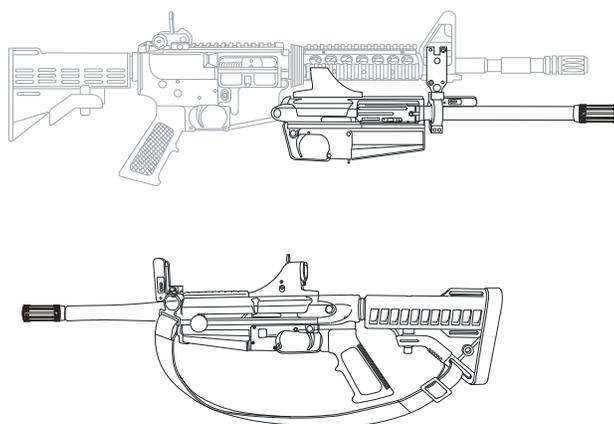


TM 9-1005-341-23&P

TECHNICAL MANUAL
FIELD MAINTENANCE MANUAL
INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST
FOR
MODULAR ACCESSORY SHOTGUN SYSTEM, M26
NSN 1005-01-535-3487 (EIC:4KH)



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HEADQUARTERS, DEPARTMENT OF THE ARMY

15 March 2011

WARNING SUMMARY

This warning summary contains general safety warning and hazardous materials warnings that must be understood and applied during operation and maintenance of this equipment. Failure to observe these precautions could result in serious injury or death. Also included are explanations of safety and hazardous materials icons used within the technical manual. Cleaning solvents (as well as items, such as cleaning rags, contaminated with these substances) may be considered hazardous waste and may require disposal in accordance with federal, state, DOD, and DA hazardous waste regulations. Consult the installation environmental office for proper disposal guidance.

FIRST AID

For first aid information, refer to FM 4-25.11, First Aid.

EXPLANATION OF SAFETY WARNING ICONS



EYE PROTECTION – arrows bouncing off face with face shield shows that particles flying through the air will harm face.



HEAVY PARTS – hand with heavy object on top shows that heavy parts can crush and harm.



WEAPON FIRE – accidental discharge of a weapon could penetrate the body, causing serious injury or death.

GENERAL SAFETY WARNINGS DESCRIPTION

WARNING



To avoid injury, exercise care when removing items which are under spring pressure.

WARNING



Use care when positioning trigger guard to avoid injury to fingers.

WARNING



Ensure weapon is clear before starting this task. Weapon can fire if loaded, causing serious injury or death to personnel.

WARNING SUMMARY - Continued

EXPLANATION OF HAZARDOUS MATERIALS ICONS



CHEMICAL - drops of liquid on hand shows that the material will cause burns or irritation to human skin or tissue.



FIRE - flame shows that a material may ignite and cause burns.

HAZARDOUS MATERIALS DESCRIPTION

WARNING



Cleaning solvent is flammable. Do not clean parts near an open flame or in a smoking area. Cleaning solvent evaporates quickly and has a drying effect on the skin. When used without protective gloves, this chemical may cause irritation to, or cracking of, the skin.

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TM 9-1005-341-23&P, dated 15 March 2011, is updated as follows

1. File this sheet in front of the manual for reference.
2. This change is a result of 2028.
3. New or updated text is indicated by a vertical bar in the outer margin of the page.
4. Deleted illustrations are indicated by a vertical bar adjacent to the figure number.
5. Remove old pages and insert new pages as indicated below:

Remove pages

a through b
A
i through vii
Front Cover

Insert pages

a through b
A
i through vii
Front Cover

6. Replace the following work packages with their revised version.

Work Package Number

WP 0001
WP 0009
WP 0011

WP 0013
WP 0014
WP 0020

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General, United States Army

Chief of Staff

Official:


JOYCE E. MORROW

Administrative Assistant to the

Secretary of the Army

1204502

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 Change 1 19 March 2012

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|------------------------------|------------------------|
| Front Cover..... | 0 |
| Warning Summary (2 pgs)..... | 1 |
| A | 1 |
| B blank..... | 0 |
| i - v..... | 1 |
| vi blank | 0 |
| Chapter 1 title page | 0 |
| WP 0001 (4 pgs)..... | 1 |
| WP 0002 (4 pgs)..... | 0 |
| WP 0003 (2 pgs)..... | 0 |
| Chapter 2 title page | 0 |
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HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 15 MARCH 2011

**TECHNICAL MANUAL
FIELD MAINTENANCE MANUAL
INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST
FOR
MODULAR ACCESSORY SHOTGUN SYSTEM, M26
NSN 1005-01-535-3487 (EIC:4KH)**

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HOW TO USE THIS MANUAL

The safest, easiest, and best way to maintain the M26 Modular Accessory Shotgun System (MASS) is to use this manual. Learning to use this TM is as easy as reading through this section. Knowing the contents of this manual and how to use it will save time and work and will help to avoid exposure to unnecessary hazards while performing your job.

So where do you start?

Right here, if this is the first time you are using this TM. Be sure to completely read this section on how to use this manual first. There's a lot of information here that you need to know.

Organization

This manual covers the maintenance of the MASS. The manual is divided into five chapters. Chapters are divided into Work Packages. The five chapters, and what they contain, are found in the Table of Contents in the front of this manual. For example, to learn about field maintenance of the MASS, you would look in the table of contents and discover that Chapter 3 provides all pertinent information about the field maintenance of the system. Since Chapter 3 covers a great deal of information, you will have to scan the chapter to find the specific information you will need.

In the final chapter of this manual, you will find supporting information. Each work package provides specific information that will assist you in performing the various maintenance tasks. The work packages provide such information as additional references (i.e., other TMs or FMs), as in WP 0020, and Maintenance Allocation Chart (MAC), as in WP 0022. Become familiar with all supporting information before beginning any maintenance task.

Am I ready to use this TM?

If you've taken the time necessary to read this section, and are sure of the location and arrangement of the different sections of this TM, you are ready to begin. Remember, this TM has been arranged with you, the user, in mind. Your safety and ability to perform the maintenance tasks in the most efficient manner hinge on your ability to perform and understand the information contained in this manual. If you fully understand the arrangement and purpose of this TM, and have taken the time to read through this section, you will have no trouble maintaining this system in the manner for which it was designed.

CHAPTER 1

**GENERAL INFORMATION,
EQUIPMENT DESCRIPTION,
AND THEORY OF OPERATION
FOR
M26 MODULAR ACCESSORY
SHOTGUN SYSTEM (MASS)**

FIELD MAINTENANCE
GENERAL INFORMATION

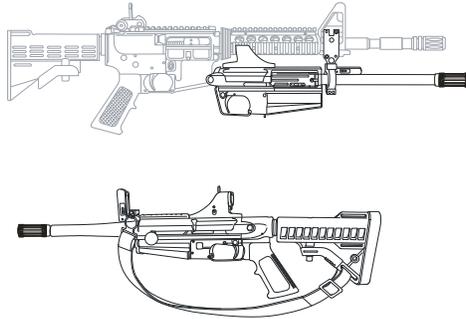


Figure 1. Modular Accessory Shotgun System, M26.

SCOPE

Type of Manual. Field maintenance manual.

Model Number and Equipment Name. M26 Modular Accessory Shotgun System (MASS).

Purpose of Equipment. The purpose of the MASS is to provide personnel with the capability to fire non-lethal, lethal, and door breaching rounds in the field. It can be fired when attached to the M4 Carbine using the iron sights, back-up iron sights, or other authorized optical devices. It can be configured as a stand-alone shotgun when equipped with the pistol grip and butt stock included in the stand-alone module. The adapter rail (stand-alone configuration) allows the operator the capability to mount various accessories on the MASS.

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.

Accidents involving injury to personnel or damage to materiel will be reported on DA Form 285 (Accident Report) in accordance with DA PAM 385-40. Explosives and ammunition malfunctions will be reported with AR 75-1.

REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR)

If your M26 MASS needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you do not like about your equipment. Let us know why you do not like the design or performance. If you have Internet access, the easiest and fastest way to report problems or suggestions is to follow the instructions and links below: For ALL non-Aviation/Missile Warranty, EIR and PQDRs must be submitted through the Web Product Quality Deficiency Reporting (PQDR) site. Note that all CECOM managed (B16), including aviation, items must also be submitted through the following site. The Web PQDR Web site is: <http://www.nslcptsmh.csd.disa.mil/webpqdr/webpqdr.htm>. New accounts can be established at the following address: <http://www.nslcptsmh.csd.disa.mil/accessforms/uarform.htm>. All AMCOM (Aviation and Missile Command) Deficiency Reports (DRs), (Warranty, EIR, and PQDRs) must be submitted through the Joint Deficiency Reporting System (JDRS) at https://jdrs.mil/DR_Initiate.cfm?service=AR. You may also submit your information using an SF 368 (Product Quality Deficiency Report). You can send your SF 368 using e-mail, regular mail, or fax using the addresses/fax numbers specified in (*DA PAM 750-8, The Army Maintenance Management System (TAMMS) Users Manual* OR *DA PAM 738-751, Functional Users Manual for the Army Maintenance Management Systems - Aviation (TAMMS-A) for aviation systems*). We will send you a reply.

CORROSION PREVENTION AND CONTROL (CPC)

Corrosion Prevention and Control (CPC) of Army materiel 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 ensure that the information is identified as a CPC problem.

The form should be submitted to:

ATTN: AMSTA-AR-QAW-C
 TACOM-ARDEC
 6501 E. 11 Mile Road
 Warren, MI. 48397-5000

DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE

Procedures and materials used for the destruction of the MASS in order to prevent enemy use will be found in TM 750-244-7.

PREPARATION FOR STORAGE OR SHIPMENT

For storage requirements, follow unit standard operating procedures (SOP).

NOMENCLATURE CROSS-REFERENCE LIST

| <u>Common Name</u> | <u>Official Nomenclature</u> |
|--------------------|------------------------------|
| Charging handle | Charging handle assembly |

LIST OF ABBREVIATIONS/ACRONYMS

| Abbreviation/Acronym | |
|-----------------------------|----------------------------------|
| CCO | Close Combat Optics |
| MASS | Modular Accessory Shotgun System |
| SOP | Standard Operating Procedures |
| VCI | Volatile Corrosion Inhibitor |

QUALITY OF MATERIAL

Material used for replacement, repair, or modification must meet the requirements of this TM 9-1005-341-23&P. If quality of material requirements is not stated in this TM 9-1005-341-23&P, 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.

NOTE

When servicing this weapon, performing maintenance, or disposing of materials such as cleaning fluids, cleaning compounds, lubricants, and sealing compounds as well as items contaminated with these substances (such as cleaning rags) consult your unit/local hazardous waste disposal center or safety office for local regulatory guidance. If further information is needed, please contact The Army Environmental Hotline at 1-800-872-3845 / OCONUS: 410-436-1244 or online at <http://aec.army.mil/usaec/contactus.html>. Accidental or intentional introduction of contaminants into the environment violates military, state, and federal regulations. Failure to comply may adversely affect the public or environment.

END OF WORK PACKAGE

FIELD MAINTENANCE
EQUIPMENT DESCRIPTION AND DATA

EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES

Characteristics

The M26 Modular Accessory Shotgun System (MASS) is a multi-shot 12-gauge shotgun with straight push-pull action that attaches under the barrel of the M4 series carbine. It is box magazine-fed, air-cooled, and manually-operated. When attached to the host weapon, sighting is done with the use of rifle/carbine sighting system or M68 Close Combat Optics (CCO).

Capabilities and Features

Capable of firing lethal, non-lethal, and door breaching rounds.

Can be used as a stand-alone weapon with the addition of a stand-alone module.

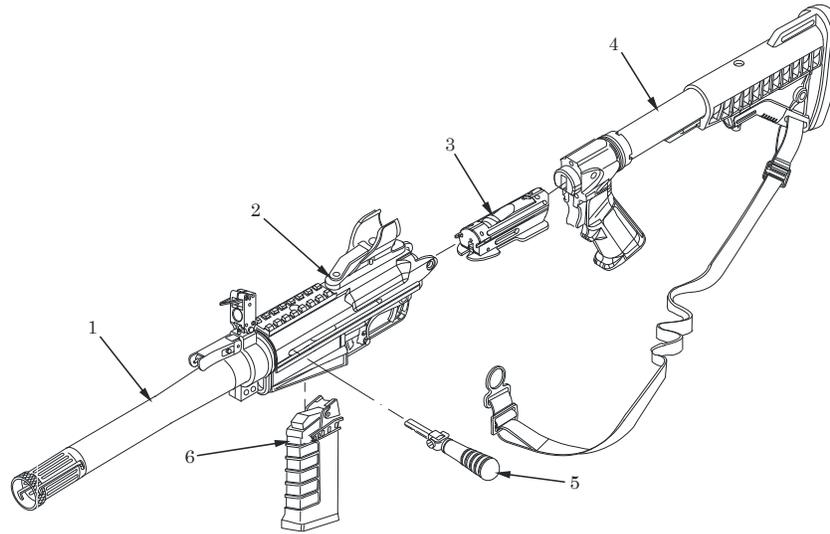
LOCATION AND DESCRIPTION OF MAJOR COMPONENTS


Figure 1. Major Components of MASS.

Barrel Assembly (1). Chambers the shot shell for firing and guides the projectile.

Receiver Assembly (2). Provides support for the bolt/bolt carrier assembly and houses the moving parts of the weapon.

Bolt/Bolt Carrier Assembly (3). Provides feeding, chambering, firing, extraction, and ejection of cartridges using manual action for power.

Stand Alone Module (4). Provides capability to use weapon without mounting to host weapon. Includes front sight, pistol grip, adjustable butt stock, and sling.

Charging Handle (5). Provides charging of the MASS. The charging handle can be folded down and locks in the forward position when a round is chambered. It can be installed on either side of the weapon to accommodate both left-hand and right-handed firers.

Magazine Assembly (6). Holds up to five cartridges for feeding and provides a quick reload capability for sustained firing. A three-round magazine is also available. Refer to Additional Authorization List in TM 9-1005-341-10.

EQUIPMENT DATA

PHYSICAL CHARACTERISTICS - ATTACHED MODE

Caliber12-gauge
 Weight 2.9 lb (1.3 kg)
 Length 16.5 in. (41.9 cm)
 Mechanical Features Cylinder bore

PHYSICAL CHARACTERISTICS - STAND ALONE MODE

Caliber12-gauge
 Weight 5.15 lb (2.3 kg)
 Length 26.5 in. (67.3 cm)
 Mechanical Features Cylinder bore

FIRING CHARACTERISTICS

Muzzle Velocity Ammunition specific
 Maximum Effective Rate of Fire.....Firer dependent
 Maximum Effective Range
 Non-lethal 66 ft (20 m)
 Buckshot 131 ft (40 m)
 Lethal Breaching Rounds0 to 3 in. (0 to 7.6 cm)
 Maximum Range..... Ammunition specific
 Safety Mechanism Safe-Fire

END OF WORK PACKAGE

FIELD MAINTENANCE
THEORY OF OPERATION

THEORY

1. With round chambered and weapon against shoulder of firer, safety mechanism is moved from safe position to fire position.
2. Squeezing the trigger releases the hammer which strikes the firing pin, causing it to impact the primer of the round.
3. Gas from the burning propellant pushes the projectile along the barrel of the MASS.

END OF WORK PACKAGE

CHAPTER 2

FIELD
TROUBLESHOOTING PROCEDURES
FOR
M26 MODULAR ACCESSORY
SHOTGUN SYSTEM (MASS)

**FIELD MAINTENANCE
TROUBLESHOOTING INDEX**

GENERAL

Troubleshooting procedures are limited to those listed in the troubleshooting table. The table lists the common malfunctions which you may find during the operation or maintenance of the M26 Modular Accessory Shotgun System (MASS) or its components. You should perform the tests/inspections and corrective actions in the order listed.

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

See the troubleshooting table (WP 0005) for malfunctions, tests, and corrective actions. The symptom index is provided for a quick reference to the malfunctions covered in the table.

MALFUNCTION/SYMPTOM INDEX

| <u>Symptom</u> | <u>Work Package - Page</u> |
|--------------------------|----------------------------|
| Failure to Chamber | 0005-1 |
| Failure to Eject | 0005-3 |
| Failure to Extract | 0005-3 |
| Failure to Feed | 0005-1 |
| Failure to Fire | 0005-2 |
| Failure to Lock | 0005-2 |

END OF WORK PACKAGE

**FIELD MAINTENANCE
TROUBLESHOOTING PROCEDURES**

INITIAL SETUP:**References**

TM 9-1005-341-10
 WP 0010
 WP 0013
 WP 0014

TROUBLESHOOTING PROCEDURES

Table 1. Troubleshooting Procedures.

MALFUNCTION**TEST OR INSPECTION****CORRECTIVE ACTION****1. FAILURE TO FEED.**

Step 1. Inspect magazine release.

If worn or broken, replace trigger housing assembly (WP 0014).

Step 2. Inspect for broken, worn, or missing cartridge guide.

Replace any broken, worn, or missing parts (WP 0013).

Step 3. Inspect feed ramp.

Remove any burrs. If worn or broken, replace feed ramp (WP 0010).

2. FAILURE TO CHAMBER.

Step 1. Inspect for obstruction in chamber.

Remove obstruction. If removing obstruction does not remedy deficiency, continue with next step.

Step 2. Inspect bolt assembly and bolt carrier assembly.

Replace any worn, broken, or missing parts (WP 0013).

TROUBLESHOOTING PROCEDURES - Continued**Table 1. Troubleshooting Procedures - Continued.**

MALFUNCTION**TEST OR INSPECTION****CORRECTIVE ACTION**

3. FAILURE TO LOCK.

Step 1. Verify deficiency by closing bolt on an empty chamber and attempting to pull charging handle to rear without aid of action lock release.

If charging handle fails to remain locked in forward position, continue with next step.

Step 2. Inspect locking bar.

If worn or broken, replace locking bar (WP 0013).

Step 3. Inspect action lock, action lock bushing, and action lock spring.

Replace any worn or broken parts (WP 0014).

4. FAILURE TO FIRE.

Step 1. Check trigger and safety mechanism for proper operation. Refer to TM 9-1005-341-10.

If trigger or safety mechanism fails to operate properly, continue with next step.

Step 2. Inspect safety mechanism.

If worn or broken, replace safety mechanism (WP 0014).

Step 3. Inspect for worn, broken, or missing firing pin and firing pin spring.

Replace any worn, broken, or missing parts (WP 0013).

Step 4. Inspect for dirt or residue build up on firing pin and around firing pin hole.

Disassemble and clean firing pin and firing pin hole (WP 0013).

Step 5. Inspect hammer and hammer spring.

Replace any worn or broken parts (WP 0014).

Step 6. Inspect trigger housing assembly.

Replace assembly if any parts are worn or broken (WP 0014).

Table 1. Troubleshooting Procedures - Continued.

MALFUNCTION

TEST OR INSPECTION

CORRECTIVE ACTION

5. FAILURE TO EXTRACT.

Step 1. Inspect both extractors for freedom of movement.

If either extractor is immovable, clean and lubricate. Refer to TM 9-1005-341-10. If movement is not restored after cleaning and lubrication, continue with next step.

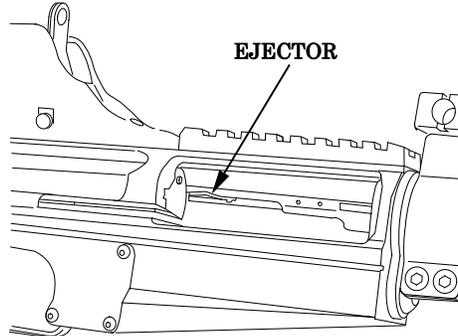
Step 2. Inspect right-hand extractor, detent, and spring.

Repair or replace any burred, worn, or broken parts (WP 0013).

Step 3. Inspect left-hand extractor and spring.

Repair or replace any burred, worn, or broken parts (WP 0013).

6. FAILURE TO EJECT.



Step 1. Inspect for burred, worn, or broken ejector.

Replace ejector if burred, excessively worn, broken, or missing (WP 0010).

END OF WORK PACKAGE

CHAPTER 3

**FIELD
MAINTENANCE INSTRUCTIONS
FOR
M26 MODULAR ACCESSORY
SHOTGUN SYSTEM (MASS)**

**FIELD MAINTENANCE
SERVICE UPON RECEIPT**

INITIAL SETUP:

References

- DA PAM 750-8
- SF 364
- TM 9-1005-341-10

SERVICE UPON RECEIPT OF MATERIEL

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. Service Upon Receipt.

| Location | Item | Action | Remarks |
|--------------|-------------------|---|---------|
| 1. Container | Basic Issue Items | Check unpacked equipment. <ul style="list-style-type: none"> a. Inspect the equipment for damage incurred during shipment. If the equipment has been damaged, report the damage on SF 364, Supply Discrepancy Report (SDR). b. 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. c. Check to see whether the equipment has been modified. | |

SERVICE UPON RECEIPT OF MATERIEL - Continued

Table 1. Service Upon Receipt - Continued.

| Location | Item | Action | Remarks |
|----------|-----------------|---|---------|
| 2. MASS | Barrel Assembly | Remove volatile corrosion inhibitor (VCI) from barrel. Discard. | |
| 3. MASS | Weapon | a. Field strip weapon and inspect for missing parts (TM 9-1005-341-10). b. Clean and lubricate (TM 9-1005-341-10). c. Reassemble (TM 9-1005-341-10). d. Perform function check (TM 9-1005-341-10). | |

END OF WORK PACKAGE

FIELD MAINTENANCE**PREVENTIVE MAINTENANCE CHECKS AND SERVICES INTRODUCTION
GENERAL, EXPLANATION OF COLUMN ENTRIES**

GENERAL

Preventive Maintenance Checks and Services (PMCS) (WP 0008) must be performed by field maintainer to be sure M26 Modular Accessory Shotgun System (MASS) is in good operating condition and ready for its primary mission.

To ensure maximum operational readiness, it is necessary for MASS to be inspected at regular intervals so that any defects can be discovered and corrected before serious damage or failure occurs.

Always observe WARNINGS and CAUTIONS before and during operation. A WARNING means someone could be hurt. A CAUTION means equipment could be damaged. If equipment fails to operate, troubleshoot it. Report any deficiencies using proper forms. See DA PAM 750-8.

NOTE

When servicing this weapon, performing maintenance, or disposing of materials such as cleaning fluids, cleaning compounds, lubricants, and sealing compounds as well as items contaminated with these substances (such as cleaning rags) consult your unit/local hazardous waste disposal center or safety office for local regulatory guidance. If further information is needed, please contact The Army Environmental Hotline at 1-800-872-3845 / OCONUS: 410-436-1244 or online at <http://aec.army.mil/usaec/contactus.html>. Accidental or intentional introduction of contaminants into the environment violates military, state, and federal regulations. Failure to comply may adversely affect the public or environment.

EXPLANATION OF COLUMN ENTRIES

When recording results of PMCS, entries in the PMCS ITEM NO. column will be used for the TM Item No. column on DA Form 5988-E, Equipment Inspection and Maintenance Worksheet - Electronic, or DA Form 2404, Equipment Inspection and Maintenance Worksheet.

The INTERVAL column tells you when to do the check or service listed in the PROCEDURE column. BEFORE checks and services are performed prior to the MASS leaving its containment area or performing its mission. DURING checks begin when the MASS is being used and AFTER checks and services begin when the MASS is taken out of its mission mode or is returned to its containment area.

The ITEM TO BE CHECKED OR SERVICED column tells you the component of the MASS to be checked. The amount of time required is indicated in the MAN-HOUR column.

The EQUIPMENT NOT READY/AVAILABLE IF column indicates deficiencies which must be corrected before the MASS can be used.

END OF WORK PACKAGE

FIELD MAINTENANCE
PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS),
INCLUDING LUBRICATION INSTRUCTIONS

INITIAL SETUP:

Materials/Parts

- Cleaning solvent (WP 0023, item 3)
- Solid film lubricant (WP 0023, item 5)

References

- TM 9-1005-341-10
- WP 0010
- WP 0012
- WP 0014
- WP 0015

PMCS PROCEDURES

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. Field Preventive Maintenance Checks and Services
 for M26 Modular Accessory Shotgun System (MASS).**

NOTE

Unless otherwise stated, inspections are scheduled quarterly (Q).

| Item No. | Interval | Man-Hour | Item To Be Checked or Serviced | Procedure | Equipment Not Ready/Available If: |
|----------|-----------|----------|--------------------------------|--------------------------------------|-----------------------------------|
| 1 | Quarterly | | MASS | a. Check for missing pins or screws. | a. Pins or screws are missing. |

PMCS PROCEDURES - Continued

Table 1. Field Preventive Maintenance Checks and Services for M26 Modular Accessory Shotgun System (MASS) - Continued.

| Item No. | Interval | Man-Hour | Item To Be Checked or Serviced | Procedure | Equipment Not Ready/Available If: |
|-------------|---------------------|----------|--------------------------------|-----------|-----------------------------------|
| 1 (Cont) | Quarterly (Cont) | | MASS (Cont) | | |

WARNING



Cleaning solvent is flammable. Do not clean parts near an open flame or in a smoking area. Cleaning solvent evaporates quickly and has a drying effect on the skin. When used without protective gloves, this chemical may cause irritation to, or cracking of, the skin.

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.

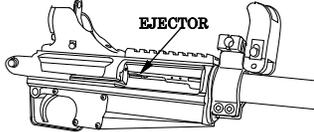
FOR CONUS USE ONLY: Solid film lubricant (WP 0023, item 5) may be used as a touchup without limitation on the receiver assembly. The units which DO NOT fall under the category of Divisional Combat Units or rapid deployment type units may have up to 100 percent of the exterior surface of the receiver 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 replaced 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 which fall under the definition of Rapid Deployment type, must adhere to the limitation of NOT over one third of the exterior surface covered by SFL.

If one third or more of the receiver is missing its exterior protective finish, resulting in an unprotected or light-reflecting surface, it is a candidate for overhaul. The 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.

Once the missing exterior protective finish of the receiver has exceeded one third of its total surface, the probability of reclaiming the receiver during overhaul diminishes rapidly. In order to extend the life of the receiver, which is the serial numbered item, it is necessary to evacuate the weapon to depot when the missing finish reaches one third of the total surface of the receiver. Thoroughly clean areas that are to be touched up using cleaning solvent (WP 0023, item 3). Touch up shiny exterior surfaces with solid film lubricant (WP 0023, item 5).

Table 1. Field Preventive Maintenance Checks and Services for M26 Modular Accessory Shotgun System (MASS) - Continued.

| Item No. | Interval | Man-Hour | Item To Be Checked or Serviced | Procedure | Equipment Not Ready/Available If: |
|-------------|---------------------|----------|--------------------------------|--|--|
| 1 (Cont) | Quarterly (Cont) | | MASS (Cont) | b. Check metal surface finish; touch up if necessary. | |
| 2 | Quarterly | | Barrel Assembly | a. Check barrel assembly and barrel retaining screw for looseness (WP 0010). b. Inspect barrel for rust, cracks, dents, and bulges. c. Visually check barrel for straightness. <p style="text-align: center;">NOTE</p> Bolt must be locked to rear to gain access to ejector.  | a. Barrel is loose. b. Barrel is rusted, cracked, dented, or bulging. c. Barrel is noticeably bent. d. Ejector is broken, burred, excessively worn, or bent. e. Front sight has broken or missing parts. |
| 3 | Quarterly | | Upper Receiver Assembly | a. Check bolt assembly for freedom of movement. b. Check bolt carrier for proper operation (WP 0012). c. Check rear sight/bracket for broken, missing parts or loose screws. | a. Bolt assembly will not move. b. Bolt carrier will not move, or has broken or missing parts. c. Rear sight/bracket has broken, missing parts or loose screws. |

PMCS PROCEDURES - Continued

Table 1. Field Preventive Maintenance Checks and Services for M26 Modular Accessory Shotgun System (MASS) - Continued.

| Item No. | Interval | Man-Hour | Item To Be Checked or Serviced | Procedure | Equipment Not Ready/Available If: |
|----------|-----------|----------|--------------------------------|---|--|
| 4 | Quarterly | | Lower Receiver Assembly | a. Check trigger guard hollow pin screw(s) for burrs, bends, and looseness of installation (WP 0014). b. Check trigger for proper operation. c. Check action lock for function. d. Inspect lower receiver assembly for cracks, bulges, broken or weak parts. | a. Hollow pin screw(s) are missing. b. Trigger hangs loose, will not move, or is bent or broken. c. Action lock is inoperative. d. If cracks are found on the lower receiver, code the weapon for turn-in and request a new weapon. |
| 5 | Quarterly | | Stand Alone Module | a. Check for broken or missing swivels. b. Inspect butt stock for cracks, breakage, or looseness (WP 0015). c. Inspect butt stock for leakage or no compression. | b. Butt stock is loose, cracked, or broken. c. Butt stock displays leakage or no compression. |
| 6 | Quarterly | | MASS | Function check weapon (TM 9-1005-341-10). | Weapon fails function check. |
| 7 | Periodic | | Upper Receiver Assembly | Every three years, inspect receiver plug for general condition including dryness, hardness, dry rot, cracking, chipping, or tears. | |

END OF WORK PACKAGE

FIELD MAINTENANCE

**MOUNTING UPPER BRACKET ASSEMBLY TO HOST WEAPON
REMOVAL, REPAIR OR REPLACEMENT, INSTALLATION**

INITIAL SETUP:

Tools and Special Tools

Small Arms Tool Kit, 5180-95-B76

References

TM 9-1005-319-10

TM 9-1005-319-23&P

TM 9-1005-341-10

WP 0017

Equipment Condition

Side swivel mount removed if present (TM 9-1005-319-23&P)

REMOVAL

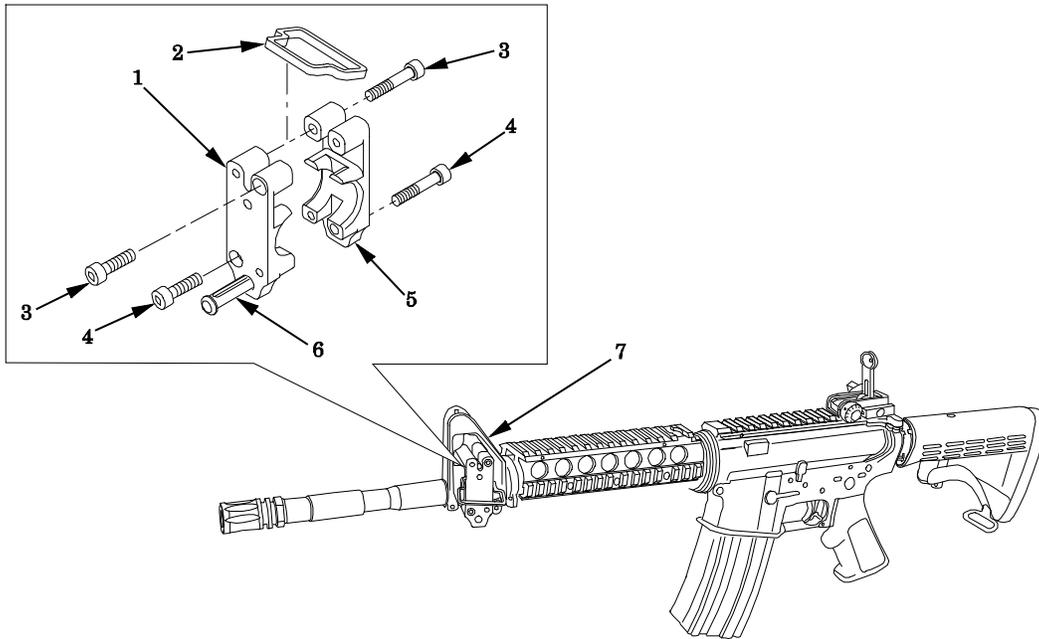


Figure 1. Removal and Installation of Upper Bracket Assembly.

1. Push out takedown pin (6). Remove M26 Modular Accessory Shotgun System (MASS) from host weapon. Refer to TM 9-1005-341-10.
2. Remove four socket head, cap screws (3 and 4) from right bracket half (1) and left bracket half (5) using 1/8 in. key wrench.
3. Remove right bracket half (1), left bracket half (5), and sling swivel (2) from front sight tower (7) of host weapon.

END OF TASK

REPAIR OR REPLACEMENT

Replace defective parts as authorized by WP 0017.

END OF TASK

INSTALLATION

1. Hold right bracket half (1), with takedown pin (6), against right side of front sight tower (7).
2. Align sling swivel (2) and right bracket half (5) against right side of front sight tower (7).

NOTE

Ensure sling swivel is not bound up between the bracket and front sight tower.

For right-handed firer, sling swivel can be positioned against left bracket half.

3. Align and install four socket head cap, screws (3 and 4) into right bracket half (1) and left bracket half (5).
4. Fully tighten lower two socket head cap, screws (4) until right bracket half (1) and left bracket half (5) come into contact, while maintaining proper alignment with front sight tower (7).
5. Hand tighten upper two socket head cap, screws (3) while maintaining proper alignment with front sight tower (7).
6. Remove lower adapter rail from host weapon. Refer to TM 9-1005-319-10.
7. Remove sling from host weapon (forward sling swivel).

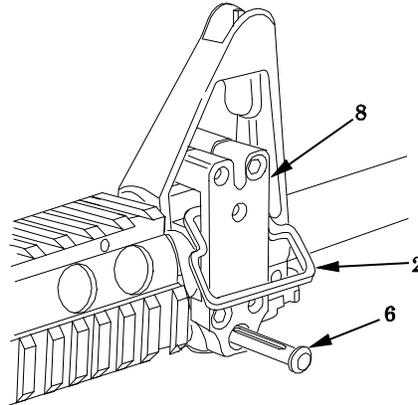


Figure 2. Sling Attachment.

8. Reattach sling to sling swivel (2) on upper bracket assembly (8).

NOTE

When takedown pin reaches stopping point, do not force pin past locking position.

9. Push takedown pin (6) from upper bracket assembly (8).

INSTALLATION - Continued**NOTE**

Deleted

Figure 3. Deleted

10. Deleted

NOTE

If upper bracket assembly or lower bracket assembly has been repaired, host weapon must be present upon receipt of MASS to allow alignment.

When moving MASS from one host weapon to another, it may be necessary to loosen both upper and lower bracket assemblies in order to align elevation block with upper bracket assembly.

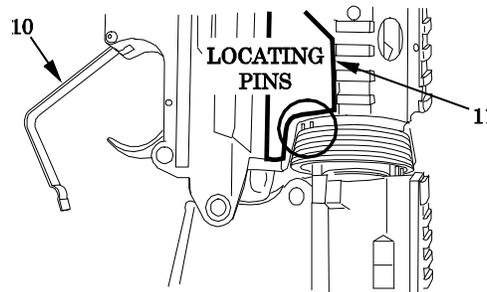


Figure 4. Positioning MASS on Host Weapon.

11. Position trigger guard (10) so it is open and free from retention by the magazine well of the host weapon. Ensure rubber receiver plug is seated securely in upper receiver.
12. Insert rear bracket (11) in barrel nut of host weapon. Ensure that two locating pins are seated within teeth spaces of barrel nut of host weapon. Apply downward pressure to seat, until hole in elevation block (9) is aligned with takedown pin (6).

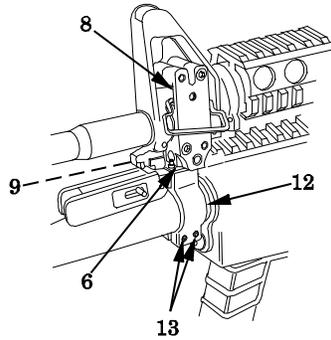


Figure 5. Seating MASS on Host Weapon.

13. Place elevation block (9) in opening of upper bracket assembly (8) and, with hand pressure, ensure that MASS is seated as close to weapon receiver as possible. Push takedown pin (6) through elevation block.
14. Use rearwards pressure so rear bracket (11) is tight against barrel nut of host weapon, while holding barrels of MASS and host weapon in one hand and drawing them together.
15. Move bottom of lower bracket assembly (12) toward muzzle of MASS with opposite hand.
16. Fully tighten two, cap, screws (13) of lower bracket assembly (12).

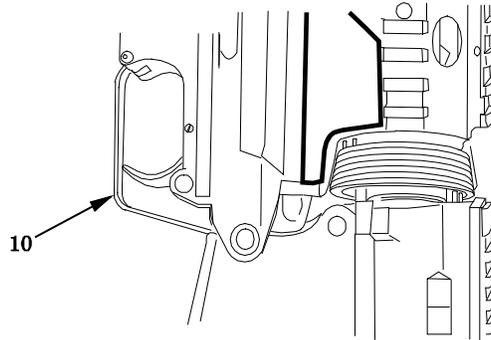


Figure 6. Positioning Trigger Guard.

WARNING



Use care when positioning trigger guard to avoid injury to fingers.

17. Position trigger guard (10) between MASS and magazine well of host weapon. Trigger guard will be properly aligned when it is retained by magazine well.

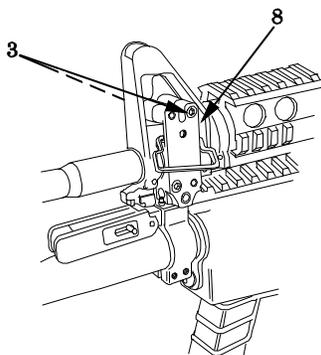
INSTALLATION - Continued

Figure 7. Tightening Cap screws.

CAUTION

A loose mount bracket may cause malfunctions while firing.

18. Fully tighten upper two socket head cap, screws (3) in upper bracket assembly (8) using 1/8 in. key wrench.
19. Grasp MASS and host weapon and check for up and down movement.

END OF TASK

END OF WORK PACKAGE

FIELD MAINTENANCE
BARREL ASSEMBLY MAINTENANCE
DISASSEMBLY, REPAIR OR REPLACEMENT, ASSEMBLY

INITIAL SETUP:**Tools and Special Tools**

Shop Set, Small Arms: Field Maintenance, Basic Less Power, SC 4933-95-A11
Small Arms Tool Kit, 5180-95-B76

Materials/Parts

Barrel screw, 29000002
Retaining plate screw, 29000003

References

TM 9-1005-341-10
WP 0012
WP 0017

Equipment Conditions

MASS removed from upper bracket assembly on host weapon (WP 0009)
Magazine removed from weapon (TM 9-1005-341-10)
Weapon cleared and on "Safe" (no red visible) (TM 9-1005-341-10)

NOTE

Check barrel assembly and barrel retaining screw for looseness.
Loose screw should be replaced with new screw.

DISASSEMBLY

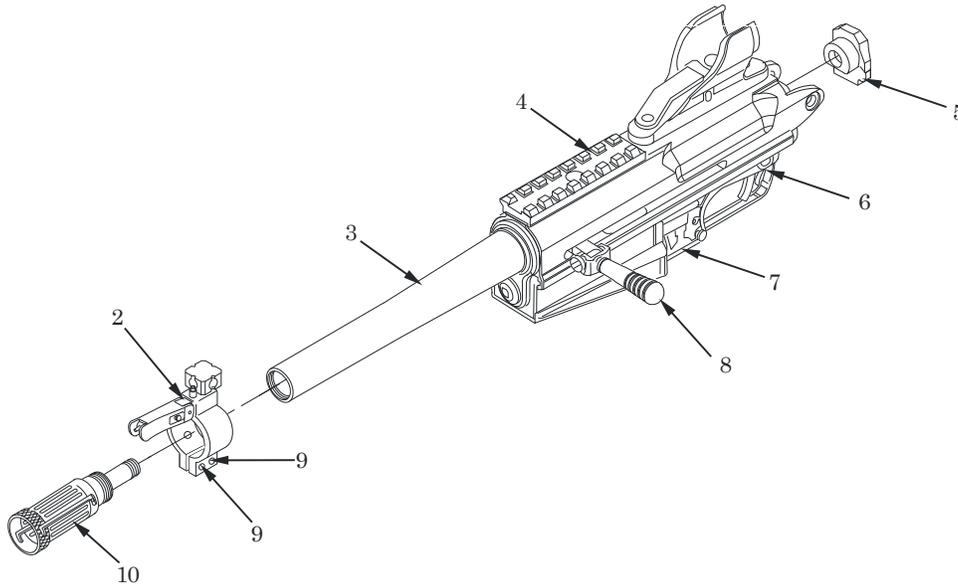


Figure 1. Removal of Lower Bracket Assembly.

WARNING



To avoid injury or death, ensure that the weapon is cleared of ammunition before performing maintenance.

1. Depress action lock release (7), pull charging handle (8) rearward, and lock bolt into forward position. Place safety mechanism (6) in safe position (no red visible).
2. Remove standoff device (10) (see TM 9-1005-341-10) from barrel (3).
3. Remove receiver plug (5) from upper receiver (4).
4. Loosen two socket head cap, screws (9), using 1/8 in. key wrench, and slide lower bracket assembly (2) from barrel (3).

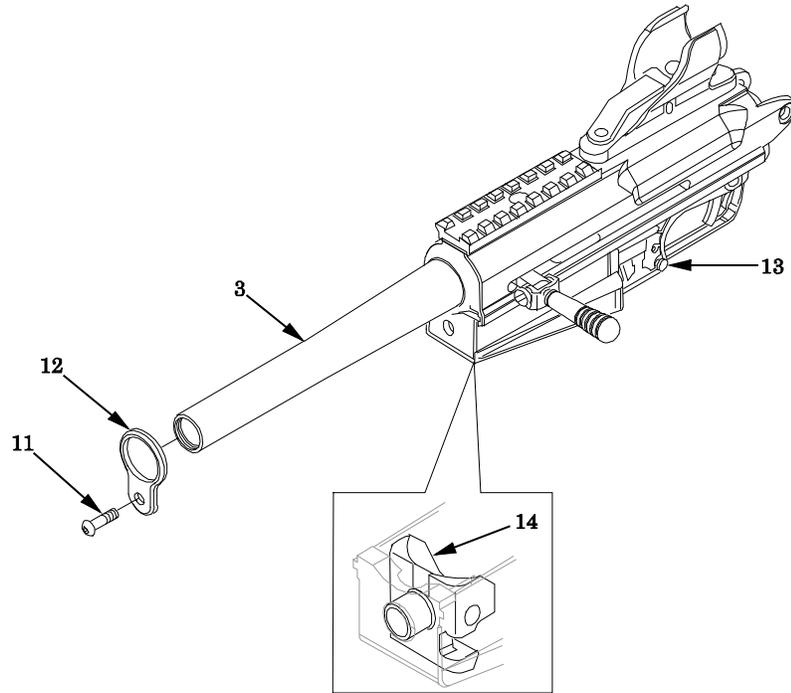


Figure 2. Removal of Retaining Plate.

5. Remove charging handle and bolt/bolt carrier assembly from receiver assembly (WP 0012).
6. Remove retaining plate screw (11) using 3/16 in. key wrench. Discard retaining plate screw.
7. Remove retaining plate (12) from barrel (3).
8. Push shoulder of feed ramp (14) and remove feed ramp from lower receiver assembly (13).

DISASSEMBLY - Continued

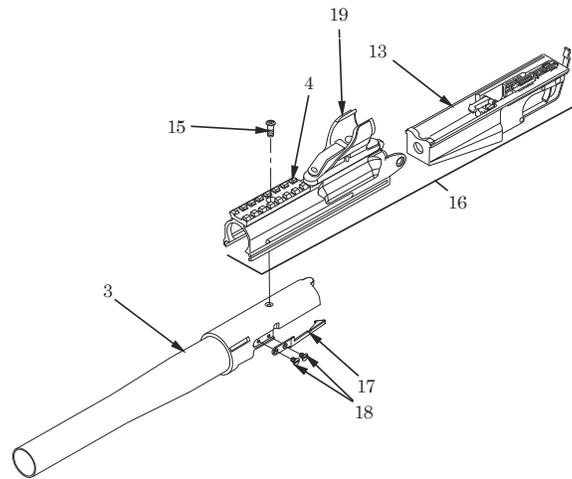


Figure 3. Disassembly of Barrel and Receiver Assembly.

9. Remove barrel screw (15) using 5/32 in. key wrench. Discard barrel screw.
10. Remove barrel (3) from receiver assembly (16).
11. Separate lower receiver assembly (13) from upper receiver (4).
12. Visually inspect ejector (17) on barrel (3). If ejector is burred, excessively worn, broken, or missing, replace ejector. Remove two slotted head screws (18) fastening ejector to barrel. Discard screws and ejector.

END OF TASK

REPAIR OR REPLACEMENT

1. Replace defective parts as authorized by WP 0017.
2. If upper receiver requires replacement, remove rear bracket (19) from upper receiver (WP 0012).

END OF TASK

ASSEMBLY

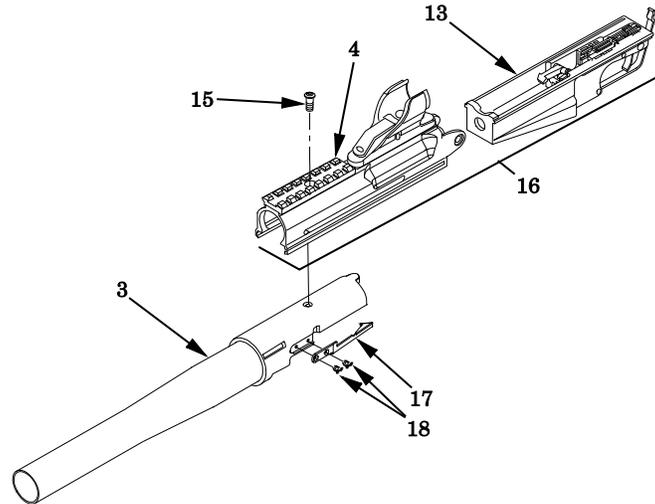


Figure 4. Assembly of Barrel and Receiver Assembly.

NOTE

Ensure that hammer is cocked and safety mechanism is in safe position (no red visible) before assembly of receiver and barrel.

1. If ejector (17) was removed or missing, install new ejector. Position new ejector on barrel, aligning two holes in ejector with two threaded holes in barrel (3). Fasten ejector to barrel with two new slotted head screws (18).
2. Slide lower receiver assembly (13) onto upper receiver (4).
3. Install barrel (3) to receiver assembly (16) and align holes.
4. Install new barrel screw (15) to top of receiver assembly (16) and torque to 100 in-lb (11.4 N-m).

ASSEMBLY - Continued

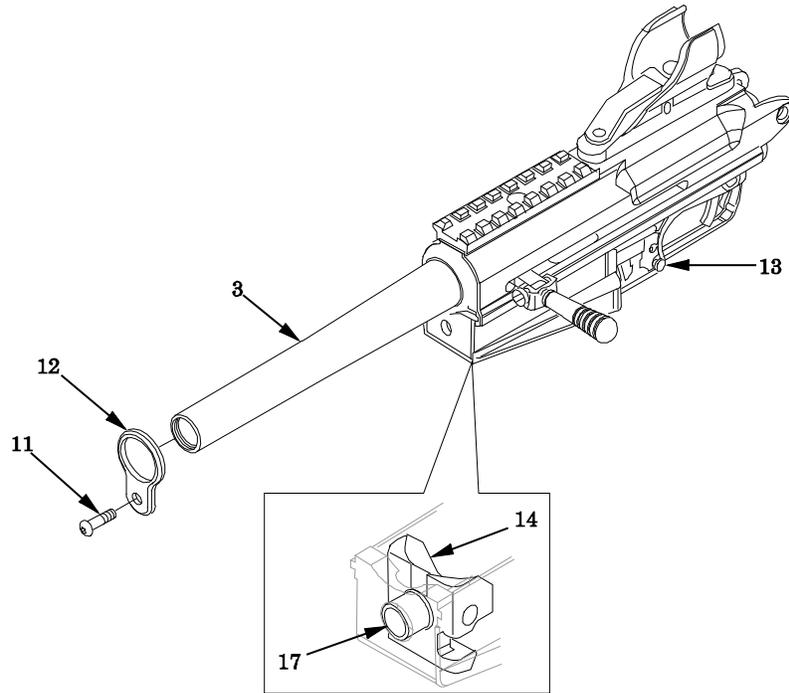


Figure 5. Installation of Retaining Plate.

5. Install feed ramp (14) through magazine well of lower receiver assembly (13); position shoulder (17) of feed ramp through hole in front of lower receiver.

NOTE

Ensure that flat side of retaining plate faces lower receiver assembly.

6. Install retaining plate (12) onto barrel (3). Position against shoulder of barrel.
7. Install new retaining plate screw (11) and torque to 250 in-lb (28 N-m).
8. Install bolt/bolt carrier assembly and charging handle (WP 0012).

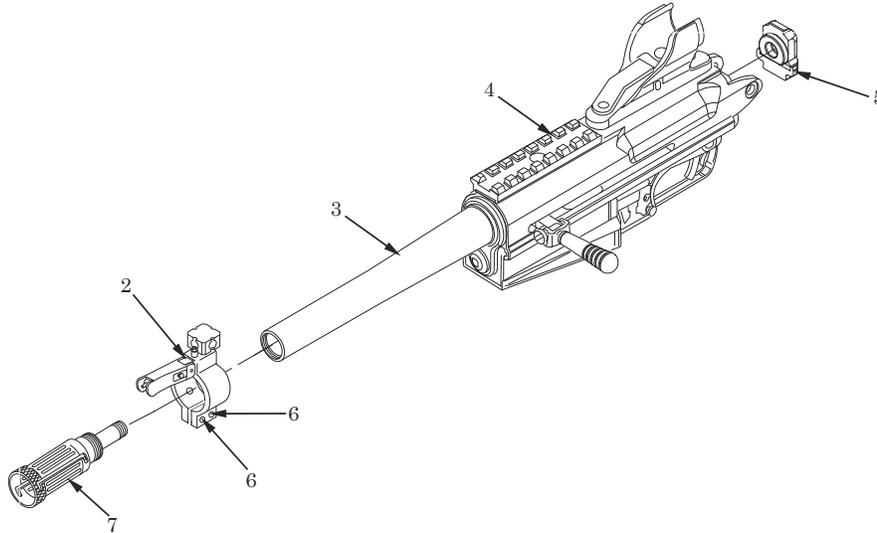


Figure 6. Installation of Lower Bracket Assembly.

9. Install lower bracket assembly (2), with detent toward muzzle of barrel (3), by sliding onto barrel.

NOTE

Align witness mark on lower bracket assembly with line on barrel. Ensure lower bracket assembly aligns with host weapon before tightening socket head cap, screws.

Host weapon must be present upon receipt of MASS to allow alignment.

10. Tighten two socket head cap, screws (6) using 1/8 in. key wrench.
11. Install standoff device (7) (see TM 9-1005-341-10) to barrel (3).
12. Install receiver plug (5) on upper receiver (4). Position receiver plug on rear of upper receiver and press in.

END OF TASK

END OF WORK PACKAGE

FIELD MAINTENANCE

**LOWER BRACKET ASSEMBLY MAINTENANCE
DISASSEMBLY, REPAIR OR REPLACEMENT, ASSEMBLY**

INITIAL SETUP:

Tools and Special Tools

Small Arms Tool Kit, 5180-95-B76

References

WP 0017

Equipment Condition

Lower bracket assembly removed from barrel (WP 0010)

DISASSEMBLY

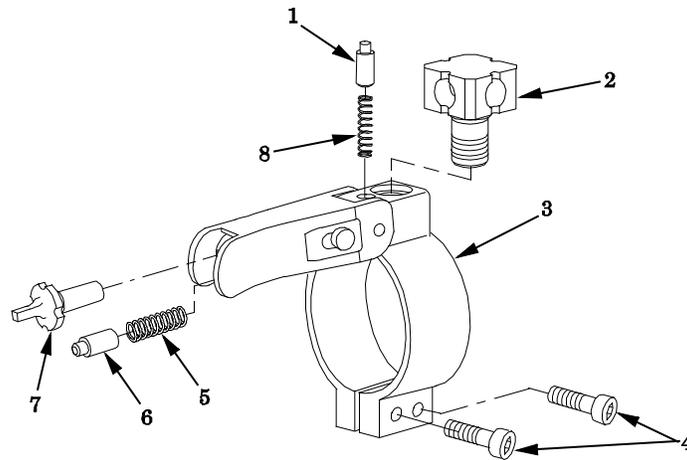


Figure 1. Disassembly/Assembly of Lower Bracket Assembly.

1. Remove two socket head cap, screws (4) from gun retainer (3) using 1/8 in. key wrench.

WARNING



To avoid injury, exercise care when removing detent due to spring pressure. Protective eyewear is recommended.

2. Depress detent (1) and unscrew elevation block (2) from gun retainer (3).
3. Turn gun retainer (3) over and gently shake to remove detent (1) and detent spring (8).
4. If damage to front sight is evident or function is impaired, remove front sight post (7), front sight detent (6), and front sight detent spring (5).

END OF TASK

REPAIR OR REPLACEMENT

Replace defective parts as authorized by WP 0017.

END OF TASK

ASSEMBLY

1. If removed, install front sight detent spring (5), front sight detent (6), and front sight post (7).
2. Install detent spring (8) and detent (1) into gun retainer (3).
3. Hold detent (1) in position and install elevation block (2) to gun retainer (3).
4. Install two socket head cap, screws (4) and hand tighten.

NOTE

If upper bracket assembly or lower bracket assembly has been repaired, host weapon must be present upon receipt of MASS to allow alignment.

END OF TASK**END OF WORK PACKAGE**

FIELD MAINTENANCE
UPPER RECEIVER ASSEMBLY MAINTENANCE
DISASSEMBLY, REPAIR OR REPLACEMENT, ASSEMBLY

INITIAL SETUP:**Tools and Special Tools**

Small Arms Tool Kit, 5180-95-B76

References

WP 0017

Equipment Condition

MASS removed from upper bracket assembly on host weapon (WP 0009)

Magazine removed from weapon (TM 9-1005-341-10)

Weapon cleared and on "Safe" (no red visible) (TM 9-1005-341-10)

Standoff Assembly removed (WP 0010)

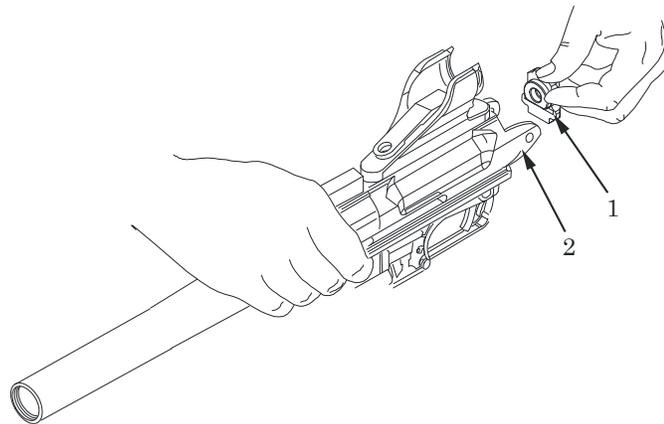
DISASSEMBLY

Figure 1. Removal of Receiver Plug.

1. Pull receiver plug (1) straight back to remove from receiver assembly (2).

DISASSEMBLY - Continued

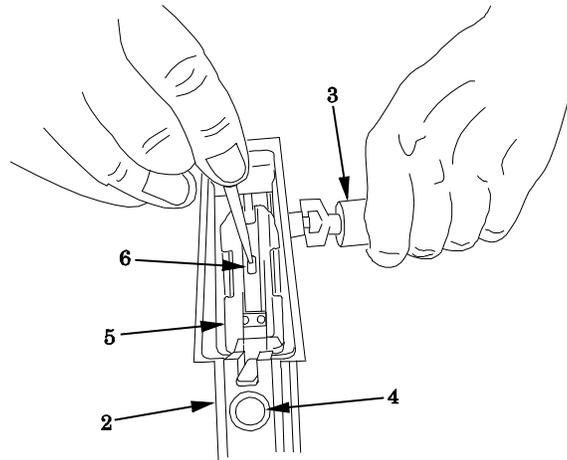


Figure 2. Removal of Charging Handle.

NOTE

Charge weapon and place safety mechanism in safe position (no red visible) before removal of charging handle.

2. Hold charging handle (3) while depressing charging handle retaining plunger (6) with punch. Remove charging handle.
3. Depress action lock release (4) and use charging handle (3) or fingers to push bolt/bolt carrier assembly (5) to rear of receiver assembly (2).

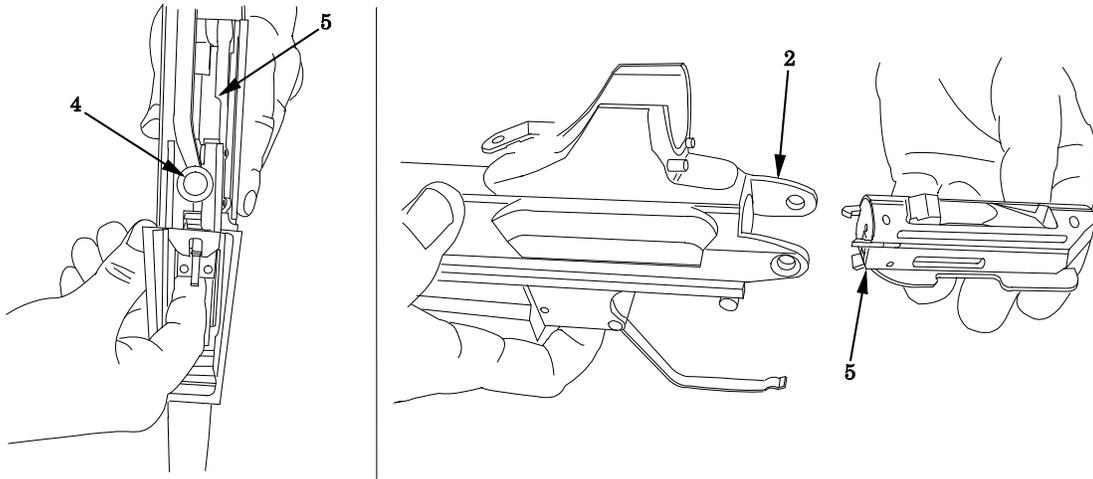


Figure 3. Removal of Bolt/Bolt Carrier Assembly.

CAUTION

To avoid damage to charging handle detent spring, remove bolt and bolt carrier as an assembly.

4. Remove bolt/bolt carrier assembly (5) from rear of receiver assembly (2).

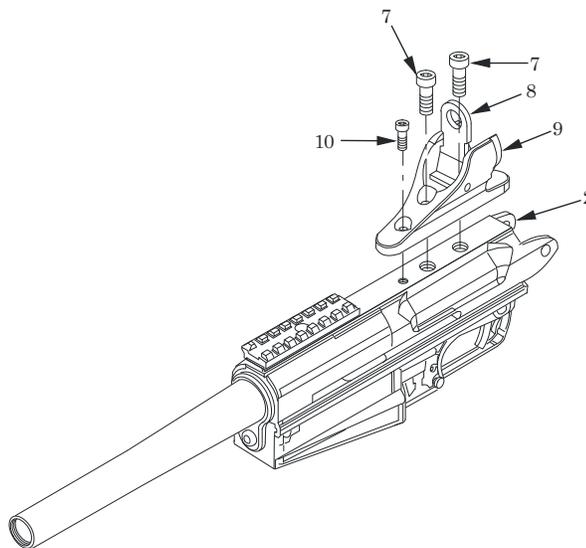


Figure 4. Removal of Rear Bracket.

5. Place rear sight (8) in up position.
6. Remove two socket head, cap screws (7) from rear bracket (9), using 3/16 in. key wrench.
7. Remove socket head, cap screw (10) and rear bracket (9) from receiver assembly (2), using 5/32 in. key wrench.

END OF TASK

REPAIR OR REPLACEMENT

Replace defective parts as authorized by WP 0017.

END OF TASK

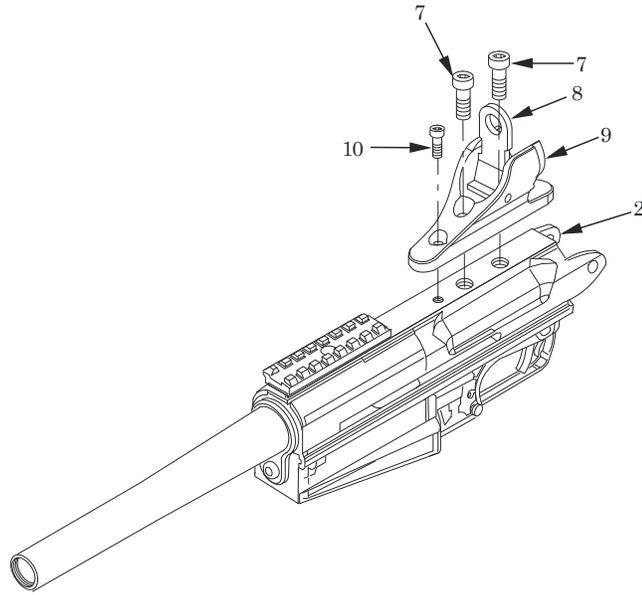
ASSEMBLY

Figure 5. Installation of Rear Bracket.

1. Ensure that rear sight (8) is in up position.
2. Align holes in rear bracket (9) with holes in receiver assembly (2) and install socket head, cap screw (10). Tighten cap screw with 5/32 in. key wrench. Torque to 100 in-lb (11.4 N-m).
3. Install two socket head cap, screws (7) in rear bracket (9) and tighten with 3/16 in. key wrench. Torque to 150 in-lb (17.1 N-m).

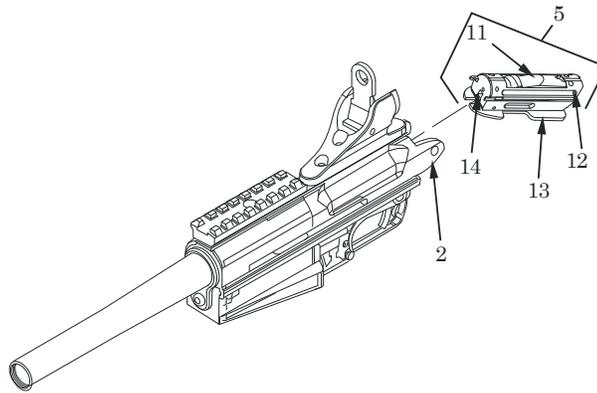


Figure 6. Installation of Bolt/Bolt Carrier Assembly.

CAUTION

The hammer must be in cocked position and safety mechanism must be in safe position (no red visible) before installing bolt/bolt carrier assembly. Do not pull trigger when bolt is not installed.

4. Press cartridge guide (14) upward (toward firing pin hole) and insert bolt/bolt carrier assembly (5), with rear of assembly inclined slightly downward, into receiver assembly (2).
5. Move bolt carrier (13) to rear until locking bar (11) drops into recess of bolt (12) and then push bolt/bolt carrier assembly (5) forward to the locked position.

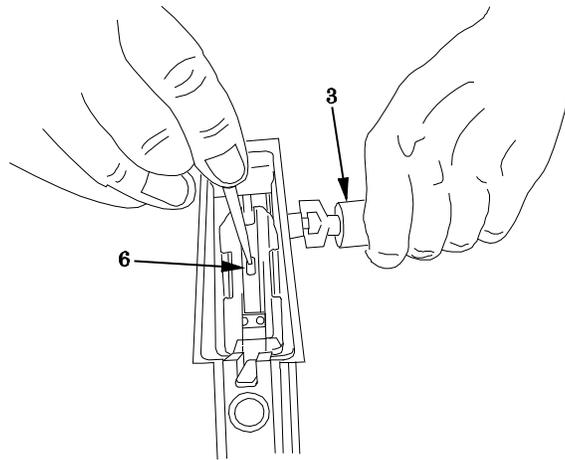


Figure 7. Installation of Charging Handle.

6. Hold charging handle (3) while depressing charging handle retaining plunger (6) with punch.
7. Install charging handle (3), with cutouts facing toward magazine well.

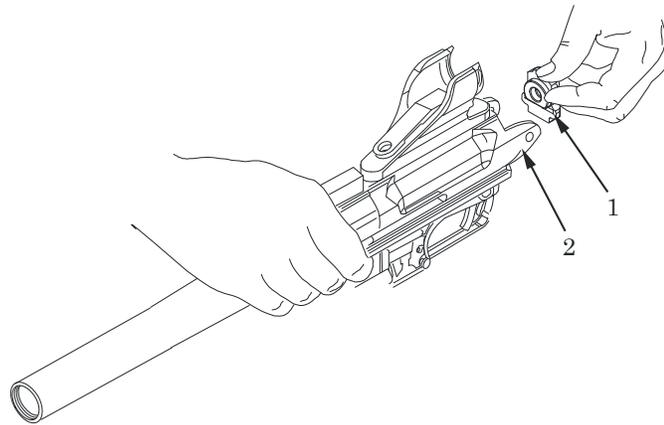
ASSEMBLY - Continued

Figure 8. Installation of Receiver Plug.

8. Install receiver plug (1) by pressing into receiver assembly (2).

END OF TASK

END OF WORK PACKAGE

FIELD MAINTENANCE**BOLT/BOLT CARRIER ASSEMBLY MAINTENANCE
DISASSEMBLY, REPAIR OR REPLACEMENT, ASSEMBLY**

INITIAL SETUP:**Tools and Special Tools**

Small Arms Tool Kit, 5180-95-B76

Materials/Parts

Bolt carrier plunger spring, 21031040

Retaining pin, 29000016

Retaining pin, 29000019

Retaining pin, 21031116

Right extractor spring, 21031030

Left extractor spring, 21031148

References

WP 0017

Equipment Condition

Bolt/bolt carrier assembly removed from upper receiver assembly (WP 0012)

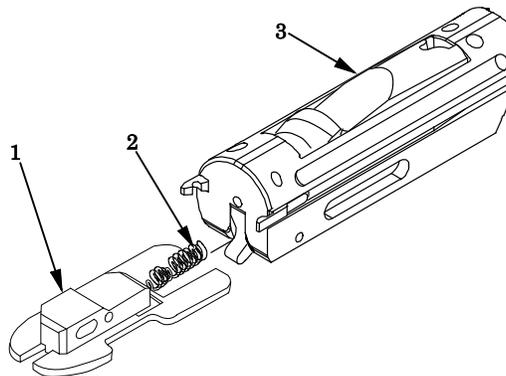
DISASSEMBLY

Figure 1. Removal of Bolt Carrier Assembly.

CAUTION

Exercise care when removing bolt carrier assembly to avoid damage to bolt carrier spring (2).

1. Slide bolt carrier assembly (1) to remove from bolt body (3).

DISASSEMBLY - Continued

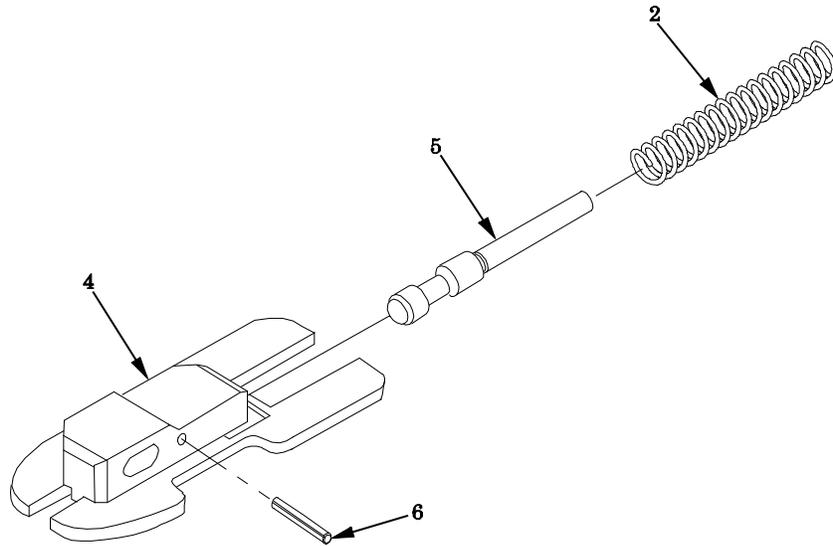


Figure 2. Disassembly of Bolt Carrier Assembly.

2. Using 1/16 in. punch and hammer, remove retaining pin (6) from bolt carrier (4). Discard retaining pin.
3. Remove bolt carrier plunger spring (2) and bolt carrier plunger (5). Separate spring from plunger and discard spring.

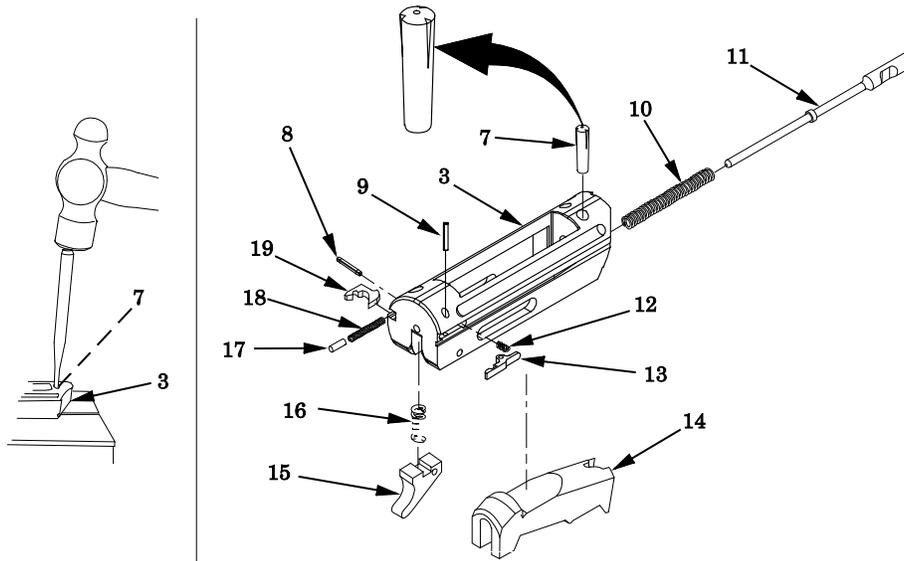


Figure 3. Disassembly of Bolt Assembly.

4. Place bolt body (3) on solid surface, aligning with clearance for removal of solid retaining pin (7).
5. Rotate bolt body (3) so that underside faces upward. Using 3/32 in. punch and hammer, tap solid retaining pin (7) out of bolt body. Discard solid retaining pin.
6. Insert 1/16 in. punch through firing pin hole and push out firing pin (11) and firing pin spring (10) from rear of bolt body (3).
7. Remove block bolt (14) from bolt body (3).
8. Remove firing pin spring (10) from firing pin (11).

WARNING



To avoid injury, exercise care when removing cartridge guide due to spring pressure. Protective eyewear is highly recommended.

9. Using 3/32 in. punch and hammer, remove retaining pin (8) from bolt body (3).
10. Remove outrigger (15) and outrigger guide spring (16).
11. Fully depress extractor detent (17) using flat tip screwdriver.
12. Rotate right extractor (19) toward firing pin hole and remove extractor, extractor detent (17), and extractor spring (18). Discard extractor spring.
13. Rotate bolt body (3) so that underside faces upward. Using 1/16 in. punch and hammer, tap retaining pin (9) out of bolt body, freeing left extractor (13) and extractor spring (12). Remove left extractor and extractor spring. Discard retaining pin and extractor spring.

END OF TASK

REPAIR OR REPLACEMENT

Replace defective parts as authorized by WP 0017.

NOTE

If one extractor is worn or broken and requires replacement, discard both the right and left extractors, retaining pins, and extractor springs and replace with new parts.

END OF TASK

ASSEMBLY

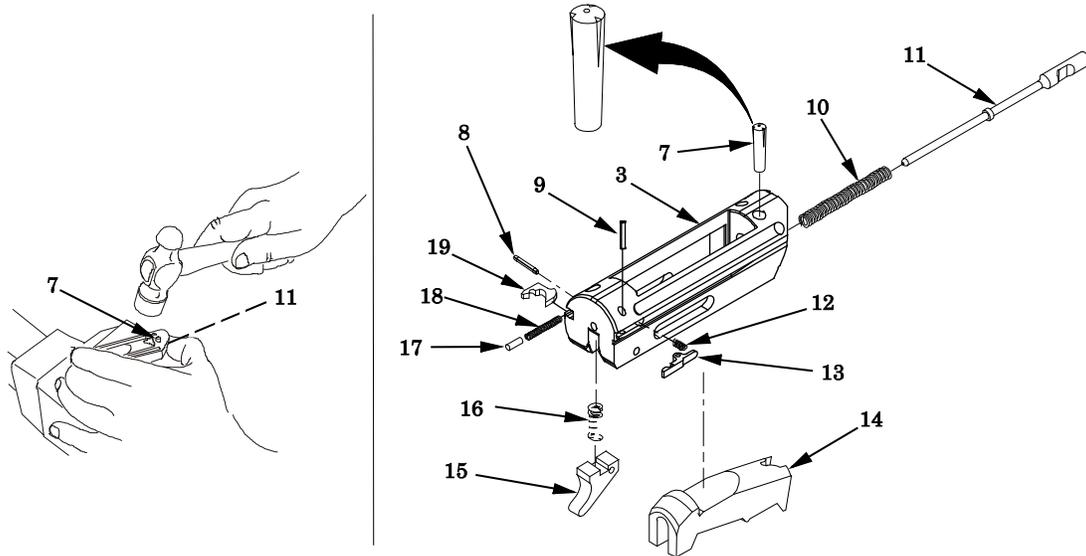


Figure 4. Assembly of Bolt Assembly.

1. Position bolt body (3) so that its top side faces up.
2. Insert new extractor spring (12) into recess in left extractor (13). Compress spring and fit extractor spring and extractor into slot in bolt body (3).

CAUTION

New left extractor retaining pin must be installed so that top of pin is just below flush in order to avoid interference with receiver.

3. Hold left extractor (13) and extractor spring (12) in place on bolt body (3) and insert new retaining pin (9) into hole in top of bolt body. Tap retaining pin downward into hole using hammer and 1/16 in. punch. Install pin so that top of pin is just below flush.
4. Insert new right extractor spring (18) and align extractor detent (17) on spring.
5. Fully depress extractor detent (17) with flat tip screwdriver and install right extractor (19).
6. Start new retaining pin (8) into hole of bolt body (3).
7. Install outrigger spring (16) and outrigger (15) into bolt body (3) and secure with retaining pin (8).
8. Install block bolt (14) into bolt body (3).
9. Install firing pin spring (10) on firing pin (11). Install firing pin into bolt body (3) with cutout facing left side of bolt body.

NOTE

Ensure that groove on solid retaining pin is facing upward.

10. Compress firing pin (11) and insert new solid retaining pin (7) into hole in top of bolt body (3). Tap solid retaining pin downward into hole using hammer and 3/32 in. punch. Install solid retaining pin so that its top is just below flush.

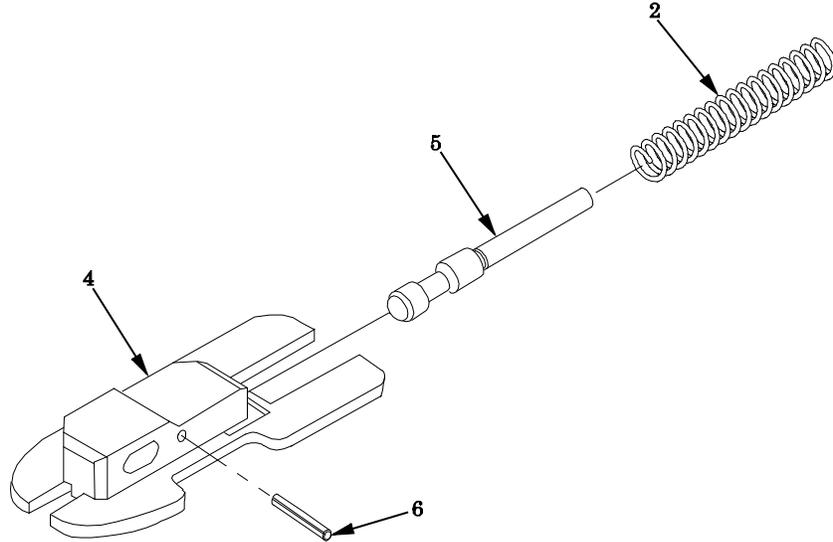


Figure 5. Assembly of Bolt Carrier Assembly.

11. Install new bolt carrier plunger spring (2) on bolt carrier plunger (5) and install assembled parts into bolt carrier (4). Ensure that spring engages groove on plunger.
12. Using 1/16 in. punch and hammer, install new retaining pin (6) into bolt carrier (4) until flush, ensuring that pin secures bolt carrier plunger (5) but allows movement.

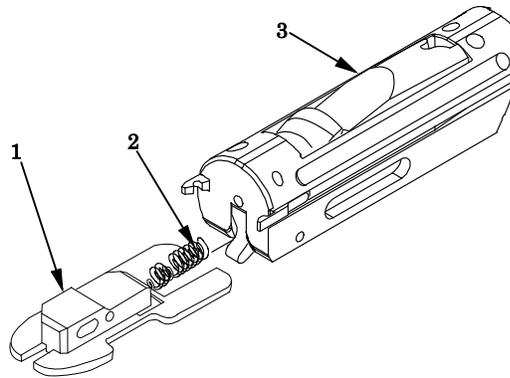


Figure 6. Assembly of Bolt Assembly and Bolt Carrier Assembly.

CAUTION

Exercise care when installing bolt body onto bolt carrier assembly to avoid damage to bolt carrier spring.

ASSEMBLY - Continued

13. Install bolt body (3) onto bolt carrier assembly (1), ensuring that bolt carrier plunger spring (2) is inserted into hole at back of bolt body (3).

END OF TASK**END OF WORK PACKAGE**

FIELD MAINTENANCE**LOWER RECEIVER ASSEMBLY MAINTENANCE
DISASSEMBLY, REPAIR OR REPLACEMENT, ASSEMBLY, TEST AND INSPECTION**

INITIAL SETUP:**Tools and Special Tools**

Small Arms Tool Kit, 5180-95-B76

Materials/Parts

Hammer spring, 21031023

Hollow pin (4), 21031027

Hollow pin screw (4), 29000014

References

WP 0009

WP 0010

WP 0011

WP 0012

WP 0013

WP 0017

Equipment Condition

Receiver assembly removed from barrel assembly (WP 0010)

Lower receiver assembly removed from upper receiver assembly (WP 0010)

DISASSEMBLY

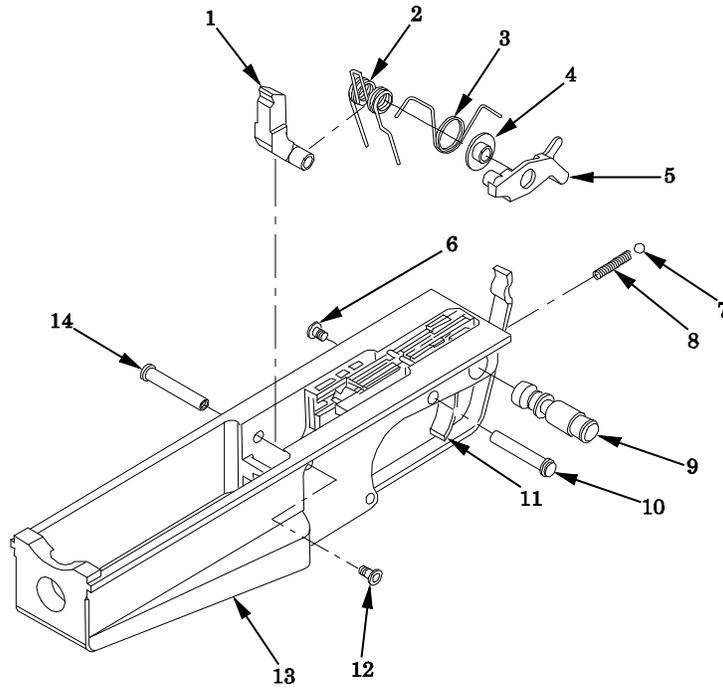


Figure 1. Removal of Hammer.

WARNING



To avoid injury, exercise care when removing safety mechanism and/or hammer due to spring pressure. Protective eyewear is highly recommended.

NOTE

The hammer and action lock, with assembled parts, can be removed without removal of safety mechanism. If this is desired, proceed to step 5. To remove safety mechanism, begin with step 1.

To avoid loss of components use care when removing safety mechanism. Safety detent and detent spring are under pressure.

1. Cock hammer (1) so hammer is securely retained. Push safety mechanism (9) to fire position (red visible).

CAUTION

When removing hollow pins and hollow pin screws, rotate screwdriver rather than key wrench to avoid damage to tools.

2. Remove hollow pin screw (6) and hollow pin (10). Continue to push safety mechanism (9) through holes to remove from lower receiver (13). Discard hollow pin and hollow pin screw.
3. Remove safety detent (7) and detent spring (8).
4. Apply thumb pressure to hammer (1) and pull trigger (11) to release and decock hammer.
5. Using 1/16 in. key wrench and small flat tip screwdriver, remove hollow pin screw (12), hollow pin (14), and assembled hammer (1), hammer spring (2), action lock (5), action lock bushing (4), and action lock spring (3). Discard hollow pin and hollow pin screw.
6. Separate action lock (5), action lock bushing (4), action lock spring (3), and hammer spring (2) from hammer (1). Discard hammer spring.

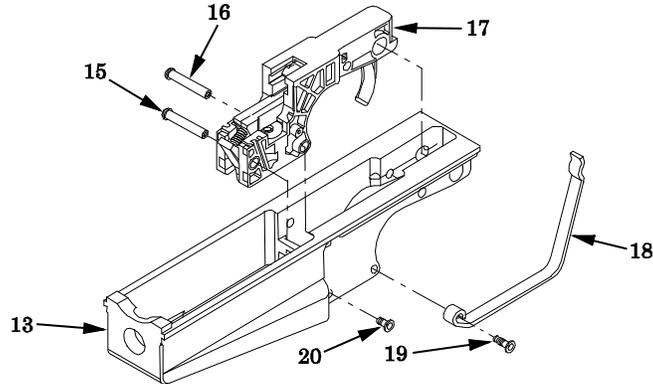


Figure 2. Removal of Trigger Housing Assembly.

7. Using 1/16 in. key wrench and small flat tip screwdriver, remove hollow pin screw (19), hollow pin (16), and trigger guard (18) from lower receiver (13). Discard hollow pin and hollow pin screw.
8. Using 1/16 in. key wrench and small flat tip screwdriver, remove hollow pin screw (20), hollow pin (15), and trigger housing assembly (17) from lower receiver (13). Discard hollow pin and hollow pin screw.

END OF TASK

REPAIR OR REPLACEMENT

Replace defective parts as authorized by WP 0017.

END OF TASK

ASSEMBLY

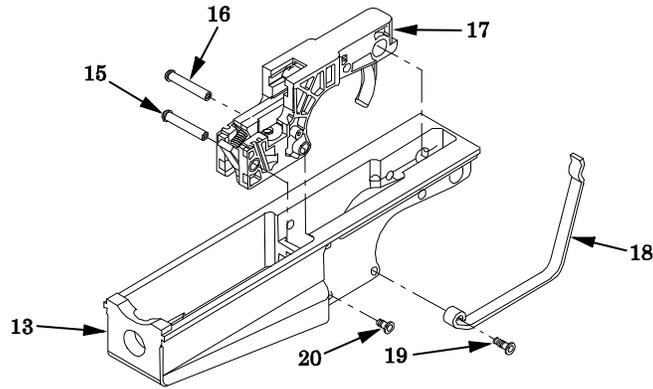


Figure 3. Installation of Trigger Housing Assembly.

CAUTION

When tightening hollow pins and hollow pin screws, rotate screwdriver rather than key wrench to avoid damage to hollow pin screw.

1. Install trigger housing assembly (17) in lower receiver (13). Install new hollow pin (15) and new hollow pin screw (20). Install upper hollow pin with head on left side of lower receiver. Tighten using 1/16 in. key wrench and small flat tip screwdriver.
2. Align end of trigger guard (18) with hole in trigger housing assembly (17) and secure with new hollow pin (16) and new hollow pin screw (19). Tighten using 1/16 in. key wrench and small flat tip screwdriver.

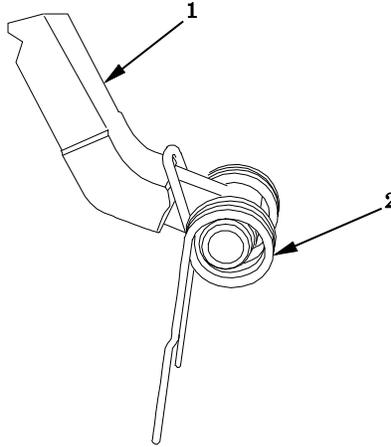


Figure 4. Installation of Hammer Spring on Hammer.

3. Install new hammer spring (2) on hammer (1).

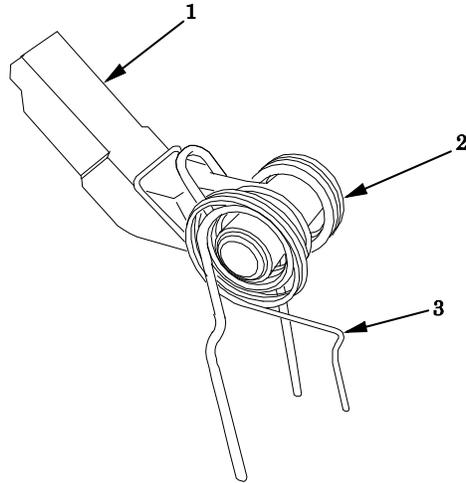


Figure 5. Installation of Action Lock Spring.

4. Insert bent leg of hammer spring (2) through coils of action lock spring (3). Position action lock spring with leg with larger offset behind hammer (1). Ensure leg of action lock spring is on outside surface of hammer.

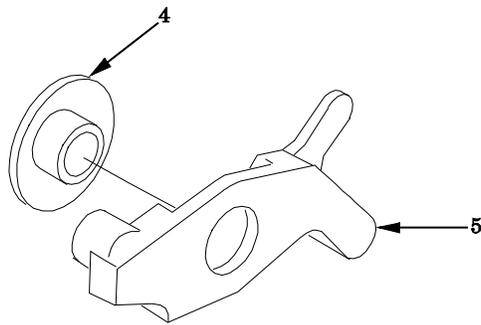


Figure 6. Assembly of Action Lock and Action Lock Bushing.

5. Install action lock bushing (4) on action lock (5).

ASSEMBLY - Continued

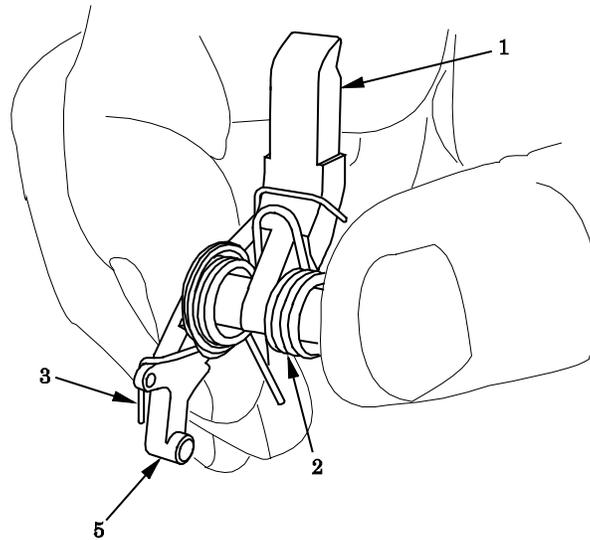


Figure 7. Assembly of Hammer and Action Lock.

6. Install action lock (5) on hammer (1) by positioning free leg of action lock spring (3) on offset behind action lock. Locate boss of action lock in front of hammer. Ensure that groove on action lock seats on groove of hammer. Ensure that hammer spring (2) and action lock spring are free to move without interference.

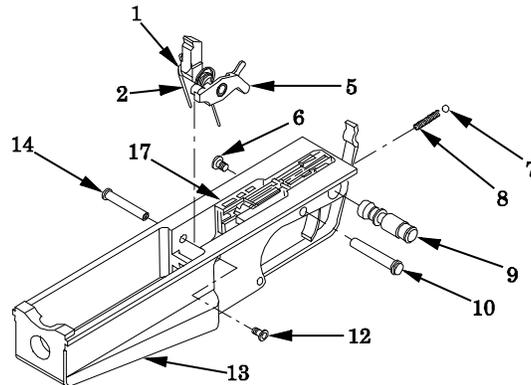


Figure 8. Installation of Hammer Assembly and Safety Mechanism.

CAUTION

When tightening hollow pins and hollow pin screws, rotate screwdriver rather than key wrench to avoid damage to hollow pin screw.

7. Install hammer/action lock assembly into trigger housing assembly (17). Insert legs of hammer spring (2) into holes in bottom of lower receiver (13). Align pivot holes of hammer (1) and action lock (5) with holes in lower receiver. Verify that spring tension is present. Cock hammer back slightly to assist in alignment and installation of new hollow pin (14). Install new hollow pin and new hollow pin screw (12). Tighten using 1/16 in. key wrench and small flat tip screwdriver.

NOTE

If safety mechanism was removed, perform steps 8 through 13.

8. Install new hollow pin (10) and new hollow pin screw (6). Tighten using 1/16 in. key wrench and small flat tip screwdriver.
9. Cock hammer (1) so hammer is securely retained.

NOTE

The safety mechanism can be installed from either side for ambidextrous operation. For right-handed operation, insert detent and detent spring into right hole in rear of lower receiver. For left-handed operation, insert detent and spring into left hole. The safety mechanism is always inserted with red ring away from detent and spring.

10. Install safety mechanism (9) and align with detent hole. Do not block hole.

NOTE

Ensure that detent spring and detent are installed in hole on opposite side from safety mechanism.

11. Install detent spring (8) through detent hole. Visually ensure that spring drops into receiver. Drop safety detent (7) into safety channel. Use small punch to depress safety detent and detent spring below flush.
12. Push safety mechanism (9) until it contacts punch. While applying steady pressure to safety mechanism, quickly remove punch.
13. Ensure that safety mechanism (9) will move freely and is secure in fire position (red visible) and safe position (no red visible).

END OF TASK

TEST AND INSPECTION

1. Complete reassembly of M26 Modular Accessory Shotgun System (MASS). See WP 0013, WP 0012, WP 0011, WP 0010, and WP 0009.
2. Perform the following steps to ensure correct functioning of the action mechanism and safety:
 - a. Ensure weapon is cleared. Pull charging handle completely to the rear, visually inspect chamber, and push charging handle completely forward.
 - b. Place weapon on "Safe" (no red visible on safety mechanism).
 - c. Pull trigger. The hammer should not fall.
 - d. Take weapon off "Safe" (red visible on safety mechanism).
 - e. Pull trigger. The hammer should fall.
 - f. Repeat three times. If any of the three attempts fail, repeat disassembly and assembly procedures in this work package.

END OF TASK**END OF WORK PACKAGE**

FIELD MAINTENANCE
STAND ALONE MODULE MAINTENANCE
DISASSEMBLY, REPAIR OR REPLACEMENT, ASSEMBLY

INITIAL SETUP:**Tools and Special Tools**

Small Arms Tool Kit, 5180-95-B76

Materials/Parts

Spring pin, 29000039

References

WP 0017

Equipment Condition

Stand alone module removed from weapon (TM 9-1005-341-10)

DISASSEMBLY**NOTE**

Step 1 applies to sling.

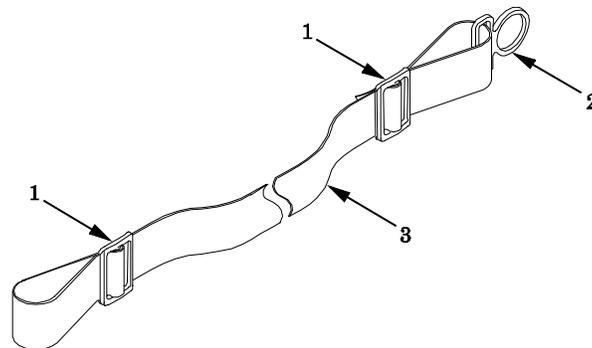


Figure 1. Disassembly of Sling.

1. Remove ends of sling strap (3) from two sling slides (1) and remove sling bracket (2).

DISASSEMBLY - Continued**NOTE**

Steps 2 and 3 apply to pistol grip adapter and butt stock assembly.

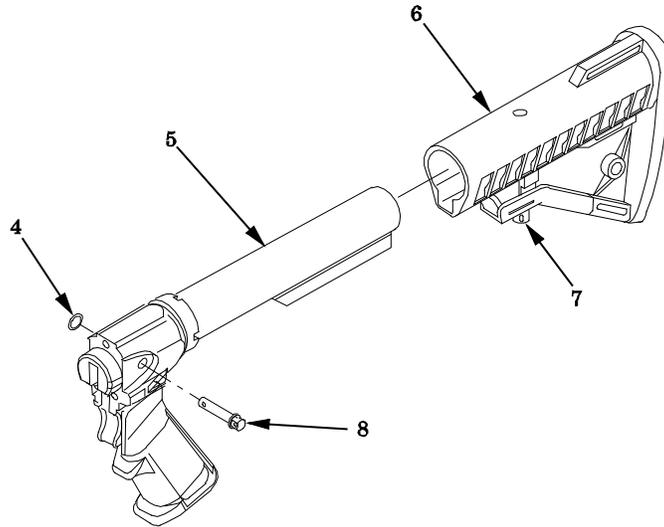


Figure 2. Removal of Butt Stock Assembly.

2. Extend butt stock assembly (6). Grasp nut (7) and pull downward. Slide butt stock assembly to rear to separate butt stock assembly from pistol grip adapter (5).
3. Remove coiled wire ring (4) and mounting pin (8) from pistol grip adapter (5).

NOTE

Steps 4 and 5 apply to butt stock assembly.

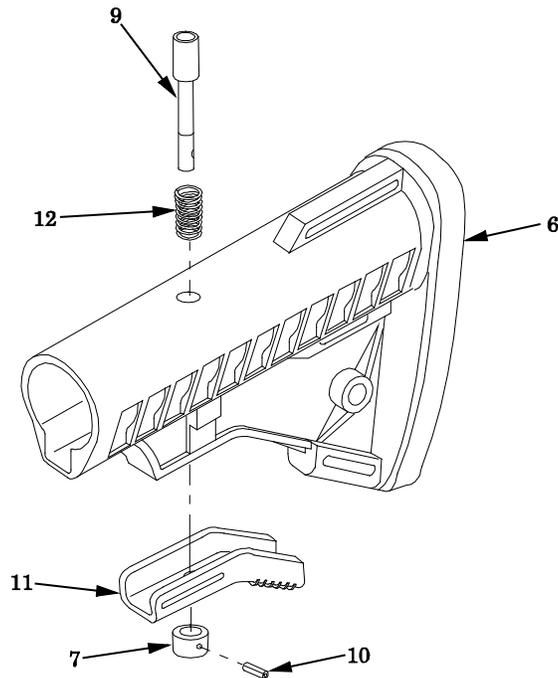


Figure 3. Disassembly of Butt Stock Assembly.

4. Using 1/16 in. punch and hammer, remove spring pin (10) from nut (7). Discard spring pin.
5. Remove nut (7), lock-release lever (11), helical compression spring (12), and headless shoulder pin (9) from butt stock (6).

END OF TASK**REPAIR OR REPLACEMENT**

Replace defective parts as authorized by WP 0017.

END OF TASK

ASSEMBLY

NOTE

Steps 1 through 3 apply to butt stock assembly.

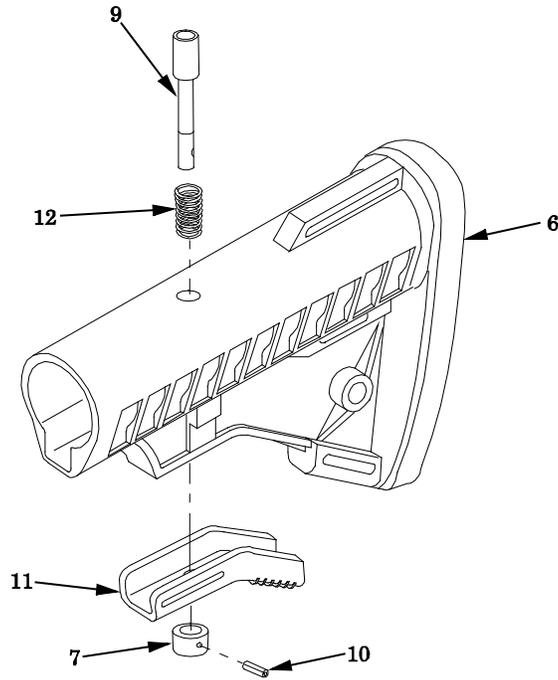


Figure 4. Assembly of Butt Stock Assembly.

1. Position lock-release lever (11) on butt stock (6).
2. Install helical compression spring (12) on headless shoulder pin (9) and install through lock-release lever (11). Secure with nut (7).
3. Align hole in headless shoulder pin (9) with hole in nut (7).
4. Using 1/16 in. punch and hammer, install new spring pin (10) into nut (7).

NOTE

Steps 5 and 6 apply to pistol grip adapter and butt stock assembly.

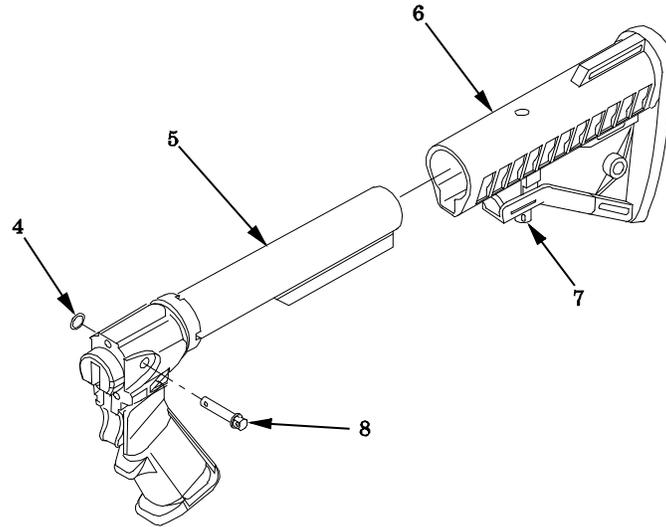


Figure 5. Installation of Butt Stock Assembly.

5. Install mounting pin (8) and coiled wire ring (4) on pistol grip adapter (5).
6. Pull down nut (7). Install butt stock assembly (6) onto pistol grip adapter (5).

NOTE

Step 7 applies to sling.

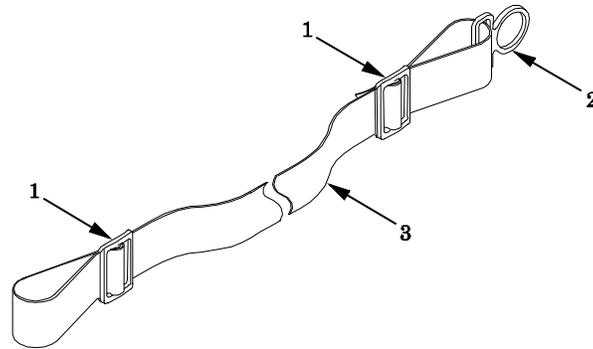


Figure 6. Assembly of Sling.

7. Slide sling bracket (2) onto one end of sling strap (3). Insert ends of sling strap through two sling slides (1).

END OF TASK

END OF WORK PACKAGE

CHAPTER 4

**PARTS INFORMATION
FOR
MODULAR ACCESSORY
SHOTGUN SYSTEM, M26**

FIELD MAINTENANCE**INTRODUCTION TO REPAIR PARTS AND SPECIAL TOOLS LIST (RPSTL)**

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 field maintenance of the M26 Modular Accessory Shotgun System. It authorizes the requisitioning, issue, and disposition of spares, repair parts, and special tools as indicated by the source, maintenance, and recoverability (SMR) codes.

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 must 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 parts kits are listed separately in their own functional group and work package. Repair parts for reparable special tools are also listed in a separate work package. Items listed are shown on the associated illustrations.
2. **Special Tools List Work Packages.** Work packages containing lists 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 Indexes Work Packages.** There are two cross-reference indexes work packages in this RPSTL: the National Stock Number (NSN) Index work package and the Part Number (P/N) Index work package. The National Stock Number Index work package refers you to the figure and item number. The Part Number Index work package refers you to the figure and item number.

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. This entry may be subdivided into 4 subentries, one for each service.

Explanation of Columns in the Repair Parts List and Special Tools List Work Packages - Continued

| | | |
|--------------------|-------------------------|----------------------------|
| <u>Source Code</u> | <u>Maintenance Code</u> | <u>Recoverability Code</u> |
|--------------------|-------------------------|----------------------------|

XX

XX

X

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.

Source Code. The source code tells you how to get an item needed for maintenance, repair, or overhaul of an end item/equipment. Explanations of source codes follow:

Source Code

Application/Explanation

PA
PB
PC
PD
PE
PF
PG
PH
PR
PZ

NOTE

Items coded PC are subject to deterioration.

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 third position of the SMR code.

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 third position of the SMR code. The complete kit must be requisitioned and applied.

MF- Made at field level
MH- Made at below depot sustainment level
ML- Made at SRA
MD- Made at depot
MG- Navy only

Items with these codes are not to be requisitioned/requested individually. They must be made from bulk material which is identified by the part number 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 third position code of the SMR code, but the source code indicates it is made at higher level, order the item from the higher level of maintenance.

- AF- Assembled by field level
- AH- Assembled by below depot sustainment level
- AL- Assembled by SRA
- AD- Assembled by depot
- AG- Navy only

- 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 part number.
- XC Installation drawings, diagrams, instruction sheets, field service drawings; identified by manufacturer's part number.
- XD Item is not stocked. Order an XD-coded item through local purchase or normal supply channels using the CAGEC and part number 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 source coded "XA" or those aircraft support items restricted by requirements of AR 750-1.

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:

Explanation of Columns in the Repair Parts List and Special Tools List Work Packages - Continued

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> |
|-------------------------|---|---|
| F | - | Field maintenance can remove, replace, and use the item. |
| H | - | Below Depot Sustainment maintenance can remove, replace, and use the item. |
| L | - | Specialized repair activity can remove, replace, and use the item. |
| G | - | Afloat and ashore intermediate maintenance can remove, replace, and use the item (Navy only). |
| K | - | Contractor facility can remove, replace, and use the item. |
| Z | - | Item is not authorized to be removed, replaced, or used at any maintenance level. |
| D | - | Depot can remove, replace, and use the item. |

Fourth 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).

NOTE

Some limited repair may be done on the item at a lower level of maintenance, if authorized by the Maintenance Allocation Chart (MAC) and SMR codes.

| <u>Maintenance Code</u> | <u>Application/Explanation</u> |
|-------------------------|---|
| F | - Field is the lowest level that can do complete repair of the item. |
| H | - Below Depot Sustainment 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. |
| G | - Both afloat and ashore intermediate levels are capable of complete repair of item (Navy only). |
| K | - Complete repair is done at contractor facility. |
| Z | - Nonreparable. No repair is authorized. |
| B | - No repair is authorized. No parts or special tools are authorized for the maintenance of "B" coded item. However, the item may be reconditioned by adjusting, lubricating, etc., at the user level. |

Explanation of Columns in the Repair Parts List and Special Tools List Work Packages - Continued

Recoverability Code. Recoverability codes are assigned to items to indicate the disposition action on unserviceable items. The recoverability code is shown in the fifth position of the SMR code as follows:

Recoverability

| <u>Code</u> | | <u>Application/Explanation</u> |
|-------------|---|---|
| Z | - | Nonreparable item. When unserviceable, condemn and dispose of the item at the level of maintenance shown in the third position of the SMR code. |
| F | - | Reparable item. When uneconomically repairable, condemn and dispose of the item at the field level. |
| H | - | Reparable item. When uneconomically repairable, condemn and dispose of the item at the below depot sustainment level. |
| D | - | Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal of item are not authorized below depot level. |
| L | - | Reparable item. Condemnation and disposal not authorized below Specialized Repair Activity (SRA). |
| A | - | 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. |
| G | - | Field level repairable item. Condemn and dispose at either afloat or ashore intermediate levels (Navy only). |
| K | - | Reparable item. Condemnation and disposal to be performed at contractor facility. |

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 manufacturer, 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 part number 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. Part numbers 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.

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, subfunctional 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. NSNs in this index are listed in National Item Identification Number (NIIN) sequence.

STOCK NUMBER Column. This column lists the NSN in NIIN sequence. The NIIN consists of the last nine digits of the NSN. 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. For example, if the NSN is 5385-01-574-1476, the NIIN is 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. Part numbers in this index are listed in ascending alphanumeric sequence (vertical arrangement of letter and number combinations which places the first letter or digit of each group in order A through Z, followed by the numbers 0 through 9 and each following letter or digit in like order).

PART NUMBER Column. Indicates the part number 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> |
|-------------|----------------|
| BS1 | M26 |

Fabrication Instructions. Bulk materials required to manufacture items are listed in the bulk material functional group of this RPSTL. Part numbers for bulk materials are also referenced in the Description Column of the line item entry for the item to be manufactured/fabricated. Detailed fabrication instructions for items source coded to be manufactured or fabricated are found in the appropriate maintenance work packages of this manual.

Index Numbers. Items which have the word BULK in the figure column will have an index number shown in the item number column. This index number is a cross-reference between the NSN / Part Number (P/N) Index work packages and the bulk material list in the repair parts list work package.

How To Locate Repair Parts

1. When NSN or Part Numbers 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 subassembly groups, and lists are divided into the same groups.

Second. Find the figure covering the functional group or the subfunctional 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 Part Number Is Known.

First. If you have the part number and not the NSN, look in the PART NUMBER column of the part number 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.

END OF WORK PACKAGE

FIELD MAINTENANCE
M26 12-GAUGE SHOTGUN
13012245
REPAIR PARTS LIST

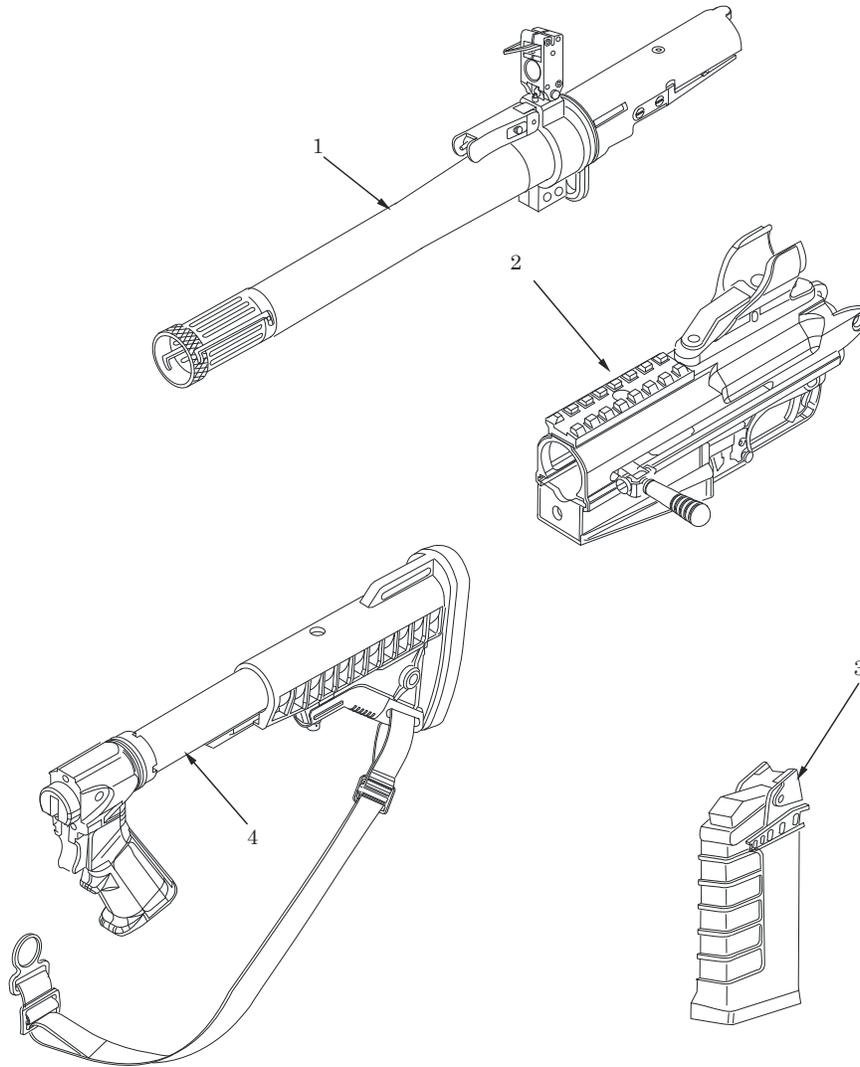


Figure 1. M26 12-Gauge Shotgun 13012245

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|--------------------|--------------------|------------------|--------------|-----------------------|--|------------|
| | | | | | GROUP 00 | |
| | | | | | FIG. 1 SHOTGUN, 12-GAUGE, M26 P/N 13012245 | |
| 1 | AFFFF | 1005-01-571-9459 | 19200 | 13012232 | BARREL ASSEMBLY (SEE FIG. 2 FOR BREAKDOWN) | 1 |
| | | | | | UOC:BS1 | |
| 2 | XAFFF | | 19200 | 13012241 | RECEIVER ASSEMBLY (SEE FIG. 5 FOR BREAKDOWN) | 1 |
| | | | | | UOC:BS1 | |
| 3 | PACZZ | 1005-01-571-9460 | 19200 | 13012231 | MAGAZINE ASSEMBLY (5 ROUND) . | 5 |
| | | | | | UOC:BS1 | |
| 4 | PAFFF | 1005-01-572-6202 | 19200 | 13012243 | STAND ALONE MODULE (SEE FIG. 11 FOR BREAKDOWN)..... | 1 |
| | | | | | UOC:BS1 | |

END OF FIGURE

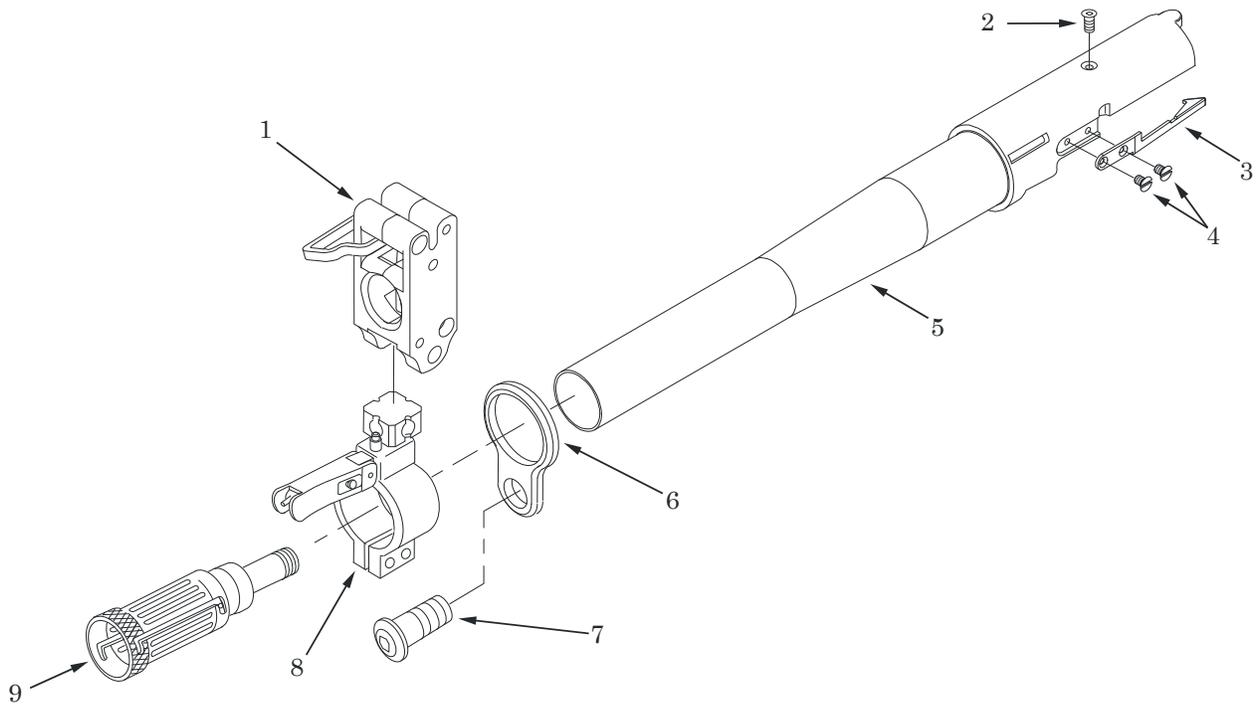


Figure 2. Barrel Assembly, 13012232.

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|--------------------|--------------------|------------------|--------------|-----------------------|---|------------|
| | | | | | GROUP 01 | |
| | | | | | FIG. 2 BARREL ASSEMBLY P/N 13012232 | |
| 1 | AFFFF | | 19200 | 13012247 | UPPER BRACKET ASSEMBLY (SEE FIG. 4 FOR BREAKDOWN)..... | 1 |
| | | | | | UOC:BS1 | |
| 2 | PAFZZ | 5305-01-572-5519 | 3DAE5 | 29000002 | BARREL SCREW | 1 |
| | | | | | UOC:BS1 | |
| 3 | PAFZZ | 1005-01-572-9452 | 3DAE5 | 21011146 | EJECTOR..... | 1 |
| | | | | | UOC:BS1 | |
| 4 | PAFZZ | 5305-01-572-9451 | 3DAE5 | 29000048 | SCREW, 2-56X1/8, SLOTTED FH UNDERCUT..... | 2 |
| | | | | | UOC:BS1 | |
| 5 | PAFZZ | 1005-01-573-4110 | 3DAE5 | 21031149 | BARREL..... | 1 |
| | | | | | UOC:BS1 | |
| 6 | PAFZZ | 1005-01-572-0097 | 3DAE5 | 21031006 | RETAINING PLATE | 1 |
| | | | | | UOC:BS1 | |
| 7 | PAFZZ | 5305-01-572-3306 | 3DAE5 | 29000003 | RETAINING PLATE SCREW | 1 |
| | | | | | UOC:BS1 | |
| 8 | AFFFF | | 19200 | 13012238 | LOWER BRACKET ASSEMBLY (SEE FIG. 3 FOR BREAKDOWN)..... | 1 |
| | | | | | UOC:BS1 | |
| 9 | PAFFF | 1005-01-572-9453 | 19200 | 13012244 | STANDOFF ASSEMBLY..... | 1 |
| | | | | | UOC:BS1 | |
| | | | | | END OF FIGURE | |

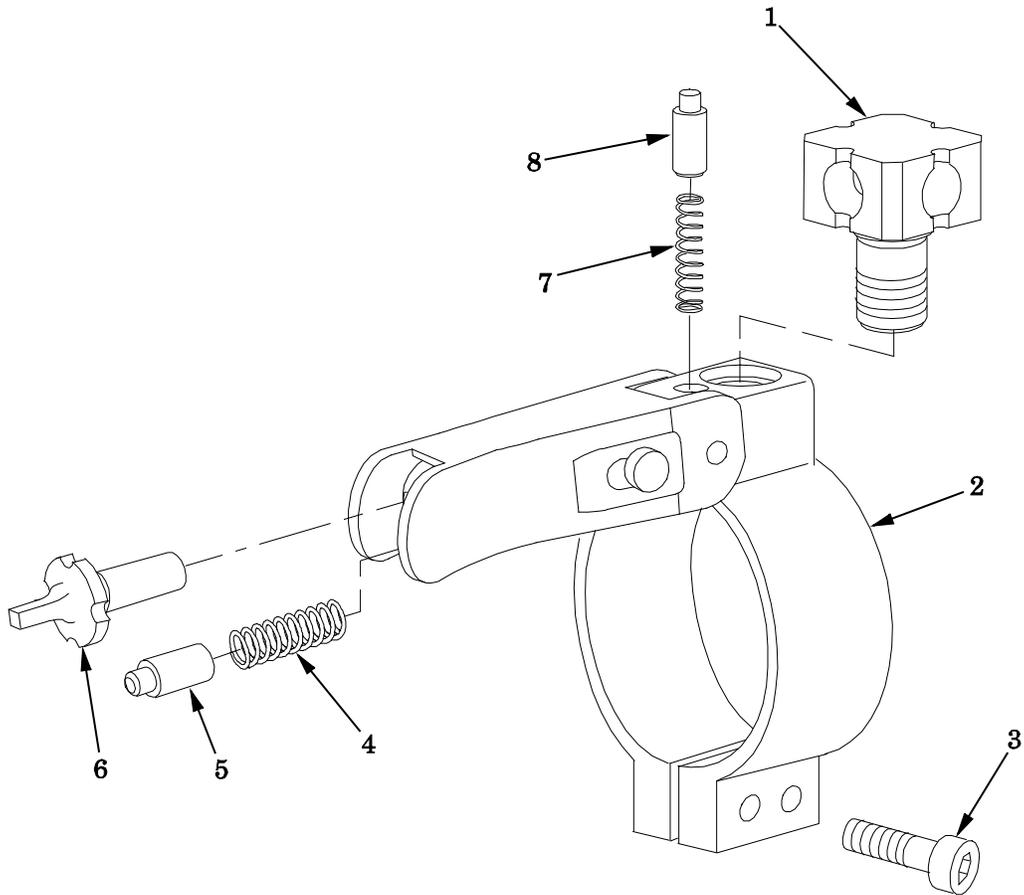


Figure 3. Lower Bracket Assembly, 13012238.

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|--|--------------------|------------------|--------------|-----------------------|--|------------|
| GROUP 0101 | | | | | | |
| FIG. 3 LOWER BRACKET ASSEMBLY P/N 13012238 | | | | | | |
| 1 | PAFZZ | 1005-01-572-0096 | 3DAE5 | 21031005 | ELEVATION BLOCK..... UOC:BS1 | 1 |
| 2 | PAFZZ | 1005-01-571-9457 | 3DAE5 | 21030065 | RETAINER, GUN..... UOC:BS1 | 1 |
| 3 | PAFZZ | 5305-01-572-2159 | 3DAE5 | 21031087 | SCREW,CAP,SOCKET HEAD UOC:BS1 | 2 |
| 4 | PAFZZ | 5360-01-572-1095 | 3DAE5 | 21031107 | DETENT SPRING,FRONT SIGHT..... UOC:BS1 | 1 |
| 5 | PAFZZ | 5315-01-572-2160 | 3DAE5 | 21031004 | DETENT..... UOC:BS1 | 1 |
| 6 | PAFZZ | 1005-01-571-9458 | 3DAE5 | 29000042 | FRONT SIGHT POST UOC:BS1 | 1 |
| 7 | PAFZZ | 5360-01-572-2158 | 3DAE5 | 21031003 | DETENT SPRING UOC:BS1 | 1 |
| 8 | PAFZZ | 5315-01-572-2160 | 3DAE5 | 21031004 | DETENT..... UOC:BS1 | 1 |
| END OF FIGURE | | | | | | |

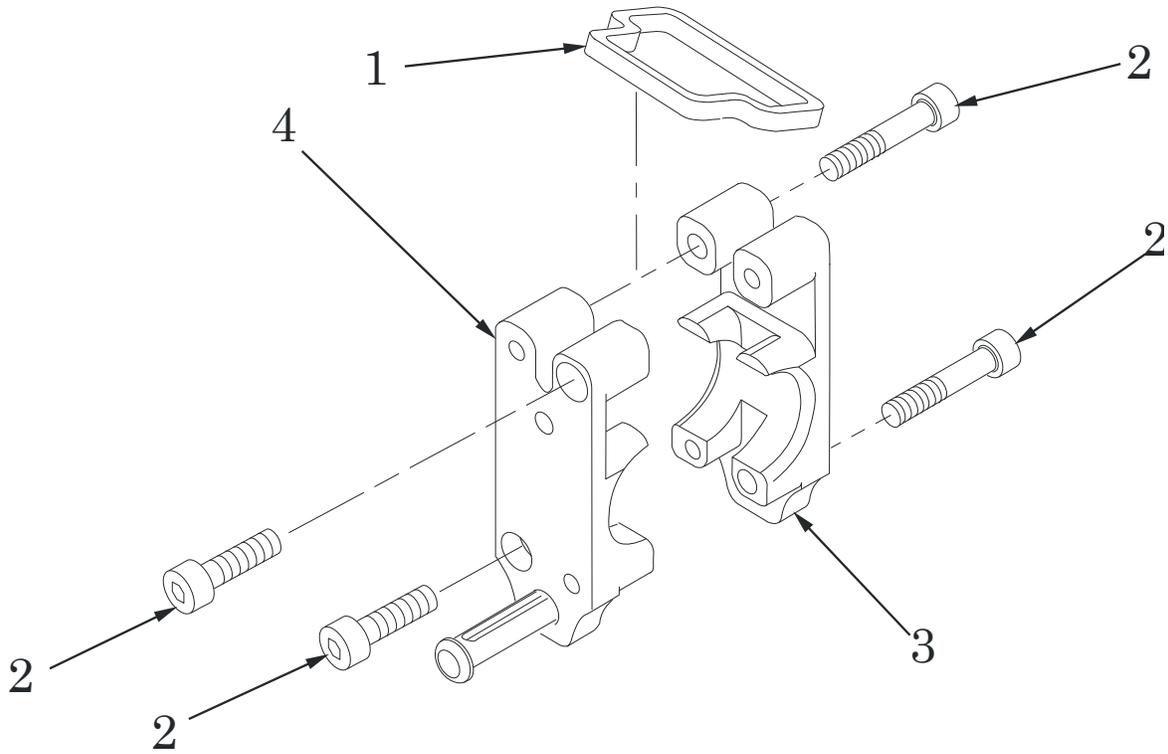


Figure 4. Upper Bracket Assembly 13012247

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|--------------------|--------------------|------------------|--------------|-----------------------|--|------------|
| | | | | | GROUP 0102 | |
| | | | | | FIG. 4 UPPER BRACKET ASSEMBLY P/N 13012247 | |
| 1 | PAFZZ | 1005-01-572-1103 | 3DAE5 | 21031050 | SLING SWIVEL..... | 1 |
| | | | | | UOC:BS1 | |
| 2 | PAFZZ | 5305-01-572-3310 | 3DAE5 | 21031088 | SCREW,CAP,SOCKET HEAD | 4 |
| | | | | | UOC:BS1 | |
| 3 | PAFZZ | 1005-01-572-1100 | 3DAE5 | 21031099 | LEFT BRACKET HALF | 1 |
| | | | | | UOC:BS1 | |
| 4 | PAFZZ | 5340-01-572-0091 | 3DAE5 | 21030053 | RIGHT BRACKET HALF | 1 |
| | | | | | UOC:BS1 | |
| | | | | | END OF FIGURE | |

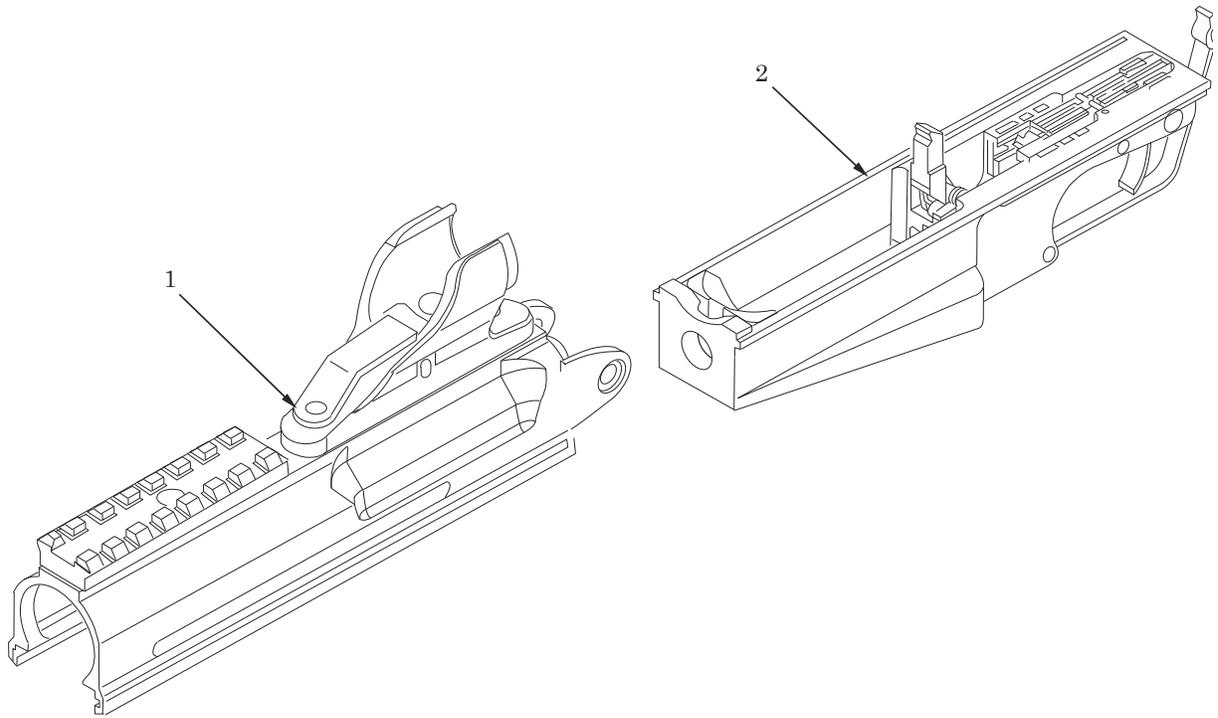


Figure 5. Receiver Assembly, 13012241.

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|--------------------|--------------------|------------|--------------|-----------------------|---|------------|
| | | | | | GROUP 02 | |
| | | | | | FIG. 5 RECEIVER ASSEMBLY P/N 13012241 | |
| 1 | AFFFF | | 19200 | 13012248 | UPPER RECEIVER ASSEMBLY (SEE FIG. 6 FOR BREAKDOWN)..... UOC:BS1 | 1 |
| 2 | XAFFF | | 19200 | 13012239 | LOWER RECEIVER ASSEMBLY (SEE FIG. 10 FOR BREAKDOWN) UOC:BS1 | 1 |
| | | | | | END OF FIGURE | |

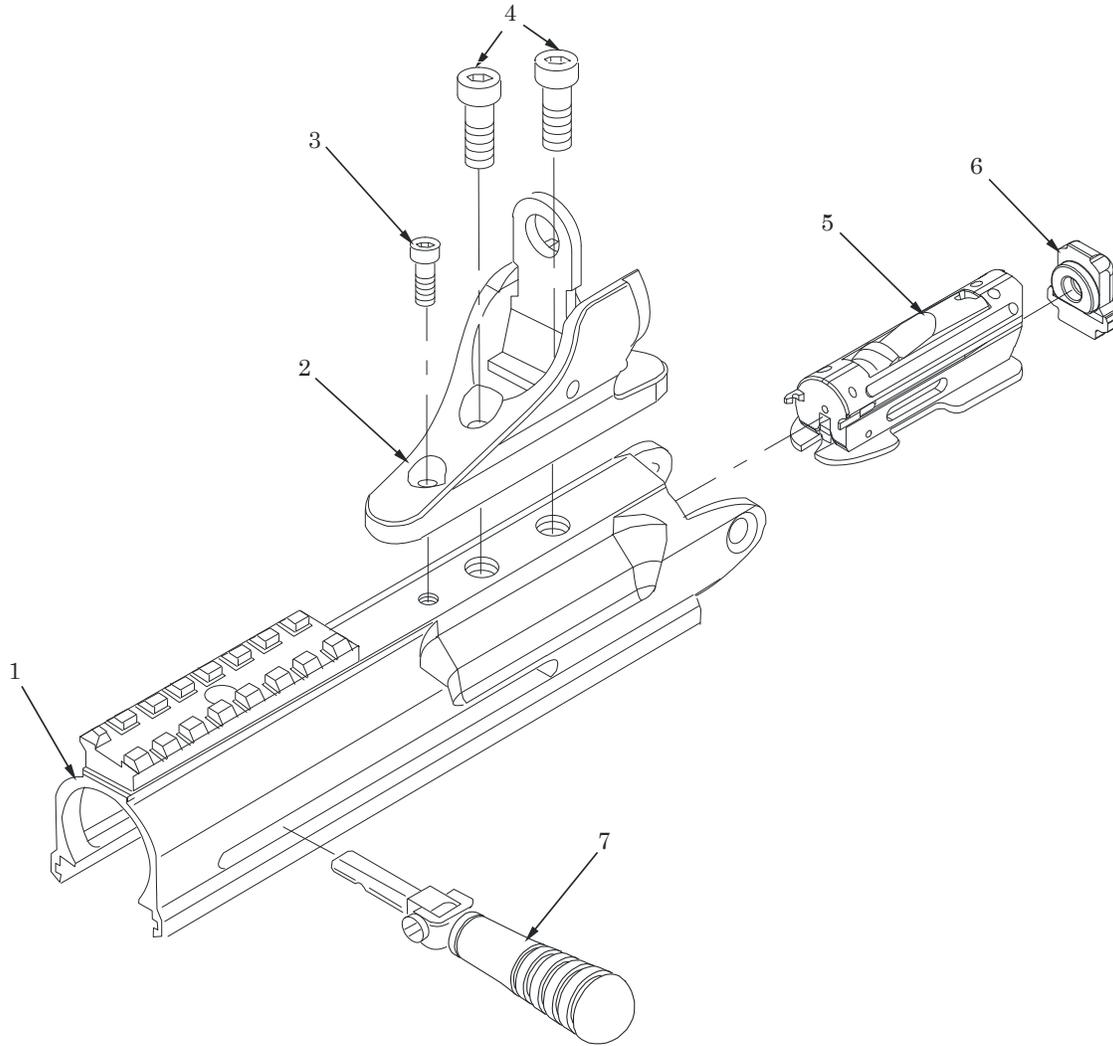


Figure 6. Upper Receiver Assembly, 13012248.

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|--------------------|--------------------|------------------|--------------|-----------------------|---|------------|
| | | | | | GROUP 0201 | |
| | | | | | FIG. 6 UPPER RECEIVER ASSEMBLY P/N 13012248 | |
| 1 | PAFZZ | 1005-01-573-4111 | 3DAE5 | 21031114 | UPPER RECEIVER..... | 1 |
| | | | | | UOC:BS1 | |
| 2 | PAFZZ | 1005-01-572-5511 | 19200 | 13012240 | REAR BRACKET..... | 1 |
| | | | | | UOC:BS1 | |
| 3 | PAFZZ | 5305-01-572-3302 | 3DAE5 | 29000009 | SCREW,CAP,SOCKET HEAD | 1 |
| | | | | | UOC:BS1 | |
| 4 | PAFZZ | 5305-01-332-7220 | 3DAE5 | 29000010 | SCREW,CAP,SOCKET HEAD | 2 |
| | | | | | UOC:BS1 | |
| 5 | AFFFF | 1005-01-572-5512 | 19200 | 13012234 | BOLT/BOLT CARRIER ASSEMBLY (SEE FIG. 7 FOR BREAKDOWN)..... | 1 |
| | | | | | UOC:BS1 | |
| 6 | PAFZZ | 1005-01-572-1098 | 3DAE5 | 21031051 | RECEIVER PLUG | 1 |
| | | | | | UOC:BS1 | |
| 7 | PAFZZ | 1005-01-572-5517 | 19200 | 13012236 | CHARGING HANDLE ASSEMBLY | 1 |
| | | | | | UOC:BS1 | |
| | | | | | END OF FIGURE | |

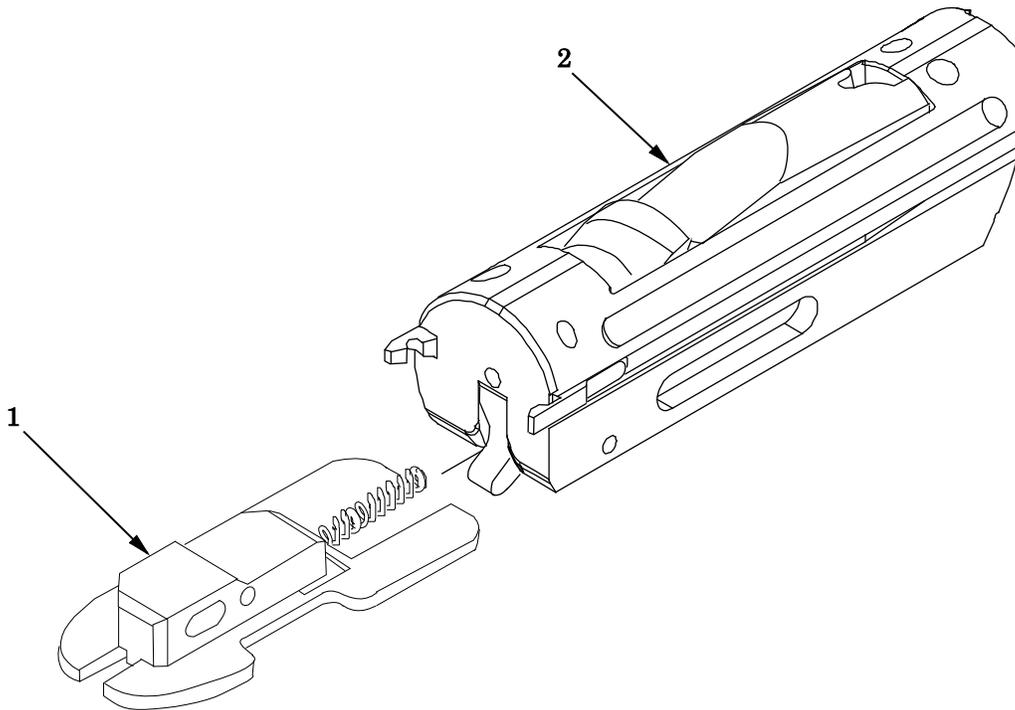


Figure 7. Bolt/Bolt Carrier Assembly, 13012234.

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|--------------------|--------------------|------------------|--------------|-----------------------|---|------------|
| | | | | | GROUP 020101 | |
| | | | | | FIG. 7 BOLT/BOLT CARRIER ASSEMBLY P/N 13012234 | |
| 1 | PAFFF | 1005-01-572-5513 | 19200 | 13012235 | BOLT CARRIER ASSEMBLY (SEE FIG. 9 FOR BREAKDOWN)..... UOC:BS1 | 1 |
| 2 | PAFFF | 1005-01-574-0037 | 19200 | 13012233 | BOLT ASSEMBLY (SEE FIG. 8 FOR BREAKDOWN)..... UOC:BS1 | 1 |
| | | | | | END OF FIGURE | |

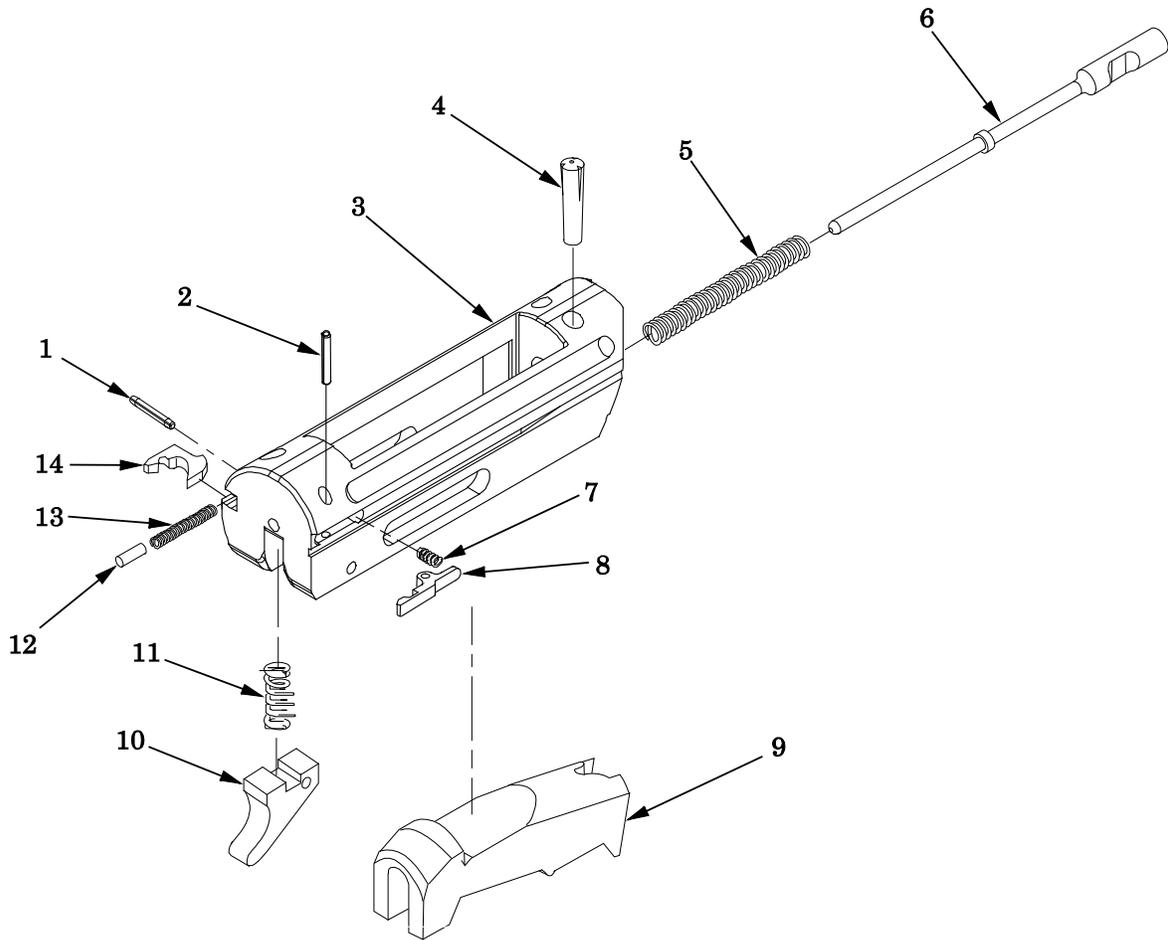


Figure 8. Bolt Assembly, 13012233.

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|----------------------|--------------------|------------------|--------------|-----------------------|--|------------|
| GROUP 02010101 | | | | | | |
| FIG. 8 BOLT ASSEMBLY | | | | | | |
| P/N 13012233 | | | | | | |
| 1 | PAFZZ | 5315-01-572-3309 | 3DAE5 | 29000016 | PIN,RETAINING..... UOC:BS1 | 1 |
| 2 | PAFZZ | 5315-01-572-3311 | 3DAE5 | 29000019 | PIN,RETAINING..... UOC:BS1 | 1 |
| 3 | XAFZZ | | 3DAE5 | 21031134 | BOLT BODY UOC:BS1 | 1 |
| 4 | PAFZZ | 1005-01-572-1105 | 3DAE5 | 21031116 | PIN,RETAINING,SOLID..... UOC:BS1 | 1 |
| 5 | PAFZZ | 5360-01-572-3304 | 3DAE5 | 21031135 | SPRING,FIRING PIN UOC:BS1 | 1 |
| 6 | PAFZZ | 1005-01-572-3298 | 3DAE5 | 21031136 | PIN,FIRING..... UOC:BS1 | 1 |
| 7 | PAFZZ | 5360-01-573-4108 | 3DAE5 | 21031148 | SPRING,EXTRACTOR,LEFT..... UOC:BS1 | 1 |
| 8 | PAFZZ | 1005-01-573-4109 | 3DAE5 | 21031147 | EXTRACTOR,LEFT UOC:BS1 | 1 |
| 9 | PAFZZ | 1005-01-591-0598 | 3DAE5 | 21030020 | BOLT, BLOCK..... UOC:BS1 | 1 |
| 10 | PAFZZ | 1005-01-591-0602 | 3DAE5 | 21031151 | OUTRIGGER..... UOC:BS1 | 1 |
| 11 | PAFZZ | 5360-01-572-3307 | 3DAE5 | 21031033 | SPRING,OUTRIGGER..... UOC:BS1 | 1 |
| 12 | PAFZZ | 5315-01-572-3301 | 3DAE5 | 21031031 | DETENT..... UOC:BS1 | 1 |
| 13 | PAFZZ | 5360-01-572-3312 | 3DAE5 | 21031030 | SPRING,EXTRACTOR,RIGHT UOC:BS1 | 1 |
| 14 | PAFZZ | 1005-01-572-1109 | 3DAE5 | 21031032 | EXTRACTOR,RIGHT..... UOC:BS1 | 1 |
| END OF FIGURE | | | | | | |

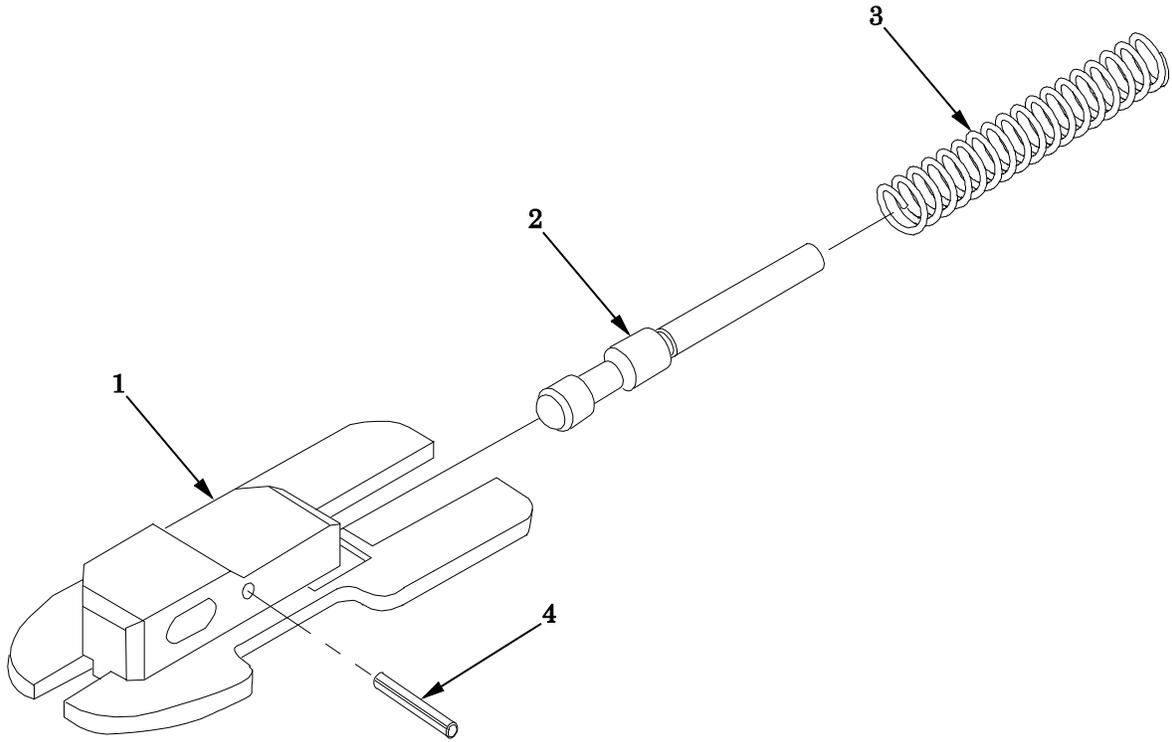


Figure 9. Bolt Carrier Assembly, 13012235.

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|--|--------------------|------------------|--------------|-----------------------|--|------------|
| GROUP 02010102 | | | | | | |
| FIG. 9 BOLT CARRIER ASSEMBLY P/N 13012235 | | | | | | |
| 1 | XAFZZ | 1005-01-572-1097 | 3DAE5 | 21031038 | BOLT CARRIER..... UOC:BS1 | 1 |
| 2 | PAFZZ | 5315-01-572-5506 | 3DAE5 | 21031039 | PLUNGER,BOLT CARRIER UOC:BS1 | 1 |
| 3 | PAFZZ | 5360-01-572-3308 | 3DAE5 | 21031040 | SPRING,BOLT CARRIER PLUNGER. UOC:BS1 | 1 |
| 4 | PAFZZ | 5315-01-572-3311 | 3DAE5 | 29000019 | PIN,RETAINING..... UOC:BS1 | 1 |
| END OF FIGURE | | | | | | |

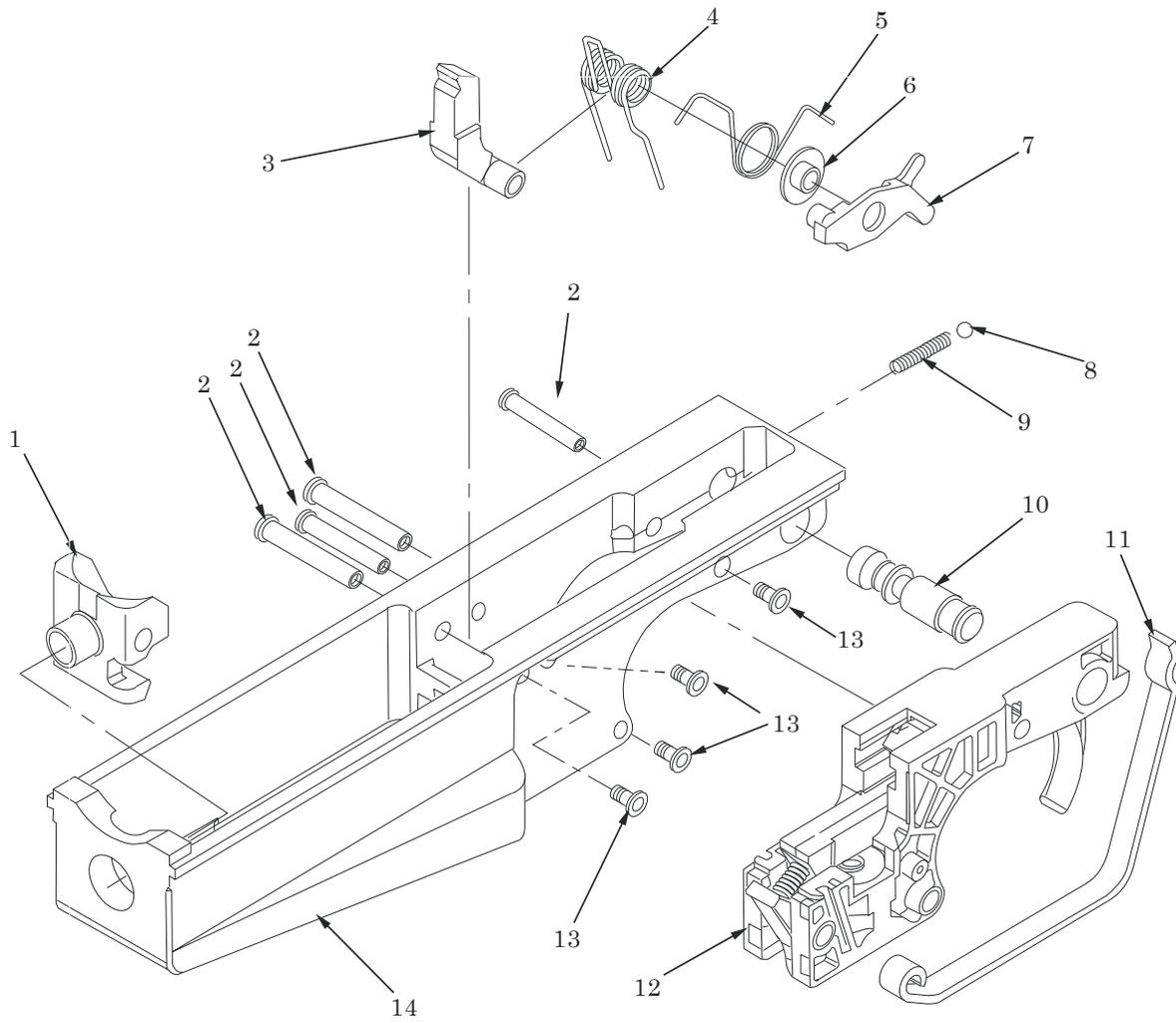


Figure 10. Lower Receiver Assembly, 13012239.

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|--|--------------------|------------------|--------------|-----------------------|--|------------|
| GROUP 0202 | | | | | | |
| FIG. 10 LOWER RECEIVER ASSEMBLY P/N 13012239 | | | | | | |
| 1 | PAFZZ | 1005-01-572-1107 | 3DAE5 | 21031028 | FEED RAMP..... UOC:BS1 | 1 |
| 2 | PAFZZ | 5315-01-572-3313 | 3DAE5 | 21031027 | HOLLOW PIN..... UOC:BS1 | 4 |
| 3 | PAFZZ | 1005-01-572-1099 | 3DAE5 | 21031022 | HAMMER..... UOC:BS1 | 1 |
| 4 | PAFZZ | 5360-01-572-6197 | 3DAE5 | 21031023 | HAMMER SPRING UOC:BS1 | 1 |
| 5 | PAFZZ | 5360-01-572-3317 | 3DAE5 | 21031025 | SPRING,ACTION LOCK UOC:BS1 | 1 |
| 6 | PAFZZ | 1005-01-572-1101 | 3DAE5 | 21031026 | BUSHING,ACTION LOCK..... UOC:BS1 | 1 |
| 7 | PAFZZ | 1005-01-572-1102 | 3DAE5 | 21031024 | ACTION LOCK..... UOC:BS1 | 1 |
| 8 | PAFZZ | 1005-01-572-2164 | 3DAE5 | 29000015 | SAFETY DETENT..... UOC:BS1 | 1 |
| 9 | PAFZZ | 5360-01-572-2161 | 3DAE5 | 21031020 | DETENT SPRING UOC:BS1 | 1 |
| 10 | PAFZZ | 1005-01-588-4467 | 19200 | 21031150 | SAFETY..... UOC:BS1 | 1 |
| 11 | PAFZZ | 1005-01-572-0098 | 3DAE5 | 21031011 | TRIGGER GUARD UOC:BS1 | 1 |
| 12 | PAFZZ | 1005-01-572-6200 | 19200 | 13012246 | TRIGGER HOUSING ASSEMBLY..... UOC:BS1 | 1 |
| 13 | PAFZZ | 5305-01-572-3315 | 3DAE5 | 29000014 | SCREW,HOLLOW PIN..... UOC:BS1 | 4 |
| 14 | XAFZA | | 3DAE5 | 13033073 | LOWER RECEIVER..... UOC:BS1 | 1 |
| END OF FIGURE | | | | | | |

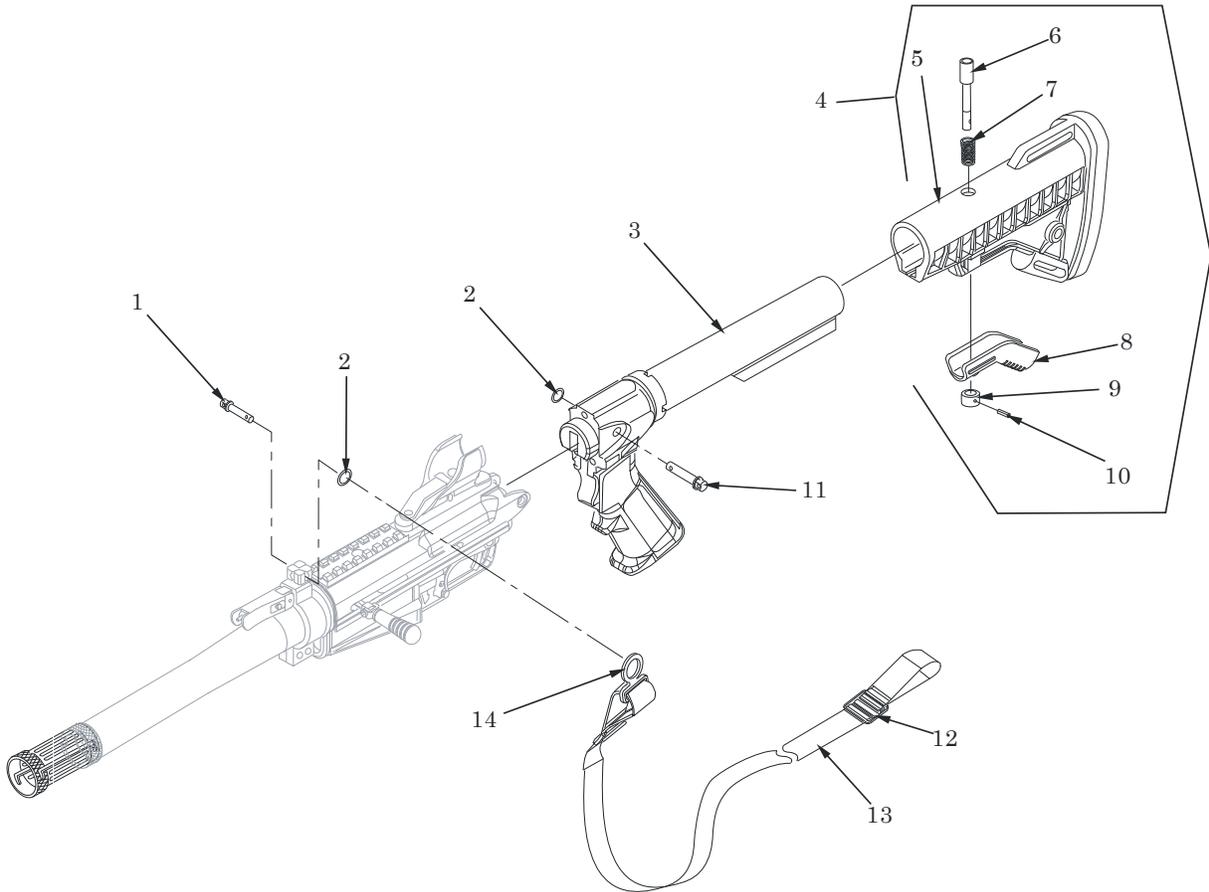


Figure 11. Stand Alone Module, 13012243, and Butt Stock Assembly, 13012253.

| (1) ITEM NO. | (2) SMR CODE | (3) NSN | (4) CAGEC | (5) PART NUMBER | (6) DESCRIPTION AND USABLE ON CODE (UOC) | (7) QTY |
|----------------------------|--------------------|------------------|--------------|-----------------------|--|------------|
| GROUP 03, 0301 | | | | | | |
| FIG. 11 STAND ALONE MODULE | | | | | | |
| P/N 13012243 | | | | | | |
| BUTT STOCK ASSEMBLY | | | | | | |
| P/N 13012253 | | | | | | |
| 1 | PACZZ | 5315-01-572-3314 | 3DAE5 | 21031128 | MOUNTING PIN,SLING | 1 |
| | | | | | UOC:BS1 | |
| 2 | PACZZ | 5365-01-572-3303 | 3DAE5 | 21031080 | RING,COILED WIRE..... | 2 |
| | | | | | UOC:BS1 | |
| 3 | PAFZZ | 1005-01-574-9934 | 19200 | 13012254 | ADAPTER,PISTOL GRIP | 1 |
| | | | | | UOC:BS1 | |
| 4 | AFFFF | | 19200 | 13012253 | BUTT STOCK ASSEMBLY | 1 |
| | | | | | UOC:BS1 | |
| 5 | XACZZ | | 3DAE5 | 21031125 | BUTT STOCK | 1 |
| | | | | | UOC:BS1 | |
| 6 | PAFZZ | 1005-01-572-1108 | 3DAE5 | 21031090 | PIN,SHOULDER,HEADLESS | 1 |
| | | | | | UOC:BS1 | |
| 7 | PAFZZ | 5360-01-572-3316 | 3DAE5 | 21031084 | SPRING,COMPRESSION, HELICAL | 1 |
| | | | | | UOC:BS1 | |
| 8 | PAFZZ | 1005-01-572-1110 | 3DAE5 | 21031083 | LEVER,LOCK-RELEASE..... | 1 |
| | | | | | UOC:BS1 | |
| 9 | PAFZZ | 1005-01-572-3320 | 3DAE5 | 21031085 | NUT | 1 |
| | | | | | UOC:BS1 | |
| 10 | PAFZZ | 5315-01-572-3321 | 3DAE5 | 29000039 | PIN,SPRING | 1 |
| | | | | | UOC:BS1 | |
| 11 | PACZZ | 5315-01-572-3299 | 3DAE5 | 21031078 | MOUNTING PIN..... | 1 |
| | | | | | UOC:BS1 | |
| 12 | PACZZ | 5340-01-572-3305 | 3DAE5 | 29000022 | SLING SLIDE..... | 2 |
| | | | | | UOC:BS1 | |
| 13 | PACZZ | 1005-01-572-3300 | 3DAE5 | 21031072 | SLING STRAP | 1 |
| | | | | | UOC:BS1 | |
| 14 | PACZZ | 1005-01-572-1111 | 3DAE5 | 21031068 | SLING BRACKET | 1 |
| | | | | | UOC:BS1 | |
| END OF FIGURE | | | | | | |

END OF WORK PACKAGE

FIELD MAINTENANCE
NATIONAL STOCK NUMBER INDEX

| STOCK NUMBER | FIG. | ITEM | STOCK NUMBER | FIG. | ITEM |
|------------------|------|------|------------------|------|------|
| 1005-01-571-9458 | 3 | 6 | 1005-01-591-0090 | 3 | 2 |
| 1005-01-571-9459 | 1 | 1 | 1005-01-591-0598 | 8 | 9 |
| 1005-01-571-9460 | 1 | 3 | 1005-01-591-0602 | 8 | 10 |
| 1005-01-572-0096 | 3 | 1 | 5305-01-332-7220 | 6 | 4 |
| 1005-01-572-0097 | 2 | 6 | 5305-01-572-2159 | 3 | 3 |
| 1005-01-572-0098 | 10 | 11 | 5305-01-572-3302 | 6 | 3 |
| 1005-01-572-1097 | 9 | 1 | 5305-01-572-3306 | 2 | 7 |
| 1005-01-572-1098 | 6 | 6 | 5305-01-572-3310 | 4 | 2 |
| 1005-01-572-1099 | 10 | 3 | 5305-01-572-3311 | 8 | 2 |
| 1005-01-572-1100 | 4 | 3 | 5305-01-572-3315 | 10 | 13 |
| 1005-01-572-1101 | 10 | 6 | 5305-01-572-5519 | 2 | 2 |
| 1005-01-572-1102 | 10 | 7 | 5305-01-572-9451 | 2 | 4 |
| 1005-01-572-1103 | 4 | 1 | 5315-01-572-2160 | 3 | 5 |
| 1005-01-572-1105 | 8 | 4 | 5315-01-572-2160 | 3 | 8 |
| 1005-01-572-1107 | 10 | 1 | 5315-01-572-3299 | 11 | 11 |
| 1005-01-572-1108 | 11 | 6 | 5315-01-572-3301 | 8 | 12 |
| 1005-01-572-1109 | 8 | 14 | 5315-01-572-3309 | 8 | 1 |
| 1005-01-572-1110 | 11 | 8 | 5315-01-572-3311 | 9 | 4 |
| 1005-01-572-1111 | 11 | 14 | 5315-01-572-3313 | 10 | 2 |
| 1005-01-572-2164 | 10 | 8 | 5315-01-572-3314 | 11 | 1 |
| 1005-01-572-3298 | 8 | 6 | 5315-01-572-3321 | 11 | 10 |
| 1005-01-572-3300 | 11 | 13 | 5315-01-572-5506 | 9 | 2 |
| 1005-01-572-3320 | 11 | 9 | 5340-01-572-0091 | 4 | 4 |
| 1005-01-572-5511 | 6 | 2 | 5340-01-572-3305 | 11 | 12 |
| 1005-01-572-5512 | 6 | 5 | 5360-01-572-1095 | 3 | 4 |
| 1005-01-572-5513 | 7 | 1 | 5360-01-572-2158 | 3 | 7 |
| 1005-01-572-5517 | 6 | 7 | 5360-01-572-2161 | 10 | 9 |
| 1005-01-572-6200 | 10 | 12 | 5360-01-572-3304 | 8 | 5 |
| 1005-01-572-6202 | 1 | 4 | 5360-01-572-3307 | 8 | 11 |
| 1005-01-572-9452 | 2 | 3 | 5360-01-572-3308 | 9 | 3 |
| 1005-01-572-9453 | 2 | 9 | 5360-01-572-3312 | 8 | 13 |
| 1005-01-573-4109 | 8 | 8 | 5360-01-572-3316 | 11 | 7 |
| 1005-01-573-4110 | 2 | 5 | 5360-01-572-3317 | 10 | 5 |
| 1005-01-573-4111 | 6 | 1 | 5360-01-572-6197 | 10 | 4 |
| 1005-01-574-0037 | 7 | 2 | 5360-01-573-4108 | 8 | 7 |
| 1005-01-574-9934 | 11 | 3 | 5365-01-572-3303 | 11 | 2 |
| 1005-01-588-4467 | 10 | 10 | | | |

END OF WORK PACKAGE

FIELD MAINTENANCE

PART NUMBER INDEX

| PART NUMBER | FIG. | ITEM | PART NUMBER | FIG. | ITEM |
|-------------|------|------|-------------|------|------|
| 13012231 | 1 | 3 | 21031040 | 9 | 3 |
| 13012232 | 1 | 1 | 21031050 | 4 | 1 |
| 13012233 | 7 | 2 | 21031051 | 6 | 6 |
| 13012234 | 6 | 5 | 21031068 | 11 | 14 |
| 13012235 | 7 | 1 | 21031072 | 11 | 13 |
| 13012236 | 6 | 7 | 21031078 | 11 | 11 |
| 13012238 | 2 | 8 | 21031080 | 11 | 2 |
| 13012239 | 5 | 2 | 21031083 | 11 | 8 |
| 13012240 | 6 | 2 | 21031084 | 11 | 7 |
| 13012241 | 1 | 2 | 21031085 | 11 | 9 |
| 13012243 | 1 | 4 | 21031087 | 3 | 3 |
| 13012244 | 2 | 9 | 21031088 | 4 | 2 |
| 13012246 | 10 | 12 | 21031090 | 11 | 6 |
| 13012247 | 2 | 1 | 21031099 | 4 | 3 |
| 13012248 | 5 | 1 | 21031107 | 3 | 4 |
| 13012253 | 11 | 4 | 21031114 | 6 | 1 |
| 13012254 | 11 | 3 | 21031116 | 8 | 4 |
| 13033073 | 10 | 14 | 21031125 | 11 | 5 |
| 21011146 | 2 | 3 | 21031128 | 11 | 1 |
| 21030020 | 8 | 9 | 21031134 | 8 | 3 |
| 21030053 | 4 | 4 | 21031135 | 8 | 5 |
| 21030065 | 3 | 2 | 21031136 | 8 | 6 |
| 21031003 | 3 | 7 | 21031147 | 8 | 8 |
| 21031004 | 3 | 5 | 21031148 | 8 | 7 |
| | 3 | 8 | 21031149 | 2 | 5 |
| 21031005 | 3 | 1 | 21031150 | 10 | 10 |
| 21031006 | 2 | 6 | 21031151 | 8 | 10 |
| 21031011 | 10 | 11 | 29000002 | 2 | 2 |
| 21031020 | 10 | 9 | 29000003 | 2 | 7 |
| 21031022 | 10 | 3 | 29000009 | 6 | 3 |
| 21031023 | 10 | 4 | 29000010 | 6 | 4 |
| 21031024 | 10 | 7 | 29000014 | 10 | 13 |
| 21031025 | 10 | 5 | 29000015 | 10 | 8 |
| 21031026 | 10 | 6 | 29000016 | 8 | 1 |
| 21031027 | 10 | 2 | 29000019 | 8 | 2 |
| 21031028 | 10 | 1 | | 9 | 4 |
| 21031030 | 8 | 13 | 29000022 | 11 | 12 |
| 21031031 | 8 | 12 | 29000039 | 11 | 10 |
| 21031032 | 8 | 14 | 29000042 | 3 | 6 |
| 21031033 | 8 | 11 | 29000048 | 2 | 4 |
| 21031038 | 9 | 1 | | | |
| 21031039 | 9 | 2 | | | |

END OF WORK PACKAGE

CHAPTER 5
SUPPORTING INFORMATION
FOR
MODULAR ACCESSORY
SHOTGUN SYSTEM, M26

FIELD MAINTENANCE
REFERENCES

SCOPE

This work package lists all field manuals, forms, miscellaneous publications, and technical manuals referenced in this manual.

FIELD MANUALS

FM 4-25.11 First Aid

FORMS

DA Form 2028 Recommended Changes to Publications and Blank Forms

DA Form 5988-E Equipment Inspection and Maintenance Worksheet - Electronic

SF 364 Report of Discrepancy

SF 368 Product Quality Deficiency Report

MISCELLANEOUS PUBLICATIONS

AR 750-1 Army Materiel Maintenance Policy

CTA 8-100 Army Medical Department Expendable/Durable Items

CTA 50-970 Expendable/Durable Items (Except Medical, Class V, Repair Parts, and Heraldic Items)

DA PAM 750-8 The Army Maintenance Management System (TAMMS) Users Manual

SC 4933-95-A11 Shop Set, Small Arms: Field Maintenance, Basic Less Power

SC 5180-95-B71 Small Arms Repairman Tool Kit

TECHNICAL MANUALS

TM 9-1005-319-10 Operator's Manual for Rifle, 5.56 mm, M16A2 W/E (NSN 1005-01-128-9936) (EIC:4GM); Rifle, 5.56 mm, M16A3 (1005-01-357-5112); Rifle, 5.56 mm, M16A4 (1005-01-383-2872) (EIC:4F9); Carbine, 5.56 mm, M4 W/E (1005-01-231-0973) (EIC:4FJ); Carbine, 5.56 mm, M4A1 (1005-01-382-0953) (EIC:4GC)

TM 9-1005-319-23&P Field Maintenance Manual (Including Repair Parts and Special Tools List) for Rifle, 5.56 mm, M16A2 W/E (NSN 1005-01-128-9936) (EIC:4GM); Rifle, 5.56 mm, M16A3 (1005-01-357-5112); Rifle, 5.56 mm, M16A4 (1005-01-383-2872) (EIC:4F9); Carbine, 5.56 mm, M4 W/E (1005-01-231-0973) (EIC:4FJ); Carbine, 5.56 mm, M4A1 (1005-01-382-0953) (EIC:4GC)

TECHNICAL MANUALS - Continued

TM 9-1005-341-10

Operator's Manual for Modular Accessory Shotgun System, M26

END OF WORK PACKAGE

FIELD MAINTENANCE
MAINTENANCE ALLOCATION CHART (MAC) INTRODUCTION

INTRODUCTION**The Army Maintenance System MAC**

This introduction provides a general explanation of all maintenance and repair functions authorized at the two maintenance levels under the Two-Level Maintenance System concept.

This 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:

Field - Includes two sub columns, Crew (C), and Maintainer (F).

Sustainment - Includes two sub columns, Below Depot (H) and Depot (D).

The maintenance to be performed at field and sustainment levels is described as follows:

1. Crew maintenance. The responsibility of a using organization to perform maintenance on its assigned equipment. It normally consists of inspecting, servicing, lubricating, adjusting, and replacing parts, minor assemblies, and subassemblies. The replace function for this level of maintenance is indicated by the letter "C" in the third position of the SMR code. A "C" appearing in the fourth position of the SMR code indicates complete repair is possible at the crew maintenance level.
2. Maintainer maintenance. Maintenance accomplished on a component, accessory, assembly, subassembly, plug-in unit, or other portion either on the system or after it is removed. The replace function for this level of maintenance is indicated by the letter "F" appearing in the third position of the SMR code. An "F" appearing in the fourth position of the SMR code indicates complete repair is possible at the field maintenance level. Items are returned to the user after maintenance is performed at this level.
3. Below depot sustainment. Maintenance accomplished on a component, accessory, assembly, subassembly, plug-in unit, or other portion either on the system or after it is removed. The replace function for this level of maintenance is indicated by the letter "H" appearing in the third position of the SMR code. An "H" appearing in the fourth position of the SMR code indicates complete repair is possible at the below depot sustainment maintenance level. Items are returned to the supply system after maintenance is performed at this level.
4. Depot sustainment. Maintenance accomplished on a component, accessory, assembly, subassembly, plug-in unit, or other portion either on the system or after it is removed. The replace function for this level of maintenance is indicated by the letter "D" or "K" appearing in the third position of the SMR code. Depot sustainment maintenance can be performed by either depot personnel or contractor personnel. A "D" or "K" appearing in the fourth position of the SMR code indicates complete repair is possible at the depot sustainment maintenance level. Items are returned to the supply systems after maintenance is performed at this level.

The Army Maintenance System MAC - Continued

The tools and test equipment requirements table (immediately following the MAC) lists the tools and test equipment (both special tools and common tool sets) required for each maintenance function as referenced from the MAC.

The remarks table (immediately following the tools and test equipment requirements) contains supplemental instructions and explanatory notes for a particular maintenance function.

Maintenance Functions

Maintenance functions are limited to and defined as follows:

1. **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 gaugings and evaluation of cannon tubes.
2. **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.
3. **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 of recoil mechanisms. The following are examples of service functions:
 - a. **Unpack.** To remove from packing box for service or when required for the performance of maintenance operations.
 - b. **Repack.** To return item to packing box after service and other maintenance operations.
 - c. **Clean.** To rid the item of contamination.
 - d. **Touch up.** To spot paint scratched or blistered surfaces.
 - e. **Mark.** To restore obliterated identification.
4. **Adjust.** To maintain or regulate, within prescribed limits, by bringing into proper position, or by setting the operating characteristics to specified parameters.
5. **Align.** To adjust specified variable elements of an item to bring about optimum or desired performance.
6. **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 a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.
7. **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.
8. **Paint (ammunition only).** To prepare and spray color coats of paint so that the ammunition can be identified and protected. The color indicating primary use is applied, preferably, to the entire exterior surface as the background color of the item. Other markings are to be repainted as original so as to retain proper ammunition identification.

9. **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.
10. **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 correcting specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), end item, or system.

NOTE

The following definitions are applicable to the "repair" maintenance function:

Services. Inspect, test, service, adjust, align, 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 least 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.

11. **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.
12. **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 material 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 Functional Group Code (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 the functions to be performed on the item listed in column (2). (For a detailed explanation of these functions refer to "Maintenance Functions" outlined above.)

Explanation of Columns in the MAC - Continued

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 manhours in whole hours or decimals) in the appropriate subcolumn. 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, subassembly, component, module, end item, or system) to a serviceable condition under typical field operating conditions. This time includes preparation time (including any necessary disassembly/assembly time), troubleshooting/fault location 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:

Field:

C - Crew maintenance

F - Field maintenance

Sustainment:

L - Specialized Repair Activity (SRA)

H - Below depot 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 a work time figure 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) - Tool 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 manufacturer's part number.

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

**FIELD MAINTENANCE
MAINTENANCE ALLOCATION CHART (MAC)**

MAINTENANCE ALLOCATION CHART (MAC)

Table 1. MAC for M26 Modular Accessory Shotgun System (MASS).

| (1) GROUP NUMBER | (2) COMPONENT/ ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE LEVEL | | | | (5) TOOLS AND EQUIPMENT REF CODE | (6) REMARKS CODE |
|----------------------------|---|------------------------------------|--------------------------|------------|----------------|-------|--|----------------------------|
| | | | FIELD | | SUSTAINMENT | | | |
| | | | CREW | MAINTAINER | BELOW DEPOT | DEPOT | | |
| | | | C | F | H | D | | |
| 00 | Shotgun, 12- Gauge, M26 13012130 | Inspect | 0.1 | 0.1 | | | 2 | |
| | | Service | 0.1 | 0.1 | | | | |
| 01 | Barrel Assembly 13012131 | Inspect | 0.1 | 0.1 | | | 2 | |
| | | Service | 0.1 | 0.1 | | | | |
| | | Replace | | 0.2 | | | 1 | |
| | | Repair | | 0.3 | | | | |
| 0101 | Lower Bracket Assembly 13012132 | Inspect | 0.1 | 0.1 | | | 2 | |
| | | Service | 0.1 | 0.1 | | | | |
| | | Repair | | 0.2 | | | | |
| 0102 | Upper Bracket Assembly 13012146 | Inspect | 0.1 | 0.1 | | | 2 | |
| | | Service | 0.1 | 0.1 | | | | |
| | | Repair | | 0.2 | | | | |
| 02 | Receiver Assembly 13012154 | Inspect | 0.1 | 0.1 | | | 2 | |
| | | Service | 0.1 | 0.1 | | | | |
| | | Repair | | 0.3 | | | 2 | |
| 0201 | Upper Receiver Assembly 13012155 | Inspect | 0.1 | 0.1 | | | 2 | |
| | | Service | 0.1 | 0.1 | | | | |
| | | Replace | | 0.2 | | | 2 | |
| | | Repair | | 0.2 | | | | |
| 020101 | Bolt/Bolt Carrier Assembly 13012160 | Inspect | 0.1 | 0.1 | | | 2 | |
| | | Service | 0.1 | 0.1 | | | | |
| | | Replace | | 0.1 | | | 2 | |
| | | Repair | | 0.3 | | | | |
| 02010101 | Bolt Assembly 13012144 | Inspect | 0.1 | 0.1 | | | 2 | |
| | | Service | 0.1 | 0.1 | | | | |
| | | Replace | | 0.2 | | | 2 | |
| | | Repair | | 0.3 | | | | |
| 02010102 | Bolt Carrier Assembly 13012184 | Inspect | 0.1 | 0.1 | | | 2 | |
| | | Service | 0.1 | 0.1 | | | | |
| | | Replace | | 0.1 | | | 2 | |
| | | Repair | | 0.2 | | | | |

MAINTENANCE ALLOCATION CHART (MAC) - Continued

Table 1. MAC for M26 Modular Accessory Shotgun System (MASS) - Continued.

| (1) GROUP NUMBER | (2) COMPONENT/ ASSEMBLY | (3) MAINTENANCE FUNCTION | (4) MAINTENANCE LEVEL | | | | (5) TOOLS AND EQUIPMENT REF CODE | (6) REMARKS CODE | |
|------------------------|--|--------------------------------|--------------------------|------------|----------------|-------|--|------------------------|--|
| | | | FIELD | | SUSTAINMENT | | | | |
| | | | CREW | MAINTAINER | BELOW DEPOT | DEPOT | | | |
| | | | C | F | H | D | | | |
| 0202 | Lower Receiver Assembly 13012169 | Inspect | 0.1 | 0.1 | | | 2 | | |
| | | Service | 0.1 | 0.1 | | | | | |
| | | Repair | | 0.5 | | | | 2 | |
| 03 | Stand Alone Module 13012189 | Inspect | 0.1 | 0.1 | | | | 2 | |
| | | Service | 0.1 | 0.1 | | | | | |
| | | Remove/Install | 0.1 | | | | | | |
| | | Replace | | 0.1 | | | | | |
| | | Repair | | 0.2 | | | | | |
| 0301 | Butt Stock Assembly 13012207 | Inspect | 0.1 | 0.1 | | | | 2 | |
| | | Service | 0.1 | 0.1 | | | | | |
| | | Replace | | 0.1 | | | | | |
| | | Repair | | 0.1 | | | | | |

Table 2. Tools and Test Equipment for M26 Modular Accessory Shotgun System (MASS).

| TOOL OR TEST EQUIPMENT REF CODE | MAINTENANCE LEVEL | NOMENCLATURE | NATIONAL STOCK NUMBER | TOOL NUMBER |
|---------------------------------------|----------------------|---|--------------------------|----------------|
| 1 | F | Shop Set, Small Arms: Field Maintenance, Basic Less Power | 4933-00-564-8971 | SC 4933-95-A11 |
| 2 | F | Tool Kit, Small Arms | 5180-01-559-5981 | 5180-95-B76 |

END OF WORK PACKAGE

**FIELD MAINTENANCE
EXPENDABLE AND DURABLE ITEMS LIST**

INTRODUCTION**Scope**

This work package lists expendable and durable items that you will need to operate and maintain the M26 Modular Accessory Shotgun System (MASS). 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), CTA 50-909, Field and Garrison Furnishings and Equipment, or CTA 8-100, Army Medical Department Expendable/Durable Items.

Explanation of Columns in the Expendable/Durable Items List

Column (1) – Item No. This number is assigned to the entry in the list and is referenced in the narrative instructions to identify the item (e.g., Use solid film lubricant (WP 0023, item 5)).

Column (2) – Level. This column identifies the lowest level of maintenance that requires the listed item (C = Crew, F = Field).

Column (3) – National Stock Number (NSN). This is the NSN assigned to the item which you can use to requisition it.

Column (4) – Item Name, Description, and Part Number/(CAGEC). This column provides the other information you need to identify the item. The last line below the description is the part number and the Commercial and Government Entity Code (CAGEC) (in parentheses).

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

EXPENDABLE AND DURABLE ITEMS LIST

Table 1. Expendable and Durable Items List.

| (1) ITEM NO. | (2) LEVEL | (3) NATIONAL STOCK NUMBER (NSN) | (4) ITEM NAME, DESCRIPTION, PART NUMBER/(CAGEC) | (5) U/I |
|--------------------|--------------|--|---|------------|
| 1 | F | 1005-00-494-6602 | BRUSH, CLEANING, SMALL ARMS 8448462 (19204) | EA |
| 2 | F | 9150-01-054-6453 9150-01-053-6688 | CLEANER, LUBRICANT, AND PRESERVATIVE: (Grade 2) (CLP) 1 pt bottle 1 gal. bottle MIL-PRF-63460 (81349) | PT GL |

EXPENDABLE AND DURABLE ITEMS LIST - Continued

Table 1. Expendable and Durable Items List - Continued.

| (1) ITEM NO. | (2) LEVEL | (3) NATIONAL STOCK NUMBER (NSN) | (4) ITEM NAME, DESCRIPTION, PART NUMBER/(CAGEC) | (5) U/I |
|--------------------|--------------|--|---|------------|
| 3 | F | 6850-01-474-2319 | CLEANING SOLVENT 1 gal. can MIL-PRF-680, Type 2 (81349) | GL |
| 4 | F | 9150-00-754-2595 | GREASE, MOLYBDENUM SULFIDE MIL-G-21164 (81349) | LB |
| 5 | F | 9150-01-260-2534 | LUBRICANT, SOLID FILM 16 oz aerosol can MIL-L-23398 (81349) | OZ |
| 6 | F | 9150-00-292-9689 | LUBRICATING OIL, WEAPONS (LAW) 1 qt can MIL-PRF-14107 (81349) | QT |
| 7 | F | 9150-00-753-4686 | LUBRICATING OIL, WEAPONS (LSA) 1 gal. can MIL-L-46000 (81349) | GL |
| 8 | F | 7920-00-205-1711 | RAG, WIPING 50 lb bale A-A-531 (80244) | LB |
| 9 | F | 6850-00-224-6657 6850-00-224-6663 | RIFLE BORE CLEANING COMPOUND (RBC): Solution type 8 oz can 1 gal. can MIL-PRF-372 (81349) | OZ GL |
| 10 | F | 1005-00-228-3565 | SWAB, SMALL ARMS CLEANING 1000 pkg 5019316 (19204) | EA |

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| | | |
|--|--|---|
| <p>RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS</p> <p>For use of this form, see AR 25-30; the proponent agency is ODISC4.</p> | <p>Use Part II (reverse) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM).</p> | <p>DATE</p> <p>Date you filled out this form</p> |
|--|--|---|

| | |
|--|--|
| <p>TO: (Forward to proponent of publication or form) (Include ZIP Code) AMSTA-LC-LMPP / TECH PUBS, TACOM 6501 E. 11 Mile Road, Warren, MI 48397-5000</p> | <p>FROM: (Activity and location) (Include ZIP Code) Your mailing address</p> |
|--|--|

PART I – ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS

| | | |
|---|---|---|
| <p>PUBLICATION/FORM NUMBER TM 9-1005-341-23&P</p> | <p>DATE 15 March 2011</p> | <p>TITLE Field Maint. for Modular Accessory Shotgun System, M26</p> |
|---|---|---|

| ITEM NO. | PAGE NO. | PARA-GRAPH | LINE NO. * | FIGURE NO. | TABLE NO. | RECOMMENDED CHANGES AND REASON (Provide exact wording of recommended changes, if possible). |
|----------|----------|------------|------------|------------|-----------|--|
| | 0018-12 | | | | | <p>The charging handle assembly should be a repairable item.</p> <div style="text-align: center; font-size: 4em; font-weight: bold; transform: rotate(-15deg); opacity: 0.5;"> SAMPLE </div> |

**Reference to line numbers within the paragraph or subparagraph.*

| | | |
|---|--|---|
| <p>TYPED NAME, GRADE OR TITLE</p> <p>Your Name</p> | <p>TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION</p> | <p>SIGNATURE</p> <p>Your Signature</p> |
|---|--|---|

| | | |
|--|---|---------------------------------------|
| TO: <i>(Forward direct to addressee listed in publication)</i> AMSTA-LC-LMPP / TECH PUBS, TACOM 6501 E. 11 Mile Road, Warren, MI 48397-5000 | FROM: <i>(Activity and location) (Include ZIP Code)</i> Your address | DATE Date you filled out this form |
|--|---|---------------------------------------|

PART II – REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS

| | | |
|--|-----------------------|---|
| PUBLICATION NUMBER TM 9-1005-341-23&P | DATE 15 March 2011 | TITLE Field Maint. for Modular Accessory Shotgun System, M26 |
|--|-----------------------|---|

| 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.)*

| | | |
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| TYPED NAME, GRADE OR TITLE Your Name | TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION | SIGNATURE Your Signature |
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| TYPED NAME, GRADE OR TITLE | TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION | SIGNATURE |
|----------------------------|--|-----------|

By Order of the Secretary of the Army:

GEORGE W. CASEY, JR.
General, United States Army
Chief of Staff

Official:

A handwritten signature in black ink that reads "Joyce E. Morrow". The signature is written in a cursive style with a large, stylized initial "J".

JOYCE E. MORROW
Administrative Assistant to the
Secretary of the Army
1104603

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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 | $°F = (9/5 \times °C) + 32$ |

