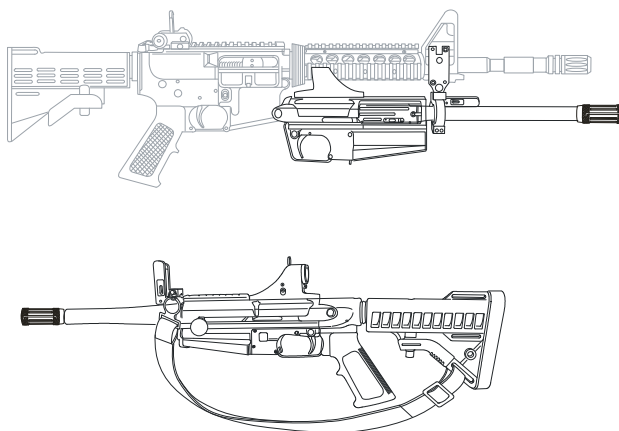


TM 9-1005-341-10

OPERATOR'S MANUAL FOR MODULAR ACCESSORY SHOTGUN SYSTEM, M26 1005-01-535-3487 (EIC:4KH)



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HEADQUARTERS, DEPARTMENT OF THE ARMY
JUNE 2010

WARNING SUMMARY

This warning summary contains general safety warnings 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 to personnel. Also included are explanations of safety and hazardous materials icons used within the technical manual.

FIRST AID

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

EXPLANATION OF SAFETY WARNING ICONS



EAR PROTECTION - headphones over ears shows that noise level will harm ears.



FLYING PARTICLES - arrows bouncing off face with faceshield shows that particles flying through the air will harm face.



SHARP OBJECT - pointed object in hand shows that a sharp object presents a danger to limb.



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

GENERAL SAFETY WARNINGS DESCRIPTION

WARNING



This weapon generates a harmful level of noise while being fired. Hearing loss or injury could occur. Adequate hearing protection must be worn while firing this weapon.

WARNING



When using the M1030 breaching round use of hearing protection and goggles is required. Use double hearing protection within 2 meters from target. Use single hearing protection from 2 to 8,5 meters from weapon being fired.

Change 1

WARNING SUMMARY- Continued

GENERAL SAFETY WARNINGS DESCRIPTION - Continued

WARNING



To avoid injury or death, ensure there are no obstacles (sling, branches, etc.) in line of fire.

WARNING



Parts under spring tension are a hazard to personnel. Injury is possible. To avoid injury during disassembly, release tension slowly. Wear adequate eye protection.

WARNING



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

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.



EXPLOSION - rapidly expanding symbol shows that the material may explode if subjected to high temperatures, sources of ignition, or high pressure.



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



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

Change 1

HAZARDOUS MATERIALS DESCRIPTION

WARNING



To avoid injury or death, use only authorized ammunition.

WARNING



To avoid injury or death, ensure that muzzle of weapon is pointed in safe direction when loading and firing.

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.

Change 1

CHANGE
NO. 1

HEADQUARTERS,
DEPARTMENT OF THE ARMY
WASHINGTON, D. C. , 31 OCTOBER 2011

TECHNICAL MANUAL
OPERATOR'S MANUAL
FOR
MODULAR ACCESSORY
SHOTGUN SYSTEM, M26
1005-01-535-3487 (EIC:4KH)

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TM 9-1005-341-10, JUNE 2010, is updated as follows:

1. File this sheet in front of the manual for reference.
2. This change is a result of 2028's and Safety and Health Data Sheet.
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:

<u>Remove pages</u>	<u>Insert pages</u>
a through c	a through c
A	A
i through vi	i through vi
2028	2028
Front Cover	Front Cover

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

Work Package Number

WP 0001
WP 0002
WP 0006
WP 0007
WP 0008
WP 0012
WP 0013
WP 0014
WP 0016

By Order of the Secretary of the Army:

RAYMOND T. ODIERNO
General, United States Army
Chief of Staff

Official:

A handwritten signature in black ink, reading "Joyce E. Morrow". The signature is fluid and cursive, with the first name "Joyce" and last name "Morrow" clearly legible.

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

1127009

DISTRIBUTION: To be distributed in accordance with the Initial Distribution Number (IDN) 411261 requirements for TM 9-1005-341-10.

LIST OF EFFECTIVE PAGES / WORK PACKAGES

NOTE: Zero in the "Change No." column indicates an original page or work package.

Date of issue for the original manual is:

Original 30 June 2010
Change 1 31 October 2011

TOTAL NUMBER OF PAGES FOR FRONT AND REAR MATTER IS 30 AND TOTAL NUMBER OF WORK PACKAGES IS 20 CONSISTING OF THE FOLLOWING:

Page/WP No.	Change	Page/WP No.	Change
Front Cover	1	Chapter 3 title page	0
Warning summary (4 pgs)	1	WP 0010 (6 pgs)	1
A	1	Chapter 4 title page	0
B blank	0	WP 0011 (2 pgs)	0
i - v	1	WP 0012 (10 pgs)	1
vi blank	0	WP 0013 (6 pgs)	1
Chapter 1 title page	0	WP 0014 (8 pgs)	1
WP 0001 (4 pgs)	1	WP 0015 (2 pgs)	0
WP 0002 (4 pgs)	1	Chapter 5 title page	0
WP 0003 (2 pgs)	0	WP 0016 (6 pgs)	1
Chapter 2 title page	0	Chapter 6 title page	0
WP 0004 (2 pgs)	0	WP 0017 (2 pgs)	0
WP 0005 (2 pgs)	0	WP 0018 (4 pgs)	0
WP 0006 (12 pgs)	1	WP 0019 (2 pgs)	0
WP 0007 (2 pgs) Deleted	1	WP 0020 (4 pgs)	0
WP 0008 (12 pgs)	1	INDEX-1 – INDEX-4	0
WP 0009 (2 pgs)	0		

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HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, D.C., 30 JUNE 2010

**OPERATOR'S MANUAL
FOR
MODULAR ACCESSORY
SHOTGUN SYSTEM, M26
(1005-01-535-3487) (EIC:4KH)**

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this publication. If you find any errors, or if you would like to recommend any improvements to the procedures in this publication, please let us know. The preferred method is to submit your DA Form 2028 (Recommended Changes to Publications and Blank Forms) through the Internet on the TACOM Unique Logistics Support Applications (TULSA) Web site. The Internet address is <https://tulsa.tacom.army.mil>. Access to all applications requires CAC authentication, and you must complete the Access Request form the first time you use it. The DA Form 2028 is located under the TULSA Applications on the left-hand navigation bar. Fill out the form and click on SUBMIT. Using this form on the TULSA Web site will enable us to respond more quickly to your comments and to better manage the DA Form 2028 program. You may also mail, e-mail, or fax your comments or DA Form 2028 directly to the U.S. Army TACOM Life Cycle Management Command. The postal mail address is U.S. Army TACOM Life Cycle Management Command, ATTN: AMSTA-LCL-MPP/TECH PUBS, MS 727, 6501 E. 11 Mile Road, Warren, MI 48397-5000. The e-mail address is tacomlcmc.daform2028@us.army.mil. The fax number is DSN 786-1856 or Commercial (586) 282-1856. A reply will be furnished to you.

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HOW TO USE THIS MANUAL

The safest, easiest, and best way to operate the M26 Modular Accessory Shotgun System (MASS) is to use this manual. Learning to use this TM is as easy as reading through the next few pages of 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 operation of the MASS. The manual is divided into six chapters. The six chapters, and what they contain, are found in the Table of Contents in the front of this manual. For example, to learn about using the MASS, you would look in the table of contents and discover that Chapter 2 provides all pertinent information about the operation of the system. Since Chapter 2 covers a great deal of information, you will have to scan the chapter to find the specific information you will need.

In the back of this manual, you will find Chapter 6, Supporting Information. The chapter provides specific information that will assist you in performing the various operational tasks. The work packages provide such information as additional references (i.e., other TMs or FMs), as in WP 0017, and Basic Issue Items (BII), as in WP 0018. Become familiar with all work packages and what they contain before beginning any operational or 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 chapters 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 operational and maintenance tasks in the most efficient manner possible 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 operating and maintaining this system in the manner for which it was designed.

Change 1

CHAPTER 1

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

OPERATOR**GENERAL INFORMATION**

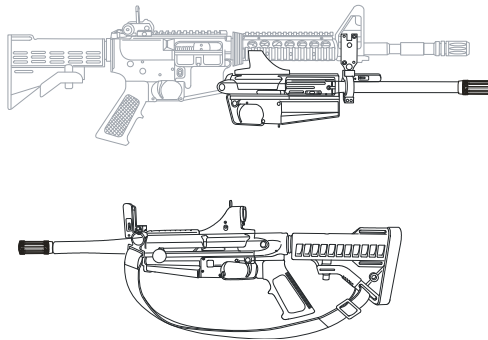


Figure 1. Modular Accessory Shotgun System, M26.

SCOPE

Type of Manual. Operator's 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 a capability to fire non-lethal, lethal, and door breaching rounds in the field. It can be fired from the attached configuration 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 allows the operator the capability to mount various accessories to 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.

Change 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.

Corrosion specifically occurs with metals. It is an electrochemical process that causes the degradation of metals. It is commonly caused by exposure to moisture, acids, bases, or salts. An example is the rusting of iron. Corrosion damage in metals can be seen, depending on the metal, as tarnishing, pitting, fogging, surface residue, and/or cracking.

Plastics, composites, and rubbers can also degrade. Degradation is caused by thermal (heat), oxidation (oxygen), solvation (solvents), or photolytic (light, typically UV) processes. The most common exposures are excessive heat or light. Damage from these processes will appear as cracking, softening, swelling, and/or breaking.

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

HAZARDOUS WASTE DISPOSAL INFORMATION

When servicing this weapon, performing maintenance, or disposing of materials such as cleaning fluids, cleaning compounds, sealants, and lubricants (or items, such as cleaning rags, contaminated with these substances) 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.

Change 1

DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE

Procedures and materials used for the destruction of the M26 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

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 AR 385-64.

END OF WORK PACKAGE**Change 1**

OPERATOR**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.

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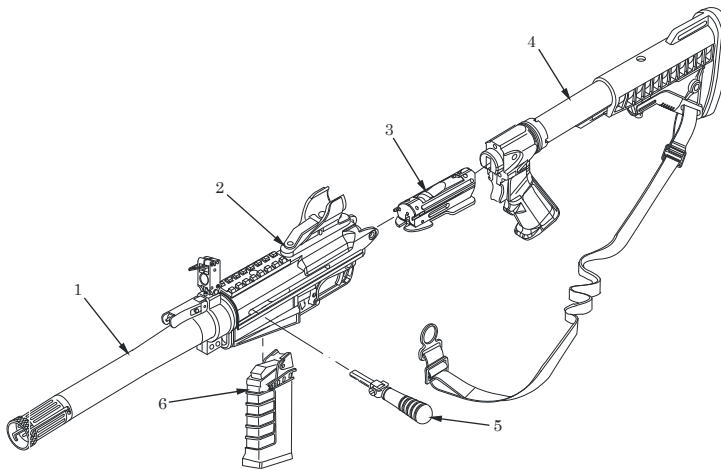
LOCATION AND DESCRIPTION OF MAJOR COMPONENTS

Figure 1. Location of Major Components.

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 hydraulic 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 reversed to accommodate left-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 (see WP 0019).

Change 1

EQUIPMENT DATA

PHYSICAL CHARACTERISTICS - ATTACHED MODE

Caliber 12-gauge
 Weight 3.5 lb (1.6 kg)
 Length 16.5 in. (41.9 cm)
 Mechanical Features Cylinder bore

PHYSICAL CHARACTERISTICS - STAND ALONE MODE

Caliber 12-gauge
 Weight 5.3 lb (2.4 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)
 Breaching Rounds 0 to 3 in. (0 to 7.6 cm)
 Maximum Range Ammunition specific
 Safety Mechanism Safe-Fire

END OF WORK PACKAGE

Change 1

OPERATOR**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

**OPERATOR INSTRUCTIONS
FOR
M26 MODULAR ACCESSORY
SHOTGUN SYSTEM (MASS)**

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

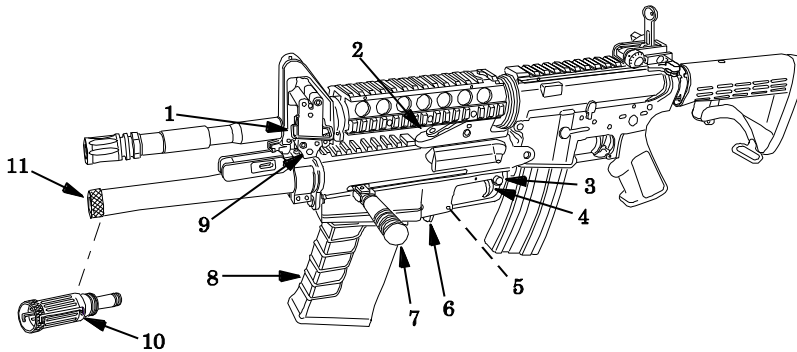
DESCRIPTION AND USE OF CONTROLS AND INDICATORS

Figure 1. MASS Controls and Indicators (Sheet 1 of 2).

Slide Swivel (1). Allows operator to attach sling to host weapon.

Rear Mount Bracket (2). Provides an interface between MASS and barrel nut of host weapon. Acts as rear sight in stand-alone mode.

Safety Mechanism (3). The safety mechanism has two positions, safe and fire. When the red stripe is visible, the weapon can be fired. When the red stripe is not visible, the safety mechanism is engaged and the weapon cannot be fired. The safety mechanism can be installed on either side of the receiver for ambidextrous operation.

Trigger (4). When the operator squeezes the trigger, the firing sequence is initiated.

Action Lock Release (5). The action lock secures the action to forward position and prevents the bolt from moving out of battery when a round is chambered. The action lock release allows the bolt and action to be unlocked and cycled to the rear to accomplish weapon clearing without firing a chambered cartridge. The action lock release is located on the underside of the weapon just to the rear of the magazine release.

Magazine Release (6). Holds the magazine in place in the magazine well and allows the operator to release the magazine and remove it from the weapon.

Charging Handle (7). 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 for ambidextrous operation.

DESCRIPTION AND USE OF CONTROLS AND INDICATORS - Continued

Magazine (8). Holds up to five cartridges for feeding and provides a quick reload capability for sustained firing.

Takedown Pin (9). Secures MASS to host weapon.

Standoff Device (10). Provides internal choke tube and is used for breaching techniques.

Choke Tube (11). Controls the pattern of the shot.

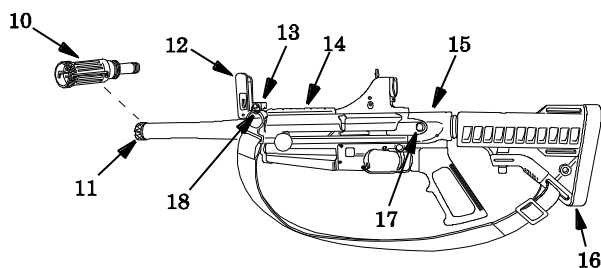


Figure 1. MASS Controls and Indicators (Sheet 2 of 2).

Front Sight (12). Allows operator to adjust strike of round.

Elevation Block (13). Provides a means to raise or lower the point of impact of MASS-fired rounds upon the target and manually zero the MASS to host weapon. The elevation block turns clockwise to raise the point of impact and counterclockwise to lower the point of impact.

Adapter Rail (14). Provides location for mounting of accessories.

Pistol Grip Adapter (15). Integrates pistol grip and butt stock tube. Mounts to rear of MASS receiver.

Butt Stock Assembly (16). Adjustable hydraulic butt stock is adjusted by depressing lock release lever located underneath butt stock.

Adapter Mounting Pin and Coiled Wire Ring (17). Secures pistol grip adapter to MASS receiver.

Elevation Block Pin and Coiled Wire Ring (18). Secures sling bracket to elevation block.

END OF WORK PACKAGE

OPERATOR**OPERATION UNDER USUAL CONDITIONS - CLEARING THE WEAPON**

INITIAL SETUP:

Not Applicable

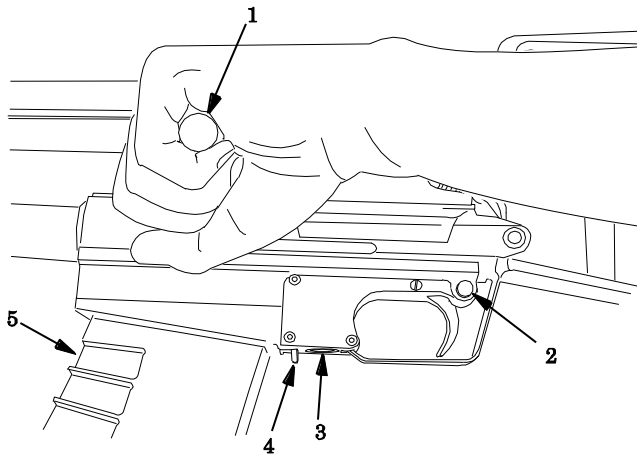
CLEARING THE WEAPON

Figure 1. Clearing the MASS.

1. Remove the magazine (5) by depressing magazine release (4).
2. Place safety mechanism (2) in safe position (no red visible) and continue with step 3. If unable to place in safe position (no red visible), pull charging handle (1) rearwards to eject chambered round. Place safety mechanism in safe position (no red visible) and proceed to step 4.
3. Press action lock release (3) and pull charging handle (1) rearwards to eject chambered round.
4. Inspect receiver and chamber to ensure areas contain no ammunition.
5. Return bolt to forward and locked position.

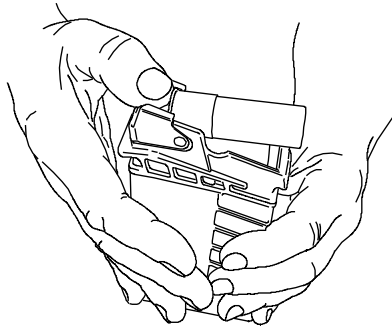
CLEARING THE WEAPON - Continued

Figure 2. Removing Rounds from the MASS Magazine.

6. If returning weapon to arms room, remove all rounds from magazine(s).

END OF TASK

END OF WORK PACKAGE

OPERATOR**OPERATION UNDER USUAL CONDITIONS - ATTACHED MODE**

INITIAL SETUP:**References**

FM 3-22.9
TM 9-1005-319-10
WP 0005
WP 0010
WP 0014
WP 0016

ATTACHING MASS TO HOST WEAPON**NOTE**

Upper bracket assembly must be installed on host weapon by armorer (field maintenance) prior to attachment of MASS to weapon.

1. Clear weapon (see WP 0005).
2. Remove lower adapter rail from host weapon. Refer to TM 9-1005-319-10.
3. Remove sling from forward sling swivel on host weapon.

Change 1

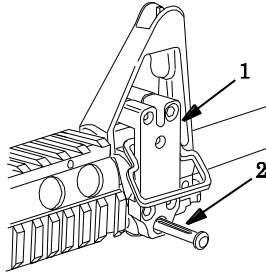
ATTACHING MASS TO HOST WEAPON - Continued

Figure 1. Sling Attachment.

4. Reattach sling to sling swivel on upper bracket assembly (1).

NOTE

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

5. Push takedown pin (2) from upper bracket assembly (1).

NOTE

Deleted

Figure 2. Deleted

6. Deleted

Change 1

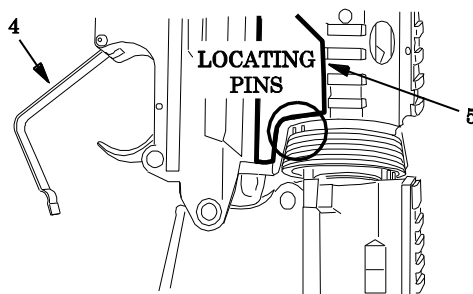
ATTACHING MASS TO HOST WEAPON - Continued

Figure 3. Positioning the MASS on the Host Weapon.

7. Position trigger guard (4) so it is open and free from retention by the magazine well of the host weapon.
8. Insert rear bracket (5) in barrel nut of host weapon. Ensure that two locating pins are seated within teeth spaces of barrel nut of host weapon. If locating pins do not align within teeth of barrel nut, notify maintenance. Apply downward pressure to seat, until hole in elevation block (3) is aligned with takedown pin (2).

CAUTION

When mounted to host weapon, M26 MASS mounting screws on top accessory rail should be periodically checked for tightness (tighten as necessary).

NOTE

If upper bracket assembly and lower bracket assembly do not align, return both host weapon and MASS to armorer (field maintenance) for alignment.

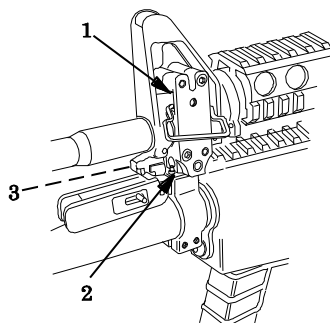


Figure 4. Seating the MASS on the Host Weapon.

9. Place elevation block (3) in opening of upper bracket assembly (1) and, with hand pressure, ensure that MASS is seated as close to weapon receiver as possible. Push takedown pin (2) through elevation block.

Change 1

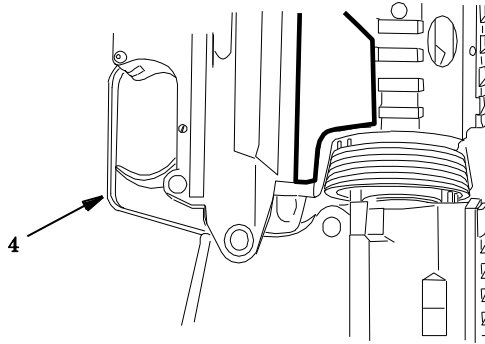
ATTACHING MASS TO HOST WEAPON - Continued

Figure 5. Positioning the Trigger Guard.

WARNING

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

10. Position trigger guard (4) between MASS and magazine well of host weapon. Trigger guard will be properly aligned when it is retained by magazine well.

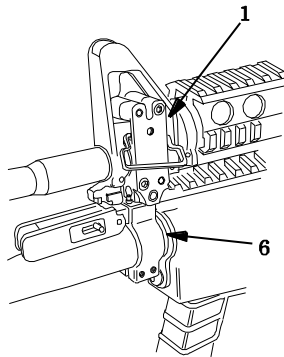


Figure 6. Checking for Movement.

CAUTION

A loose mount bracket may cause malfunctions while firing.

11. Grasp upper bracket assembly (1) and lower bracket assembly (6) and check for movement. If movement is detected, notify maintenance.

Change 1

END OF TASK

AUTHORIZED AMMUNITION**WARNING**

The following table lists the only ammunition authorized for use in the MASS. Do not use other ammunition.

To avoid injury or death, disposal of ammunition that fails to fire will follow authorized procedures.

NOTE

The ammunition capacity of the MASS is six rounds, with one round in the chamber. If using the three-round magazine, the capacity is four rounds with one round in the chamber.

Table 1. Authorized Ammunition for M26 Modular Accessory Shotgun System.

Lethal	Non-Lethal	Training Aid
<u>Lethal: 2-3/4 in. or 3 in.</u>	<u>Non-Lethal: 3 in.</u>	<u>Inert: 2-3/4 in.</u>
# 00 Buckshot, M162, 2-3/4 only	M1012 Point Control	MK242 MOD 0 Dummy Cartridge
# 4 Shot	M1013 Crowd Dispersal	
# 6 Shot		
# 7-1/2 Shot		
# 9 Shot		
M1030 Breaching Cartridge		

WARNING

- The standoff device must be installed and ballistic eye protection must be worn when firing M1030 breaching cartridges.

For ammunition descriptions, see WP 0016.

Change 1

END OF TASK

LOADING THE MAGAZINE

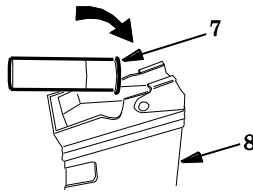


Figure 7. Loading the MASS Magazine.

1. Manually check the follower for freedom of movement.
2. Load rounds in magazine (8) by inserting cartridge (7), rim first. Push down and toward rear of magazine.
3. Repeat until magazine (8) is full. Capacity of five-round magazine is five rounds; capacity of three-round magazine is three rounds.

END OF TASK

LOADING AND FIRING

WARNING



- To avoid injury or death, ensure muzzle is pointed in a safe direction.
- Do not fire any rounds without the choke tube or standoff device firmly screwed in place.

NOTE

The magazine may be inserted with bolt assembly open or closed.

1. Clear weapon (see WP 0005).

WARNING



Ensure that safety mechanism is in safe position - no red visible.

Change 1

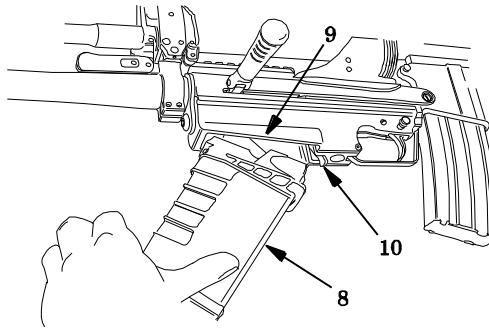
LOADING AND FIRING - Continued

Figure 8. Inserting a Loaded MASS Magazine.

CAUTION

Use care not to drop loaded magazines. If dropped from height of 3 ft (0.9m) or greater the metal retaining strap may disengage from housing, allowing magazine spring to thrust the follower through top of magazine and empty ammunition payload

2. Insert fully loaded magazine (8) into magazine well (9) by seating front lip first and then rotating rear upwards until it snaps in place secured by magazine release (10).

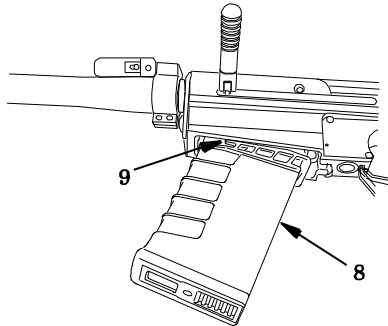


Figure 9. Checking for a Securely Seated MASS Magazine.

3. Grasp magazine (8) and pull down to ensure magazine is seated securely in magazine well (9).

Change 1

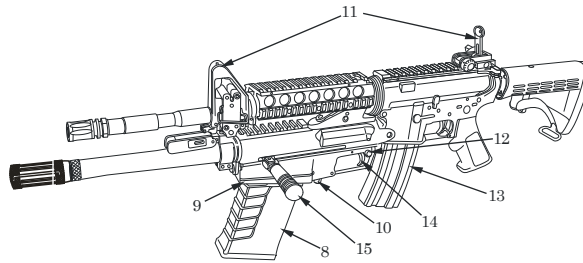
LOADING AND FIRING - Continued

Figure 10. Chambering a Round and Firing the MASS.

4. Pull charging handle (15) to rear and then push forward, with enough force to ensure round is inserted into chamber and bolt is locked.
5. Remove magazine (8) by depressing magazine release (10). Insert another round to fully load magazine.
6. Insert fully loaded magazine (8) into magazine well (9) by seating front lip first and then rotating rear upwards until it snaps in place secured by magazine release (10).

WARNING

To avoid injury or death, ensure there are no obstacles (sling, branches, etc.) in line of fire.

7. Face target, place weapon against shoulder, and grip host weapon magazine (13) with firing hand.
8. Align optic or front and rear sights (11) of host weapon.
9. Move safety mechanism (12) from safe position (no red visible) to fire position (red visible).

WARNING

To avoid misfires, do not exert rearward pressure on charging handle when firing the MASS.

10. Squeeze trigger (14) of the MASS.

Change 1

LOADING AND FIRING - Continued

11. Pull charging handle (15) to the rear to eject spent round, then push it forward again to chamber another round.

END OF TASK**INSTALLING THE STANDOFF DEVICE****NOTE**

The choke tubes should be periodically checked for tightness and re-torqued as required

1. Clear weapon (see WP 0005).
2. Remove standoff device (1) by rotating counterclockwise from barrel (2).

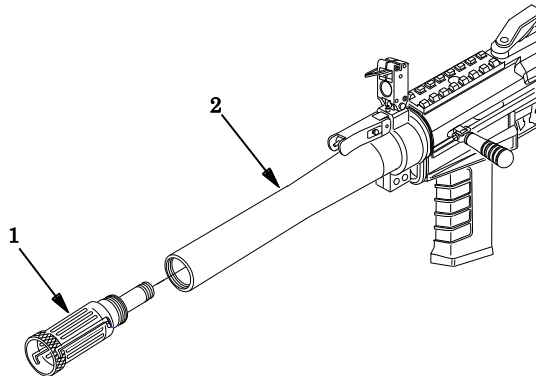


Figure 11. Installing the Standoff Device

3. Align threaded end of standoff device (1) with threads in barrel (2). Screw standoff device into end of barrel hand-tight.
4. Pull out on standoff device (1) and rotate counterclockwise 1/8 turn. Slide standoff device forward until end of travel is reached (fully extended). Rotate standoff device clockwise 1/8 turn to lock.

END OF TASK**Change 1**

MISFIRE PROCEDURES

Immediate Action

WARNING



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

1. Pull charging handle rearward.
2. Check ejection port. If a cartridge is ejected, push charging handle forward and attempt to fire again.
3. If MASS still fails to fire, perform Remedial Action.

Remedial Action

WARNING



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

1. Clear weapon (see WP 0005).
2. Check chamber and remove any type of obstruction caused by an empty or ruptured case, live round, or foreign matter. See WP 0014.
3. Reload MASS magazine (see LOADING THE MAGAZINE in this work package).
4. Chamber a cartridge (see LOADING AND FIRING in this work package).
5. Attempt to fire (see LOADING AND FIRING in this work package).
6. Perform troubleshooting procedures if remedial action fails to correct the problem. See WP 0010.

END OF TASK

Change 1

REMOVING MASS FROM HOST WEAPON

1. Clear MASS (see WP 0005) and host weapon (refer to TM 9-1005-319-10).

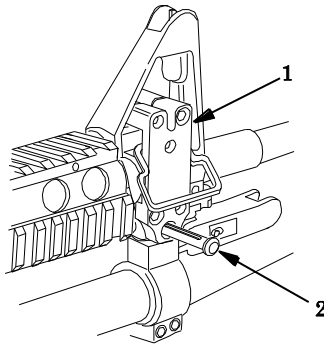


Figure 12. Removing the MASS from the Host Weapon.

NOTE

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

2. Push takedown pin (2) from upper bracket assembly (1).
3. Lift MASS from barrel nut of host weapon, ensuring that trigger guard is released from magazine well of host weapon.
4. Replace takedown pin (2) in upper bracket assembly (1).
5. Install lower adapter rail to host weapon. Refer to TM 9-1005-319-10.

END OF TASK**END OF WORK PACKAGE**

Change 1

WP 0007 was deleted

OPERATOR**OPERATION UNDER USUAL CONDITIONS - STAND ALONE MODE**

INITIAL SETUP:**References**

WP 0005

WP 0006

WP 0016

INSTALLING STAND ALONE MODULE**WARNING**

For stand-alone configuration of M26 MASS, shooter should be limited to 200 rounds of either 2-3/4 in. 00-buckshot or the M1030 breaching rounds per day to reduce risk of musculoskeletal trauma

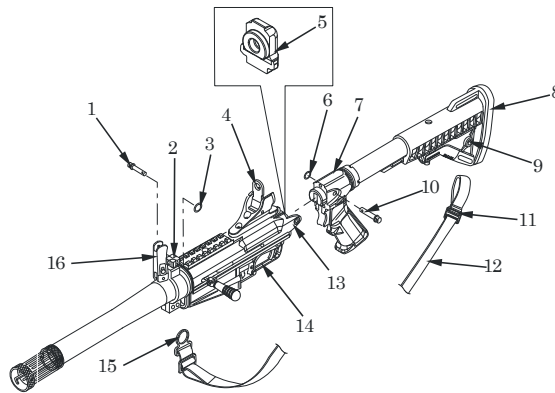


Figure 1. Stand Alone Installation.

1. Clear weapon (see WP 0005).
2. Remove rubber receiver plug (5) from rear of upper receiver (13) and store plug.
3. Remove coiled wire ring (6) from mounting pin (10).
4. Remove mounting pin (10) from pistol grip adapter (7).
5. Install pistol grip adapter (7) into rear of upper receiver (13). Ensure that trigger guard (14) is captured by pistol grip adapter.
6. Firmly seat pistol grip adapter (7) into rear of upper receiver (13) and install mounting pin (10) and coiled wire ring (6).

Change 1

INSTALLING STAND ALONE MODULE - Continued**NOTE**

The elevation block should be at its lowest setting to insure that it is secure for attachment of the sling.

7. Turn elevation block (2) fully clockwise to set at lowest setting.
8. Install end of sling strap (12) through slot of butt stock (8) and secure by threading strap through sling slide (11).
9. Remove coiled wire ring (3), elevation block pin (1), and sling bracket (15) from hole (9) in butt stock (8).
10. Secure sling bracket (15) to elevation block pin (1) with coiled wire ring (3) or to mounting pin (10) with coiled wire ring (6).

NOTE

If elevation block pin (1) and coiled wire ring (3) are not used for attachment of sling, return them to hole (9) in butt stock (8).

11. Place rear sight (4) and front sight (16) in upright locked position.

END OF TASK**AUTHORIZED AMMUNITION****WARNING**

The following table lists the only ammunition authorized for use in the MASS. Do not use other ammunition.

To avoid injury or death, disposal of ammunition that fails to fire will follow authorized procedures.

NOTE

The ammunition capacity of the MASS is six rounds, with one round in the chamber. If using the three-round magazine, the capacity is four rounds with one round in the chamber.

Change 1

LOADING THE MAGAZINE

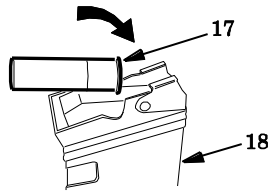


Figure 2. Loading the MASS Magazine.

1. Manually check the follower for freedom of movement.
2. Load rounds in magazine (18) by inserting cartridge (17), rim first. Push down and toward rear of magazine.
3. Repeat until magazine (18) is full. Capacity of five-round magazine is five rounds; capacity of three-round magazine is three rounds.

END OF TASK

LOADING AND FIRING

WARNING



- To avoid injury or death, ensure muzzle is pointed in a safe direction.
- Do not fire any rounds without the choke tube or standoff device firmly screwed in place.
- All personnel within 35 meters of the firing of this weapon are required to wear approved hearing protection (noise muffs or ear plugs). If single hearing protection is worn, daily exposure should not exceed 2,000 rounds. If double hearing protection is worn, daily exposures should not exceed 40,000 rounds
- Soldiers directly involved in breaching activities should wear double hearing protection. This includes soldiers in close proximity to gunner.
- During training and combat mission the M26 MASS should not be carried with a round in chamber until user is ready to fire weapon.

NOTE

- The magazine may be inserted with bolt assembly open or closed.
- Shooter should adhere to the lesser of the daily firing limit of recoil vs. noise.

Change 1

LOADING AND FIRING - Continued

1. Clear weapon (see WP 0005).

WARNING

Ensure that safety mechanism is in safe position - no red visible.

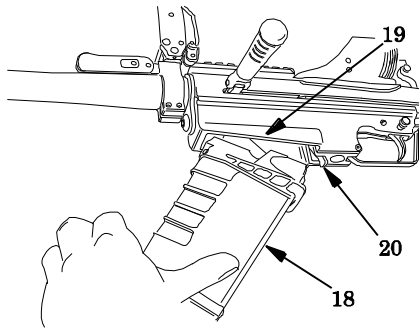


Figure 3. Inserting a Loaded MASS Magazine.

2. Insert fully loaded magazine (18) into magazine well (19) by seating front lip first and then rotating rear upwards until it snaps in place secured by magazine release (20).

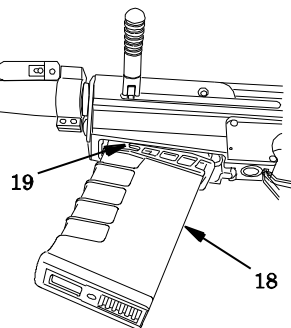


Figure 4. Checking for a Securely Seated MASS Magazine.

3. Grasp magazine (18) and pull down to ensure magazine is seated securely in magazine well (19).

Change 1

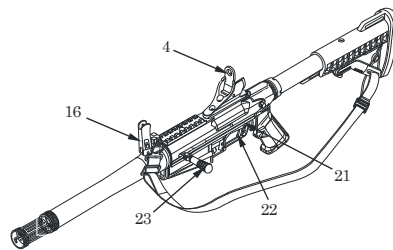
LOADING AND FIRING - Continued

Figure 5. Loading and Firing the MASS.

4. Pull charging handle (23) to rear and then push forward, with enough force to ensure round is inserted into chamber and bolt is locked.
5. Remove magazine (18) by depressing magazine release (20). Insert another round to fully load magazine.
6. Insert fully loaded magazine (18) into magazine well (19) by seating front lip first and then rotating rear upwards until it snaps in place secured by magazine release (20).

WARNING

To avoid injury or death, ensure there are no obstacles (sling, branches, etc.) in line of fire.

7. Face target, place weapon against shoulder, and grip magazine (18) with firing hand.
8. Align aperture of rear sight (4) with sight post of front sight (16).
9. Move safety mechanism (21) from safe position (no red visible) to fire position (red visible).

Change 1

LOADING AND FIRING - Continued**WARNING**

To avoid misfires, do not exert rearward pressure on charging handle when firing the MASS.



Failure to employ single hearing protection may result in loss of hearing.

10. Squeeze trigger (22).
11. Pull charging handle (23) to the rear to eject spent round, then push it forward again to chamber another round.

END OF TASK**ZEROING THE MASS****WARNING**

Keep safety mechanism in safe position (no red visible) until ready to fire.



Failure to employ single hearing protection may result in loss of hearing.

NOTE

Deleted

1. Move sight post of front sight (16) to flush (mechanical zero).
2. Fire one #00 Buckshot, M162, round at target from a distance of 5 m.

Change 1

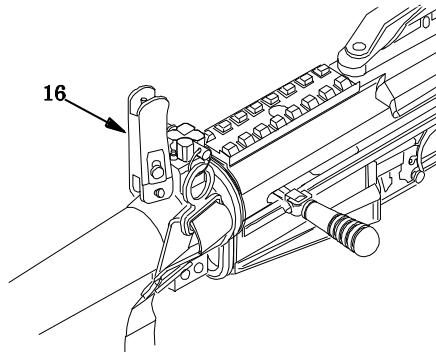
ZEROING THE MASS - Continued

Figure 6. Zeroing the MASS.

3. Make adjustments to sight post of front sight (16) by raising or lowering post.
4. Repeat steps 2 and 3 until center of shot group is 2.5 in. (6.4 cm) below center of M16 zero target.
5. If using a M68 CCO (Close Combat Optics), align red dot to tip of sight post of front sight (16) of zeroed MASS.

END OF TASK

Change 1

INSTALLING THE STANDOFF DEVICE

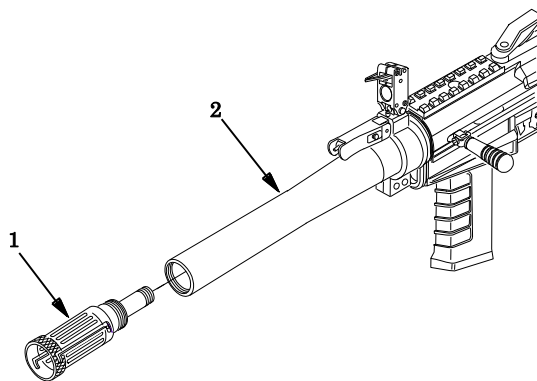


Figure 7. Installing the Standoff Device

1. Align threaded end of standoff device (1) with threads in barrel (2). Screw standoff device into end of barrel hand-tight.
2. Pull out on standoff device (1) and rotate counterclockwise 1/8 turn. Slide standoff device forward until end of travel is reached (fully extended). Rotate standoff device clockwise 1/8 turn to lock.

END OF TASK

MISFIRE PROCEDURES

Immediate Action

WARNING



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

1. Pull charging handle rearward.
2. Check ejection port. If a cartridge is ejected, push charging handle forward and attempt to fire again.
3. If MASS still fails to fire, perform Remedial Action.

Change 1

MISFIRE PROCEDURES - Continued**Remedial Action****WARNING**

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

1. Clear weapon (see WP 0005).
2. Check chamber and remove any type of obstruction caused by an empty or ruptured case, live round, or foreign matter. See WP 0014.
3. Reload MASS magazine (see LOADING THE MAGAZINE in this work package).
4. Chamber a cartridge (see LOADING AND FIRING in this work package).
5. Attempt to fire (see LOADING AND FIRING in this work package).
6. Perform troubleshooting procedures if remedial action fails to correct the problem. See WP 0010.

END OF TASK**Change 1**

REMOVING STAND ALONE MODULE

1. Clear weapon (see WP 0005).

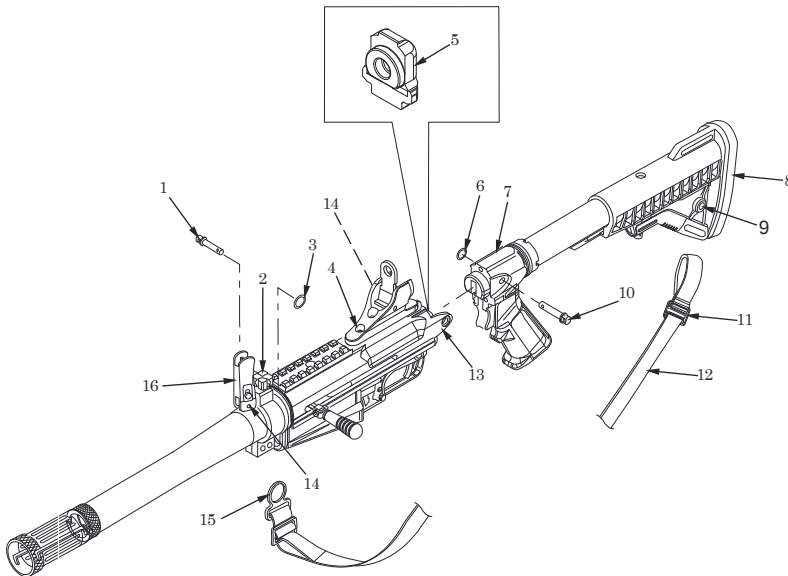


Figure 8. Stand Alone Removal.

2. Remove coiled wire ring (3), elevation block pin (1), and sling bracket (15) from elevation block (2) and store in hole (9) of butt stock (8). Loosen sling strap (12) by passing end through sling slide (11). Remove sling strap by pulling through slot of butt stock (8).
3. Remove coiled wire ring (6), mounting pin (10), and pistol grip adapter (7) from upper receiver (12).
4. Install rubber receiver plug (5) in rear of upper receiver (13).
5. Lift or depress release pins (14) and lower rear sight (4) and front sight (16).

END OF TASK

END OF WORK PACKAGE

Change 1

OPERATOR
OPERATION UNDER UNUSUAL CONDITIONS

UNUSUAL ENVIRONMENT/WEATHER

NOTE

Keep the weapon clean and lubricated. See WP 0014.

Hot, Dusty, and Sandy Areas

Clean often. Lubricate frequently because heat dissolves lubricant rapidly. Wipe lubricant from exposed surfaces. Cover weapon as much as possible. Keep all moving parts free of debris. Refer to TB 9-1000-262-DT.

Rainy, Humid, and Salty Air

Rainy, humid, and salty air contaminate the lubrication and cause corrosion. Inspect the MASS daily. Dry, clean, and lubricate as necessary.

Below Freezing Temperatures

Keep weapon wrapped in parka or blanket when it is brought from a cold area to a warm area. Allow weapon to reach room temperature gradually. If condensation forms, dry and lubricate at room temperature before taking it into cold weather again; otherwise, ice will form in the weapon system. Keep ice and snow from operating parts.

Immersion in Water

Do not fire if MASS is submerged or if barrel is full of water. After immersion in water, disassemble, clean, lubricate, and reassemble as soon as possible. Make sure the MASS is dry.

Nuclear, Biological, and Chemical (NBC) Environment

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

END OF WORK PACKAGE

CHAPTER 3

OPERATOR

TROUBLESHOOTING PROCEDURES

FOR

M26 MODULAR ACCESSORY

SHOTGUN SYSTEM (MASS)

OPERATOR

OPERATIONAL CHECKOUT AND TROUBLESHOOTING PROCEDURES

INITIAL SETUP:

References

WP 0006
 WP 0008
 WP 0013
 WP 0014
 WP 0016

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 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 field maintenance.

WARNING



To avoid injury or death, ensure that both MASS and host weapon are cleared of ammunition.

TROUBLESHOOTING PROCEDURES

Table 1. Troubleshooting Procedures.

MALFUNCTION

TEST OR INSPECTION

CORRECTIVE ACTION

1. FAILURE TO FEED.

Step 1. Inspect for dirty or corroded ammunition.

Clean or replace ammunition as required (WP 0016).

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

MALFUNCTION
TEST OR INSPECTION
CORRECTIVE ACTION

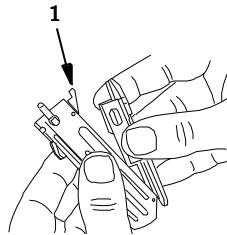
1. FAILURE TO FEED - Continued.

Step 2. Inspect magazine for cleanliness and serviceability (WP 0014).

Clean or replace magazine as required.

Step 3. Inspect for obstruction in chamber.

Remove obstruction (WP 0014).



Step 4. Inspect for broken or missing cartridge guide (1).

If cartridge guide is broken or missing, notify field maintenance.

2. FAILURE TO CHAMBER.

Step 1. Inspect for dirty or corroded ammunition.

Clean or replace ammunition as required (WP 0016).

Step 2. Inspect for dirt and/or corrosion build up in chamber.

Clean as required (WP 0014).

Step 3. If problem persists, notify field maintenance.

Table 1. Troubleshooting Procedures - Continued.

MALFUNCTION**TEST OR INSPECTION****CORRECTIVE ACTION****3. FAILURE TO LOCK.**

Step 1. Inspect for dirt and/or corrosion build up in chamber.

Clean as required (WP 0014).

Step 2. If problem persists, notify field maintenance.

4. FAILURE TO FIRE.

Step 1. Inspect to see if weapon is on safe (no red visible).

Place safety mechanism in fire position (red visible) and attempt to fire.

Step 2. Inspect to see if weapon is loaded. Point in a safe direction. Remove magazine and pull charging handle to the rear. Place safety in safe position (no red visible), if not already in safe position.

If not loaded, see WP 0006 or WP 0008 for loading instructions.

Step 3. Inspect for faulty ammunition (WP 0016).

Replace ammunition as necessary.

Step 4. Inspect magazine for cleanliness and serviceability (WP 0014).

Clean or replace magazine as required.

Step 5. Visually inspect for dirt or residue on firing pin and around firing pin hole (WP 0013).

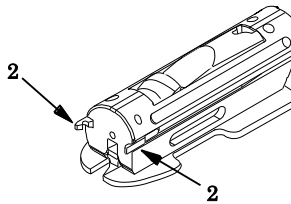
Clean thoroughly (WP 0014).

Step 6. Visually inspect for broken or missing firing pin and firing pin spring (WP 0013).

If broken or missing, notify field maintenance.

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

MALFUNCTION
TEST OR INSPECTION
CORRECTIVE ACTION

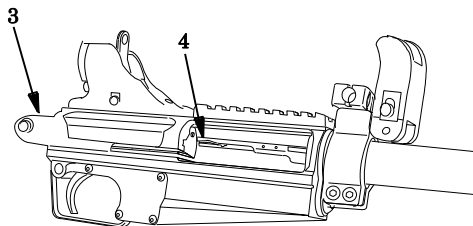
5. FAILURE TO EXTRACT.

Step 1. Inspect for dirt and/or corrosion build up in chamber and on both extractors (2).

Clean as required (WP 0014).

Step 2. Inspect for immovable or broken extractors.

- If either extractor is immovable, clean and lubricate bolt (WP 0014).
- If either extractor is broken, notify field maintenance.

6. FAILURE TO EJECT.

Step 1. Inspect for dirt and/or corrosion build up in upper receiver (3).

Clean as required (WP 0014).

Table 1. Troubleshooting Procedures - Continued.

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

Step 2. Inspect for worn or broken ejector (4).

If ejector is worn or broken, notify field maintenance.

END OF TASK

END OF WORK PACKAGE

CHAPTER 4

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

OPERATOR**PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) INTRODUCTION
GENERAL, EXPLANATION OF COLUMN ENTRIES**

GENERAL

Preventive Maintenance Checks and Services (PMCS) (WP 0012) must be performed by the operator to be sure the 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 that the MASS be inspected at regular intervals so that any defects can be discovered and corrected before serious damage or failure occurs. An inactive weapon is a weapon, whether assigned or not assigned to an individual, which is stored in an arms room for a period of 90 days. Normal cleaning (PMCS) of an inactive weapon will be performed every 90 days. Any maintenance problems that are beyond your authorization will be referred to field maintenance for correction.

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

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 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

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

INITIAL SETUP:**Materials/Parts**

Cleaner, lubricant, and preservative (CLP) (WP 0020, item 2)
Cleaning solvent (WP 0020, item 3)
Rifle bore cleaning compound (RBC) (WP 0020, item 8)
Semi-fluid weapons lubricating oil (LSA) (WP 0020, item 6)
Weapons lubricating oil (LAW) (WP 0020, item 5)
Wiping rags (WP 0020, item 7)

References

WP 0005
WP 0006
WP 0013
WP 0014
WP 0015

PREVENTIVE MAINTENANCE**WARNING**

To avoid injury or death, ensure that both MASS and host weapon are cleared of ammunition.

NOTE

Used, waste, and/or spilled lubricants and cleaning solvents/compounds as well as items contaminated by these substances (such as cleaning rags) must be disposed of properly. See Hazardous Waste Disposal Information on page 1-4 for more information.

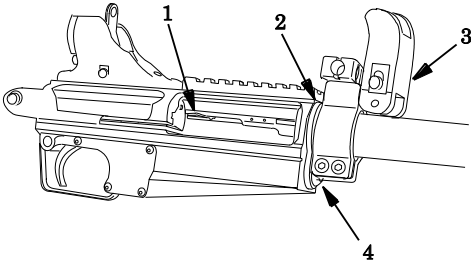
Change 1

PREVENTIVE MAINTENANCE - Continued**Table 1. Operator Preventive Maintenance Checks and Services for M26 Modular Accessory Shotgun System (MASS).**

Item No.	Interval	Man-Hour	Item To Be Checked Or Serviced	Procedure	Equipment Not Ready / Available If:
1	Before		MASS	a. Clear weapon (WP 0005) and perform function check (WP 0015). Perform a visual inspection for missing or damaged components. b. Check MASS for cracks, burrs, excessive wear, dents, rust, dirt, and corrosion.	a. Weapon fails function check. Components are missing or damaged. b. Weapon displays cracks, excessive wear, or corrosion.
2	Before		Magazines	a. Check that magazine follower has spring tension and moves easily inside magazine. b. Check that each magazine slips easily into magazine well and locks in place. c. Clean magazine as needed in accordance with WP 0014.	a. Magazine follower is stuck or has weak spring tension. b. Magazine is distorted or is hard to seat, or does not lock in magazine well.
3	Before		Magazine Release	Insert magazine into magazine well. Ensure magazine release holds magazine in place. Remove magazine.	Magazine release will not retain or release magazine.

Change 1

**Table 1. Operator 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	Before		Barrel Assembly	a. Check barrel assembly for dents, damage, and looseness. b. Ensure that choke tube or standoff device is secure in barrel. c. Ensure that two pins are present on standoff device. Check for damaged pins. Ensure that standoff device locks in both forward and rear positions. Ensure that device is spring-loaded. d. Ensure that bore is dry and free of obstructions.	a. Barrel is dented, damaged, or loose. b. Choke tube or standoff device is missing or is loose. NOTE If standoff device exhibits damage or will not lock in position, notify field maintenance as soon as possible. d. Bore cannot be cleared of obstructions.
					e. Check for missing or damaged ejector (1). e. Ejector is missing or damaged.

Change 1

PREVENTIVE MAINTENANCE - Continued**Table 1. Operator 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 (Cont)	Before (Cont)		Barrel Assembly (Cont)	f. Check for loose, missing, or cracked barrel retaining ring (2) or retaining ring screw (4). g. Check front sight (3) for broken or missing parts and for function.	f. Components are missing, loose, or broken. g. Parts are broken or missing or front sight will not function.
5	Before		Lower Receiver Assembly	a. Check for proper operation and function of sear. Charge MASS. Squeeze trigger; hammer should release. b. Check safety mechanism in both safe (no red visible) and fire (red visible) positions by squeezing trigger. Ensure that safety mechanism functions properly. c. Ensure that red marking on safety mechanism is visible.	a. Hammer does not release; sear does not function properly. b. Safety mechanism does not function properly. c. Red marking is not visible.

Change 1

**Table 1. Operator 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:
5 (Cont)	Before (Cont)		Lower Receiver Assembly (Cont)	d. Check action lock for function. Close bolt on an empty chamber and observe that action remains closed when the MASS muzzle is pointed upwards.	d. Action lock does not secure bolt in forward position.
6	Before		Upper Receiver Assembly	a. Check charging handle to ensure that it is securely seated and folds down properly. b. Check that receiver plug is present. Inspect for hardness, cracking, tears, dry rot, or breakage. (WP 0013). c. Field strip weapon (WP 0013). Check bolt for cracks, burrs, wear, rust, dirt, and corrosion. Clean as needed (WP 0014). d. Check bolt carrier spring on bolt carrier for bends or breaks. Clean bolt carrier as needed (WP 0014). Reassemble weapon (WP 0013).	a. Charging handle will not operate properly. b. Receiver plug is missing or unserviceable. c. Bolt displays defects that are not removed by cleaning. d. Bolt carrier spring on bolt carrier is bent or broken. Bolt carrier displays defects that are not removed by cleaning.

Change 1

PREVENTIVE MAINTENANCE - Continued**Table 1. Operator 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:
6 (Cont)	Before		Upper Receiver Assembly (Cont)	e. Check rear sight for broken or missing parts and for function.	e. Parts are broken or missing or rear sight will not function.
7	Before		Stand Alone Module	a. Check sling for tears or worn webbing. b. Check sling for broken or missing sling bracket. c. Inspect butt stock for cracks or breaks. d. Inspect butt stock for secure locking in all positions. e. Check butt stock for leakage or no compression.	c. Butt stock displays cracks or breaks. d. Butt stock will not lock in all positions. e. Butt stock displays leakage or has no compression.
8	Before		MASS Mounted on Host Weapon	Install MASS to host weapon (WP 0006). Check for secure attachment of MASS to host weapon. Ensure upper bracket takedown pin is secure.	MASS will not securely mount to host weapon.

Change 1

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

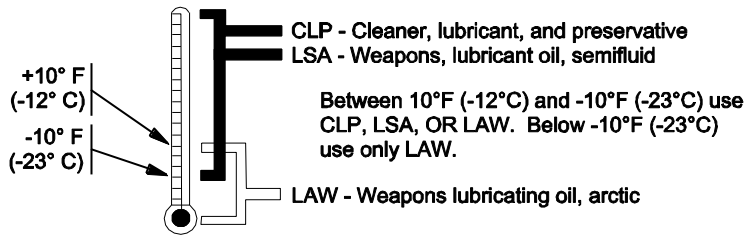
Item No.	Interval	Man-Hour	Item To Be Checked Or Serviced	Procedure	Equipment Not Ready / Available If:
9	Before		Upper Bracket Assembly	a. Check upper bracket assembly for burrs or dents. b. Ensure four mounting screws are present. c. Check sling bracket for cracks, dents, nicks, or burrs.	b. Any mounting screw is missing or loose.
10	Before		MASS Mounted on Host Weapon	Perform function check (WP 0015).	Weapon fails function check.
11	During		MASS	Observe that weapon functions properly; observe for component failures.	Weapon does not function properly.
12	After		MASS	a. Field strip weapon (WP 0013). Inspect for damaged or missing components. b. Clean and lubricate in accordance with WP 0014 and lubrication instructions in this work package. c. Perform function check (WP 0015).	a. Components are missing or damaged. c. Weapon fails function check.
13	Periodic		MASS	Fully clean and lubricate MASS at 160 round intervals.	

END OF TASK

Change 1

LUBRICATION INSTRUCTIONS

Lubricants



NOTE

Cleaner, lubricant, and preservative (CLP), semi-fluid weapons lubricating oil (LSA), and weapons lubricating oil (LAW) may be utilized as applicable.

Cleaner, lubricant, and preservative (CLP) (WP 0020, item 2) is the authorized lubricant. The temperature range for CLP is -65 °F (-54 °C) to 150 °F (66 °C).

Under all but the coldest arctic conditions, CLP (WP 0020, item 2) or semi-fluid weapons lubricating oil (LSA) (WP 0020, item 6) is the lubricant to use on the weapon. Either may be used at -10 °F (-23 °C) and above. However, do not use both on the same weapon at the same time.

Weapons lubricating oil (LAW) (WP 0020, item 5) is the lubricant to use during cold arctic conditions, -10 °F (-23 °C) and below.

Any of the lubricants may be used from -10 °F (-23 °C) to +10 °F (-12 °C).

Intervals

When operating the weapon, clean and lubricate MASS daily after operation.

Perform required lubrication during maintenance procedures.

Periodic lubrication can be performed without disassembling. Keep the weapon clean and lubricated even when it is not used for awhile.

Fully clean and lubricate the MASS at 160 round intervals.

When in inactive storage, clean and lubricate MASS quarterly or when corrosion appears.

Change 1

Procedures

WARNING



Before performing maintenance or cleaning, be sure to clear the weapon. Do not pull the trigger until the weapon has been cleared. Inspect the chamber to insure that it is empty, and check to see that no ammunition is in position to be introduced.

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.

1. Do not mix lubricants on the same weapon. The weapon must be thoroughly cleaned during change from one lubricant to another. Cleaning solvent (WP 0020, item 3) is recommended for cleaning during change from one lubricant to another. Cleaning solvent may also be used for normal cleaning; however, it must not be used on rubber or plastic.

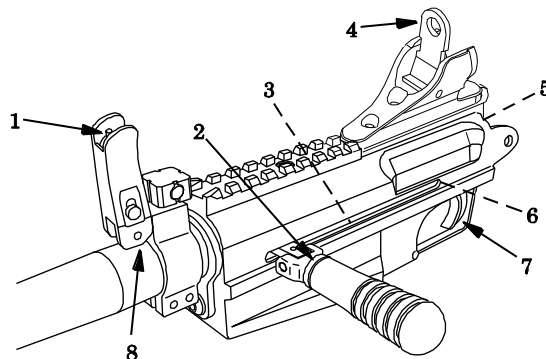


Figure 1. Lubricating the MASS.

2. Use rifle bore cleaning compound (RBC) (WP 0020, item 8) to remove carbon buildup in the bore and other portions of the weapon.

Change 1

LUBRICATION INSTRUCTIONS - Continued**Procedures - Continued**

3. Move charging handle (2) forward and lubricate the outside of bolt (3) with CLP (WP 0020, item 2).
4. Remove receiver plug (5). Lubricate hammer (6) with several drops of CLP. Hammer is in receiver behind bolt (3) when action is closed.
5. Reinstall receiver plug (5) into rear of receiver.
6. Apply a few drops of CLP through firing pin hole. Keep weapon pointed up for 10 to 15 seconds. Cycle weapon and squeeze trigger (7) to spread lubricant.
7. Apply a few drops of CLP to front sight (8), front sight post (1), and rear sight (4). Raise and lower sights to spread lubrication.

END OF TASK**END OF WORK PACKAGE****Change 1**

OPERATOR

FIELD STRIPPING

INITIAL SETUP:

Tools and Special Tools

Cleaning kit (WP 0019, item 1)

References

WP 0006

WP 0014

DISASSEMBLY

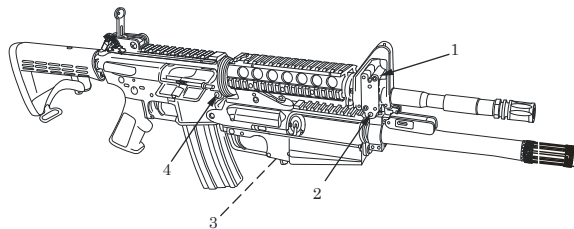


Figure 1. Dismounting MASS from Host Weapon.

WARNING



To avoid injury or death, ensure that both MASS and host weapon are cleared of ammunition before dismounting MASS from host weapon.

NOTE

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

1. Push takedown pin (2) from upper bracket assembly (1).
2. Support MASS with one hand and slide MASS forward along barrel of host weapon until it comes free of barrel.

Change 1

DISASSEMBLY - Continued

3. Press action lock release (3). Pull bolt all the way rearward and then forward to charge the weapon. Move safety mechanism (4) to safe position (no red visible).

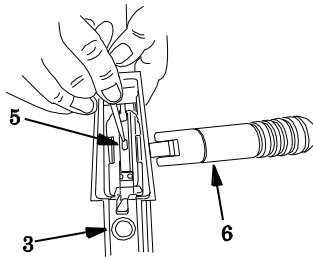


Figure 2. Removing Charging Handle.

4. Press action lock release (3). Pull bolt rearward halfway. Retract charging handle retaining plunger (5) with thin end of T-handle in cleaning kit (WP 0019, item 1) or a pointed object and remove charging handle (6).

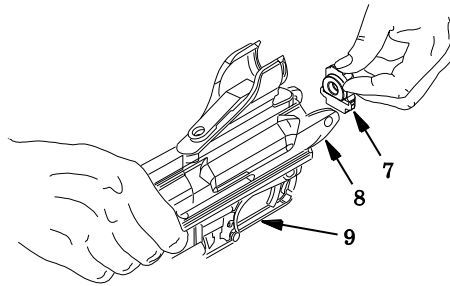


Figure 3. Removing Receiver Plug.

5. Rotate trigger guard (9) downward. Remove receiver plug (7) from MASS receiver (8) by hand.

Change 1

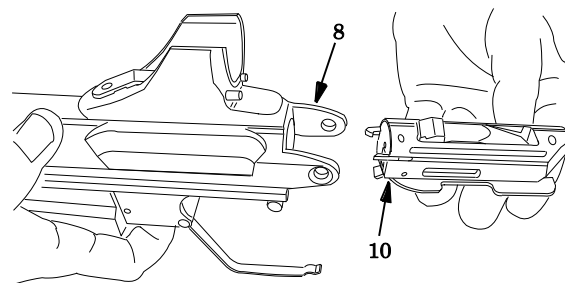
DISASSEMBLY - Continued

Figure 4. Removing Bolt/Bolt Carrier Assembly.

6. Remove bolt/bolt carrier assembly (10) from rear of MASS receiver (8).

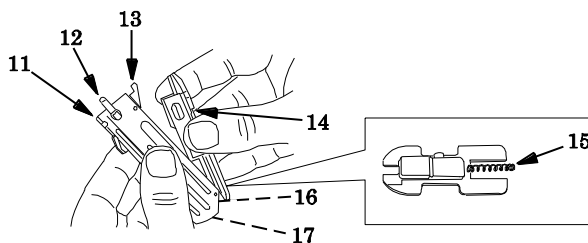


Figure 5. Inspection of Bolt and Bolt Carrier.

CAUTION

Do not bend, twist, or crimp bolt carrier spring (15) located at rear of bolt carrier when disassembling bolt from bolt carrier. If spring is crimped, twisted, or bent, report this condition to armorer (field maintenance) and do not use the weapon.

Do not pull trigger or allow hammer to fall if bolt and bolt carrier are not in MASS, as doing so may render MASS inoperable.

7. Separate bolt (11) from bolt carrier (14) by lifting bolt off carrier.

WARNING

To avoid injury during operation and maintenance of the M26 MASS use care around the extractor due to its sharpness.

8. Visually inspect bolt (11) for broken or missing cartridge guide (13) and extractor(s) (12).
9. Visually inspect for presence of firing pin (16) and firing pin spring (17).

Change 1

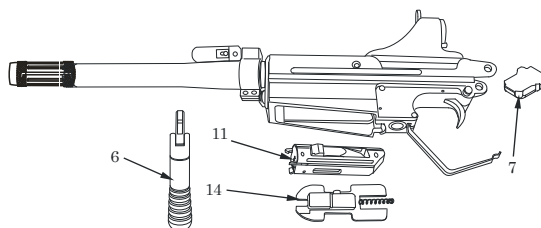
DISASSEMBLY – Continued

Figure 6. Field Stripping Completed.

10. Operator field stripping is complete when charging handle (6), receiver plug (7), bolt (11), and bolt carrier (14) are removed from weapon.

END OF TASK**ASSEMBLY****CAUTION**

Use great care when repositioning bolt carrier spring, located at rear of bolt carrier, into hole in rear of bolt. Do not bend, twist, or crimp spring when installing it, as this may render MASS inoperable.

NOTE

If cleaning is required, see WP 0014.

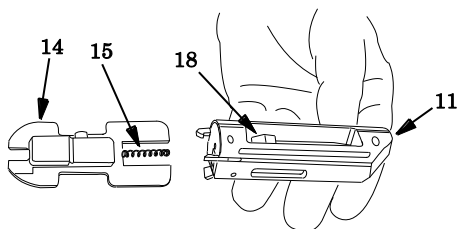


Figure 7. Assembling Bolt and Bolt Carrier.

1. Carefully assemble bolt (11) onto bolt carrier (14), ensuring that bolt carrier spring (15) is inserted into hole in rear of bolt.
2. Slide bolt (11) forward on bolt carrier (14), allowing locking bar (18) to drop down.

Change 1

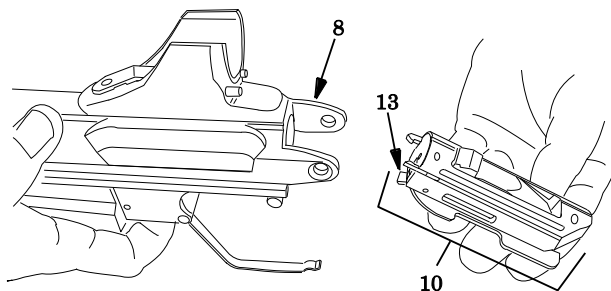
ASSEMBLY – Continued

Figure 8. Installing Bolt/Bolt Carrier Assembly.

3. With bolt/bolt carrier assembly (10) inclined slightly downward at the rear, insert bolt/bolt carrier assembly into rear of MASS receiver (8) while compressing cartridge guide (13). Ensure that cartridge guide enters receiver opening first.

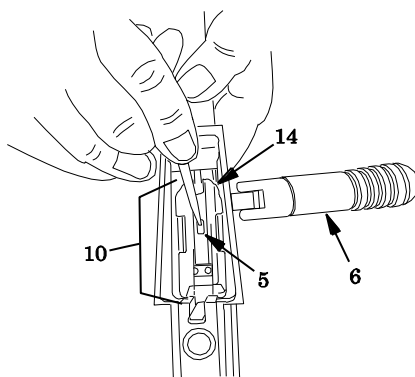


Figure 9. Installing Charging Handle.

4. Slide bolt/carrier assembly (10) forward until charging handle retaining plunger access opening in bottom of bolt carrier (14) is forward and locked.

NOTE

Charging handle can be installed on right side of weapon to accommodate left-handed firers. Ensure that charging handle folds toward magazine well.

5. Retract charging handle retaining plunger (5) with thin end of T-handle in cleaning kit (WP 0019, item 1) or a pointed object and, at the same time, install charging handle (6), with cutouts facing toward magazine well, into bolt/bolt carrier assembly (10).

Change 1

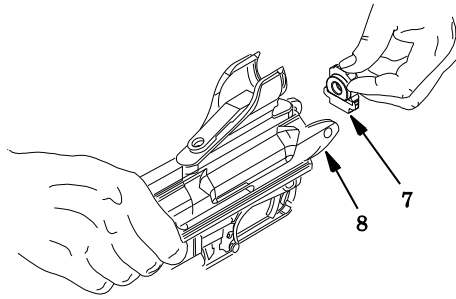
ASSEMBLY - Continued

Figure 10. Installing Receiver Plug.

6. Install receiver plug (7) into rear of MASS receiver (8).
7. If required, install MASS onto host weapon (WP 0006).

END OF TASK

END OF WORK PACKAGE

Change 1

OPERATOR**CLEANING INSTRUCTIONS**

INITIAL SETUP:**Tools and Special Tools**

Cleaning kit (WP 0019, item 1)

Small arms cleaning brush (WP 0020, item 1)

Materials/Parts

Cleaner, lubricant, and preservative (CLP) (WP 0020, item 2)

Semi-fluid weapons lubricating oil (LSA) (WP 0020, item 6)

Small arms cleaning swabs (WP 0020, item 9)

Wiping rags (WP 0020, item 7)

CLEANING OF WEAPON**WARNING**

To avoid injury or death, ensure that MASS is cleared of ammunition before cleaning weapon.

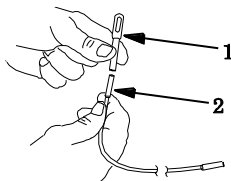


Figure 1. Attach Shotgun Tip to Cable.

NOTE

The male end is inside shotgun tip.

1. Screw slotted shotgun tip (1) onto cleaning cable (2).

Change 1

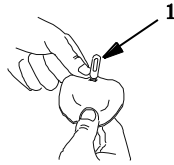
CLEANING OF WEAPON - Continued

Figure 2. Place Tip into Patch.

2. Place shotgun tip (1) into one of the slots on the patch.

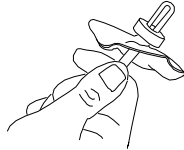


Figure 3. Slide Patch Saver over Patch.

3. Slide a patch saver onto tip, over the patch.

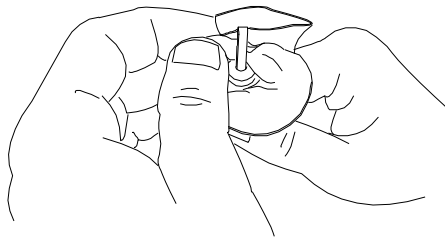


Figure 4. Place Patch through Slot in Tip.

4. Pinch patch and place it through slot in the tip.

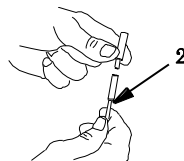


Figure 5. Attach Obstruction Remover to Cable.

5. Attach obstruction remover to opposite end of cleaning cable (2).

Change 1

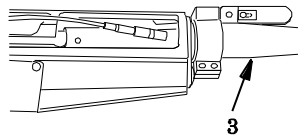
CLEANING OF WEAPON - Continued

Figure 6. Push Cable through Barrel.

6. Open the action and push the cleaning cable, obstruction remover first, down the barrel (3) from breech to muzzle.

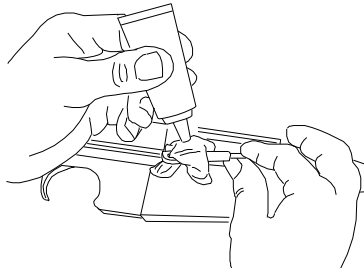


Figure 7. Apply Cleaner or Lubricant to First Patch.

CAUTION

Run first patch through bore only one time. Any abrasive material collected by the patch could damage the bore if the patch were used again.

7. Apply cleaner, lubricant, and preservative (CLP) (WP 0020, item 2) or semi-fluid weapons lubricating oil (LSA) (WP 0020, item 6) to first patch through barrel. This lubricates bore and prevents residue or dirt from scratching bore.

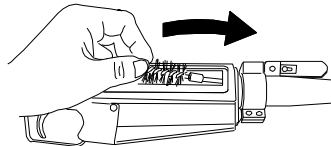


Figure 8. Push Brush through Barrel.

8. Screw on brush and run it through in the same manner. Twist brush in counterclockwise direction, from gunner's viewpoint, to clean chamber.
9. Disassemble patch, insert shotgun tip into an unused inner slot on the patch, and create another swab. Use new swab (WP 0020, item 9) to run from breech to muzzle.
10. Repeat previous step until bore is clean and carbon is removed.

Change 1

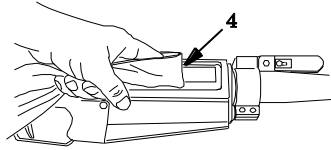
CLEANING OF WEAPON - Continued

Figure 9. Wipe Interior of Receiver.

11. Wipe interior of receiver (4) with wiping rag (WP 0020, item 7) moistened with CLP (WP 0020, item 2) or LSA (WP 0020, item 6) until clean.

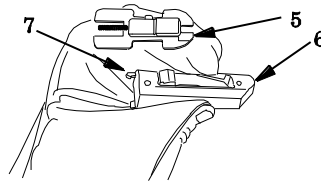


Figure 10. Wipe Bolt and Carrier.

12. Wipe bolt (6) and bolt carrier (5) with wiping rag (WP 0020, item 7) moistened with CLP (WP 0020, item 2) or LSA (WP 0020, item 6) until clean. Use cleaning brush (WP 0019, item 1) to clean extractors (7) on bolt.

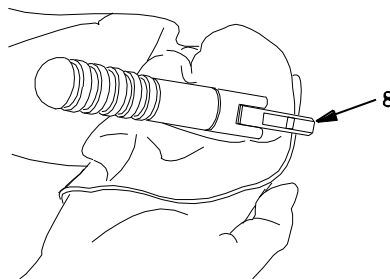


Figure 11. Wipe Charging Handle.

13. Wipe charging handle (8) with wiping rag (WP 0020, item 7) moistened with CLP (WP 0020, item 2) or LSA (WP 0020, item 6) and ensure it is clean.

Change 1

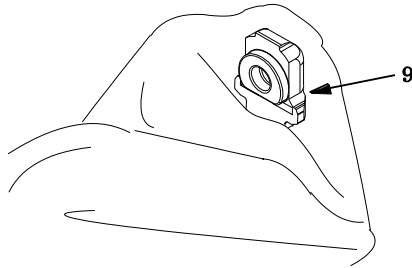
CLEANING OF WEAPON - Continued

Figure 12. Wipe Receiver Plug.

14. Wipe receiver plug (9) with dry wiping rag (WP 0020, item 7), ensuring it is clean.

Change 1

END OF TASK

CLEANING OF MAGAZINE (5-ROUND OR 3-ROUND) Disassembly

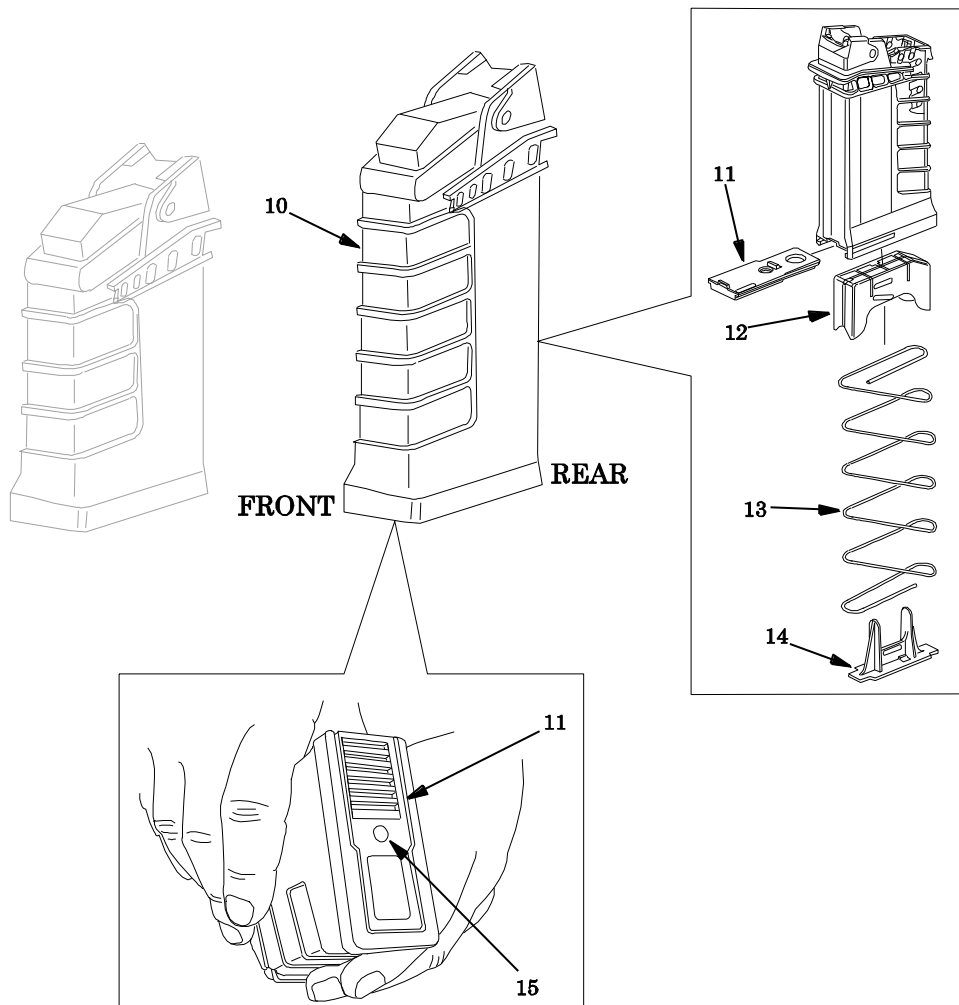


Figure 13. Disassembly/Assembly of Magazine.

Change 1

CLEANING OF MAGAZINE (5-ROUND OR 3-ROUND) - Continued**WARNING**

During disassembly, turn magazine away from face. Follower spring is under compression. Protective eyewear is recommended.

1. Depress button (15) of bottom cover (11) with pointed object and slide bottom cover until click is heard.
2. Maintain pressure on floor plate (14) while removing bottom cover (11).
3. Remove floor plate (14), follower spring (13), and follower (12).
4. Inspect magazine body (10) and associated parts for damage. If damaged, replace magazine.

Assembly

1. Wipe dirt from magazine body (10), follower spring (13), and follower (12). Lightly lubricate follower spring with CLP (WP 0020, item 2).

NOTE

Ensure that straight edge of follower is installed toward rear of magazine. Also ensure that floor plate is installed correctly.

2. Install follower (12) and follower spring (13) into magazine body (10).
3. Insert floor plate (14) in bottom of follower spring (13) and compress spring enough to allow installation of bottom cover (11). Slide bottom cover all the way to lock in place.

END OF TASK**END OF WORK PACKAGE****Change 1**

OPERATOR**FUNCTION CHECK**

FUNCTION CHECK**WARNING**

To avoid injury or death, ensure that MASS is cleared of ammunition before checking weapon for proper function.

1. Be sure weapon is unloaded and pointed in a safe direction.
2. Depress action lock release and pull charging handle rearward.
3. Place safety mechanism in safe position (no red visible).
4. Return bolt to forward and locked position. Attempt to pull charging handle rearward to ensure action lock has engaged.
5. Leave safety mechanism in safe position (no red visible). Attempt to pull trigger. The hammer should not fall.
6. Remove finger from trigger. Move safety mechanism to fire position (red visible).
7. Pull trigger. The hammer should fall.
8. Charge weapon and place safety mechanism in safe position (no red visible).

END OF TASK**END OF WORK PACKAGE**

CHAPTER 5

AMMUNITION MAINTENANCE INSTRUCTIONS
FOR
M26 MODULAR ACCESSORY
SHOTGUN SYSTEM (MASS)

OPERATOR

AMMUNITION MARKING INFORMATION

AUTHORIZED AMMUNITION

The M26 Modular Accessory Shotgun System (MASS) is capable of firing the following lethal 2-3/4 in. and 3 in. rounds: # 00 Buckshot, M162; # 4, # 6, # 7-1/2, and # 9 birdshot; and Foster style slug.

The MASS is capable of firing the following non-lethal rounds: M1012 Point Control, M1013 Crowd Dispersal, and MK242 MOD 0 Dummy Cartridge.

The MASS is also capable of firing the lethal M1030 Breaching Cartridge.

Some ammunition is described; see TM 43-0001-27 for additional information.

CARTRIDGE, 12 GAUGE, SHOTGUN, NO. 00, M162

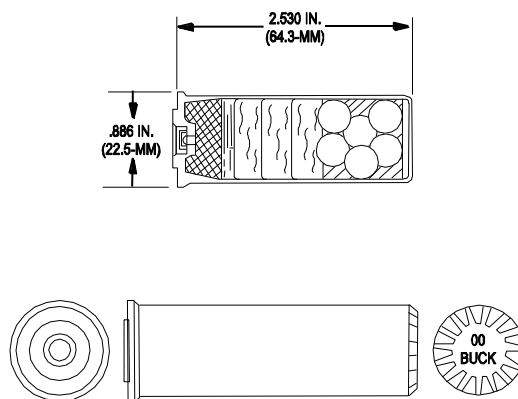


Figure 1. M162 No. 00 Buckshot.

Use: Guard and combat use.

Description: Plastic case loaded with smokeless powder and No. 00 commercial shot.

Data:

DODAC.....	1305-A011
Weight	0.026 oz (0.736 g)
Length	2.53 in. (6.43 cm)

Performance:

Chamber pressure.....	11,000 psi
Velocity.....	1325 fps, 3 ft from muzzle (404 m/s, 1 m from muzzle)

Change 1

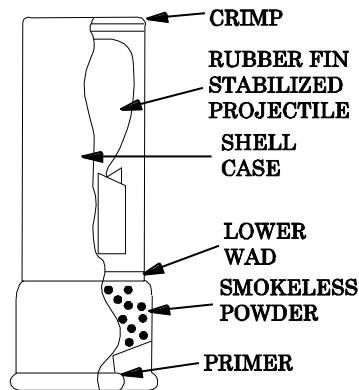
AUTHORIZED AMMUNITION - Continued**CARTRIDGE, 12 GAUGE SHOTGUN, NON-LETHAL: POINT CONTROL, M1012**

Figure 2. M1012 Non-Lethal Point Control Round.

Use: Protection of key facilities or crowd control using non-lethal force.

Description: Clear cylindrical case loaded with rubber fin stabilized projectile.

Data:

DODAC..... 1305-AA51
 Weight 0.55 oz (15.5 g)
 Length 2.5 in. (6.35 cm)

Performance:

Velocity..... 500 fps (152 m/s)
 Maximum range..... 955 ft (291 m)
 Maximum effective range..... 66 ft (20 m)
 Minimum safety range 33 ft (10 m)

Change 1

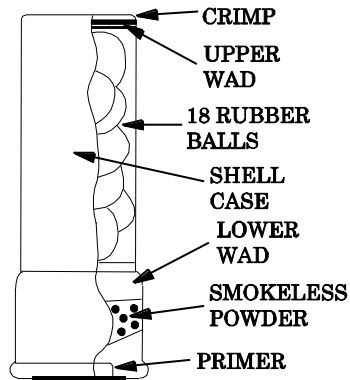
CARTRIDGE, 12 GAUGE SHOTGUN, NON-LETHAL: CROWD DISPERSAL, M1013

Figure 3. M1013 Non-Lethal Crowd Dispersal Round.

Use: Protection of key facilities or crowd control using non-lethal force.

Description: Clear cylindrical case loaded with 18 rubber balls between an upper and lower wad.

Data:

DODAC..... 1305-AA52
 Weight 0.56 oz (16 g)
 Length 2.5 in. (6.35 cm)

Performance:

Velocity..... 900 fps (274 m/s)
 Maximum range..... 295 ft (90 m)
 Maximum effective range 66 ft (20 m)
 Minimum safety range 33 ft (10 m)

Change 1

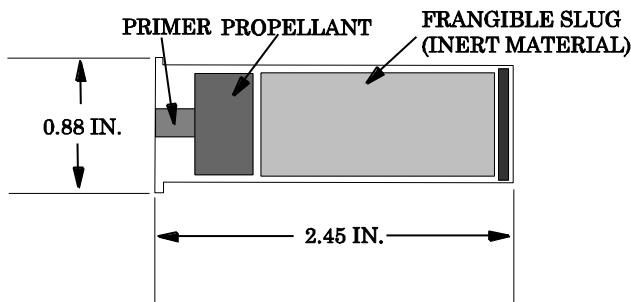
AUTHORIZED AMMUNITION - Continued**CARTRIDGE, 12 GAUGE SHOTGUN: BREACHING, M1030**

Figure 4. M1030 Breaching Round.

Use: To gain access through light doors and entryways.

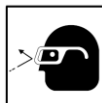
Description: Brass case containing frangible slug consisting of powdered steel with wax binder.

Data:

DODAC.....1305-AA54
 Weight 1.28 oz (36.29 g)
 Length2.45 in. (6.22 cm)

Performance:

Muzzle velocity..... 1148 fps (350 m/s)
 Maximum effective range 16.4 ft (5 m)

WARNING

- Ballistic eye protection must be worn when firing M1030 breaching cartridges.
- When using M1030 breaching round the use of hearing protection and goggles is required. Use double hearing protection within 2 meters from target. Use single hearing protection from 2 to 8.5 meters from weapon being fired.

NOTE

The standoff device must be installed on the MASS when firing the M1030 breaching cartridge.

Change 1

CARE AND HANDLING

Protect ammunition from mud, sand, dirt, and water. If the ammunition gets wet or dirty, wipe it off at once with a clean, dry wiping rag (WP 0020, item 7). Wipe off light corrosion as soon as it is discovered. Turn in heavily corroded cartridges.

Do not fire dented cartridges or otherwise defective rounds.

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

PRESERVATION

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

PACKING

Do not lubricate ammunition. Dust and other abrasives that collect on lubricated ammunition may cause damage to the operating parts of the MASS. Lubricated cartridges produce excessive chamber pressure. Pack unused cartridges in original containers and use first in subsequent firings.

END OF WORK PACKAGE**Change 1**

CHAPTER 6

SUPPORTING INFORMATION
FOR
M26 MODULAR ACCESSORY
SHOTGUN SYSTEM (MASS)

OPERATOR**REFERENCES**

SCOPE

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

FIELD MANUALS

FM 3-11.3	Multiservice Tactics, Techniques, and Procedures for Chemical, Biological, Radiological, and Nuclear Contamination Avoidance
FM 3-11.5	Multiservice Tactics, Techniques, and Procedures for Chemical, Biological, Radiological, and Nuclear Decontamination
FM 3-22.9	Rifle Marksmanship: M16A4/M4
FM 4-25.11	First Aid

FORMS

DA Form 285	Accident Report
DA Form 2028	Recommended Changes to Publications and Blank Forms
DA Form 2404	Equipment Inspection and Maintenance Worksheet
DA Form 2408-4	Weapon Record Data
DA Form 5988-E	Equipment Inspection and Maintenance Worksheet - Electronic
SF 361	Transportation Discrepancy Report
SF 364	Report of Discrepancy
SF 368	Product Quality Deficiency Report

MISCELLANEOUS PUBLICATIONS

AR 75-1	Malfunctions Involving Ammunition and Explosives
AR 385-64	U.S. Army Explosives Safety Program
AR 750-1	Army Materiel Maintenance Policy
CTA 8-100	Army Medical Department Expendable/Durable Items
CTA 50-909	Field and Garrison Furnishings and Equipment
CTA 50-970	Expendable/Durable Items (Except Medical, Class V, Repair Parts, and Heraldic Items)
DA PAM 385-40	Accident Reporting and Records
DA PAM 750-8	The Army Maintenance Management System (TAMMS) Users Manual

TECHNICAL BULLETINS

TB 9-1000-262-DT Operation Desert Thunder Materiel Readiness: Ammunition and Armament

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 43-0001-27 Army Ammunition Data Sheets for Small Caliber Ammunition (FSC 1305)

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

END OF WORK PACKAGE

OPERATOR**COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII)**

INTRODUCTION**Scope**

This work package lists COEI and BII for the M26 Modular Accessory Shotgun System (MASS) to help you inventory items for safe and efficient operation of the equipment.

General

The COEI and BII information is divided into the following lists:

Components of End Item (COEI). This list is for information purposes only and is not authority to requisition replacements. These items are part of the MASS. As part of the end item, these items must be with the end item whenever it is issued or transferred between property accounts. Items of COEI are removed and separately packaged for transportation or shipment only when necessary. Illustrations are furnished to help you find and identify the items.

Basic Issue Items (BII). These essential items are required to place the MASS in operation, operate it, and to do emergency repairs. Although shipped separately packaged, BII must be with the MASS during operation and when it is transferred between property accounts. Listing these items is your authority to request/requisition them for replacement based on authorization of the end item by the TOE/MTOE. Illustrations are furnished to help you find and identify the items.

Explanation of Columns in the COEI List and BII List

Column (1) Illus Number. Gives you the number of the item illustrated.

Column (2) National Stock Number (NSN). Identifies the stock number of the item to be used for requisitioning purposes.

Column (3) Description, Part Number/(CAGEC). Identifies the Federal item name (in all capital letters) followed by a minimum description when needed. The stowage location of COEI and BII is also included in this column. The last line below the description is the part number and the Commercial and Government Entity Code (CAGEC) (in parentheses).

Column (4) Usable On Code. When applicable, gives you a code if the item you need is not the same for different models of equipment.

Column (5) U/I. Unit of Issue (U/I) indicates the physical measurement or count of the item as issued per the National Stock Number shown in column (2).

Column (6) Qty Rqr. Indicates the quantity required.

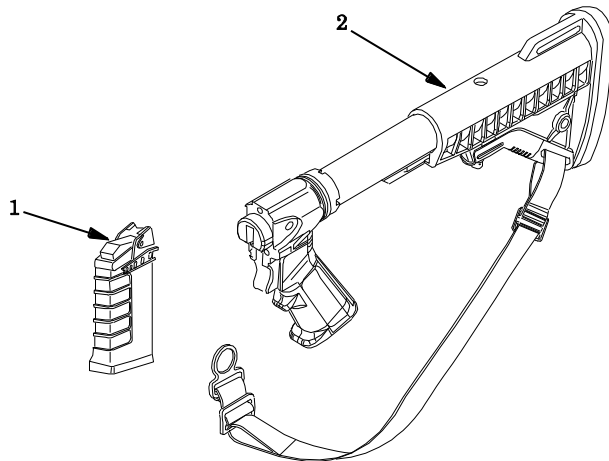
COMPONENTS OF END ITEM (COEI)

Figure 1. Components of End Item.

Table 1. Components of End Item List.

(1) Illus Number	(2) National Stock Number (NSN)	(3) Description, Part Number/(CAGEC)	(4) Usable On Code	(5) U/I	(6) Qty Rqr
1	1005-01-571-9460	MAGAZINE ASSEMBLY (5 - ROUND) 13012231 (3DAE5)	BS1	EA	1
2	1005-01-572-6202	STAND ALONE MODULE 13012243 (3DAE5)	BS1	EA	1

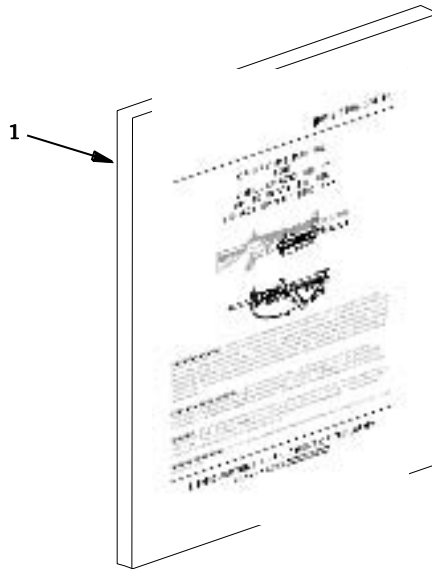
BASIC ISSUE ITEMS (BII)

Figure 2. Basic Issue Items.

Table 2. Basic Issue Items List.

(1) Illus Number	(2) National Stock Number (NSN)	(3) Description, Part Number/(CAGEC)	(4) Usable On Code	(5) U/I	(6) Qty Rqr
1		TM 9-1005-341-10		EA	1

END OF WORK PACKAGE

OPERATOR**ADDITIONAL AUTHORIZATION LIST (AAL)**

INTRODUCTION**Scope**

This work package lists additional items you are authorized for the support of the M26 Modular Accessory Shotgun System (MASS).

General

This list identifies items that do not have to accompany the weapon and that do not have to be turned in with it. These items are all authorized to you by CTA, MTOE, TDA, or JTA.

Explanation of Columns in the AAL

Column (1) National Stock Number (NSN). Identifies the stock number of the item to be used for requisitioning purposes.

Column (2) Description, Part Number/(CAGEC). Identifies the Federal item name (in all capital letters) followed by a minimum description when needed. The last line below the description is the part number and the Commercial and Government Entity Code (CAGEC) (in parentheses).

Column (3) Usable On Code. When applicable, gives you a code if the item you need is not the same for different models of equipment.

Column (4) (U/I). Unit of Issue (U/I) indicates the physical measurement or count of the item as issued per the National Stock Number shown in column (1).

Column (5) Qty Recm. Indicates the quantity recommended.

ADDITIONAL AUTHORIZATION LIST ITEMS**Table 1. Additional Authorization List.**

(1) National Stock Number (NSN)	(2) Description, Part Number/(CAGEC)	(3) Usable On Code	(4) U/I	(5) Qty Recm
1005-01-572-9454	CLEANING KIT, GUN 13012237 (3DAE5)	BS1	KT	1
1005-01-572-6203	MAGAZINE ASSEMBLY (3 - ROUND) 13012230 (3DAE5)	BS1	EA	5
1005-01-571-9460	MAGAZINE ASSEMBLY (5 - ROUND) 13012231 (3DAE5)	BS1	EA	4
TBD	MAGAZINE POUCH, 5 - ROUND 13012250 (19200)	BS1	EA	5
TBD	SOFT CASE 13012242 (19200)	BS1	EA	1

END OF WORK PACKAGE

OPERATOR
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 cleaning solvent (WP 0020, item 3)).

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

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, 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	C	1005-00-494-6602	BRUSH, CLEANING, SMALL ARMS 8448462 (19204)	EA
2	C	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
3	C	6850-01-474-2319	CLEANING SOLVENT 1 gal. can MIL-PRF-680, Type 2 (81349)	GL
4	C	9150-01-260-2534	LUBRICANT, SOLID FILM 16 oz aerosol can MIL-L-23398 (81349)	OZ
5	C	9150-00-292-9689	LUBRICATING OIL, WEAPONS (LAW) 1 qt can MIL-PRF-14107 (81349)	QT
6	C	9150-00-753-4686	LUBRICATING OIL, WEAPONS (LSA) 1 gal. can MIL-L-46000 (81349)	GL
7	C	7920-00-205-1711	RAG, WIPING 50 lb bale A-A-531 (80244)	LB
8	C	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

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
9	C	1005-00-228-3565	SWAB, SMALL ARMS CLEANING 1000 pkg 5019316 (19204)	EA

END OF WORK PACKAGE

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RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS For use of this form, see AR 25-30; the proponent agency is OAASA						Use Part II (reverse) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM).		DATE <i>Date you filled out this form.</i>	
TO: (Forward to proponent of publication or form) (Include ZIP Code) U.S. Army TACOM Life Cycle Management Command ATTN: AMSTA-LCL-MPP/TECH PUBS 6501 E. 11 Mile Road, Warren, MI 48397-5000						FROM: (Activity and location) (Include ZIP Code) <i>Your mailing address</i>			
PART I - ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS									
PUBLICATION/FORM NUMBER <i>TM Number</i>						DATE <i>Date of the TM</i>		TITLE <i>Title of the TM</i>	
ITEM	PAGE	PARA- GRAPH	LINE	FIGURE NO.	TABLE	RECOMMENDED CHANGES AND REASON			
SAMPLE									
* Reference to line numbers within the paragraph or subparagraph.									
TYPED NAME, GRADE OR TITLE <i>Your Name</i>					TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION <i>Your Phone Number</i>			SIGNATURE <i>Your Signature</i>	

TO: <i>(Forward direct to addressee listed in publication)</i> U.S. Army TACOM Life Cycle Management Command ATTN: AMSTA-LCL-MPP/TECH PUBS 6501 E. 11 Mile Road, Warren, MI 48397-5000				FROM: <i>(Activity and location) (Include ZIP Code)</i>			DATE	
PART II - REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS								
PUBLICATION NUMBER				DATE		TITLE		
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 <i>(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.)</i>								
SAMPLE								
TYPED NAME, GRADE OR TITLE				TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION			SIGNATURE	

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PART I - ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS							
PUBLICATION/FORM NUMBER TM 9-1005-341-10						DATE 30 JUNE 2010	TITLE Operator's Manual for Modular Accessory Shotgun System, M26
ITEM	PAGE	PARA-GRAPH	LINE	FIGURE NO.	TABLE	RECOMMENDED CHANGES AND REASON	
* Reference to line numbers within the paragraph or subparagraph.							
TYPED NAME, GRADE OR TITLE					TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION		SIGNATURE

TO: <i>(Forward direct to addressee listed in publication)</i> U.S. Army TACOM Life Cycle Management Command ATTN: AMSTA-LCL-MPP/TECH PUBS 6501 E. 11 Mile Road, Warren, MI 48397-5000				FROM: <i>(Activity and location) (Include ZIP Code)</i>			DATE	
PART II - REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS								
PUBLICATION NUMBER TM 9-1005-341-10				DATE 30 JUNE 2010		TITLE Operator's Manual 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
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ITEM	PAGE	PARA- GRAPH	LINE	FIGURE NO.	TABLE	RECOMMENDED CHANGES AND REASON	
* Reference to line numbers within the paragraph or subparagraph.							
TYPED NAME, GRADE OR TITLE					TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION		SIGNATURE

TO: <i>(Forward direct to addressee listed in publication)</i> U.S. Army TACOM Life Cycle Management Command ATTN: AMSTA-LCL-MPP/TECH PUBS 6501 E. 11 Mile Road, Warren, MI 48397-5000				FROM: <i>(Activity and location) (Include ZIP Code)</i>			DATE	
PART II - REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS								
PUBLICATION NUMBER TM 9-1005-341-10				DATE 30 JUNE 2010		TITLE Operator's Manual 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 <i>(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.)</i>								
TYPED NAME, GRADE OR TITLE				TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION			SIGNATURE	

RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS For use of this form, see AR 25-30; the proponent agency is OAASA						Use Part II (reverse) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM).	DATE
TO: (Forward to proponent of publication or form) (Include ZIP Code) U.S. Army TACOM Life Cycle Management Command ATTN: AMSTA-LCL-MPP/TECH PUBS 6501 E. 11 Mile Road, Warren, MI 48397-5000						FROM: (Activity and location) (Include ZIP Code)	
PART I - ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS							
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By Order of the Secretary of the Army:

Official:

A handwritten signature in black ink, reading "Joyce E. Morrow". The signature is fluid and cursive, with the first name "Joyce" and last name "Morrow" clearly legible.

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

1014101

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

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