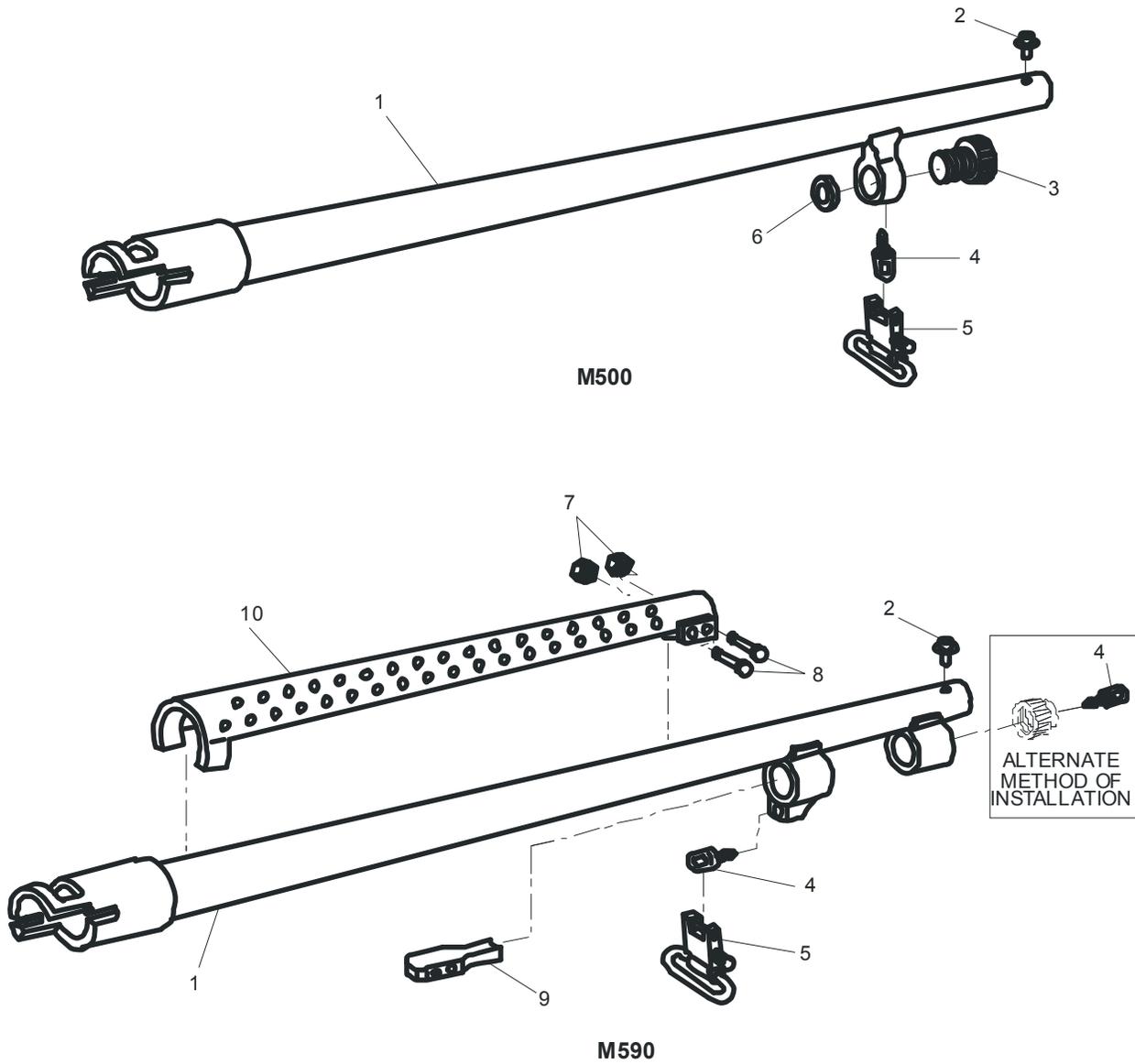
END OF FIGURE

END OF WORK PACKAGE





UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
BARREL ASSEMBLY, NSN 1005-01-512-9286, P/N 3907MIL  
BARREL ASSEMBLY, NSN 1005-01-523-1267, P/N 16019P (cont)



2MB0052

Figure 3. Barrel Assembly, P/N 3907MIL; Barrel Assembly, P/N 16019P

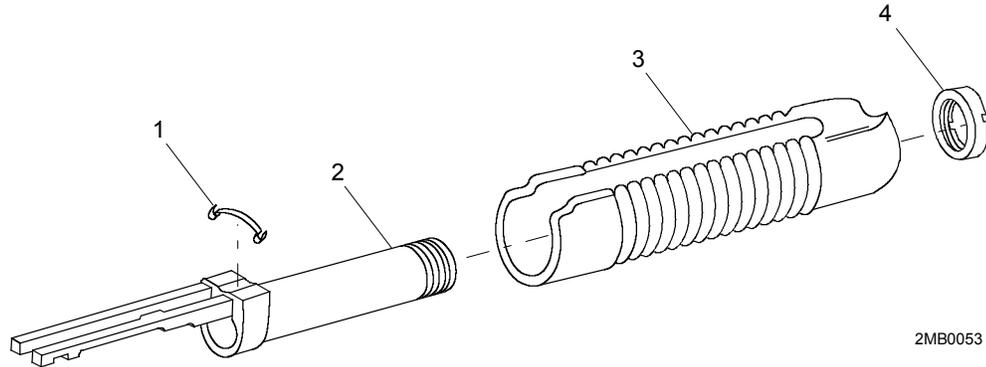
(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC) GROUP 03	(7) QTY
					FIGURE 3. BARREL ASSEMBLY, P/N 3907MIL; AND BARREL ASSEMBLY, P/N 16019P	
1	XAFZZ		41758	3907MIL	BARREL UOC: AL3.....	1
1	PAFZZ	1005-01-523-1267	41758	16019P	BARREL UOC: AJ2.....	1
2	PAFZZ	1005-01-523-3929	41758	13443P	SIGHT, FRONT SIGHT BEAD UOC: AJ2.....	1
2	PAFZZ	1005-01-225-3817	41758	7457	SIGHT, FRONT SIGHT BEAD UOC: AL3.....	1
3	PAFZZ	5305-01-512-2732	41758	3874P	SCREW ASSEMBLY UOC: AL3.....	1
4	PAOZZ	1005-01-526-3298	41758	12030P	FRONT SWIVEL STUD.....	1
5	PAOZZ	1005-01-512-4530	41758	17270	SWIVEL ASSEMBLY.....	1
6	PAFZZ	5325-01-231-0546	41758	5393	RING, RETAINING UOC: AL3.....	1
7	PAOZZ	5310-01-294-3530	41758	10494	NUT, SELF-LOCKING UOC: AJ2.....	2
8	PAOZZ	5306-01-386-5356	41758	11588	SCREW UOC: AJ2.....	2
9	PAOZZ	5365-01-286-5186	41758	12086	SPACER, PLATE, HEAT SHIELD UOC: AJ2.....	1
10	PAOZZ	1005-01-523-1271	41758	16335P	HEAT SHIELD UOC: AJ2.....	1

END OF FIGURE

END OF WORK PACKAGE



**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
FORE END SLIDE ASSEMBLY, NSNA, P/N MOSS-05**



**Figure 4. Fore End Slide Assembly, P/N MOSS-05**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC) GROUP 04	(7) QTY
					FIGURE 4. FORE END SLIDE ASSEMBLY, P/N MOSS-05	
1	PAFZZ	5360-01-512-2740	41758	13484P	SPRING, ANTI-RATTLE UOC: AL3, AJ2.....	1
2	PAFZZ	1005-01-512-4413	41758	11603P	SLIDE ASSEMBLY, ACTION UOC: AL3, AJ2.....	1
3	PAFZZ	1005-01-285-0611	41758	10462	FORE END, SYNTHETIC RUBBER UOC: AL3, AJ2.....	1
4	PAFZZ	1005-01-513-0733	41758	3408P	NUT, ACTION SLIDE TUBE UOC: AL3, AJ2.....	1

**END OF FIGURE**

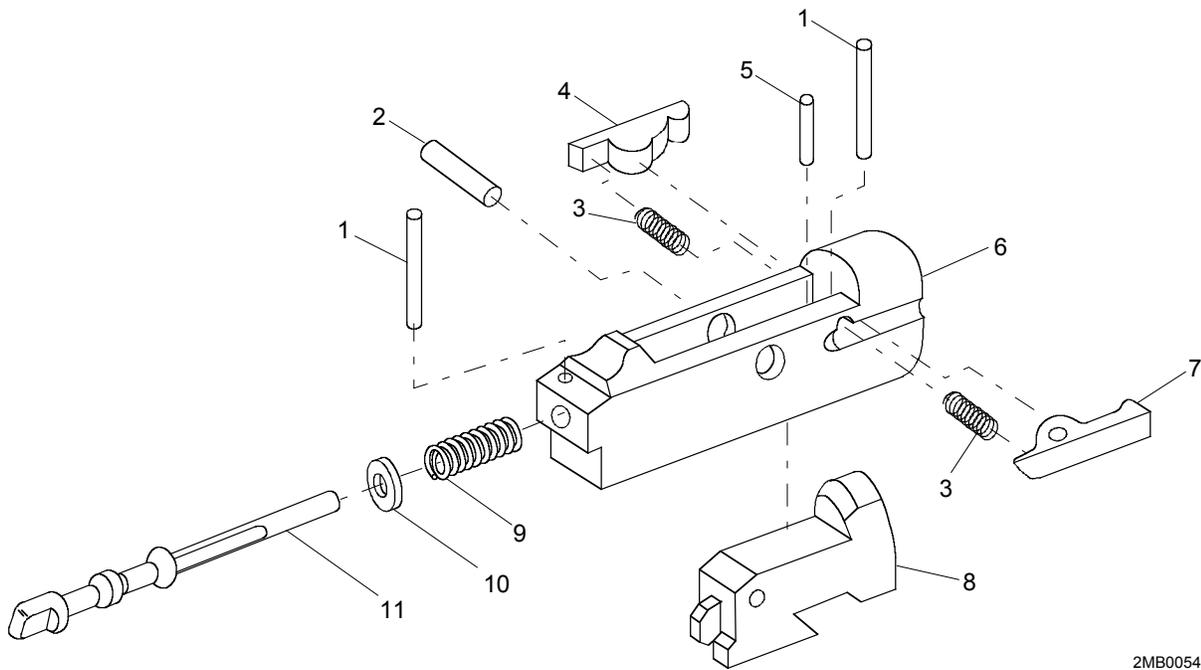
**END OF WORK PACKAGE**





**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
BOLT ASSEMBLY, NSN 1005-01-512-2731, P/N 6706P**

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2MB0054

**Figure 5. Bolt Assembly, P/N 6706P**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC) GROUP 05	(7) QTY
					FIGURE 5. BOLT ASSEMBLY, P/N 6706P	
1	PAFZZ	5315-01-512-9285	41758	1544P	PIN, RETAINING UOC: AJ2, AL3.....	2
2	PAFZZ	5315-01-512-9283	41758	1531P	PIN, BOLT LOCK UOC: AJ2, AL3.....	1
3	PAFZZ	5360-01-285-0145	41758	7330	SPRING, EXTRACTOR UOC: AJ2, AL3.....	2
4	PAFZZ	1005-01-512-2735	41758	12762P	EXTRACTOR LH UOC: AJ2, AL3.....	1
5	PAFZZ	1005-01-512-4412	41758	1599P	PIN, EXTRACTOR LH UOC: AJ2, AL3.....	1
6	XAFZZ		41758	3433P	BOLT UOC: AJ2, AL3.....	1
7	PAFZZ	1005-01-512-2739	41758	12761P	EXTRACTOR RH UOC: AJ2, AL3.....	1
8	PAFZZ	1005-01-512-2738	41758	16106P	LOCK, BOLT UOC: AJ2, AL3.....	1
9	PAFZZ	5360-01-512-2742	41758	14629MIL	SPRING, FIRING PIN UOC: AJ2, AL3.....	1
10	PAFZZ	5310-01-512-2736	41758	7429P	WASHER, FIRING PIN UOC: AJ2, AL3.....	1
11	PAFZZ	1005-01-512-2737	41758	11793P	PIN, FIRING UOC: AJ2, AL3.....	1

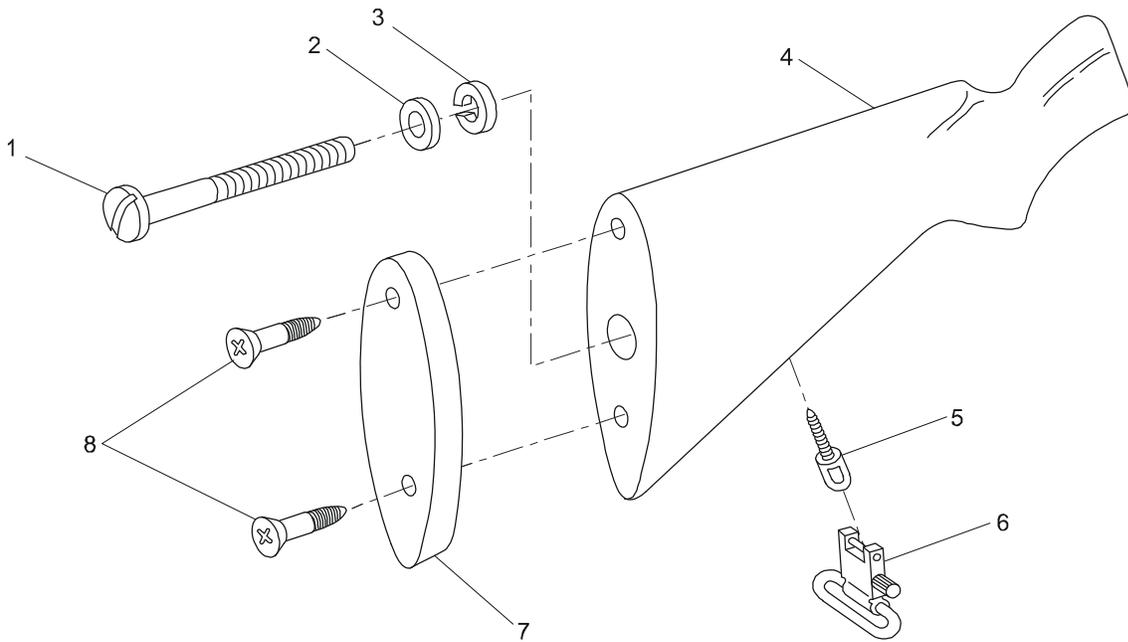
END OF FIGURE

END OF WORK PACKAGE





**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
STOCK, GUN, SHOULDER, NSN 1005-01-285-0612, P/N 14672MIL (cont)**



**Figure 6. Stock, Gun, Shoulder, P/N 14672MIL**

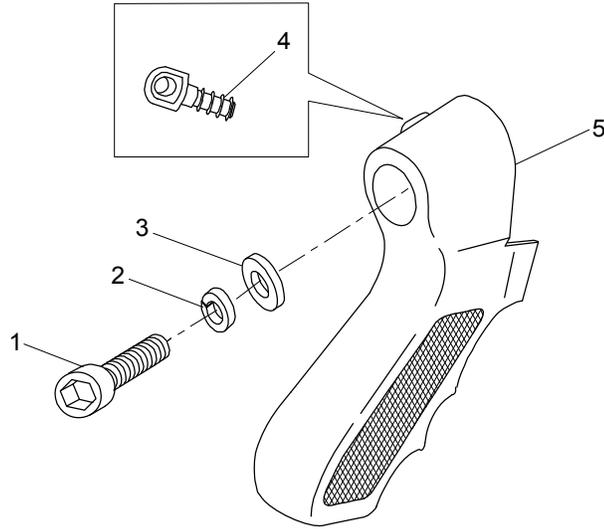
(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC) GROUP 01	(7) QTY
					FIGURE 6. STOCK, GUN, SHOULDER, P/N 14672MIL	
1 PAOZ	Z	5305-01-284-7568	41758	11789	STOCK, BOLT UOC: AL3, AJ2.....	1
2 PAOZ	Z	5310-01-512-2724	41758	7613P W	ASHER, LOCK UOC: AL3, AJ2.....	1
3 PAOZ	Z	5310-01-512-2727	41758	1571P W	ASHER UOC: AL3, AJ2.....	1
4 XAOZ	Z		41758	16079 BUTT	STOCK, SYNTHETIC UOC: AJ2.....	1
4 XAOZ	Z		41758	14666	BUTTSTOCK, SYNTHETIC UOC: AL3.....	1
5 PAOZ	Z	1005-01-512-4414	41758	6641P	SWIVEL POST UOC: AL3, AJ2.....	1
6 PAOZ	Z	1005-01-512-4530	41758	17270	SWIVEL ASSEMBLY, REAR UOC: AL3, AJ2.....	1
7 PAOZ	Z	1005-01-518-4506	41758	16080	PAD, RECOIL UOC: AJ2.....	1
7 PAOZ	Z	1005-01-285-0621	41758	11375	PAD, RECOIL UOC: AL3.....	1
8 PAOZ	Z	5305-01-511-9536	41758	171P SCREW	, MACHINE UOC: AL3, AJ2.....	2

END OF FIGURE

END OF WORK PACKAGE



**UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS LIST FOR  
GRIP, PISTOL, ASSEMBLY, NSN 1005-01-512-2743, P/N 7995P**



2MB0057

**Figure 7. Grip, Pistol Assembly, P/N 7995P**

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC) GROUP 01	(7) QTY
					FIGURE 7. GRIP, PISTOL ASSEMBLY, P/N 7995P	
1	PAOZZ	5305-01-525-5764	41758	11120P	SCREW, HEX. HEAD.....	1
2	PAOZZ	5310-01-512-2724	41758	7733P	LOCK-WASHER.....	1
3	PAOZZ	5310-01-512-2727	41758	1571P	WASHER .....	1
4	PAOZZ	1005-01-512-4414	41758	6641P	SWIVEL .....	1
5	XAOZZ		41758	7679	GRIP, PISTOL.....	1

END OF FIGURE

END OF WORK PACKAGE



**CROSS REFERENCE LIST – PART NUMBER**

<u>PART NUMBER</u>	<u>NATIONAL STOCK NUMBER</u>	<u>FIG.</u>	<u>ITEM</u>
10171A1		1	1
10171MIL		1	1
10342P	1005-01-512-2741	2	6
10462	1005-01-285-0611	4	3
10494	5310-01-294-3530	3	7
11120P	5305-01-525-5764	7	1
11125P	5305-01-523-4871	2	5
11239P	1005-01-520-5991	1	9
11241P	1005-01-520-5993	2	6
11375	1005-01-285-0621	6	7
11443	5360-01-285-0626	2	8
11588	5306-01-386-5356	3	8
11603P	1005-01-512-4413	4	2
11761	5360-01-231-0419	2	1
11789	5305-01-284-7568	6	1
11793P	1005-01-512-2737	5	11
12030P	1005-01-526-3298	3	4
12086	5365-01-286-5186	3	9
12392P	1005-01-391-3863	2	9
12761P	1005-01-512-2739	5	7
12762P	1005-01-512-2735	5	4
13049P	1005-01-285-0624	2	4
13229MIL	1005-01-520-5995	1	7
13443P	1005-01-523-3929	3	2
13484P	5360-01-512-2740	4	1
14629MIL	5360-01-512-2742	5	9
14666		6	4
14672MIL	1005-01-285-0612	1	8
1531P	5315-01-512-9283	5	2
1538P	1005-01-517-4151	2	10
1539P	5305-01-523-6533	2	11
1544P	5315-01-512-9285	5	1
1553	5360-01-231-0420	2	8
1554P	1005-01-513-3321	2	7
1571P	5310-01-512-2727	6	3
1571P	5310-01-512-2727	7	3
1580P	5315-01-512-2729	1	6
1599P	1005-01-512-4412	5	5

**CROSS REFERENCE LIST – PART NUMBER (cont)**

<u>PART NUMBER</u>	<u>NATIONAL STOCK NUMBER</u>	<u>FIG.</u>	<u>ITEM</u>
16019P	1005-01-523-1267	1	2
		3	1
16079		6	4
16080	1005-01-518-4506	6	7
16106P	1005-01-512-2738	5	8
16335P	1005-01-523-1271	3	10
171P	5310-01-511-9536	6	8
17270	1005-01-512-4530	3	5
		6	6
1765P	1005-01-512-2726	2	12
3408P	1005-01-513-0733	4	4
3433P		5	6
3874P	5305-01-512-2732	3	3
3907P	1005-01-512-9286	1	2
5393	5325-01-231-0546	3	6
6297P	5365-01-523-6534	2	3
6443P	1005-01-512-2734	1	5
6641P	1005-01-512-4414	6	5
		7	4
6706P	1005-01-512-2731	1	4
7330	5360-01-285-0145	5	3
7349	1005-01-240-5003	2	2
7429P	5310-01-512-2736	5	10
7441P	1005-01-512-2728	2	16
7457	1005-01-225-3817	3	2
7557P	1005-01-512-2730	2	13
7607P	1005-01-512-2725	2	14
7613P	5310-01-512-2724	6	2
		7	2
7679		7	5
7753	5365-01-290-6481	2	3
7995P	1005-01-512-2743	7	
M590-2		2	15
MOD500-10		2	15
MOSS-05		1	3

**END OF WORK PACKAGE**

**CROSS REFERENCE LIST – NATIONAL STOCK NUMBER**

NATIONAL STOCK NUMBER	PART NUMBER	FIG.	ITEM
1005-01-225-3817	7457	3	2
5360-01-231-0419	11761	2	1
5360-01-231-0420	1553	2	8
5325-01-231-0546	5393	3	6
1005-01-240-5003	7349	2	2
5305-01-284-7568	11789	6	1
5360-01-285-0145	7330	5	3
1005-01-285-0611	10462	4	3
1005-01-285-0612	14672MIL	1	8
1005-01-285-0621	11375	6	7
1005-01-285-0624	13049P	2	4
5360-01-285-0626	11443	2	8
5365-01-286-5186	12086	3	9
5310-01-294-3530	10494	3	7
5306-01-386-5356	11588	3	8
1005-01-391-3863	12392P	2	9
5305-01-511-9536	171P	6	8
5310-01-512-2724	7733P	6	2
		7	2
1005-01-512-2725	7607P	2	14
1005-01-512-2726	1765P	2	12
5310-01-512-2727	1571P	6	3
		7	3
1005-01-512-2728	7441P	2	16
5315-01-512-2729	1580P	1	6
1005-01-512-2730	7557P	2	13
1005-01-512-2731	6706P	1	4
5305-01-512-2732	3874P	3	3
1005-01-512-2734	6443P	1	5
1005-01-512-2735	12762P	5	4
5310-01-512-2736	7429P	5	10
1005-01-512-2737	11793P	5	11
1005-01-512-2738	16106P	5	8
1005-01-512-2739	12761P	5	7
5360-01-512-2740	13484P	4	1
1005-01-512-2741	10342P	2	6
5360-01-512-2742	14629MIL	5	9

**CROSS REFERENCE LIST – NATIONAL STOCK NUMBER (cont)**

<b>NATIONAL STOCK NUMBER</b>	<b>PART NUMBER</b>	<b>FIG.</b>	<b>ITEM</b>
1005-01-512-4412	1599P	5	5
1005-01-512-4413	11603P	4	2
1005-01-512-4414	6641P	6	5
		7	4
1005-01-512-4530	17270	3	5
		6	6
5315-01-512-9283	1531P	5	2
5315-01-512-9285	1544P	5	1
1005-01-512-9286	3907MIL	1	2
1005-01-513-0733	3408P	4	4
1005-01-513-3321	1554P	2	7
1005-01-517-4151	1538P	2	10
1005-01-518-4506	16080	6	7
1005-01-520-5991	11239P	1	9
1005-01-520-5993	11241P	2	6
1005-01-520-5995	13229MIL	1	7
1005-01-523-1267	16019P	1	2
		3	1
1005-01-523-1271	16335P	3	10
1005-01-523-3929	13443P	3	2
5305-01-523-4871	11125P	2	5
5305-01-523-6533	1539P	2	11
5365-01-523-6534	6297P	2	3
5305-01-525-5764	11120P	7	1
1005-01-526-3298	12030P	3	4

**END OF WORK PACKAGE**

**COMPONENTS OF THE END ITEM AND BASIC ISSUE ITEMS**

This work package lists components of the end item and basic issue items for the shotgun 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 Used</u>	<u>On</u>
AJ2	Shotgun, 12-Gauge, Mossberg Model M590
AL3	Shotgun, 12-Gauge, Mossberg Model M500

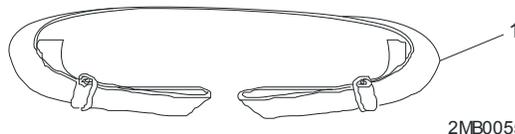
Column (4) – U/M, indicates how the item is issued for the National Stock Number shown in column (2).

Column (5) – Qty Rqd, indicates the quantity required.

**COMPONENTS OF THE END ITEM**

**Table 1. Components of the End Item**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION CAGEC AND PART NUMBER	USABLE ON CODE	(4) U/M	(5) QTY RQD
1	1005-01-216-4510	SLING, BLACK NYLON (19204) 12624561	AJ2, AI3	EA	1



**COMPONENTS OF THE END ITEM AND BASIC ISSUE ITEMS (cont)**

---

**BASIC ISSUE ITEMS**

There are no Basic Issue Items for these shotguns.

**END OF WORK PACKAGE**

**ADDITIONAL AUTHORIZATION LIST (AAL)**

---

**INTRODUCTION**

**Scope**

This work package lists additional items you are authorized for the support of your shotgun.

**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>
AJ2	Shotgun, 12-Gauge, Mossberg Model M590
AI3	Shotgun, 12-Gauge, Mossberg Model M500

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 AUTHORIZATION 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 RECM
1	1005-01-455-0565	CLEANING KIT, GUN (01VS3) 410-8		KT	1
2	8465-00-261-6944	CASE, SHOTGUN, AMMUNITION (81349) MIL-C-1690		KT	1
3	1005-01-512-2743	GRIP, PISTOL, ASSEMBLY (41758) 7995P		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 the Shotgun. 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 lubricating oil (item 5, WP 0047 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 which you can use to requisition it.

Column (4) – Description. This column lists the Item Name, Commercial and Government Entity Code (CAGEC), and Part Number.

Column (5) – Unit of Measure (U/M). This code shows the physical measurement or count of an item, such as gallon, dozen, gross, etc.

**EXPENDABLE AND DURABLE ITEMS LIST (cont)**

**EXPENDABLE AND DURABLE ITEMS LIST**

**Table 1. Expendable /Durable Items List**

(1) ITEM NUMBER	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) DESCRIPTION	(5) U/M
1	C	1005-00-494-6602	BRUSH, CLEANING, SMALL ARMS (19204) 8448462	EA
<p><b>NOTE</b></p> <p>CLP is an alternative to LSA and LAW. Do not mix lubricants on the same weapon. The weapon must be thoroughly cleaned with cleaning solvent before changing lubricants.</p>				
2 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
3 C		6850-01-474-2319	CLEANING, SOLVENT (81349) MIL-PRF-680, Type 2 1 gal can	GL
4 C		9150-01-260-2534	LUBRICANT, SOLID FILM (81349) MIL-L-23398 16 oz aerosol can	OZ
5 C		9150-00-292-9689	LUBRICATING OIL, WEAPONS (LAW) (81349) MIL-PRF-14107 1 qt can	QT
6 C		9150-00-753-4686	LUBRICATING OIL, WEAPONS (LSA) (81349) MIL-L-46000 1 gal can	GL
7 C		7920-00-205-1711	RAG, WIPING (80244) A-A-531 GRB 50 lb bale	LB
8 C		6850-00-224-6657 6850-00-224-6663	RIFLE BORE CLEANING COMPOUND (RBC): Solution type (81349) MIL-C-372 8 oz can 1 gal can	OZ GL
9 C		1005-00-288-3565	SWAB, SMALL ARMS CLEANING (19204) 5019316 1000 pkg	EA

**END OF WORK PACKAGE**

**ALPHABETICAL INDEX**

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**ALPHABETICAL INDEX**

---

**WP Sequence No.**

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- Mossberg 12-Gauge Shotgun, Model 590 (P/N 52660).....0022 00
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- Operation Under Unusual Conditions .....0010 00
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- Preventive Maintenance Checks and Services - Operator .....0013 00
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  - Barrel Assembly (P/N 41758).....0038 00
  - Bolt Assembly (P/N 6706P).....0040 00
  - Fore End Assembly (P/N MOSS-05).....0039 00
  - Grip, Pistol Assembly (P/N 7995P).....0042 00
  - Mossberg 12-Gauge Shotgun, Model 500 (P/N MOD500).....0036 00
  - Mossberg 12-Gauge Shotgun, Model 590 (P/N 52660).....0036 00
  - Pistol Grip Assembly (AAL) (P/N 95000).....0042 00
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<b>RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS</b> For use of this form, see AR 25-30; the proponent agency is ODISC4.						Use Part II ( <i>reverse</i> ) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM).	DATE
TO: ( <i>Forward to proponent of publication or form</i> ) ( <i>Include ZIP Code</i> ) U.S. Army TACOM Life Cycle Management Command AMSTA-LCL-MPP / TECH PUBS 1 Rock Island Arsenal, Rock Island, IL 61299-7630						FROM: ( <i>Activity and location</i> ) ( <i>Include ZIP Code</i> )	
<b>PART I – ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS</b>							
PUBLICATION/FORM NUMBER TM 9-1005-338-13&P				DATE 15 May 2005		TITLE MOSSBERG 12-GAUGE SHOTGUN	
ITEM NO.	PAGE NO.	PARA-GRAPH	LINE NO. *	FIGURE NO.	TABLE NO.	RECOMMENDED CHANGES AND REASON <i>(Provide exact wording of recommended changes, if possible).</i>	
<i>*Reference to line numbers within the paragraph or subparagraph.</i>							
TYPED NAME, GRADE OR TITLE				TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION		SIGNATURE	

TO: <i>(Forward direct to addressee listed in publication)</i> U.S. Army TACOM Life Cycle Management Command AMSTA-LCL-MPP / TECH PUBS 1 Rock Island Arsenal, Rock Island, IL 61299-7630	FROM: <i>(Activity and location) (Include ZIP Code)</i>	DATE
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**PART II - REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS**

PUBLICATION NUMBER TM 9-1005-338-13&P	DATE 15 May 2005	TITLE MOSSBERG 12-GAUGE SHOTGUN
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PAGE NO.	COLM NO.	LINE NO.	NATIONAL STOCK NUMBER	REFERENCE NO.	FIGURE NO.	ITEM NO.	TOTAL NO. OF MAJOR ITEMS SUPPORTED	RECOMMENDED ACTION
								<b>SAMPLE</b>

**PART III - REMARKS** *(Any general remarks or recommendations, or suggestions for improvement of publications and blank forms. Additional blank sheets may be used if more space is needed.)*

TYPED NAME, GRADE OR TITLE	TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION	SIGNATURE
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<b>RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS</b> For use of this form, see AR 25-30; the proponent agency is ODISC4.						Use Part II ( <i>reverse</i> ) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM).	DATE
TO: ( <i>Forward to proponent of publication or form</i> ) ( <i>Include ZIP Code</i> ) U.S. Army TACOM Life Cycle Management Command AMSTA-LCL-MPP / TECH PUBS 1 Rock Island Arsenal, Rock Island, IL 61299-7630						FROM: ( <i>Activity and location</i> ) ( <i>Include ZIP Code</i> )	
<b>PART I – ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS</b>							
PUBLICATION/FORM NUMBER TM 9-1005-338-13&P				DATE 15 May 2005		TITLE MOSSBERG 12-GAUGE SHOTGUN	
ITEM NO.	PAGE NO.	PARA-GRAPH	LINE NO. *	FIGURE NO.	TABLE NO.	RECOMMENDED CHANGES AND REASON <i>(Provide exact wording of recommended changes, if possible).</i>	
<i>*Reference to line numbers within the paragraph or subparagraph.</i>							
TYPED NAME, GRADE OR TITLE				TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION		SIGNATURE	

TO: <i>(Forward direct to addressee listed in publication)</i> U.S. Army TACOM Life Cycle Management Command AMSTA-LCL-MPP / TECH PUBS 1 Rock Island Arsenal, Rock Island, IL 61299-7630	FROM: <i>(Activity and location) (Include ZIP Code)</i>	DATE
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**PART II - REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS**

PUBLICATION NUMBER TM 9-1005-338-13&P	DATE 15 May 2005	TITLE MOSSBERG 12-GAUGE SHOTGUN
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PAGE NO.	COLM NO.	LINE NO.	NATIONAL STOCK NUMBER	REFERENCE NO.	FIGURE NO.	ITEM NO.	TOTAL NO. OF MAJOR ITEMS SUPPORTED	RECOMMENDED ACTION

**PART III - REMARKS** *(Any general remarks or recommendations, or suggestions for improvement of publications and blank forms. Additional blank sheets may be used if more space is needed.)*

TYPED NAME, GRADE OR TITLE	TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION	SIGNATURE
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<b>RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS</b> For use of this form, see AR 25-30; the proponent agency is ODISC4.						Use Part II ( <i>reverse</i> ) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM).	DATE
TO: ( <i>Forward to proponent of publication or form</i> ) ( <i>Include ZIP Code</i> ) U.S. Army TACOM Life Cycle Management Command AMSTA-LCL-MPP / TECH PUBS 1 Rock Island Arsenal, Rock Island, IL 61299-7630						FROM: ( <i>Activity and location</i> ) ( <i>Include ZIP Code</i> )	
<b>PART I – ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS</b>							
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**TM 9-1005-338-13&P**

By Order of the Secretary of the Army:

Official:



SANDRA R. RILEY  
*Administrative Assistant to the  
Secretary of the Army*

0510101

PETER J. SCHOOMAKER  
*General, United States Army  
Chief of Staff*

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## THE METRIC SYSTEM AND EQUIVALENTS

### LINEAR MEASURE

1 Centimeter = 10 Millimeters = 0.01 Meter = 0.3937 Inch  
 1 Decimeter = 10 Centimeters = 3.94 Inches  
 1 Meter = 10 Decimeters = 100 Centimeters  
 = 1000 Millimeters = 39.37 Inches  
 1 Dekameter = 10 Meters = 32.8 Feet  
 1 Hectometer = 10 Dekameters = 328.08 Feet  
 1 Kilometer = 10 Hectometers = 1000 Meters  
 = 0.621 Mile = 3,280.8 Feet  
 Millimeters = Inches times 25.4  
 Inches = Millimeters divided by 25.4

### WEIGHTS

1 Centigram = 10 Milligrams = 0.154 Grain  
 1 Decigram = 10 Centigrams = 1.543 Grains  
 1 Gram = 0.001 Kilogram = 10 Decigrams  
 = 1000 Milligrams = 0.035 Ounce  
 1 Dekagram = 10 Grams = 0.353 Ounce  
 1 Hectogram = 10 Dekagrams = 3.527 Ounces  
 1 Kilogram = 10 Hectograms = 1000 Grams  
 = 2.205 Pounds  
 1 Quintal = 100 Kilograms = 220.46 Pounds  
 1 Metric Ton = 10 Quintals = 1000 Kilograms  
 = 1.1 Short Tons

### LIQUID MEASURE

1 Milliliter = 0.001 Liter = 0.034 Fluid Ounce  
 1 Centiliter = 10 Milliliters = 0.34 Fluid Ounce  
 1 Deciliter = 10 Centiliters = 3.38 Fluid Ounces  
 1 Liter = 10 Deciliters = 1000 Milliliters  
 = 33.82 Fluid Ounces  
 1 Dekaliter = 10 Liters = 2.64 Gallons  
 1 Hectoliter = 10 Dekaliters = 26.42 Gallons  
 1 Kiloliter = 10 Hectoliters = 264.18 Gallons

### SQUARE MEASURE

1 Sq Centimeter = 100 Sq Millimeters = 0.155 Sq Inch  
 1 Sq Decimeter = 100 Sq Centimeters = 15.5 Sq Inches  
 1 Sq Meter (Centare) = 10 Sq Decimeters  
 = 10,000 Sq Centimeters = 10.764 Sq Feet  
 1 Sq Dekameter (Are) = 100 Sq Meters = 1,076.4 Sq Feet  
 1 Sq Hectometer (Hectare) = 100 Sq Dekameters  
 = 2.471 Acres  
 1 Sq Kilometer = 100 Sq Hectometers  
 = 1,000,000 Sq Meters = 0.386 Sq Mile

### CUBIC MEASURE

1 Cu Centimeter = 1000 Cu Millimeters = 0.061 Cu Inch  
 1 Cu Decimeter = 1000 Cu Centimeters = 61.02 Cu Inches  
 1 Cu Meter = 1000 Cu Decimeters  
 = 1,000,000 Cu Centimeters = 35.31 Cu Feet

### TEMPERATURE

$5/9 (°F - 32°) = °C$   
 $(9/5 \times °C) + 32° = °F$   
 -35° Fahrenheit is equivalent to -37° Celsius  
 0° Fahrenheit is equivalent to -18° Celsius  
 32° Fahrenheit is equivalent to 0° Celsius  
 90° Fahrenheit is equivalent to 32.2° Celsius  
 100° Fahrenheit is equivalent to 38° Celsius  
 212° Fahrenheit is equivalent to 100° Celsius

## APPROXIMATE CONVERSION FACTORS

<u>TO CHANGE</u>	<u>TO</u>	<u>MULTIPLY BY</u>	<u>TO CHANGE</u>	<u>TO</u>	<u>MULTIPLY BY</u>
Inches .....	Centimeters .....	2.540	Centimeters .....	Inches .....	0.394
Feet .....	Meters .....	0.305	Meters .....	Feet .....	3.280
Yards .....	Meters .....	0.914	Meters .....	Yards .....	1.094
Miles .....	Kilometers .....	1.609	Kilometers .....	Miles .....	0.621
Square Inches .....	Square Centimeters .....	6.451	Square Centimeters ...	Square Inches .....	0.155
Square Feet .....	Square Meters .....	0.093	Square Meters .....	Square Feet .....	10.764
Square Yards .....	Square Meters .....	0.836	Square Meters .....	Square Yards .....	1.196
Square Miles .....	Square Kilometers .....	2.590	Square Kilometers .....	Square Miles .....	0.386
Acres .....	Square Hectometers .....	0.405	Square Hectometers ...	Acres .....	2.471
Cubic Feet .....	Cubic Meters .....	0.028	Cubic Meters .....	Cubic Feet .....	35.315
Cubic Yards .....	Cubic Meters .....	0.765	Cubic Meters .....	Cubic Yards .....	1.308
Fluid Ounces .....	Milliliters .....	29.573	Milliliters .....	Fluid Ounces .....	0.034
Pints .....	Liters .....	0.473	Liters .....	Pints .....	2.113
Quarts .....	Liters .....	0.946	Liters .....	Quarts .....	1.057
Gallons .....	Liters .....	3.785	Liters .....	Gallons .....	0.264
Ounces .....	Grams .....	28.349	Grams .....	Ounces .....	0.035
Pounds .....	Kilograms .....	0.454	Kilograms .....	Pounds .....	2.205
Short Tons .....	Metric Tons .....	0.907	Metric Tons .....	Short Tons .....	1.102
Pound-Feet .....	Newton-Meters .....	1.356	Newton-Meters .....	Pound-Feet .....	0.738
Pounds-Inches .....	Newton-Meters .....	0.11375	Kilopascals .....	Pounds per Square Inch .....	0.145
Pounds per Square Inch ..	Kilopascals .....	6.895	Kilometers per Liter ...	Miles per Gallon .....	2.354
Ounce-Inches .....	Newton-Meters .....	0.007062	Kilometers per Hour ...	Miles per Hour .....	0.621
Miles per Gallon .....	Kilometers per Liter .....	0.425	°Fahrenheit .....	°Celsius .....	$°C = (°F - 32) \times 5/9$
Miles per Hour .....	Kilometers per Hour .....	1.609	°Celsius .....	°Fahrenheit .....	$°F = (9/5 \times °C) + 32$

