

**ARMY TM 9-1005-313-10  
AIR FORCE T.O. 11W2-6-5-1  
MARINE CORPS TM 08670A/09712A-10/1B  
NAVY SW360-AH-OPI-010**

**OPERATOR'S MANUAL FOR  
MACHINE GUN, 7.62MM, M240 (1005-01-025-8095);  
M240B (1005-01-412-3129); M240C (1005-01-085-4758)  
M240D (1005-01-418-6995); M240E1 (1005-01-252-4288)  
M240H (1005-01-518-2410); M240L (1005-01-549-5837)  
M240N (1005-01-493-1666)**

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**HEADQUARTERS, DEPARTMENTS OF THE ARMY,  
AIR FORCE, MARINE CORPS AND NAVY  
NOVEMBER 2002**



## **WARNING SUMMARY**

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**FIRST AID.** Army users refer to FM 4-25.11 for first aid information. Air Force personnel refer to AFMAN 44-163 (I) First Aid.

### **SAFETY WARNING-Weapon.**

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

Ensure that assigned/spare barrels have been headspaced and tagged to your receiver. Rotate usage of the barrels as specified in WP 0007 00.

Do not interchange barrel assembly or bolt assembly from one machine gun to another without being headspaced/gaged. Doing so may result in injury to, or death of, personnel.

Never reload a runaway weapon until it is repaired. Be sure weapon is cleared (refer to WP 0010 00) before removing it from vehicle/tripod mount.

Before firing, make sure the barrel is locked tightly in the receiver. If the barrel is not locked tight, threads in receiver could be damaged or cause personal injury.

Under no circumstances should the safety be engaged with the bolt in the forward position. Always ensure the safety is in the fire position before charging the weapon, otherwise, the weapon will become jammed when charged with the safety in the safe position.

## **WARNING SUMMARY (cont)**

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### **SAFETY WARNING-Weapon-cont.**

For manual infantry trigger weapons (B, G and N), proper trigger control is pulling the trigger fully to the rear and then releasing completely. For spade grip weapons (D, E-1 and H), proper trigger control is depressing the butterfly trigger fully down, then releasing completely. Squeezing/partial pulling of the Infantry trigger or partial depression of the butterfly trigger can cause accelerated wear on the trigger-tripping lever, sear and operating rod, leading to a runaway gun.

If nothing is ejected and you have a hot gun (200 rounds fired within a 2 minute period), do **NOT** open the cover. Place safety to "S" safe (refer to WP 0009), keep weapon pointed down range, and remain away from the weapon for 15 minutes. After 15 minutes, clear your weapon (refer to WP 0010 00).

The climate temperature in different regions will make a difference as to what constitutes a hot gun. A hot, sunny day can cause a cook-off within 50 rounds, weapon and ammunition in the sun.

Always keep weapon pointed down range.

Eye protection is required when assembling springs and operating rods.

Use care when removing excess carbon, carbon may chip off and fly into eyes.

Wear hearing protection within 17.5m of a firing M240B/M240L Machine Gun. Single hearing protection, plugs or muffs, will be worn by all personnel within 40 meters of the firing position(s). Failure to comply may result in loss of hearing.

To avoid injury to your eyes, use care when removing or installing spring-loaded parts. Appropriate eye protection is recommended when cleaning your weapon or its parts.

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

Discriminator must be in place in feed tray of machine gun when M21 Blank Firing Attachment is in use to prevent live ammunition from entering the barrel chamber.

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

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

## **WARNING SUMMARY (cont)**

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### **SAFETY WARNING-Weapon-cont.**

Under no circumstances should the safety be engaged with the bolt in the forward position. Always ensure the safety is in the fire position before charging the weapon, otherwise the weapon will become jammed when fully charged with the safety in the safe position

### **SAFETY WARNING-Ammunition.**

The only ammunition authorized for use in your machine gun is shown in WP 0036 00. If it is not shown, it is not authorized.

Ammunition that fails to fire will be disposed of by authorized procedures. Stay clear of muzzle. Do not allow round to hit any hard surface or it may fire. Dispose of live round(s) in accordance with local procedures.

**END OF WORK PACKAGE**

**CHANGE  
NO. 7**

**ARMY TM 9-1005-313-10  
AIR FORCE T.O. 11W2-6-5-1  
MARINE CORPS TM 08670A/09712A-10/1B  
NAVY SW360-AH-OMI-010  
WASHINGTON D.C., 20 August 2010**

**TECHNICAL MANUAL  
OPERATOR'S MANUAL FOR**

**MACHINE GUN, 7.62MM, M240 (1005-01-025-8095)  
MACHINE GUN, 7.62MM, M240B (1005-01-412-3129)  
MACHINE GUN, 7.62MM, M240C (1005-01-085-4758)  
MACHINE GUN, 7.62MM, M240D (1005-01-418-6995)  
MACHINE GUN, 7.62MM, M240E1 (1005-01-252-4288)  
MACHINE GUN, 7.62MM, M240L (1005-01-549-5837)  
MACHINE GUN, 7.62MM, M240H (1005-01-518-2410)  
MACHINE GUN, 7.62MM, M240N (1005-01-493-1666)**

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**PCN: 184 086701 07**

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A and B  
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A and B  
Front Cover

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

**Work Package Number**

WP 0019  
WP 0020  
WP 0022  
WP 0026  
WP 0035

**Work Package Number**

WP 0036  
WP 0038  
WP 0039  
WP 0040

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NO. 6**

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MARINE CORPS TM 08670A/09712A-10/1B  
NAVY SW360-AH-OMI-010  
WASHINGTON D.C., 18 September 2009**

**TECHNICAL MANUAL  
OPERATOR'S MANUAL FOR  
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MACHINE GUN, 7.62MM, M240H (1005-01-518-2410)  
MACHINE GUN, 7.62MM, M240N (1005-01-493-1666)**

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0036 00-1 and 0036 00-2

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MARINE CORPS TM 08670A/09712A-10/1B  
NAVY SW360-AH-OMI-010  
WASHINGTON D.C., 08 May 2009**

**TECHNICAL MANUAL  
OPERATOR'S MANUAL FOR**

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**MACHINE GUN, 7.62MM, M240C (1005-01-085-4758)**

**MACHINE GUN, 7.62MM, M240D (1005-01-418-6995)**

**MACHINE GUN, 7.62MM, M240E1 (1005-01-252-4288)**

**MACHINE GUN, 7.62MM, M240L (1005-01-549-5837)**

**MACHINE GUN, 7.62MM, M240H (1005-01-518-2410)**

**MACHINE GUN, 7.62MM, M240N (1005-01-493-1666)**

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A-B

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0010 -00-3 and 0010 00-4

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**Insert Pages**

a-d

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i-x

0010 -00-3 and 0010 00-4

Cover

Replace the following work packages with their revised version.

**Work Package No.**

WP 0001 00

WP 0007 00

WP 0008 00

WP 0011 00

WP 0013 00

WP 0014 00

**Work Package No.**

WP 0020 00

WP 0021 00

WP 0022 00

WP 0023 00

WP 0027 00

WP 0032 00

**Work Package No.**

WP 0033 00

WP 0034 00

WP 0038 00

WP 0039 00

WP 0041 00

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NO. 4**

**ARMY TM 9-1005-313-10  
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MARINE CORPS TM 08670A/09712A-10/1B  
NAVY SW360-AH-OMI-010  
WASHINGTON D.C., 04 APRIL 2008**

**Technical Manual  
Operator's Manual**

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MACHINE GUN, 7.62MM, M240N (1005-01-493-1666)**

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**Remove Pages**

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0039 00-5 and 0039 00-6

Replace the following work packages with their revised version.

**Work Package No.**

WP 0009

WP 0013

WP 0035 01

Insert the following new work package after WP 0009 00.

**Work Package No.**

WP 0009 01

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MARINE CORPS TM 08670A/09712A-10/1B  
NAVY SW360-AH-OMI-010  
WASHINGTON D.C., 15 June 2007**

**TECHNICAL MANUAL  
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MACHINE GUN, 7.62MM, M240N (1005-01-493-1666)**

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**PCN: 184 086701 03**

**Remove Pages**

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0022 00-11- 002200-12

**Insert Pages**

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vii and viii
0022 00-11- 002200-12

Replace the following work packages with their revised version.

**Work Package No.**

WP 0002 00  
WP 0003 00  
WP 0004 00  
WP 0007 00  
WP 0008 00  
WP 0009 00  
WP 0010 00  
WP 0018 00

**Work Package No.**

WP 0020 00  
WP 0021 00  
WP 0023 00  
WP 0024 00  
WP 0032 01  
WP 0037 00  
WP 003800  
WP 003900

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**CHANGE  
NO. 2**

**ARMY TM 9-1005-313-10  
AIR FORCE T.O. 11W2-6-5-1  
MARINE CORPS TM 08670A/09712A-10/1B  
NAVY SW360-AH-OMI-010  
WASHINGTON D.C., 20 May 2005**

**Technical Manual  
Operator's Manual**

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MACHINE GUN, 7.62MM, M240N (1005-01-493-1666)**

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a-d a-d  
A-B A-B

**Insert Pages**

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WP 0009  
WP 0038

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**CHANGE  
NO. 1**

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MARINE CORPS TM 08670A/09712A-10/1B  
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WASHINGTON D.C., 15 April 2005**

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A-B A-B

i-viii/x blank

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WP 0001

WP 0007

WP 0008

WP 0011

WP 0019

WP 0020

WP 0021

WP 0022

WP 0023

WP 0030

WP 0031

WP 0034

WP 0035

WP 0037

WP 0038

WP 0039

WP 0041

Authentication

Cover



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## **LIST OF EFFECTIVE PAGES**

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NOTE: The portions affected by this revision are indicated by a vertical line in the outer margin of the page.

Dates of issue for original and change pages are:

Original	0	15 November 2002	Change	4	04 April 2008
Change	1	15 April 2005	Change	5	08 May 2009
Change	2	20 May 2005	Change	6	F8 ù^] ç^{ à^! 2009
Change	3	15 June 2007	Change	7	20 August 2010

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WP 0001 00-1 thru -5	5		WP 0009 01-1/2 blank	4
WP 0002 00-1/2 blank	3		WP 0010 00-1 thru -4	5
WP 0003 00-1/2 blank	3		WP 0011 00-1 thru -4	5
WP 0004 00-1 and -2	3		WP 0012 00-1/2 blank	0
WP 0005 00-1/2 blank	0		WP 0013 00-1 thru -3	5
WP 0006 00-1/2 blank	0			

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### List of Effective Pages (cont)

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WP 0016 00-1 thru -4	0		WP 0031 01-1/2 blank	1
WP 0017 00-1 and -2	0		WP 0032 00-1 thru -6	5
WP 0018 00-1/2 blank	3		WP 0032 01-2 thru -3	3
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WP 0023 00-1 thru -6	5		WP 0036 00-1 and -4	7
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WP 0025 00-1 thru -4	0		WP 0038 00-1 thru -19	7
WP 0026 00-1 thru -7	7		WP 0039 00-1 thru -6	7
WP 0027 00-1/2 blank	5		WP 0040 00-1 thru -5	7
WP 0028 00-1 thru -3	0		WP 0041 00-1 thru -6	5
WP 0029 00-1 thru -3	0		Cover	7

**ARMY TM 9-1005-313-10  
AIR FORCE T.O. 11W2-6-5-1  
MARINE CORPS TM 08670A/09712A-10/1B  
NAVY SW360-AH-OMI-010**

TECHNICAL MANUAL  
ARMY NO. 9-1005-313-10  
AIR FORCE NO. 11W2-6-5-1  
MARINE CORPS NO. 08670A-10/2B  
NAVY NO. SW360-AH-OMI-010

HEADQUARTERS  
DEPARTMENTS OF THE ARMY  
AIR FORCE, MARINE CORPS,  
AND NAVY  
Washington, D.C., *15 November 2002*

### **Operator's Manual**

**MACHINE GUN, 7.62MM, M240 (1005-01-025-8095)  
MACHINE GUN, 7.62MM, M240B (1005-01-412-3129)  
MACHINE GUN, 7.62MM, M240C (1005-01-085-4758)  
MACHINE GUN, 7.62MM, M240D (1005-01-418-6995)  
MACHINE GUN, 7.62MM, M240E1 (1005-01-252-4288)  
MACHINE GUN, 7.62MM, M240H (1005-01-518-2410)  
MACHINE GUN, 7.62MM, M240L (1005-01-549-5837)  
MACHINE GUN, 7.62MM, M240N (1005-01-493-1666)**

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\* This manual supersedes TM 9-1005-313-10, dated 19 July 1996, with all changes, and Marine Corps TM 08670B-10/1A, Supplement 1, dated 29 July 1994.

## **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 Equipment Technical Publications) through the Internet, on the Army Electronic Product Support (AEPS) website. The Internet address is <https://aeps.ria.army.mil>. The DA Form 2028 is located under the Public Applications section in the AEPS Public Home Page. Fill out the form and click on SUBMIT. Using this form on the AEPS will enable us to respond quicker to your comments and better manage the DA Form 2028 program. You may also mail, email, 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, 1 Rock Island Arsenal, Rock Island, IL 61299-7630. The email address is [tacomlcmc.daform2028@us.army.mil](mailto:tacomlcmc.daform2028@us.army.mil). The fax number is DSN 793-0726 or Commercial (309) 782-0726. AIR FORCE ONLY: By Air Force AFTO Form 22 through your respective MAJCOM in the Joint Computer-aided Acquisition and Logistics Support (JACALS) system. Follow the guidance in accordance with Section 5 of Air Force TO 00-5-1.

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## HOW TO USE THIS MANUAL

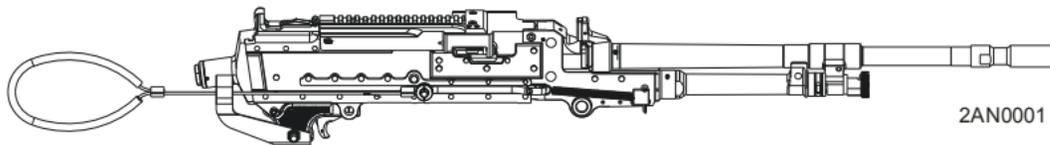
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In order to use this manual, there are several things you need to know.

1. All references in the manual are to work packages or to another manual.
2. Procedures apply to all models unless otherwise specified.

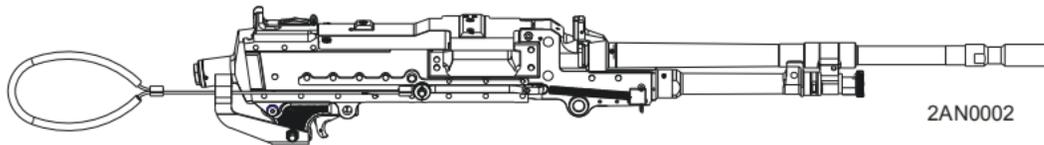
This manual is organized to help you quickly find the information you need.

3. Table of Contents: List in order all chapters and work package references.
4. Component of End Item (COEI): List of items that are part of the end item, but are shipped separately. It is not an authorization to requisition replacements.
5. Basic Issue Items (BII): List of minimum essential items required when weapon is in operation, and to perform emergency repairs. This manual is your authorization to request/replace BII.



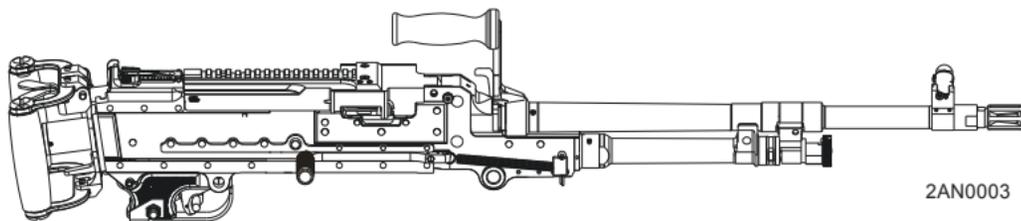
2AN0001

**M240**



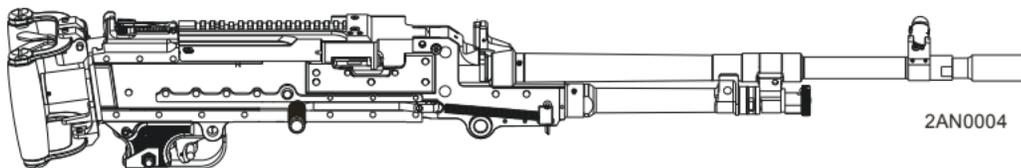
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**M240C**



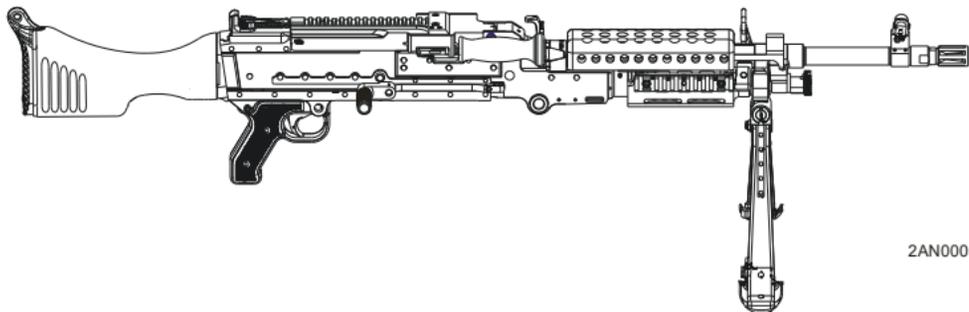
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M240D



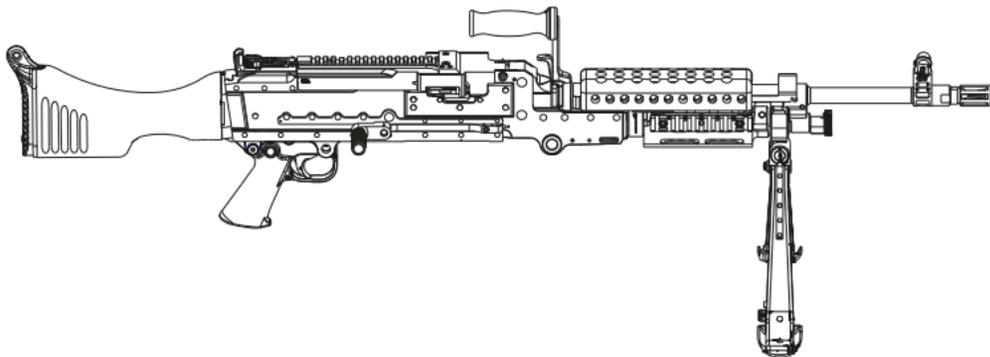
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M240E1



2AN0005

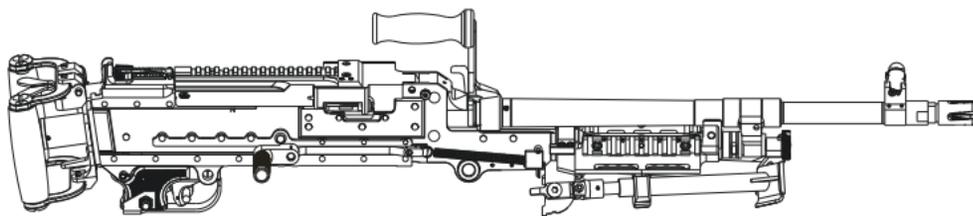
M240B



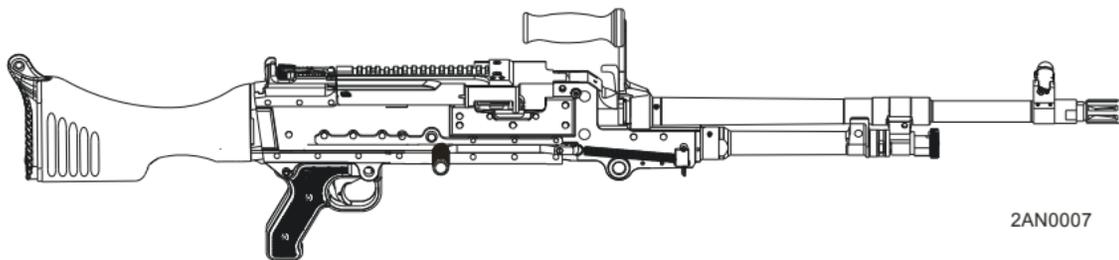
M240L

0001 00-3

Change 5



M240H



2AN0007

M240N

## **SCOPE**

Type of Manual: Operator's Manual.

Model Number and Equipment Name:

M240, 7.62mm, Machine Gun  
M240B, 7.62mm, Machine Gun  
M240C, 7.62mm, Machine Gun  
M240D, 7.62mm, Machine Gun  
M240E1, 7.62mm, Machine Gun  
M240L, 7.62mm, Machine Gun  
M240H, 7.62 mm Machine Gun  
M240N, 7.62mm, Machine Gun

Purpose of Equipment: Refer to WP 0007 for model of equipment information.

**END OF WORK PACKAGE**



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.

Air Force users refer to AFI 21-101, the applicable TO-00-20 Series, AFI 36-2226, and Technical Order 11W-1-10, Historical Data Recording of Inspection, Maintenance, and Firing Data for Ground Weapons, for prescribed maintenance forms and records.

Marine Corps users refer to TM 4700-15/1, Ground Equipment Record Procedures.

**END OF WORK PACKAGE**



If your machine gun needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design or performance. Put it on an SF 368 (Product Quality Deficiency Report (PQDR)). Mail to the address specified in DA PAM 750-8, the Army Maintenance Management System (TAMMS) Users Manual, or as specified by the acquiring activity. We will send you a reply.

Army users submit an SF 368 (PQDR) and mail to: Commander, U.S. Army Armament Research Development and Engineering Center, ATTN: AMSTA-AR-QAW-A, 1 Rock Island Arsenal, Rock Island, IL 61299-7630.

Air Force users submit QDRs in accordance with Technical Order 00-35D-54, Material Deficiency Reporting and Investigating System, and Air Force Joint Manual (AFJMAN) 23-215, Reporting of Supply Discrepancies.

Marine Corps users submit QDR's or SF 368 in accordance with MCO 4855.10 to: Commanding General, Marine Corps Logistics Base (Code 808), Albany, GA 31704-5000.

We'll send you a reply.

**END OF WORK PACKAGE**



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 the future.

While corrosion is typically associated with rusting of metals, it can also include deterioration of other materials, such as rubber and plastic. Unusual cracking, softening, swelling, or breaking of these materials may be a corrosion problem.

If a corrosion problem is identified, it can be reported using SF 368, Product Quality Deficiency Report. Use key words such as “corrosion”, “rust”, “deterioration”, or “cracking” will ensure that the information is identified as a CPC problem.

Army users submit discrepancies to the address specified in DA PAM 750-8, the Army Maintenance Management System (TAMMS) Users Manual.

Air Force users submit a Quality Deficiency Report (QDR) in accordance with Technical Order 00-35D-54, Material Deficiency Reporting and Investigating System, and Air Force Joint Manual (AFJMAN) 23-215, Reporting of Supply Discrepancies.

Air Force users: Submit either a Quality Deficiency Report (QDR) or a Material Deficiency Report (MDR) in accordance with the guidance provided in TO 00-35D-54, USAF Deficiency Reporting and Investigating System.

Marine Corps users: The prevention of corrosion on any equipment is important and is critically important for safe functioning of your machine gun. Corrosion prevention is carried out in accordance with TM 3080-12 (Corrosion Prevention and Control for Marine Corps Equipment). If a recurrent corrosion problem is identified, it should be reported on SF 368 (Product Quality Deficiency Report) in accordance with guidance contained in MCO 4855.10 (Product Quality Deficiency Report).

**END OF WORK PACKAGE**

**DESTRUCTION OF ARMY MATERIEL  
TO PREVENT ENEMY USE**

---

**0005 00**

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

Marine Corps users render the M240 inoperable by smashing, shattering, and concealing disassembled pieces.

**0005 00-1/2 blank**



Storage and shipment shall be in accordance with local procedures and AR 190-11, Physical Security of Arms, Ammunition and Explosives.



**EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES**

## Equipment Characteristics:

M240/M240C – Designed as coaxial machine gun for tanks and 7.62mm fire power on light armored vehicles.

M240B/M240L – Designed as a tripod mounted or bipod supported machine gun for use by ground forces. The bipod is integrated into the receiver assembly of the weapon. M240B/M240L has a forward rail for accessory mounting.

M240E1 - Designed with front and rear sights, uses 7.62mm ammunition, and spade grip trigger device and is pintle mounted on light armored vehicles.

M240D/M240H - Designed with front and rear sights, uses 7.62mm ammunition, and spade grip trigger and is mounted in helicopter applications. M240H has a forward rail for accessory mounting and integral bipod.

M240N– Designed with front and rear sights, and configured for mounting on watercraft in single or dual configuration.

**EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES (cont)**

## Capabilities and Features:

The M240 Series Machine Gun is gas-operated and fires from the open bolt position. The 7.62mm is the authorized round for the machine gun (WP 0035 00).

The M240B/M240L has a buttstock and hydraulic buffer assembly and can be mounted on the M122A1 Tripod or M192 Lightweight Tripod (refer to TM 9-1005-344-10). Air Force users refer to TO 11W2-8-1-331.

The M240D/M240E1/M240H has a spade grip for closed-in space triggering (for use on vehicles (M240E1) and aircraft (M240D/M240H).

The M240N has a buttstock and buffer assembly and configured for mounting on watercraft in single or dual configuration.

## LOCATION AND DESCRIPTION OF MAJOR COMPONENTS

---

**Barrel Assembly (A)** – Houses cartridge for firing and directs projectile.

**Buffer Assembly/Buffer and Spade Grip Assembly/Buttstock and Buffer Assembly (B)** – Absorbs recoil for bolt and operating rod assembly at the end of recoil movement. The spade grip assembly initiates firing for the M240D/M240E1/M240H models.

**Driving Spring Rod Assembly (C)** - Provides energy for returning bolt and operating rod assembly to firing position.

**Bolt and Operating Rod Assembly (D)** – Provides feeding, stripping, chambering, firing, extraction, and ejection of cartridges using the projectile propelling gases for power. There are two different operating rods that are not interchangeable.

**Trigger Housing Assembly (E)** – Controls the firing of the machine gun. There are different triggers that are not interchangeable.

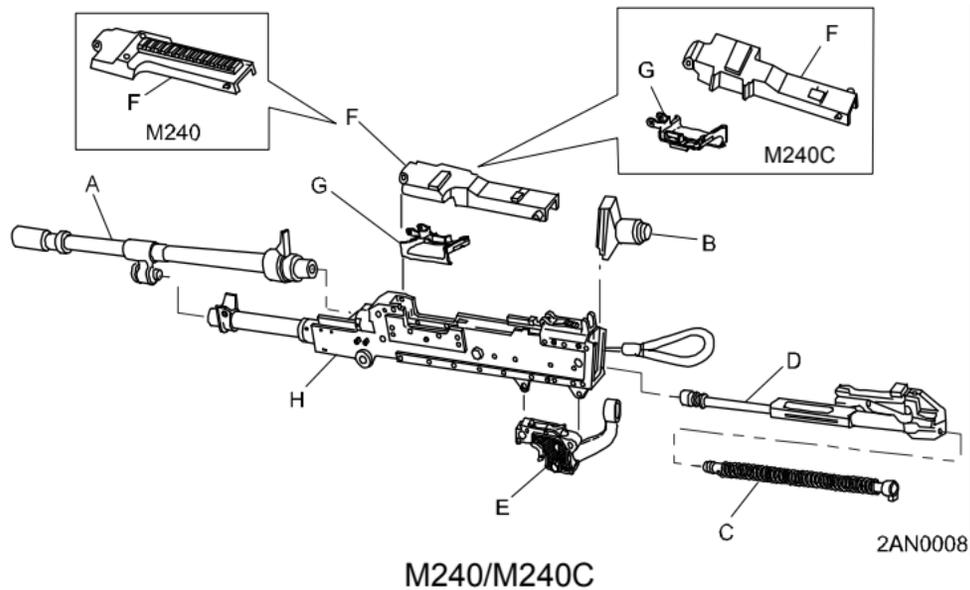
**Cover Assembly (F)** - Feeds linked belt, positions and holds cartridges in position for stripping, feeding and chambering. Cover has integral sight mounting rail for current/future accessories (all models except M240C). There are different cover assemblies that are not interchangeable.

## **LOCATION AND DESCRIPTION OF MAJOR COMPONENTS (cont) 0007 00**

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**Feed Tray (G)** – Serves as a guide for positioning cartridges to assist in chambering.

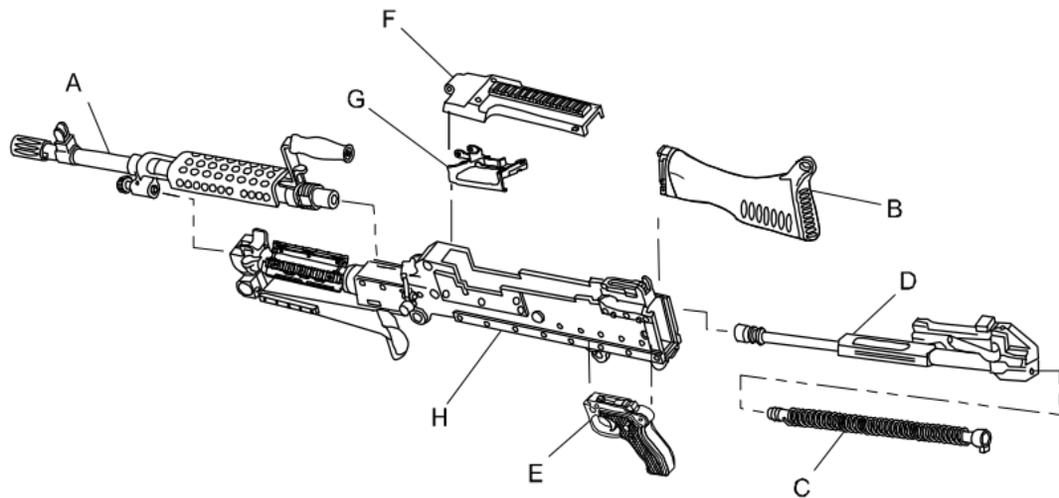
**Receiver Assembly (H)** – Serves as a support of all major components. The receiver houses action of weapon, and controls functioning of weapon through a series of cam ways. Receiver has a forward integral mounting rail for current/future accessories (M240B/M240L/M240H).



0007 00-5

Change 1

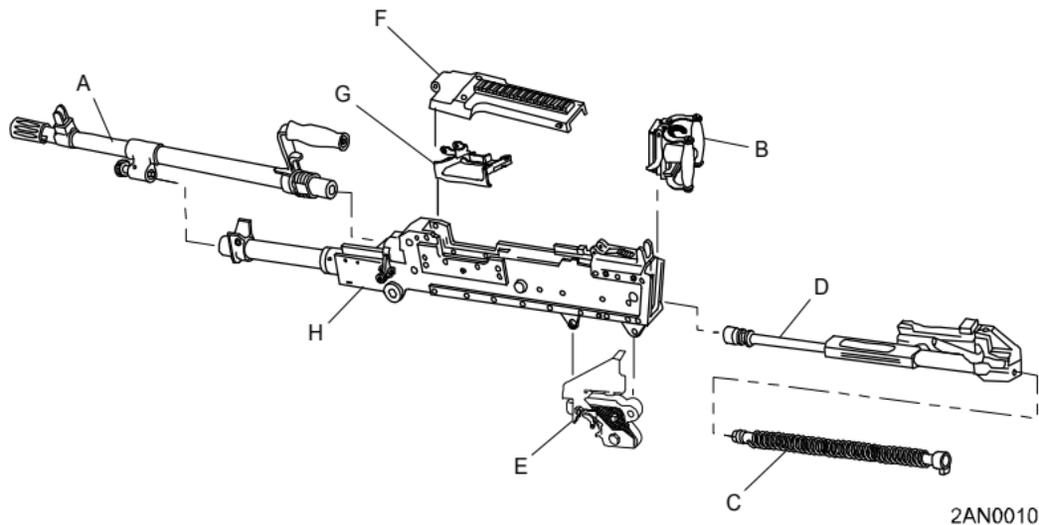
**LOCATION AND DESCRIPTION OF MAJOR COMPONENTS (cont) 0007 00**



2AN0009

M240B

0007 00-6



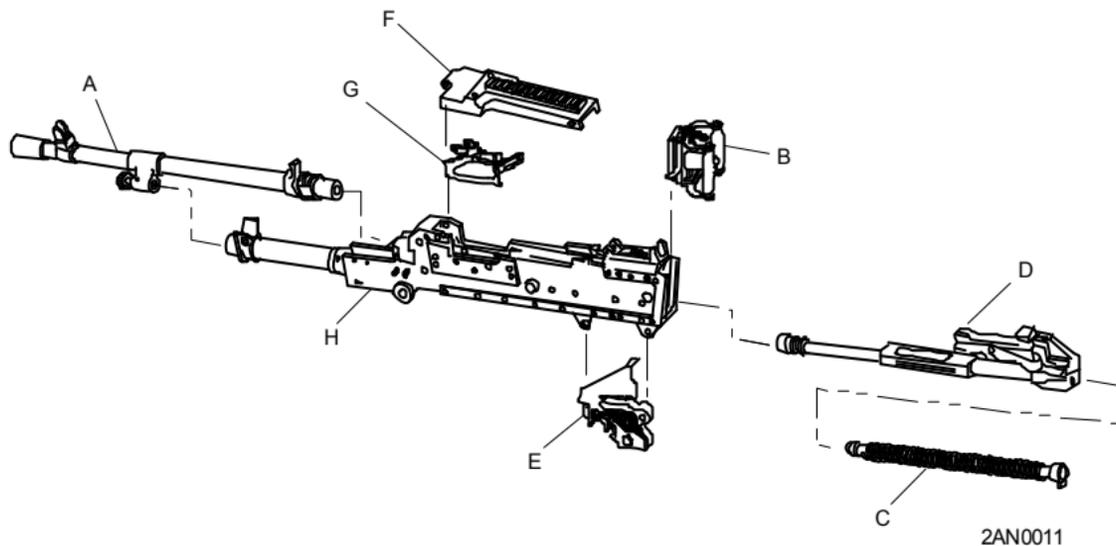
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M240D

0007 00-7

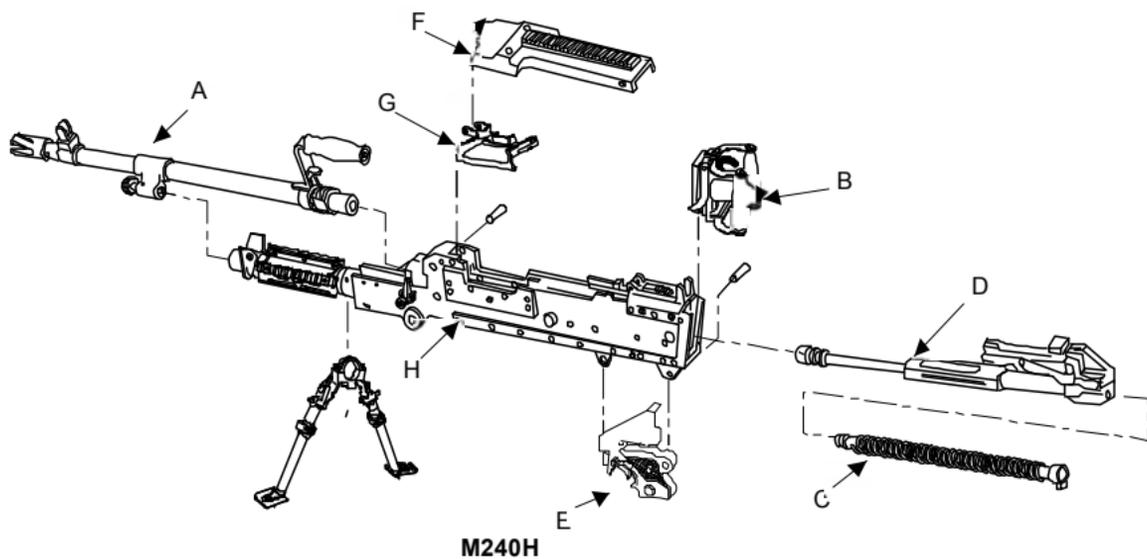
**LOCATION AND DESCRIPTION OF MAJOR COMPONENTS (cont) 0007 00**

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M240E1

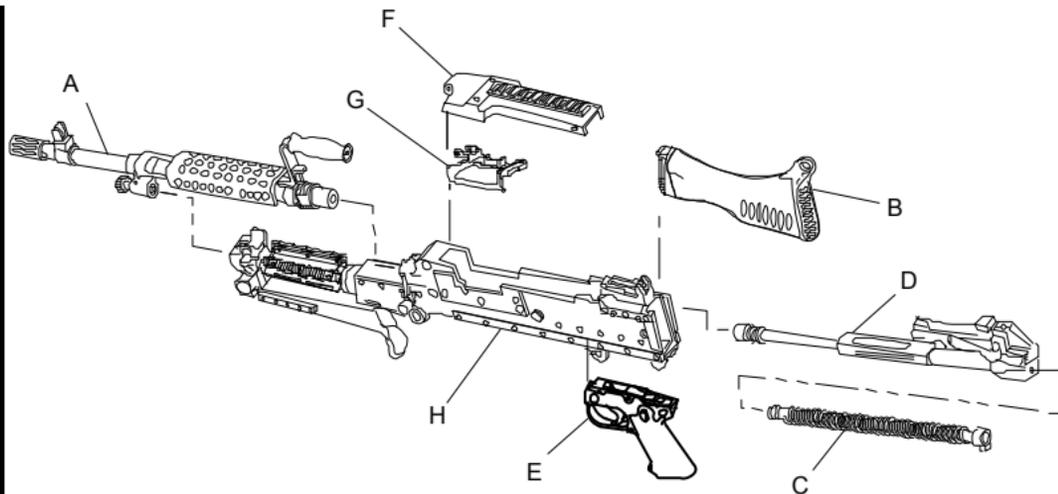
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0007 00-9

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# LOCATION AND DESCRIPTION OF MAJOR COMPONENTS (cont) 0007 00

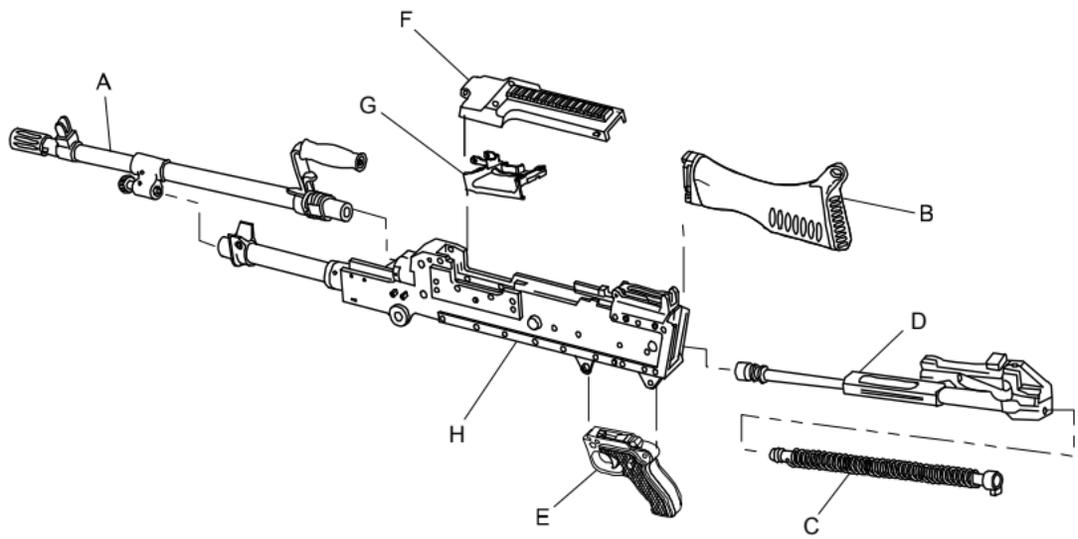


2AN0009

M240L

Change 5

0007 00-10



2AN0013

M240N

0007 00-11

# DIFFERENCES BETWEEN MODELS

0007 00

	<u>M240</u>	<u>M240</u> <u>B</u>	<u>M240</u> <u>C</u>	<u>M240</u> <u>D</u>	<u>M240</u> <u>E1</u>	<u>M240</u> <u>H</u>	<u>M240</u> <u>N</u>	<u>M240</u> <u>L</u>
Feeds from right			X					
Feeds from left	X X			X X X	X X X			
Cover Assy: P/N 11826165 P/N 11826038 P/N 12977101	X		X	X	X	X	X	X
Receiver Assy: P/N 11826192 P/N 12597044 P/N 12976834 P/N 12997566 P/N 12999179 P/N 12977104 P/N 13008744 P/N 13016494	X		X		X		X	X

Change 5

0007 00-12

M240	<u>M240</u>							
	<u>B</u>	<u>C</u>	<u>D</u>	<u>E1</u>	<u>H</u>	<u>N</u>	<u>L</u>	
Barrel Assy: P/N 11825985	X		X					
P/N 12597035					X			
P/N 12976818				X			X	
P/N 13008220						X		
P/N 13008850		X						
P/N 13016469								X
Trigger Assy: P/N 11826230	X		X					
P/N 12977118				X	X	X		
P/N 12976869		X					X	
P/N 13016484								X
Buffer Assy: P/N 11826211	X		X					
Buffer and Spade Grip Assy: P/N 12597057				X	X	X		

**DIFFERENCES BETWEEN MODELS (cont)****0007 00**

M240	<u>M240</u> <u>B</u>	<u>M240</u> <u>C</u>	<u>M240</u> <u>D</u>	<u>M240</u> <u>E1</u>	<u>M240</u> <u>H</u>	<u>M240</u> <u>N</u>	<u>M240</u> <u>L</u>
Buttstock and Buffer Assy (Hydraulic): P/N 12988986		X				X	X
Charger Cable: P/N 11826145	X		X				
Cocking Handle Assy: P/N 12597045				X			
P/N 12976835		X				X	X
P/N 12977106			X				
P/N 12999957		X			X		X

**Change 5****0007 00-14**

**EQUIPMENT DATA:** Procedures are written for the M240 Machine Gun and apply to all models except where noted.

Weight ..... 10.34 Kg (22.2 lbs) (M240/M240C);  
12.29 Kg (27.0 lbs) (M240B);  
10.39 Kg (22.9 lbs) (M240D);  
11.66 Kg (25.7 lbs) (M240E1);  
10.12 Kg (22.3 lbs) (M240L)  
11.7 Kg (25.8 lbs) (M240H);  
10.93 Kg (24.1 lbs) (M240N)

Rate of Fire ..... You get the sustained and rapid rates through practice.

**NOTE**

Barrel change intervals also apply when firing blank ammunition.

Cyclic ..... 650 to 950 RDS/M – Weapon is not intended to fire at 950 RDS/M. This will cause accelerated wear/damage to the barrel and rest of weapon.

Cyclic.....550 to 650 RDS/M – M240B/M240L/M240N with hydraulic buffer.

## **DIFFERENCES BETWEEN MODELS (cont)**

**0007 00**

---

Sustained ..... 100 RDS/M (4-5 seconds between burst) –  
Change barrel every 10 minutes.

Rapid ..... 200 RDS/M (2-3 seconds between burst) –  
Change barrel every 2 minutes.

Range:

Maximum ..... 3,725 meters

Maximum Effective (point) ..... 800 meters with M122A1 Tripod (M240B/M240L)  
M192 Machine Gun Tripod (M240B/M240L)  
(M122 Tripod with Flex Mount Assembly)

Maximum Effective (area) ..... 1,800 meters with M122A1 Tripod (M240B/M240L)  
M192 Machine Gun Tripod (M240B/M240L)  
(M122 Tripod with Flex Mount Assembly)

Tracer burnout ..... Approximately 900 meters

**END OF WORK PACKAGE**

**Change 5**

**0007 00-16**

**FACTS ABOUT YOUR MACHINE GUN**

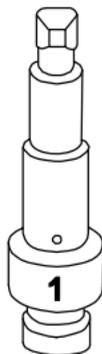
The barrel is air-cooled and has a fixed headspace allowing quick changes and maintenance when required. All models (except M240B/M240H/M240L) have multiple gas settings. Setting #1 is the standard setting. Settings #2 and #3 should not be used. M240B/M240H/M240L with hydraulic buffers should always use gas setting #1. Bolt design permits the cover to be opened or closed, regardless of the bolt position, without damage.

**NOTE**

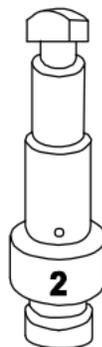
M240B/M240H/M240L will be authorized single port (setting #1) gas regulators only.

**FACTS ABOUT YOUR MACHINE GUN (cont)**

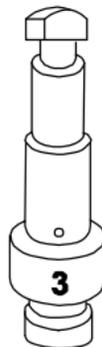
Setting #1 = 650 RDS/M approx.  
(550 RD/S – M240B/M240L/M240N  
with hydraulic buffer)



Setting #2 = 750 RDS/M approx.  
(625 RD/S – M240N  
with hydraulic buffer)



Setting #3 = 950 RDS/M approx.  
(650 RD/S – M240N  
with hydraulic buffer)

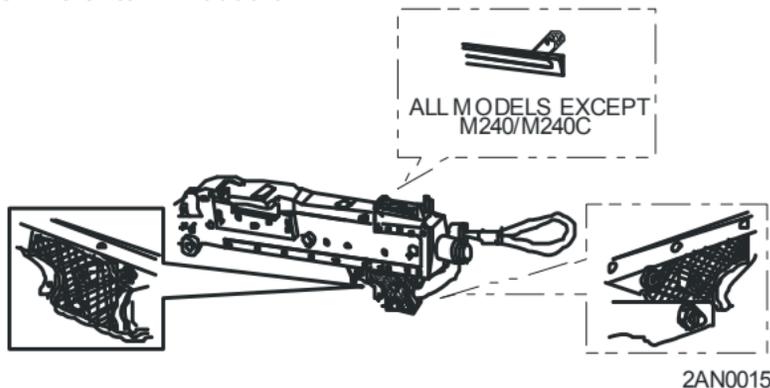


2AN0014

NOTE: Settings 2 and 3 are not to be used.

**END OF WORK PACKAGE****Change 5****0008 00-2**

Air Force Users: Refer to WP 0009 01-1



**WARNING**

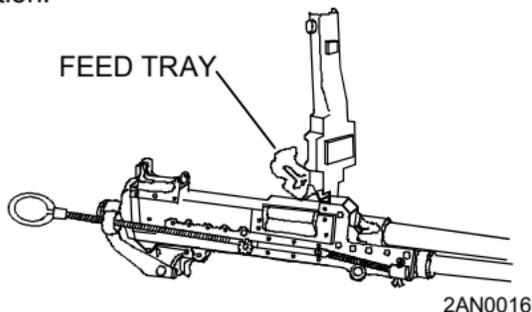
Under no circumstance should the safety be engaged with the bolt in the forward position. Always ensure the safety is in the fire position before charging the weapon. Otherwise, the weapon will become jammed when charged with the safety in the safe position.

Place safety to "F" fire before actuating the bolt/operating rod assembly.

**OPERATION UNDER USUAL CONDITIONS –  
LOADING (cont)**

**0009 00**

Pull the charger cable (or cocking handle assembly) fully to rear, and ensure bolt locks completely to rear. Release charger cable or return cocking handle assembly to fully forward and locked position.



Place safety to "S" safe.

Push in latches to open cover assembly. Remove any ammunition if present.

Raise feed tray. Look into chamber, make sure no round is chambered and area is free of obstructions. Lower feed tray.

**Change 3**

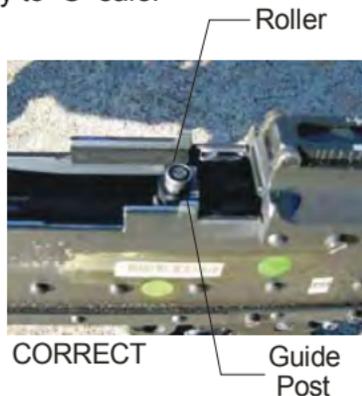
**0009 00-2**

Check location of bolt to ensure that it is fully rearward. Feed roller should line up with feed cover guide posts.

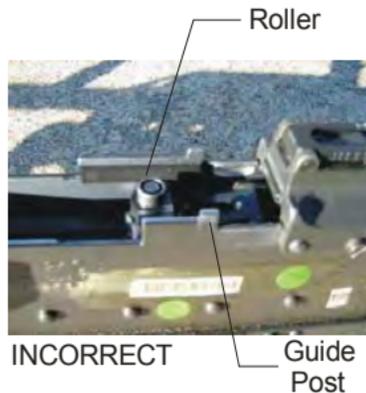
If roller is in front of guide posts, place safety to “F” fire.

Pull charger cable (or cocking handle assembly) fully to rear, and ensure bolt locks completely to rear. Release charger cable or return cocking handle assembly to fully forward and locked position.

Place safety to “S” safe.



0009 00-3



Change 4

**NOTE**

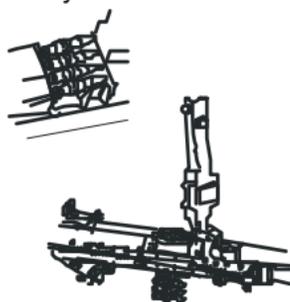
Position open side of links down.

Place link belt in feed tray with first round positioned against cartridge stop.

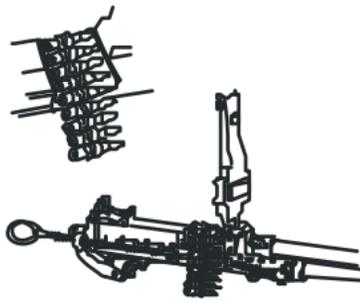
**CAUTION**

Make sure round does not move away from cartridge stop during closing and latching of cover.

Close cover assembly. Make sure it locks shut.



ALL MODELS  
EXCEPT M240C



M240C

2AN0017

**END OF WORK PACKAGE**

**Change 4**

**0009 00-4**

**HALF-LOAD.** Clear weapon (WP 0010 00). The half-load configuration starts with a cleared machine gun; bolt is forward with the safety on “fire”.

Attach the ammunition assault pack to the ammunition adapter located on the left side of the weapon.

Visually inspect the bandoleer to ensure all ammunition is in the bandoleer with the open side of the belt links pointing downward.

Open the cover and place the ammunition belt onto the feed tray with the belt links open side pointing downward. Place the first round into the tray groove against the cartridge stop.

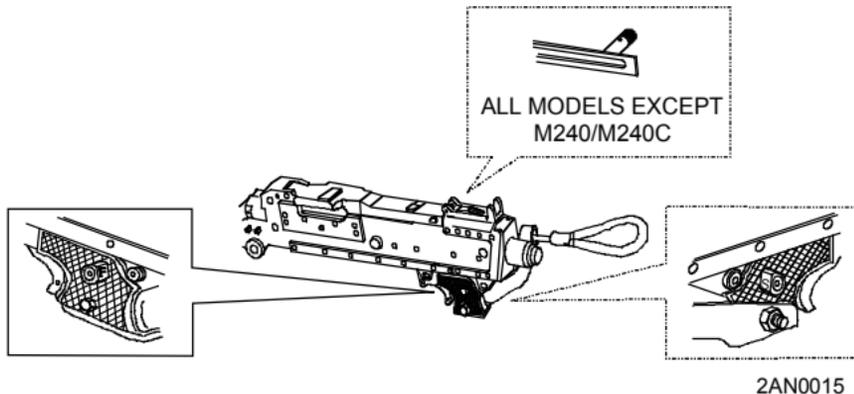
**WARNING**

**UNDER NO CIRCUMSTANCES SHOULD THE SAFETY BE  
ENGAGED WITH THE BOLT IN THE FORWARD POSITION.**

Close the cover. The machine gun is now half-loaded. The bolt is forward and the safety remains on “fire”.

**FULL-LOAD.** Refer to WP 0009 00.





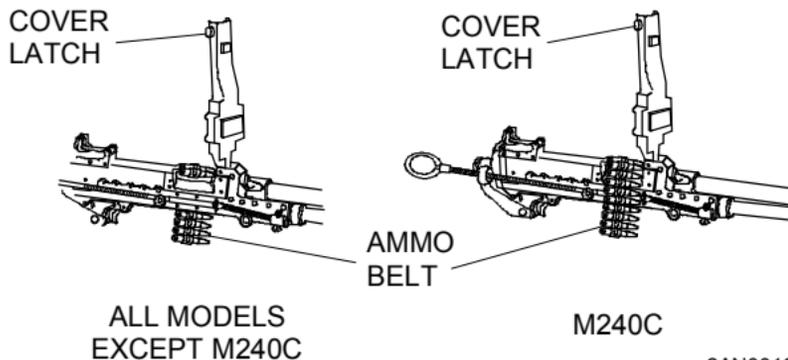
**WARNING**

Under no circumstances should the safety be engaged with the bolt in the forward position. Always ensure the safety is in the fire position before charging the weapon; otherwise, the weapon will become jammed when charged with the safety in the safe position.

Place safety to “F” fire before actuating the bolt/operating rod assembly.

## OPERATION UNDER USUAL CONDITIONS – CLEARING

0010 00



2AN0018

Pull charger cable (or cocking handle assembly) fully to rear, and ensure bolt locks completely to rear. Release charger cable or return cocking handle assembly to fully forward and locked position.

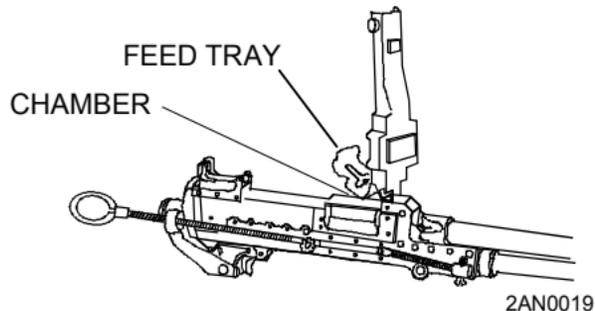
Place safety to “S” safe (WP 0009).

Push in latches to open cover assembly.

Remove ammunition belt.

Change 3

0010 00-2



Raise feed tray. Look into chamber to make sure it is empty. If a round is still in the chamber, refer to ruptured/stuck cartridge case or live round procedures (WP 0016 00 and WP 0017 00).

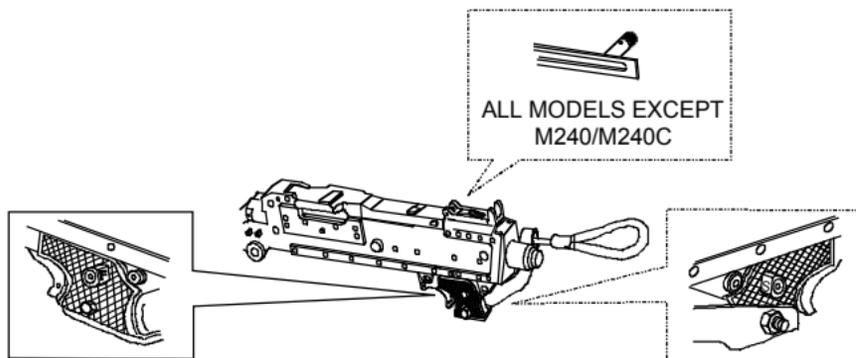
Lower feed tray.

Place safety to "F" fire.

**0010 00-3**

## OPERATION UNDER USUAL CONDITIONS – CLEARING (cont)

0010 00



2AN0015

Pull and hold charger cable (or cocking handle assembly) to rear while fully depressing the trigger while easing the bolt forward to close and lock. Release the trigger. Safety must not be able to be moved to the safe position.

Close cover assembly. Make sure it locks shut.

### NOTE

Be sure bolt is forward with safety in "F" fire when gun is not in use.

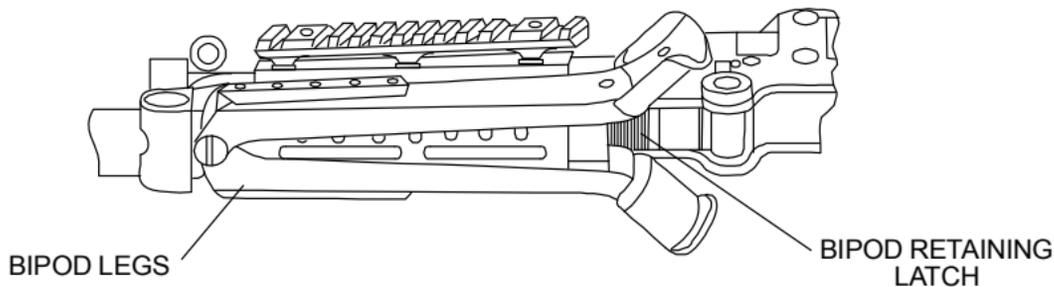
**END OF WORK PACKAGE**

Change 5

0010 00-4

## OPERATION UNDER USUAL CONDITIONS – OPERATION OF BIPOD

0011 00



2AN0021

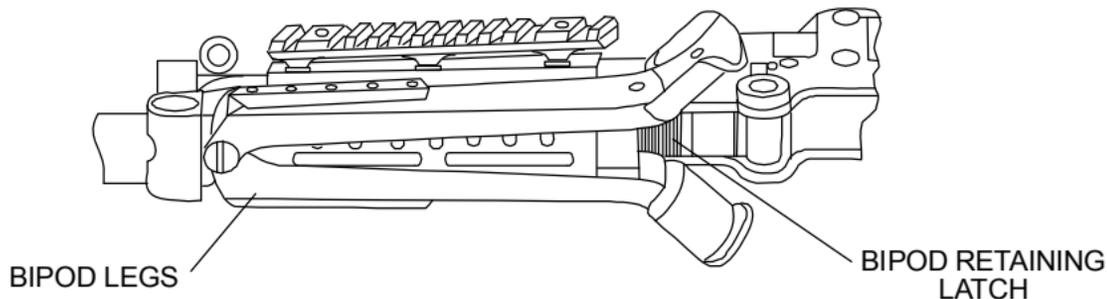
To operate the weapon from the bipod (M240B/M240L):

Depress the bipod retaining latch, while holding the bipod legs together to disengage them from the receiver

Rotate the bipod legs down and release them so they lock in the vertical position.

**OPERATION UNDER USUAL CONDITIONS –  
OPERATION OF BIPOD (cont)**

**0011 00**



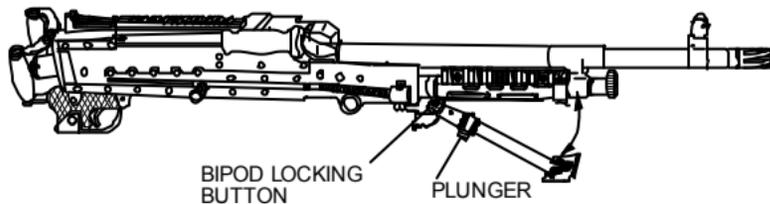
2AN0021

To return the bipod to locked upright position:

Hold the bipod legs together to disengage them from the locked vertical position.

Rotate legs rearward, depress the bipod latch and engage the bipod leg hooks into the slots of receiver. Release the bipod retaining latch to its original position, locking the legs into position.

**0011 00-2**



### **WARNING**

Bipod has sharp spike on the bottom of the legs.

To operate the weapon from the bipod (M240H):

Depress the bipod locking button and rotate the bipod legs down and rearward until they lock in the vertical position.

To return the bipod to locked upright position:

Depress the bipod locking button and rotate the bipod legs up and forward until they lock in the horizontal position.

**OPERATION UNDER USUAL CONDITIONS –  
OPERATION OF BIPOD (cont)**

---

**0011 00**

To adjust the height of the legs:

Depress bipod plunger and slide the lower leg to the desired height.

**END OF WORK PACKAGE**

**0011 00-4**

**STOPPAGE** – Any interruption in the cycle of operation of the gun.

**IMMEDIATE ACTION** – Prompt actions taken by the crew to overcome a stoppage.

**REMEDIAL ACTION** - Action taken to identify stoppage, if immediate action fails.

**COOK-OFF** – This is a peacetime classification only. The gun will be classed as a hot or cold gun in the interest of safety.

**CLASSIFICATION OF HOT GUN**

- More than 200 rounds fired within a 2 minute period.
- A long continuous burst or repeated firing of the weapon even though you do not reach 200 rounds.
- Less than 15 minutes have lapsed with out a round being fired from a hot gun.
- If the vehicle Commander for any reason determines the weapon is hot.

**END OF WORK PACKAGE**



**WARNING**

If nothing is ejected and you have a hot gun (200 rounds fired within a 2-minute period), do **NOT** open the cover. Place safety to “S” safe, keep weapon pointed down range, and remain away from the weapon for 15 minutes. After 15 minutes, clear your weapon (WP 0010 00).

The climate temperature in different regions will make a difference as to what constitutes a hot gun. A hot, sunny day can cause a cook-off within 50 rounds, weapon and ammunition in the sun.

**OPERATION UNDER USUAL CONDITIONS –  
IMMEDIATE ACTION (cont)**

---

**0013 00**

Change the barrel and look down barrel for obstructions or ruptured cartridge case.

Charge the weapon.

**WARNING**

Wear hearing protection within 17.5m of a firing M240B/M240L machine gun. Single hearing protection, plugs or muffs, will be worn by all personnel within 40 meters of the firing position(s).

Attempt to fire.

**Change 5**

**0013 00-2**

If the gun does not fire, pull charger cable (or cocking handle assembly) rearward to lock bolt assembly back (return cocking handle assembly to forward locked position), place safety on “S” safe, then:

- If Hot Gun – Keep weapon pointed down range for 15 minutes. Remove barrel and insert second barrel on the weapon. Look down the bore of the original barrel to see if there is an obstruction in the bore, then perform remedial action as required.
- If Cold Gun – Remove barrel and insert second barrel on the weapon. Look down the bore of the original barrel to see if there is an obstruction in the bore, then perform remedial action as required.

**END OF WORK PACKAGE**



**OPERATION UNDER USUAL CONDITIONS –  
REMEDIAL ACTION**

---

**0014 00**

Clear the weapon (WP 0010 00).

Visually inspect weapon.

**WARNING**

Wear hearing protection within 17.5m of a M240B Machine Gun being fired. Single hearing protection, plugs or muffs, will be worn by all personnel within 40 meters of the firing position(s).

Load and attempt to fire.

If weapon does not fire, notify unit maintenance.

**END OF WORK PACKAGE**

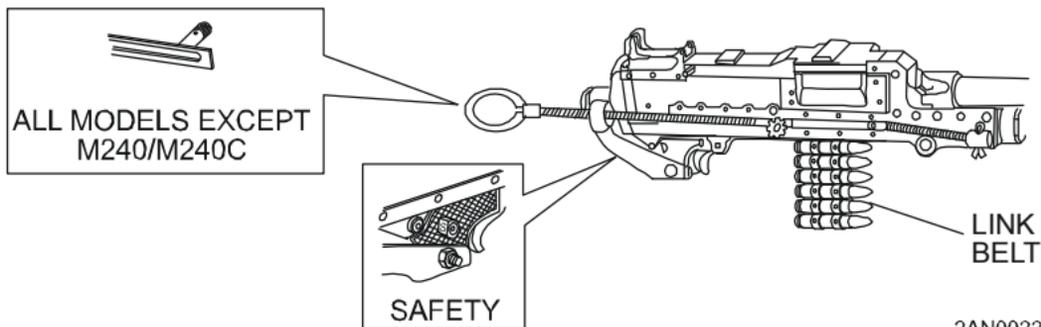


**WARNING**

Always keep weapon pointed down range.

Never reload a runaway weapon until it is repaired. Be sure weapon is cleared (WP 0010 00) before removing it from vehicle/tripod mount.

If runaway occurs (weapon won't stop firing), take any of the 3 actions below to stop the runaway. Then notify unit maintenance.



2AN0022

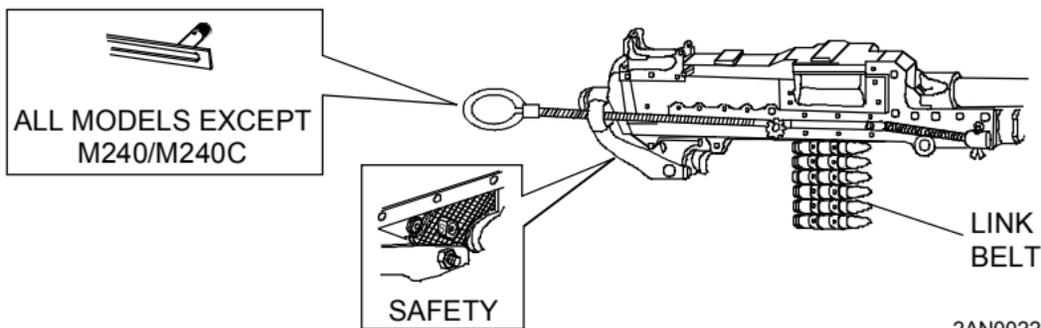
## OPERATION UNDER USUAL CONDITIONS – RUNAWAY MACHINE GUN (cont)

0015 00

Let weapon fire if near end of link belt.

Break link belt (grasp link belt and twist it firmly).

Grab charger cable (or cocking handle assembly), pull all the way back and hold.  
Place safety to “S” safe and remove ammunition belt.



2AN0022

**END OF WORK PACKAGE**

0015 00-2

## OPERATION UNDER USUAL CONDITIONS – STUCK CARTRIDGE CASE OR LIVE ROUND

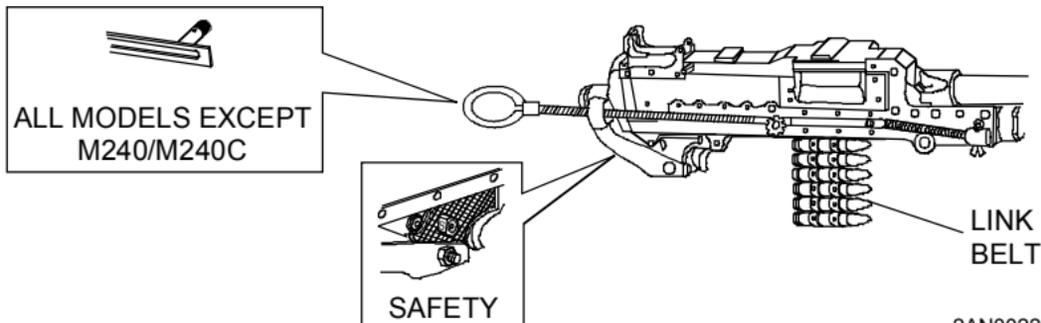
0016 00

### WARNING

Stay clear of muzzle. Do not allow round to hit any hard surface or it may fire. Dispose of live round(s) in accordance with local procedures.

If weapon fired but didn't extract, you have a stuck cartridge case. If weapon did not fire and didn't extract, you have a stuck live round.

Charge the weapon, and place safety on "S" safe.



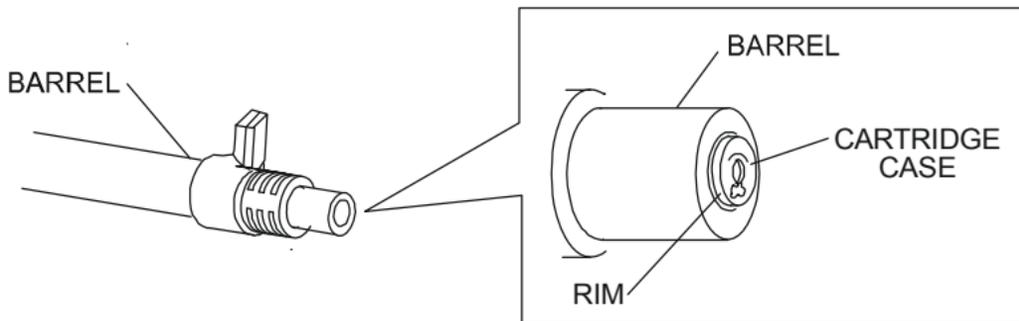
2AN0022

**OPERATION UNDER USUAL CONDITIONS –  
STUCK CARTRIDGE CASE OR LIVE ROUND (cont)**

**0016 00**

Push cocking handle assembly to forward locked position (all models except M240/M240C).

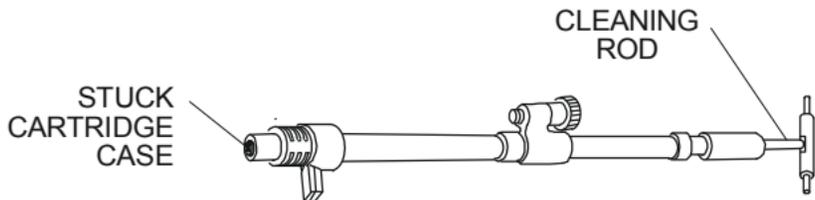
Wait until barrel is cool; remove barrel (WP 0021 00). Remove cartridge case from chamber of barrel, or pry rim (if case is tight).



2AN0023

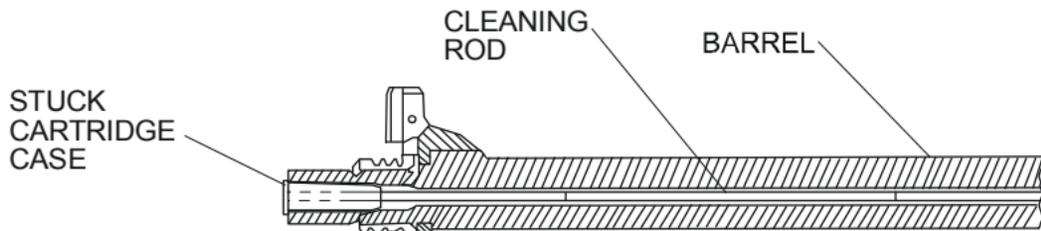
## ALTERNATE METHOD

Remove swab holder section from cleaning rod and insert cleaning rod through muzzle end of barrel, gently tap out cartridge.



2AN0024

Push end of cleaning rod against stuck case. Push cleaning rod to remove case with weapon in mounted position.



2AN0025

**END OF WORK PACKAGE**

**0016 00-4**

**OPERATION UNDER USUAL CONDITIONS –  
RUPTURED CARTRIDGE CASE**

---

**0017 00**

**WARNING**

Stay clear of muzzle. Do not allow round to hit any hard surface or it may fire. Dispose of live round(s) in accordance with local procedures.

Charge the weapon, and place safety on “S” safe.

Push cocking handle assembly to forward locked position (all models except M240/M240C).

Wait until barrel is cool; remove barrel (WP 0021 00).

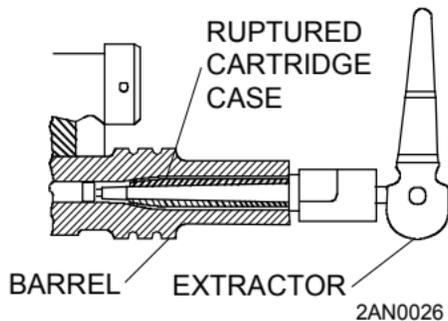
## OPERATION UNDER USUAL CONDITIONS – RUPTURED CARTRIDGE CASE (cont)

001700

### NOTE

In the event a live round is fed into a ruptured case, remove live round first (WP 0016 00), then remove ruptured cartridge case.

Push threaded end of extractor post through ruptured case. Pull on handle to remove case.



**END OF WORK PACKAGE**

0017 00-2

Under unusual conditions, clean and lubricate weapon more often.

**HOT, DUSTY, AND SANDY AREAS.** Clean often. Wipe oil from exposed surfaces with clean wiping rag (item 7, WP 0040 00). Cover weapon as much as possible to keep dust and sand out of parts.

**HOT, WET CLIMATE.** Inspect often. Dry, clean, and lubricate lightly as necessary.

**EXTREMELY COLD CLIMATE.** Keep free of moisture. Lightly oil with LAW (item 4, WP 0040 00).

**AFTER EXPOSURE TO WATER.** Disassemble, clean, oil and reassemble as soon as possible. Make sure it's dry.

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

Decontamination procedures can be found in FM 3-11.5. Air Force users follow the guidance in AF Handbook 32-4014, Ability to Survive and Operate Procedures in a Nuclear, Bioenvironmental and Chemical (NBC) Environment.

**NOTE**

Refer to WP 0025 00 for lubrication instructions.

**END OF WORK PACKAGE**



**CHAPTER 3**

**TROUBLESHOOTING PROCEDURES**



**GENERAL**

This table lists the common malfunctions that you may find during the operation or maintenance of the machine gun or its components. You should perform the tests/inspections and corrective actions in the order listed.

This manual cannot list all the 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 unit maintenance.

**NOTE**

Troubleshooting procedures are written for one machine gun but apply to all models.

Table 1. Troubleshooting Procedures

**SYMPTOM**

Fails to fire on initial burst.

**MALFUNCTION**

Weapon not properly charged.

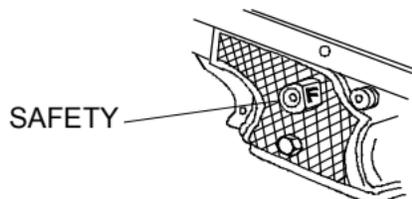
**CORRECTIVE ACTION**

Charge the weapon.

Safety is still in "S" safe position.

**CORRECTIVE ACTION**

Move safety to "F" fire.



2AN0027

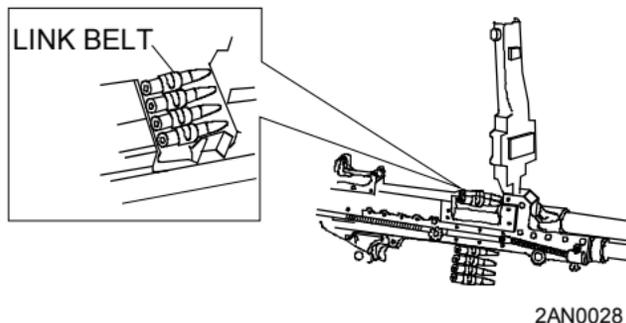
## **MALFUNCTION**

Link belt is not properly loaded.

## **CORRECTIVE ACTION**

Remove and reinstall link belt properly (WP 0009 00).

Ammunition is defective.



## **CORRECTIVE ACTION**

Eject round.

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

Failure to feed.

**MALFUNCTION**

Improper lubrication.

**CORRECTIVE ACTION**

Lube as required (WP 0025 00).

Ammunition or links are defective.

**CORRECTIVE ACTION**

Remove defective ammunition/links. Install new ammunition/links.

Obstruction in receiver.

**CORRECTIVE ACTION**

Remove obstruction.

## MALFUNCTION

Rounds in link belt misaligned or link belt inverted.

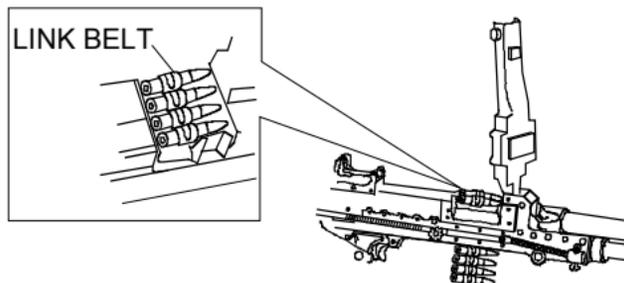
### CORRECTIVE ACTION

Align round in link belt; reinstall link belt properly (WP 0009 00).

Cover is unlatched.

### CORRECTIVE ACTION

Latch cover.



2AN0028

Table 1. Troubleshooting Procedures (cont)

**SYMPTOM (cont)**

Failure to feed.

**MALFUNCTION**

Cover assembly is damaged, or has weak, worn or missing parts.

**CORRECTIVE ACTION**

Notify unit maintenance.

**SYMPTOM**

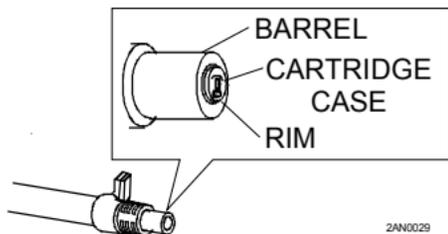
Weapon stops firing.

**MALFUNCTION**

Round in chamber is defective.

**CORRECTIVE ACTION**

Eject round.

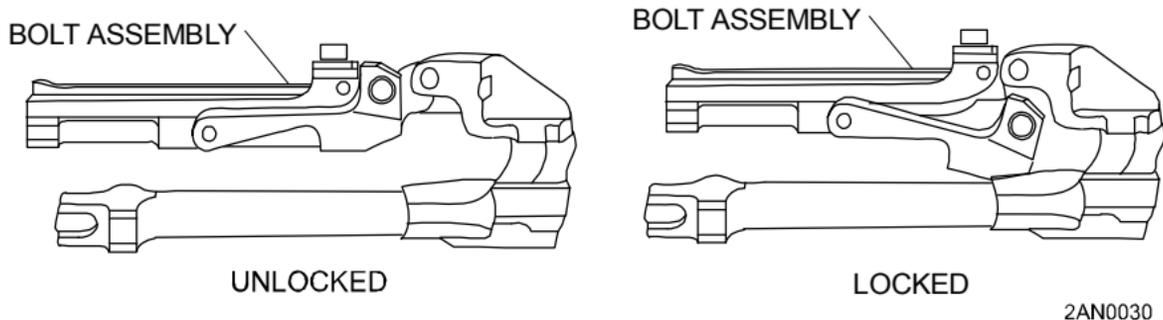


2AN0029

Bolt assembly is not fully forward and locked.

**CORRECTIVE ACTION**

Remove obstructions; or clean (WP 0022 00) and lubricate (WP 0025 00) as required.



Unfired round with dented primer.

**CORRECTIVE ACTION**

Eject round. Attempt to fire.

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

Weapon stops firing.

**MALFUNCTION (cont)**

Feed mechanism is sticking.

**CORRECTIVE ACTION**

Clean (WP 0022 00) and lubricate (WP 0025 00) feed mechanism. If problem still exist, notify unit maintenance.

Short recoil.

**CORRECTIVE ACTION**

Clean (WP 0022 00) and lubricate (WP 0025 00) bolt and operating rod assembly. If problem still exist, notify unit maintenance.

**SYMPTOM**

Sluggish operation.

**MALFUNCTION**

Receiver is dirty.

**CORRECTIVE ACTION**

Clean (WP 0022 00) and lubricate (WP 0025 00).

Insufficient lubrication.

**CORRECTIVE ACTION**

Lubricate (WP 0025 00).

Table 1. Troubleshooting Procedures (cont)

**SYMPTOM**

Failure to chamber.

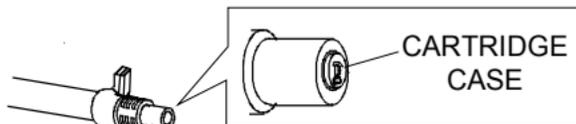
**MALFUNCTION**

Stuck or ruptured cartridge case.

**CORRECTIVE ACTION**

Remove cartridge (WP 0016 00/WP 0017 00).

Ammunition is dirty.



2AN0031

Stuck or ruptured cartridge case.

**CORRECTIVE ACTION**

Wipe ammunition off with a clean, dry rag (item 7, WP 0040 00).  
Thoroughly clean chamber of barrel.

Carbon build-up in receiver.

**CORRECTIVE ACTION**

Clean receiver as necessary (WP 0022 00).

Round is damaged.

**CORRECTIVE ACTION**

Remove round and recharge weapon.

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

Failure to chamber.

**MALFUNCTION (cont)**

Driving spring is damaged or weak.

**CORRECTIVE ACTION**

If two or more strands broken on the same coil, or three or more strands are broken in any location, notify unit maintenance.

DRIVING SPRING



2AN0032

Gas plug regulator is damaged.

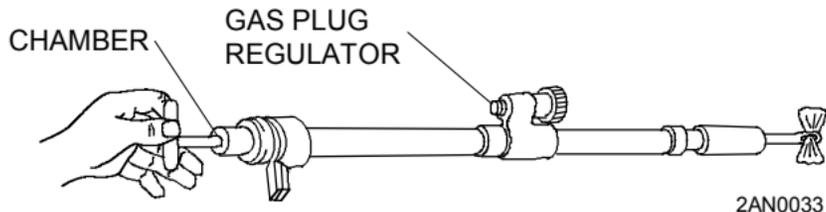
**CORRECTIVE ACTION**

Notify unit maintenance.

Dirt in chamber.

**CORRECTIVE ACTION**

Clean chamber (WP 0022 00).



2AN0033

**Table 1. Troubleshooting Procedures (cont)**

**SYMPTOM**

Failure to fire.

**MALFUNCTION**

Ammunition is faulty.

**CORRECTIVE ACTION**

Replace ammunition.

Broken or damaged firing pin.

**CORRECTIVE ACTION**

Notify unit maintenance.

Driving spring is damaged or weak.

**CORRECTIVE ACTION**

If two or more strands broken on the same coil, or three or more strands are broken in any location, notify unit maintenance.

DRIVING SPRING



2AN0032

Table 1. Troubleshooting Procedures (cont)

**SYMPTOM)**

Failure to extract.

**MALFUNCTION (cont)**

Short recoil.

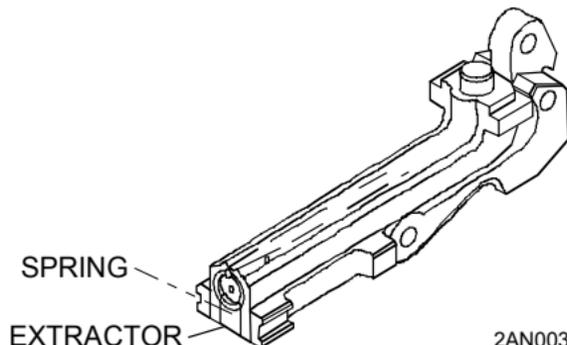
**CORRECTIVE ACTION**

Notify unit maintenance.

Damaged extractor/spring.

**CORRECTIVE ACTION**

Notify unit maintenance.



2AN0034

Dirty chamber or ammunition.

**CORRECTIVE ACTION**

Clean chamber (WP 0022 00), wipe ammunition off with clean, dry rag (item 7, WP 0040 00).

**SYMPTOM**

Failure to eject.

**MALFUNCTION**

Short recoil.

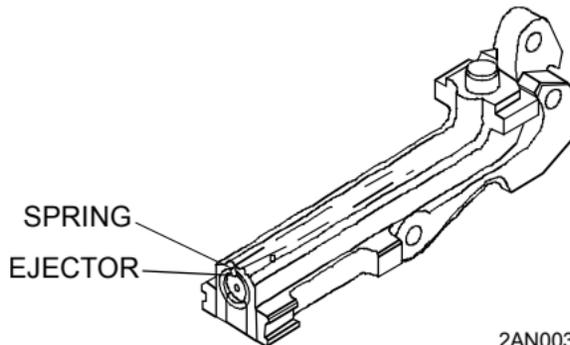
**CORRECTIVE ACTION**

Notify unit maintenance.

Damaged ejector/spring.

**CORRECTIVE ACTION**

Notify unit maintenance.



2AN0034

**Table 1. Troubleshooting Procedures (cont)**

**SYMPTOM (cont)**

Failure to eject.

**MALFUNCTION (cont)**

Spent case bag is full.

**CORRECTIVE ACTION**

Empty bag.

**SYMPTOM**

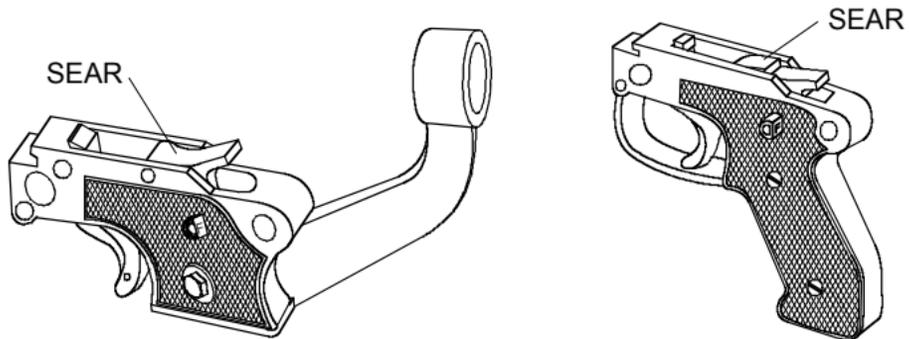
Failure to cock or runaway gun.

**MALFUNCTION**

Sear is broken, worn or burred.

**CORRECTIVE ACTION**

Notify unit maintenance.



2AN0035

Operating rod sear notch is worn.

**CORRECTIVE ACTION**  
Notify unit maintenance.

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

Failure to cock or runaway gun.

**MALFUNCTION (cont)**

Sear is stuck in housing.

**CORRECTIVE ACTION**

Notify unit maintenance.

Short recoil.

**CORRECTIVE ACTION**

Notify unit maintenance.

## **CHAPTER 4**

# **MAINTENANCE PROCEDURES**



Always keep in mind the WARNINGS and CAUTIONS before and during operation. Be sure to perform your after (A) PMCS.

Perform BEFORE PMCS if:

- You are the assigned operator and the machine gun has been stored and not used for a period of 90 days.
- You have been issued the machine gun for the first time.
- Prior to each firing exercise.

**NOTE**

Air Force Combat Arms personnel shall perform the inspections listed in Operational Supplement 11W2-6-5-2S-1 on all weapons used for training and during field exercises at the intervals listed in the Operational Supplement.

BEFORE (B) - Checks and services performed prior to the equipment leaving its containment area or performing its intended mission.

DURING (D) - Checks begin when the equipment is being used in its intended mission.

AFTER (A) - Checks and services begin when the equipment is taken out of its mission mode or returned to its containment area.

Your PMCS table lists inspections and care required to keep your machine gun in good operating condition.

The interval column tells you when and the procedure column tells you how to do a certain check or service. The equipment condition listed in “NOT FULLY MISSION CAPABLE IF” column indicates problems which must be corrected before you can operate the machine gun. The terms “ready/available” and “mission capable” refer to the same status: equipment is on hand and is able to perform its combat missions (see DA PAM 750-8).

If your machine gun does not perform as required, refer to Troubleshooting (WP 0019 00) for possible malfunctions and corrective actions.

Army users report malfunctions on DA Form 2404 or refer to DA PAM 750-8.

Air Force users will turn the M240B weapon into the local Combat Arms section for repairs. The M240D weapon will be turned into the Armament section for repairs.

### **WARNING**

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

Do not interchange barrel assembly or bolt assembly from one machine gun to another without being headspaced/gaged. Doing so may result in injury to, or death of, personnel.

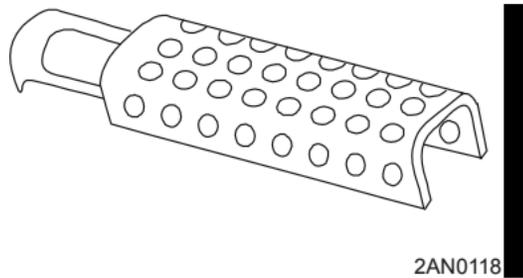
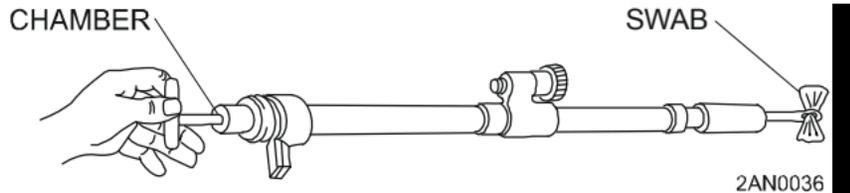
Ensure that assigned/spare barrels have been headspaced and tagged to your receiver. Rotate usage of the barrels as specified in WP 0007 00.

### **NOTE**

Barrel changes are required with all types of authorized ammunition, to include blanks (WP 0007 00).

**PREVENTIVE MAINTENANCE CHECKS AND SERVICES (cont)****0020 00**

Item No.	Interval	Item to be Checked/ Serviced	Procedure Not	Fully Mission Capable If:
1 B/A		Barrel Assembly	<p>Remove barrel (WP 0021 00) and check bore and chamber. Using cleaning rod and swab (item 8, WP 0039 00), remove oil, foreign material, or obstructions. Install and lock barrel securely in receiver (WP 0023 00). (Spare barrel must also be checked and cleaned before use.)</p> <p>Inspect heat shield for cracks (M240BM240L).</p> <p>Ensure gas regulator is not burnt out or plugged with carbon (WP 0022 00).</p>	<p>Obstruction in barrel cannot be removed or barrel will not lock securely (2 to 7 clicks) in receiver (WP 0023 00). Heat shield missing or broken so as to allow contact with metal (M240BM240L). Gas regulator plug hole number 1 is oblong/enlarged.</p>

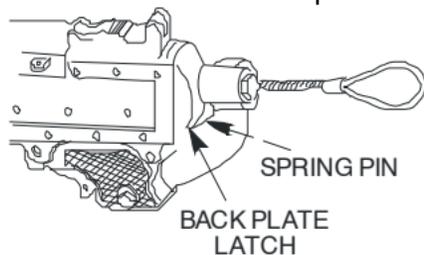


**PREVENTIVE MAINTENANCE CHECKS AND SERVICES (cont)****0020 00**

Item No.	Interval	Item to be Checked/ Serviced	Procedure Not	Fully Mission Capable If:
2 B		Machine Gun	Visually check for accompanying spare barrel assembly.	Spare barrel assembly is not available.
3 B		Buffer Assembly	Field strip the weapon (WP 0021 00). Make sure back plate latch is locked.	Latch will not hold buffer assembly in receiver.

**NOTE**

Ensure spring pin is in place.

**Change 5****002****0 00-6**

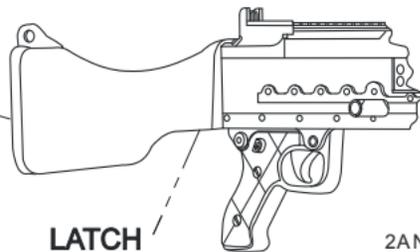
Item No.	Interval	Item to be Checked/ Serviced	Procedure Not	Fully Mission Capable If:
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### CAUTION

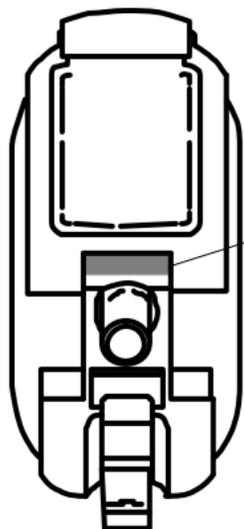
Do not apply lubricants to composition/rubber components.

4 B		Buttstock and Buffer Assembly (M240B/ M240L/ M240N)	Make sure back plate latch is locked. Make sure buttstock is not loose. Externally inspect the buttstock for cracks. The buttstock may be cleaned with a brush and soapy water, rinsed, and wiped dry with a clean rag.	Latch will not hold buttstock assembly in receiver. Buttstock is cracked or loose.
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**BUTTSTOCK AND  
BUFFER ASSEMBLY**



2AN0038



WEAR  
AREA

Check buffer housing for peening, cracking or damage to include finish missing from the stop above the buffer.

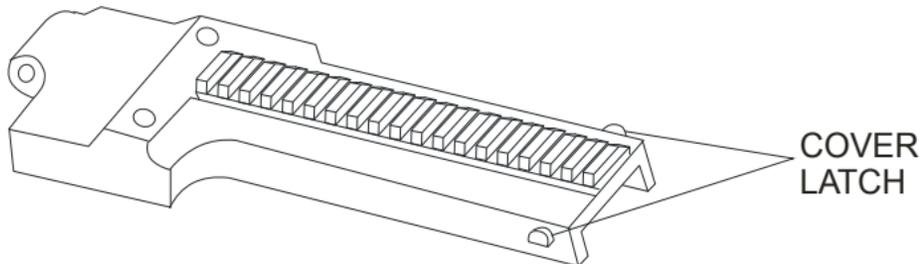
Check buffer shaft for bends, mushrooming, peening and cracks on the face.

Check shaft for oil residue. Work the buffer assembly to check for fluid leakage. Buffer shaft should depress smoothly without chatter and return promptly when released

Buffer housing is peened, cracked or damaged.

Buffer shaft is bent, mushroomed, peened or cracked. More than 1/8 inch of finish is missing from top edge of buffer housing stop. Buffer shaft actuates roughly or fails to return to full extended position. Buffer leaking around shaft.

Item No.	Interval	Item to be Checked/ Serviced	Procedure Not	Fully Mission capable if:
5 B		Cover Assembly	Check cover assembly for cracks or distortion. Squeeze cover latches and raise cover. Make sure cover stays up on its own (w/o devices attached). Let go of latches and close cover. Make sure latches hold cover shut. Inspect accessory mounting rail for nicks and burrs (all models except M240C).	Cracks or distortion are present. Cover fails to stay up on its own. Latches fail to hold cover shut. Accessory rail will not accept optional sighting devices (all except M240C).



2AN0039

Item No.	Interval	Item to be Checked/ Serviced	Procedure	Not Fully Mission Capable If:
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**CAUTION**

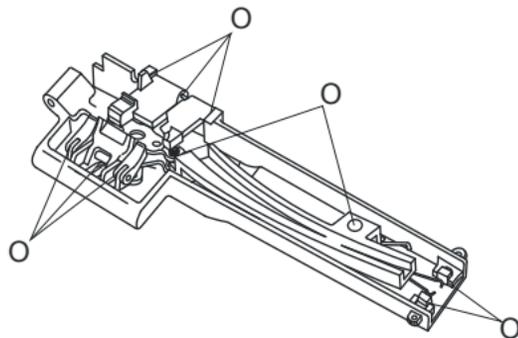
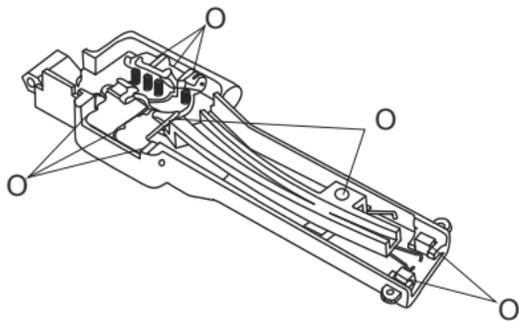
DO NOT use brushes when cleaning cover assembly, use clean rag only.

4  
(cont)

B Cover  
Assembly

Check for smooth operation, spring tension, bent, or missing parts, or excessive wear.

If any of these conditions exist, notify unit maintenance.



O - LIGHTLY LUBE MOVING PARTS

2NA0061

Item No.	Interval	Item to be Checked/ Serviced	Procedure Not	Fully Mission Capable If:
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**NOTE**

The charger cable is only on the M240/M240C models. All other models have a cocking handle assembly.

Weapon should not be on "S" safe without bolt assembly locked fully to the rear.

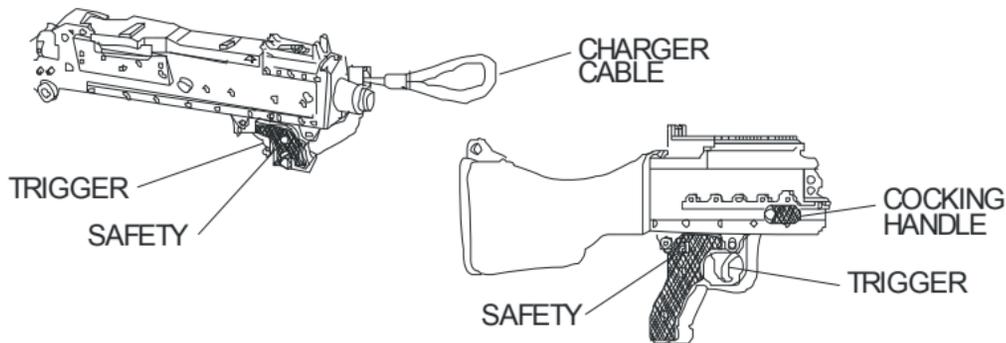
6 B		Charger Cable, Safety, and Bolt Assembly	Place safety on "F" fire and pull charger cable/cocking handle assembly to the rear (return and lock in forward position) make sure bolt assembly moves freely without binding and locks to the rear. Place safety to "S" safe (WP 0009) and pull trigger. Bolt assembly should not move forward. Place safety to "F" fire. Keep hold of charger cable and pull trigger.	
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# PREVENTIVE MAINTENANCE CHECKS AND SERVICES (cont)

0020 00

Item No.	Interval	Item to be Checked/ Serviced	Procedure Not	Fully Mission Capable If:
6 (cont)			Let bolt assembly return to forward position slowly.	



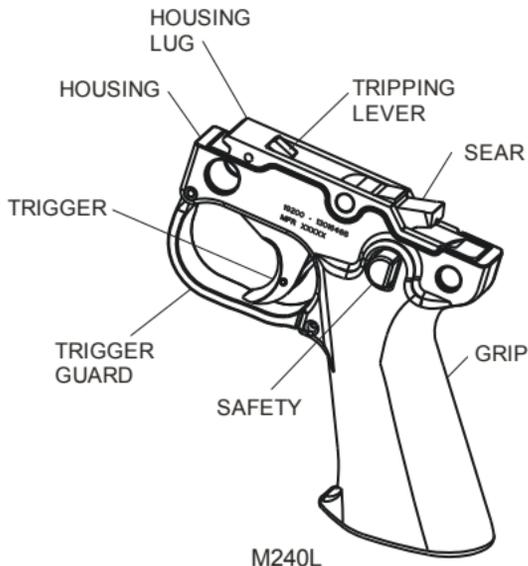
2AN004C

6

B/A Trigger  
Assembly

Check for broken grips, bent cable guide, loose nut and bolt and chipped or cracked trigger housing holding lug. Ensure trigger guard does not interfere with full operation of trigger (WP 0022 00)

Parts are bent, broken, cracked or loose.



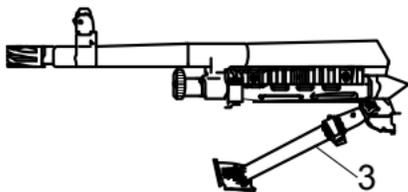
0020 00-13

Change 5

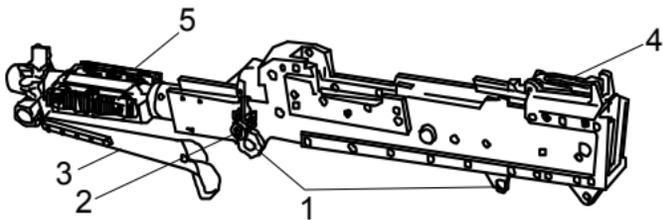
**PREVENTIVE MAINTENANCE CHECKS AND SERVICES (cont)****0020 00**

Item No.	Interval	Item to be Checked/ Serviced	Procedure Not	Fully Mission Capable If:
7 B/A		Receiver Assembly (models as specified)	Inspect mounting points (1). Check barrel locking latch (2) for spring tension and locking action (all models). Externally inspect the appearance and operation of the bipod (3) (M240B/M240L/M240H). Check the rear sight (4), the slide assembly catches, and that the elevation markings are readable (all models except M240/M240C).  Check forward rail assembly (5) for nicks and burrs; movement on receiver (M240B/M240L/M240H).	Any parts are broken, missing, or damaged to the extent it could cause gun to malfunction.  Rails will not accept optional devices; rail assembly moves on receiver.

**Change 5****002****0 00-14**



M240H

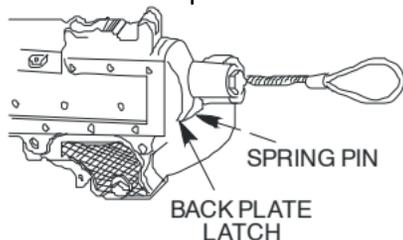


### NOTE

If gas regulator has to be set to setting #2 or #3 to increase firing rate, take corrective action and return weapon to primary setting #1 (WP 0008 00) readable (all models except M240B/M240L/M240H).

M240B/M240L/M240H has a single port gas plug (Army/Air Force only).

8 D	Machine Gun (firing cycle)	Note machine gun firing rate. If firing cycle slows down, clean and oil machine gun. Notify field maintenance as soon as possible if machine gun does not function properly.	If rate of fire can not be increased by cleaning; during firing, notify field maintenance.
9 D	Buffer Assembly/ Buffer and Spade Grip Assembly/ Buttstock and Buffer Assembly	If plug becomes loose on buffer assembly (M240/M240C/M240D/M240E1/M240H) or the buttstock appears loose (M240B/M240L/M240N), machine gun needs to be returned to field maintenance to ensure proper assembly.	Plug is loose on buffer; or buttstock appears loose.



Item No.	Interval	Item to be Checked/ Serviced	Procedure Not	Fully Mission Capable If:
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### WARNING

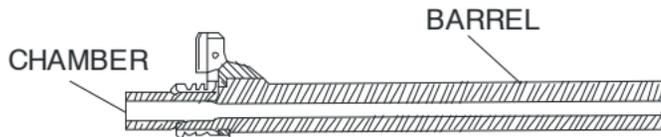
Be sure to clear weapon before disassembling, clearing, inspecting, transporting, or storing.

10 B/A

Barrel Assembly

Check chamber and bore for obstructions.

Remove heat shield to allow cleaning and lubrication of barrel assembly (M240B/M240L) (WP 0021 00).



**0020 00-17**

**Change 5**

11 B/A

Driving  
Rod  
Spring

Disassemble, clean, inspect.

If two or more strands are broken on the same coil or if there are three or more broken strands, regardless of location, on the spring.

DRIVING  
SPRING



12 A

Machine  
Gun (all  
models)

Disassemble, clean, inspect, lubricate, and reassemble machine gun (WP 0021 00 through WP 0023 00).

Any part is broken, missing, or damaged to the extent that it could cause gun to malfunction.

**END OF WORK PACKAGE**

## MAINTENANCE PROCEDURES – FIELD STRIPPING

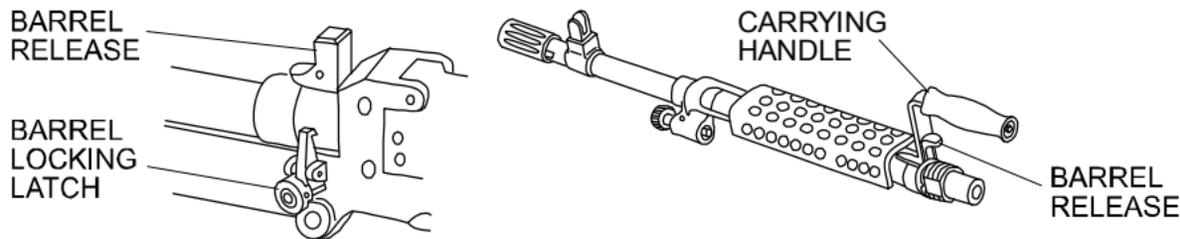
0021 00

Clear your machine gun. (WP 0010 00)\*.

Depress barrel locking latch and hold.

Turn barrel release/carrying handle to upright position.

Remove barrel. Push forward and lift out barrel.



2AN0043

\*To change barrels follow these four steps.

0021 00-1

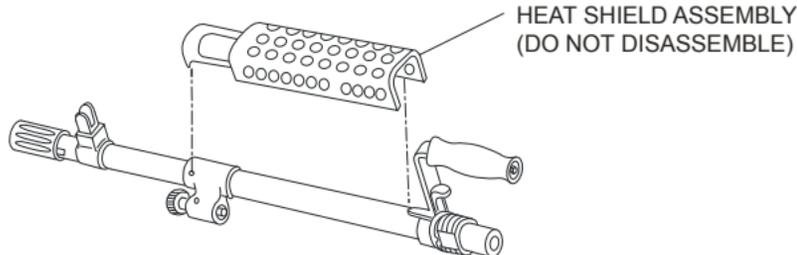
## MAINTENANCE PROCEDURES – FIELD STRIPPING (cont)

0021 00

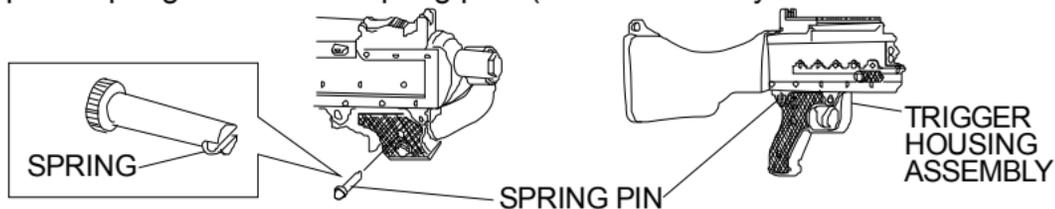
### CAUTION

Do not disassemble heat shield assembly.

M240B/M240L: Remove heat shield assembly from barrel. Lift rear of heat shield assembly off barrel then pry front tabs out of holes on gas hole bushing.



Depress spring and remove spring pin. (This can usually be done without tools).

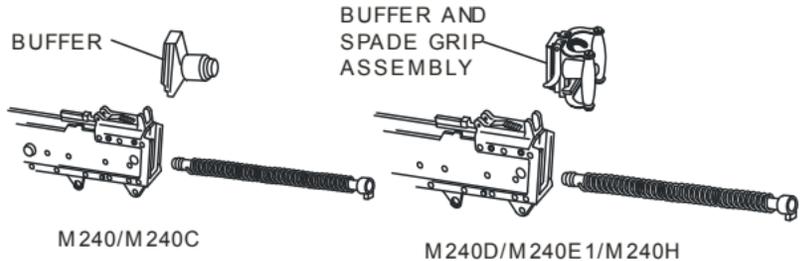


Change 5

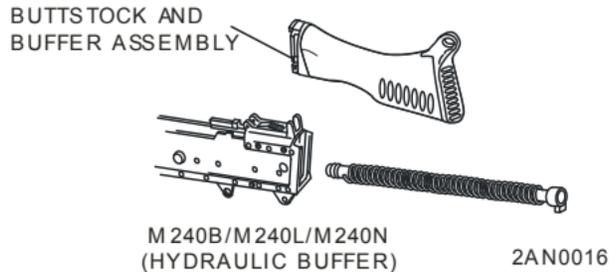
0021 00-2

2AN0045

Pull trigger housing down and back. Pull charge cable through cable guide (M240/M240C).



Depress back plate latch and lift buffer/buttstock and buffer assembly/ buffer and spade grip assembly straight up.



Depress driving spring in, up, and out.

If a flat surface is available, collapse the bipod legs.

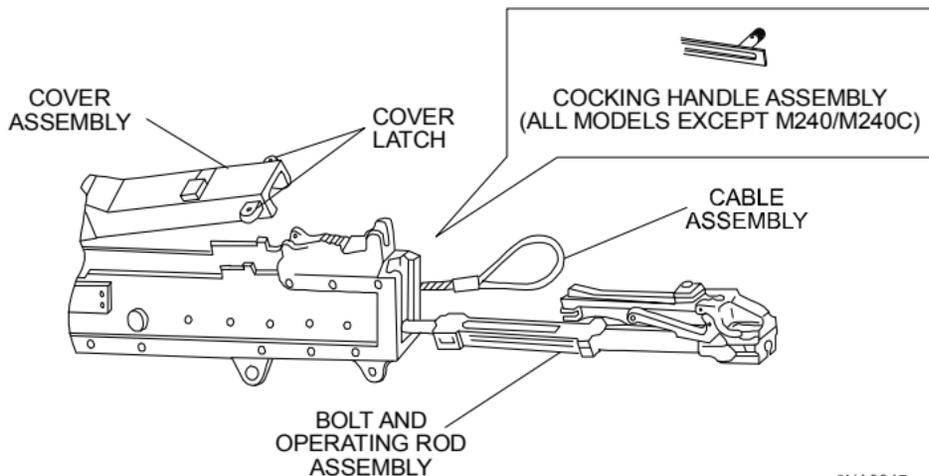
## WARNING

Protect hands/fingers when raising cover. Injury could result.

## MAINTENANCE PROCEDURES – FIELD STRIPPING (cont)

0021 00

Depress cover latches and raise cover assembly to first latching position. Pull cocking handle assembly, or charging handle assembly (M240/M240C) back; then pull bolt and operating rod assembly out.



2NA0047

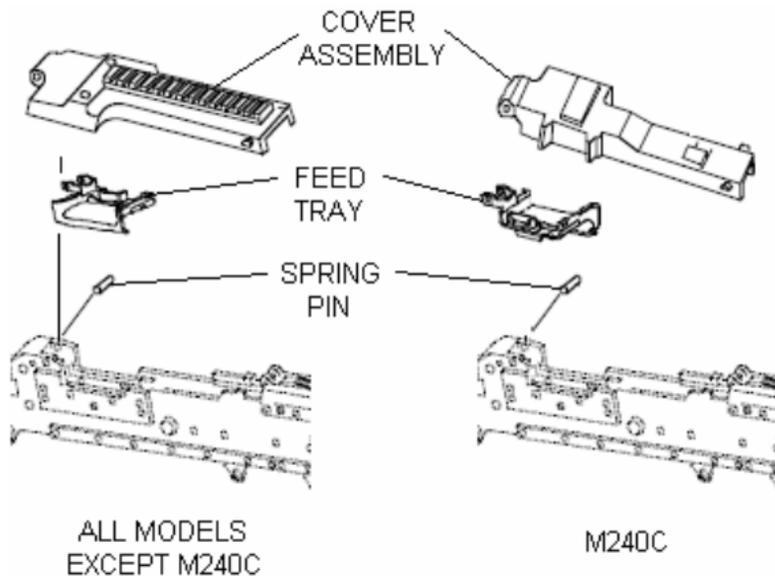
Change 5

0021 00-4

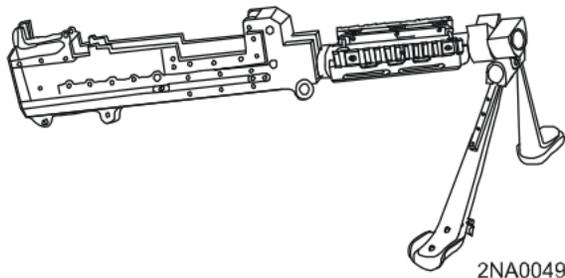
## CAUTION

Do not hit the cover pin with the back of the buffer or the pin will be damaged.

Push out spring pin as far as possible with the back of buffer. Then remove pin with fingers. Lift upward and remove cover assembly. Remove feed tray.



■ M240B/M240L: Extend bipod legs to down and locked position.



M240B/M240L

■ **END OF WORK PACKAGE**

**WARNING**

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

Eye protection is recommended when cleaning your weapon or its parts. ■

**CAUTION**

Using gasoline, kerosene, hydraulic oil, benzene, bensol, high-pressure water, steam, or air for cleaning is prohibited.

DO NOT use abrasives to clean the bore, piston, gas cylinder, or gas regulator plug.

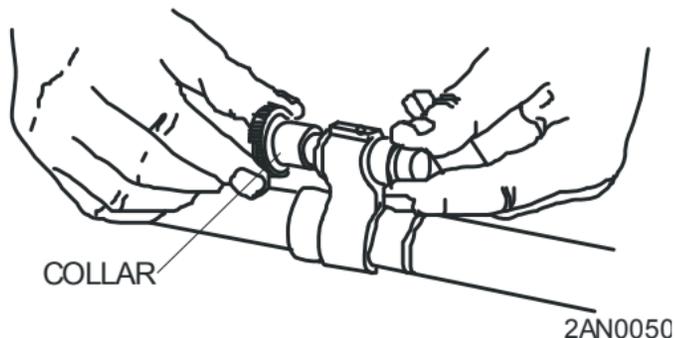
DO NOT submerge the buffer in any liquid. Wipe with clean wiping rag only.

DO NOT allow cleaning solvents to come in contact with the rubber handle of the charger cable (M240/M240C).

DO NOT apply lubricants to composite/rubber components.

**BARREL ASSEMBLY**

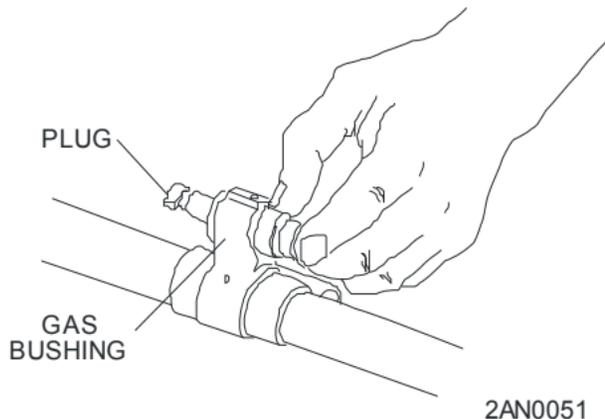
Press in and rotate collar counterclockwise until it releases, then pull it out.



## NOTE

If the plug cannot be removed by hand from the gas regulator, send the gun to unit maintenance for removal.

Pull gas regulator plug from gas hole bushing.



**BARREL ASSEMBLY (cont)**

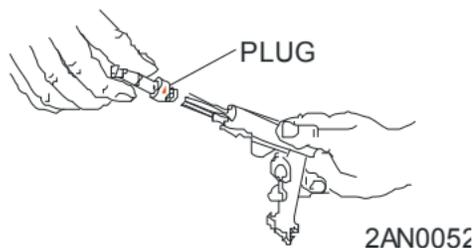
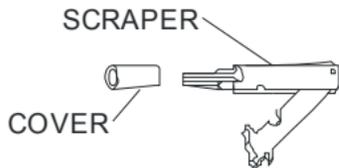
**USING SCRAPER TO REMOVE CARBON**

**WARNING**

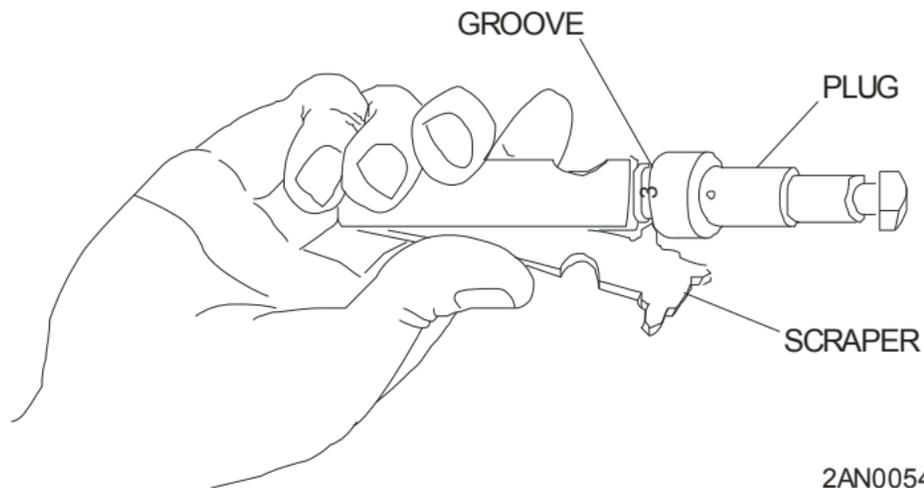
To avoid injury to your eyes, wear safety goggles to prevent carbon chips from flying into eyes.

Remove cover from scraper.

Insert scraper into center hole of gas regulator plug. Twist scraper clockwise to remove carbon from center hole until scraper is fully seated against gas regulator plug.



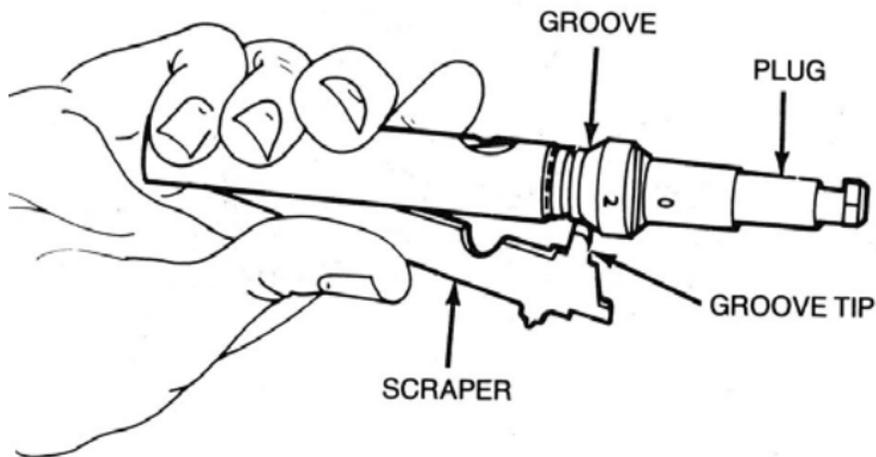
Fold scraper and press point into groove. Turn gas regulator plug clockwise to remove carbon from groove on gas regulator plug.



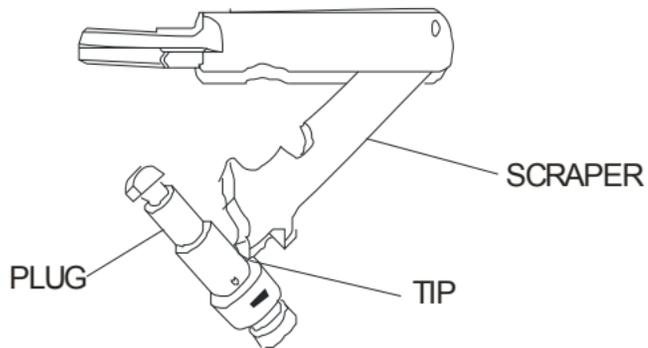
**BARREL ASSEMBLY (cont)**

**USING SCRAPER TO REMOVE CARBON (cont)**

Pivot scraper blade 180° to opposite side and place groove tip of scraper into groove of gas regulator plug and turn clockwise to remove carbon from groove on plug.



With tip of scraper, scrape carbon from surface of gas regulator plug.



2AN0055

**0022 00-7**

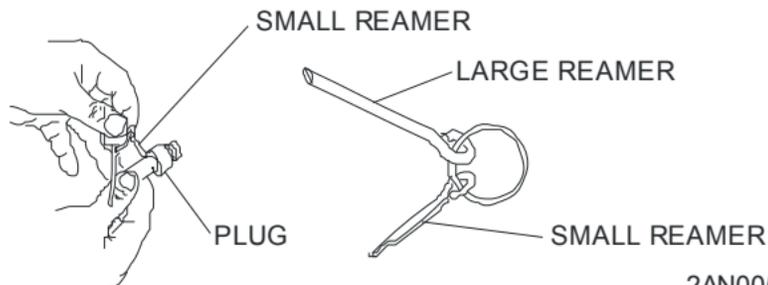
**BARREL ASSEMBLY (cont)**

**USING REAMER TO REMOVE CARBON**

**NOTE**

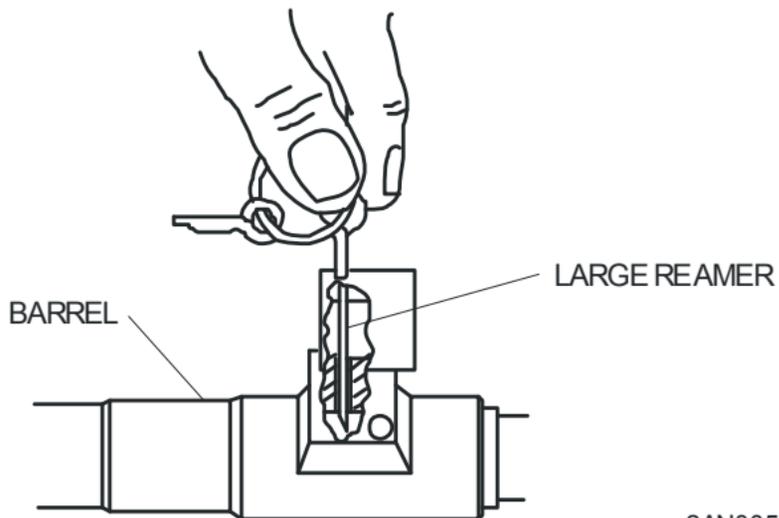
When using reamers, apply hand pressure only.

Insert small reamer into each gas inlet hole of gas regulator plug and twist back and forth to remove the carbon.



2AN0056

Insert large reamer through hole in gas port bushing into gas port hole in barrel; twist back and forth until reamer enters bore of barrel to remove carbon.



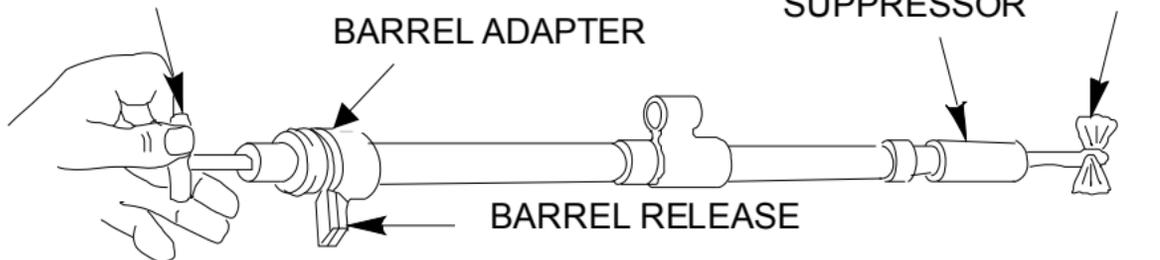
2AN0057

0022 00-9

**BARREL ASSEMBLY (cont)**

Remove dirt and corrosion from bore using cleaning rod and swab (item 8, WP 0040 00) dampened with CLP (item 1, WP 0040 00) or RBC (item 3, WP 0040 00). Remove dirt and corrosion from other parts using wiping rag, (item 7, WP 0040 00) dampened with CLP (item 1, WP 0040 00). Lightly lubricate with CLP (item 1, WP 0040 00), LAW (item 4, WP 0040 00), LSA (item 6, WP 0040 00), or LSA-T (item 5, WP 0040 00 (Marine Corp only)).

CLEANING ROD



Inspect for cracks, dents, burrs, or other damage on flash hider/suppressor, barrel adapter, carrying handle, barrel release and front sight.

**NOTE**

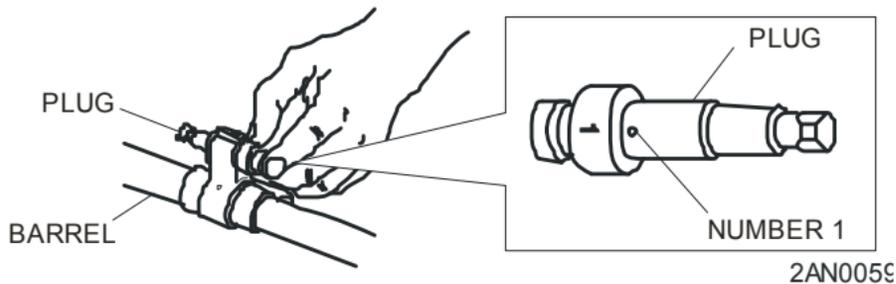
Primary setting for gas plug is setting #1 (refer to WP 0008 00).

M240B/M240L/M240H has single port gas plug (Army/Air Force only). ■

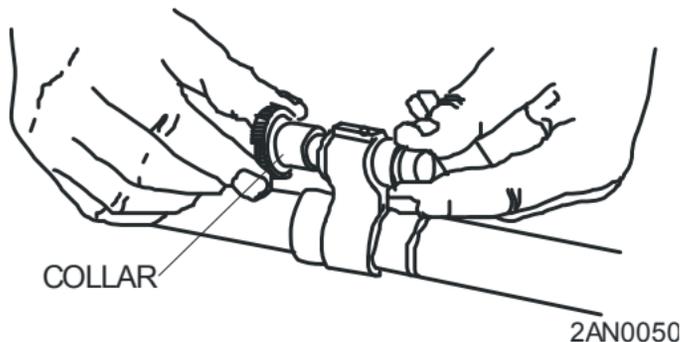
This design is intended to maintain a consistent rate of fire under adverse conditions and is not to increase the rate of fire. Gas inlet setting #1 is the only setting for normal conditions. Do not use ports 2 or 3.

**BARREL ASSEMBLY (cont)**

Place gas regulator plug with gas inlet setting #1 hole facing the barrel.



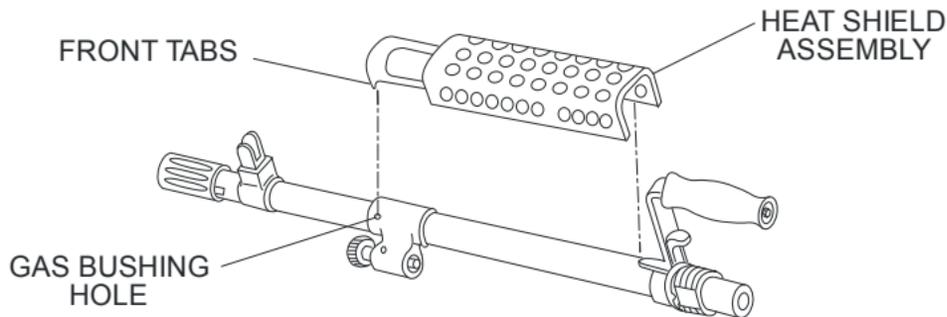
Install collar on gas regulator plug. Rotate collar until it slips onto gas regulator plug. Press in and rotate to lock in place (pull collar to be sure it is in the locked position).



## MAINTENANCE PROCEDURES – CLEANING, INSPECTION, AND REPAIR (cont)

0022 00

■ M240B/M240L: Install heat shield on barrel. Make sure front tabs snap into hole on gas bushing hole, then push down onto barrel.



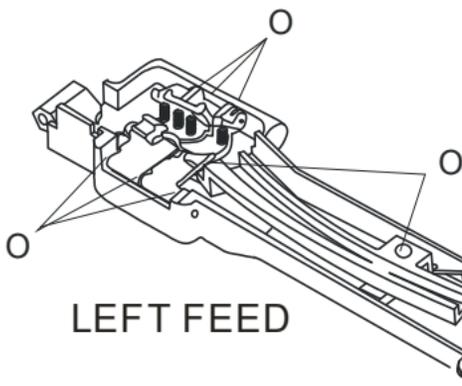
2AN0060

### CAUTION

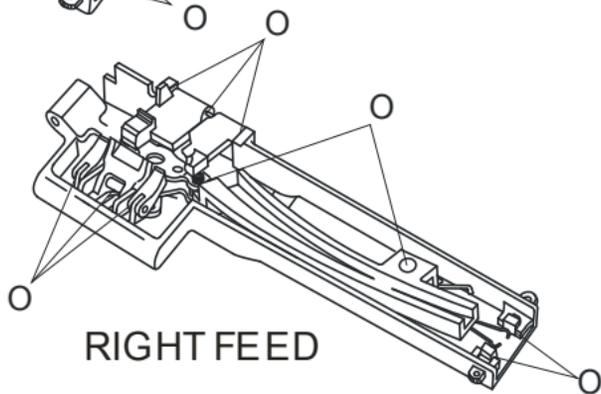
DO NOT use brushes when cleaning cover assembly, use clean rag only.

### COVER ASSEMBLY

Check cover assembly for smooth operation, spring tension, bent, or missing parts, or excessive wear.



LEFT FEED

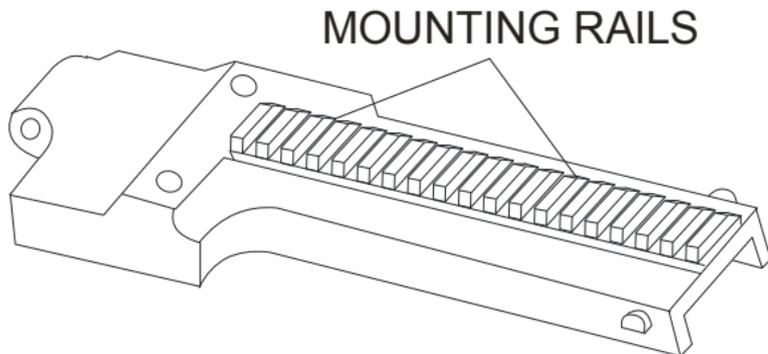


RIGHT FEED

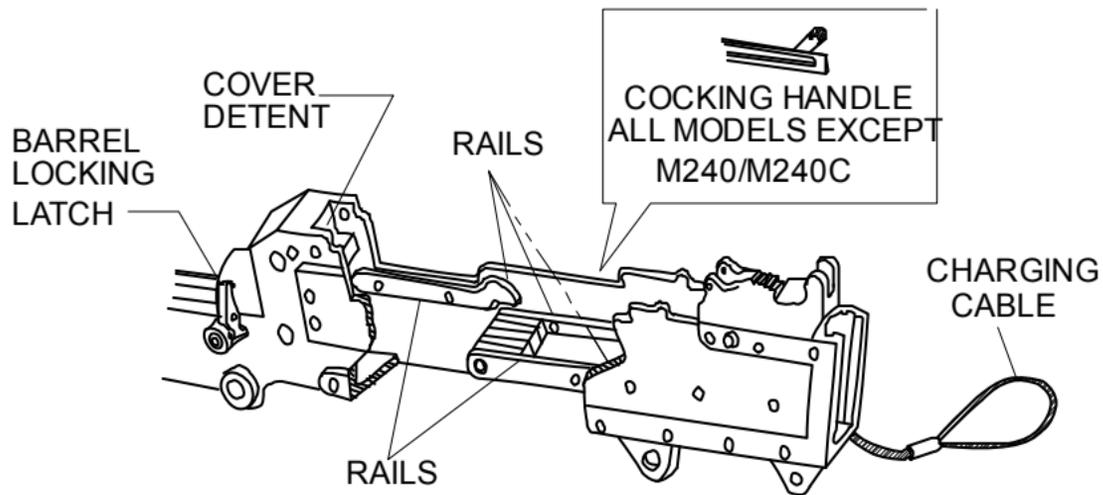
O - LIGHTLY LUBE MOVING PARTS

2NA0061

Check cover assembly for cracks or distortion. Check accessory mounting rail (if present) for nicks or burrs, which will prevent proper attachment of optional sighting devices.



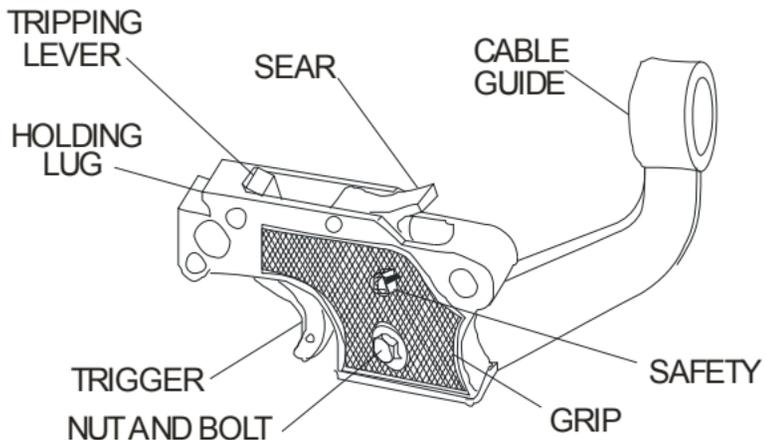
Check for bends, cracks, and free movement of cocking handle assembly or charger cable assembly (M240/M240C), and excessively worn, burred, or chipped rails. Check barrel locking latch and cover detent for proper spring tension.



0022 00-17

**TRIGGER ASSEMBLY**

M240/M240C: Check for broken grips, bent cable guide, loose nut and bolt, and chipped or cracked trigger housing holding lug.



2AN0063

Check tripping lever and sear for burrs, cracks, and wear. Notify field maintenance if problems exist.

### **NOTE**

To place safety to “S” safe, the sear must be up.

Put safety to “F.” Sear will rise. Pull trigger (sear will lower). Check cocking action by pushing back on tripping lever (sear will rise).

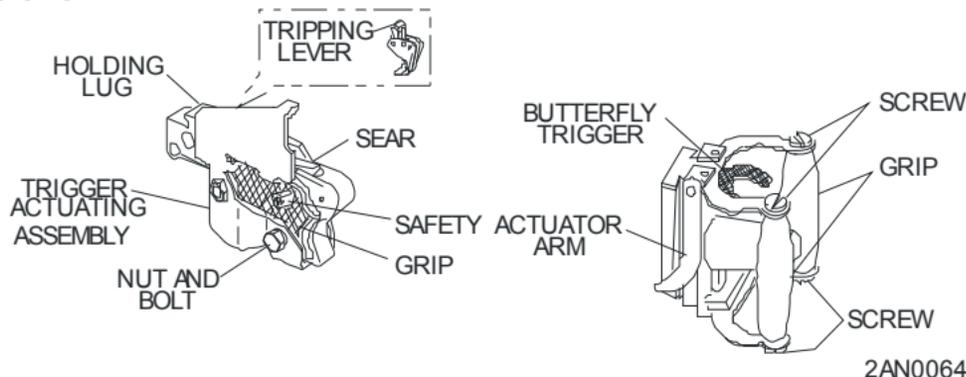
Check safety functions. When safety is placed to “S” safe, pull trigger (sear will not lower). When safety is placed to “F” fire, pull trigger (sear will lower).

Lightly lubricate tripping lever and sear surfaces.

## MAINTENANCE PROCEDURES – CLEANING, INSPECTION, AND REPAIR (cont)

0022 00

M240D/M240E1/M240H: Check for broken grips, and chipped or cracked trigger housing holding lug. Check for bent, cracked or broken trigger actuating assembly, butterfly trigger or actuating arm. Check for loose or missing nut, bolt and screws.



M240B/M240N/M240L: Check tripping lever and sear for burrs, cracks, and wear. Notify field maintenance if problems exist.

### NOTE

To place safety to “S” safe, the sear must be up.

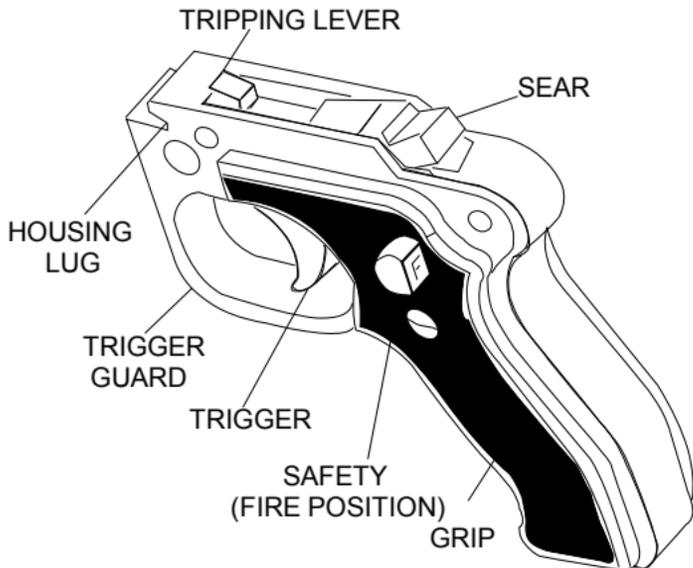
Put safety to "F." Sear will rise. Pull trigger (sear will lower). Check cocking action by pushing back on tripping lever (sear will rise).

Check safety functions. When safety is placed to "S" safe, pull trigger (sear will not lower). When safety is placed to "F" fire, pull trigger (sear will lower).

Lightly lubricate tripping lever and sear surfaces.

### **TRIGGER ASSEMBLY**

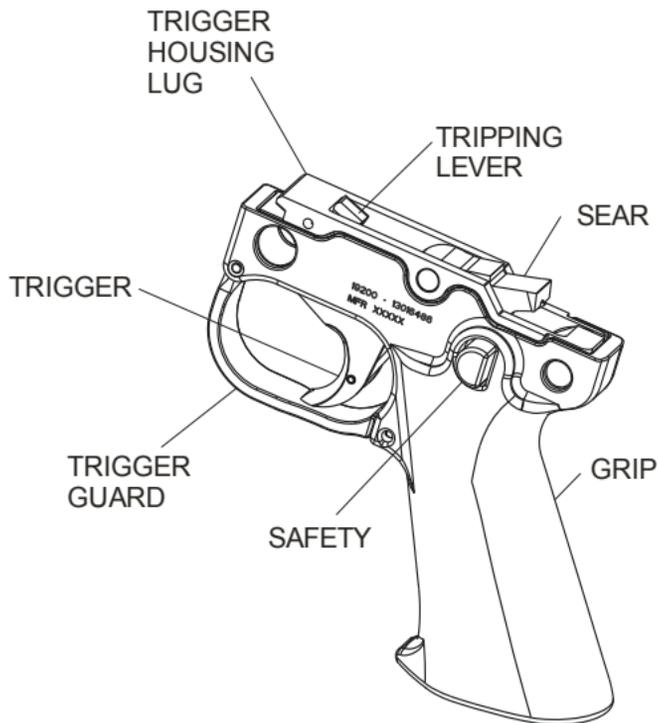
M240B/M240N: Check for broken grip(s), and chipped or cracked trigger housing lug. Ensure trigger guard does not interfere with full operation of trigger.



## MAINTENANCE PROCEDURES – CLEANING, INSPECTION, AND REPAIR (cont)

0022 00

M240L: Check for broken grip, and chipped or cracked trigger housing lug. Ensure trigger guard does not interfere with full operation of trigger.



## OPERATING ROD

### USING COMBINATION TOOL TO CLEAN CARBON FROM PISTON HEAD CAVITY

#### WARNING

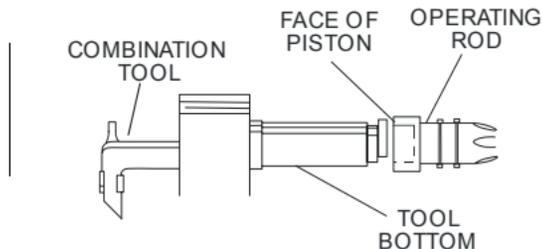
To avoid injury to your eyes, use care when removing or installing spring-loaded parts.

#### CAUTION

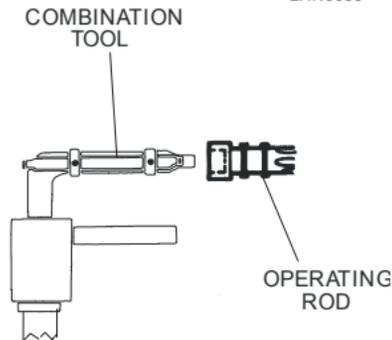
DO NOT use abrasives to clean the operating rod piston.

Be sure tool bottom is securely against face of piston.

Insert combination tool into bottom of cavity of piston end of operating rod. Squeeze handles firmly and twist combination tool clockwise to remove carbon.



2AN0066



0022 00-23

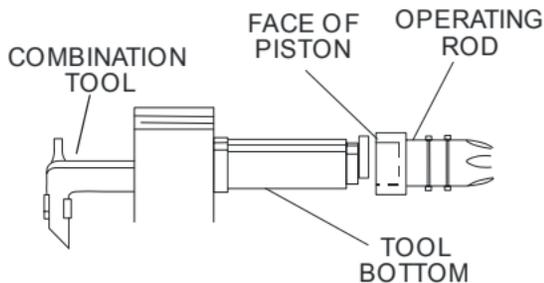
Change 5

## MAINTENANCE PROCEDURES – CLEANING, INSPECTION, AND REPAIR (cont)

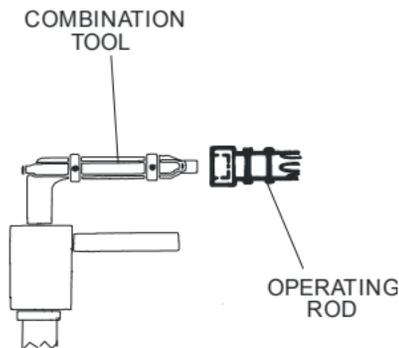
0022 00

Insert screwdriver end of combination tool into cavity of piston end of operating rod to remove carbon residue in bottom of cavity.

Clean all other areas of operating rod, firing pin, and spring pin, including driving spring pocket with wiping rag (item 7, WP 0040 00) dampened with CLP (item 4, WP 0040 00). Lightly lubricate after cleaning.



2AN0066



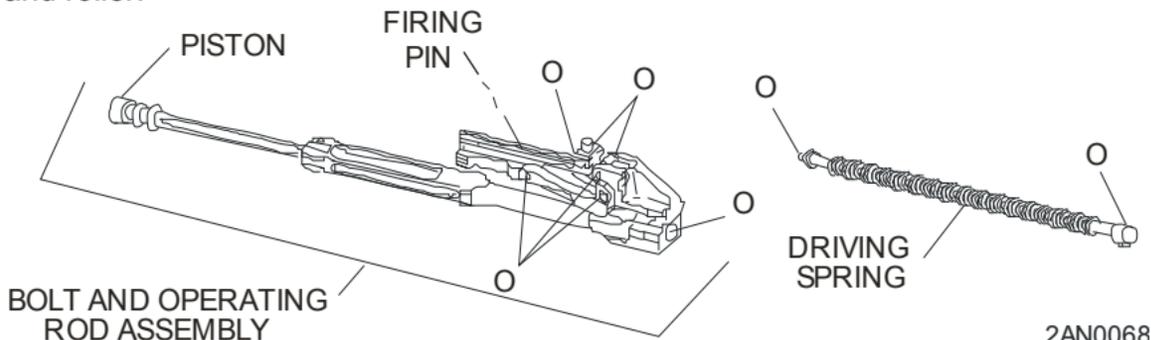
0022 00-24

Check bolt and operating rod assembly for burrs, cracks, broken pins, or frozen roller. Push down on roller to make sure it will retract. Check driving spring for broken strands. If two or more strands are broken on the same coil or three or more strands in any location, notify field maintenance.

### NOTE

DO NOT lubricate face of bolt. DO NOT lubricate piston.

O – Lightly lubricate entire driving spring. Lightly lubricate bolt and operating rod assembly moving parts, polished areas, ejector and extractor spring, firing pin, and roller.



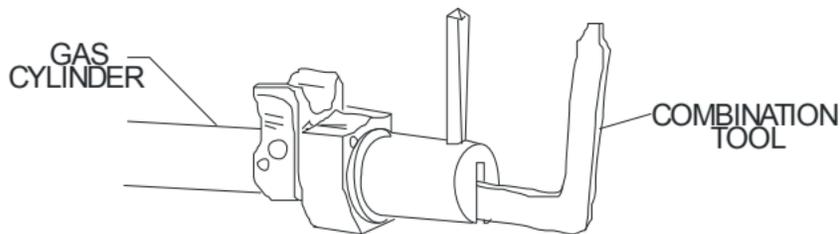
**RECEIVER**

**USING COMBINATION TOOL TO CLEAN GAS CYLINDER END OF  
RECEIVER BODY**

**CAUTION**

DO NOT use an abrasive to clean gas cylinder end of receiver.

Insert combination tool with handle upward carefully into the forward end of the gas cylinder of the receiver body.



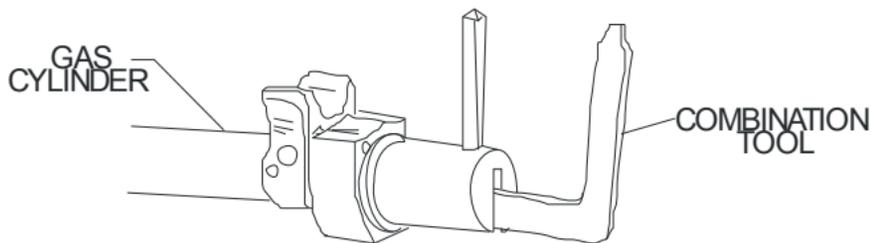
2AN0069

## CAUTION

If combination tool is not properly seated, it could cause damage to smaller diameter of gas cylinder.

Be sure the combination tool shoulder is fully inserted and seated against the forward end of gas cylinder in receiver body.

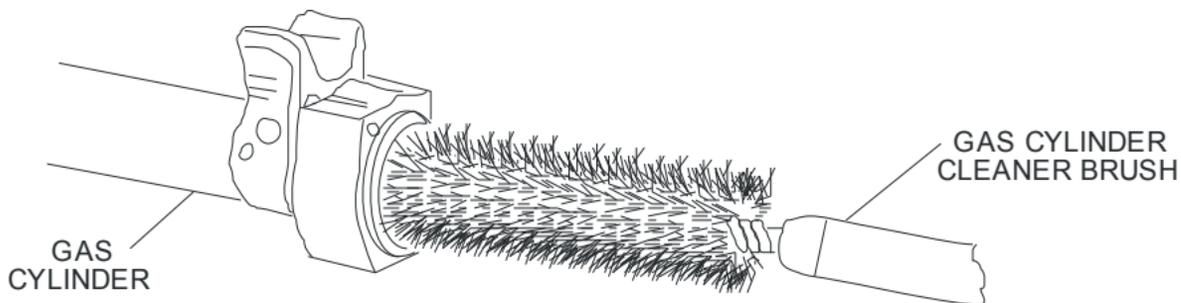
Apply slight pressure to handles and turn combination tool clockwise to remove carbon.



2AN0069

**RECEIVER (cont)**

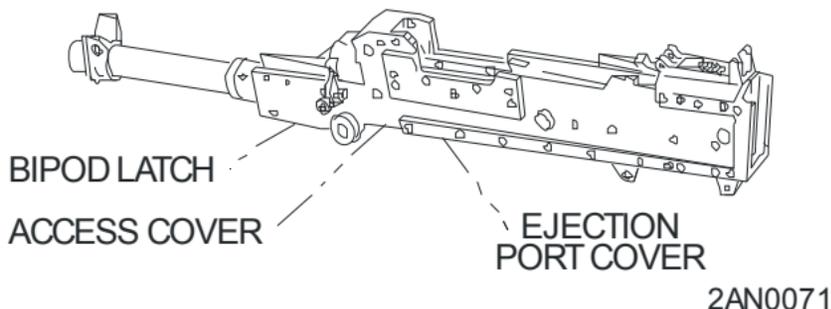
Clean gas cylinder bore with gas cylinder cleaning brush dampened with CLP (item 1, WP 0040 00) or RBC (item 3, WP 0040 00).



2AN0070

With wiping rag (item 7, WP 0039 00) dampened with CLP (item 1, WP 0040 00) or RBC (item 3, WP 0040 00), remove dirt and corrosion from area under front access cover of receiver and all other parts and areas.

Ensure proper operation of ejection port cover (M240B/M240L/M240H/M240N) and bipod latch (M240B).

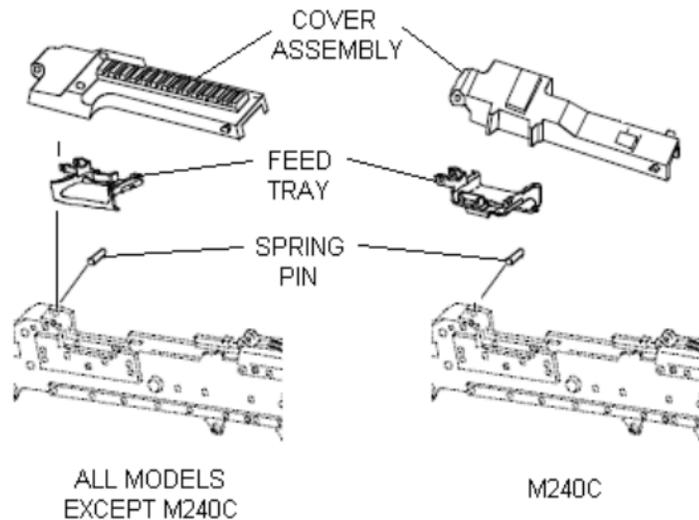


**END OF WORK PACKAGE**



Position feed tray and cover assembly on receiver; push cover assembly forward; close cover and insert spring pin.

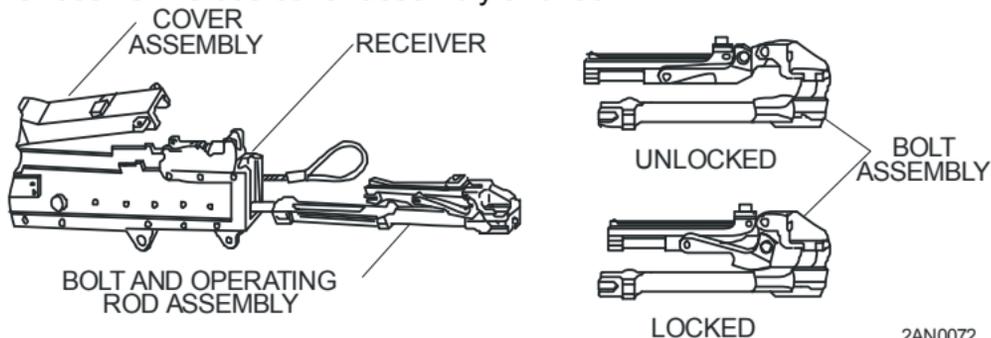
**NOTE**  
Insert spring pin from right side.



## MAINTENANCE PROCEDURES – REASSEMBLY (cont)

0023 00

Open top cover assembly. Set bolt and operating rod assembly on top of rails (inside receiver). Extend bolt to unlocked position; push the assembly all the way into the receiver. Close cover assembly and lock.



2AN0072

### WARNING

Eye protection is required when assembling springs and operating rods.

Insert driving spring into operating rod assembly. Push it in fully and lower it to seat the stud in hole of receiver.

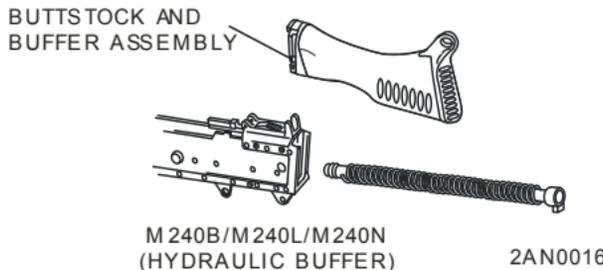
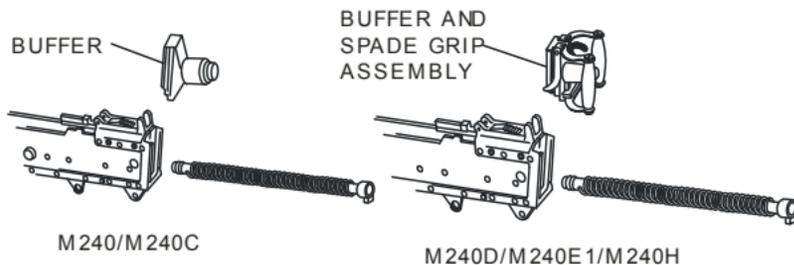
Change 3

0023 00-2

## NOTE

Be sure operating rod assembly is properly seated in receiver before operating weapon. Top of buffer/buffer and spade grip/buttstock should be flush with top of receiver.

Install buffer assembly/buffer or spade grip assembly/buttstock and buffer assembly and make sure it latches.



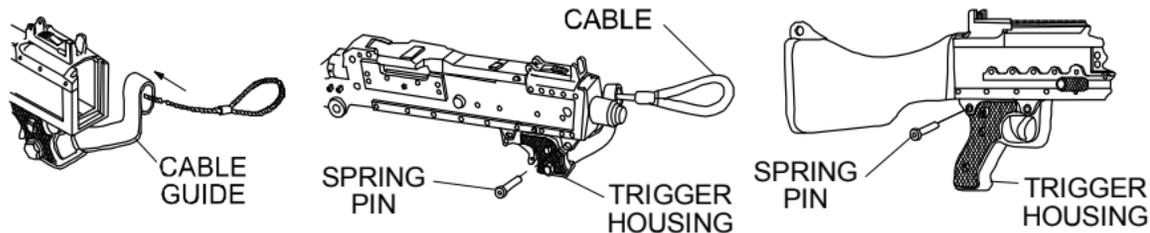
**NOTE**

Charger cable is on the M240/M240C models only.

Pin can be inserted from either side. For M240B/M240H/M240L/  
M240N insert from right side only.

Place trigger housing safety in fire “F” position; position front of housing  
assembly into place and pivot into position.

Slide charger cable (M240/M240C) through cable guide and position trigger  
housing assembly into place. While depressing detent, insert spring pin.



2AN0073

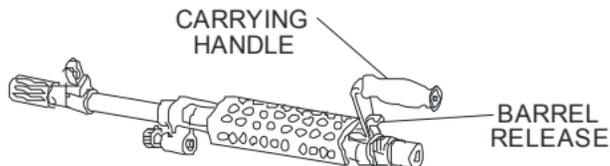
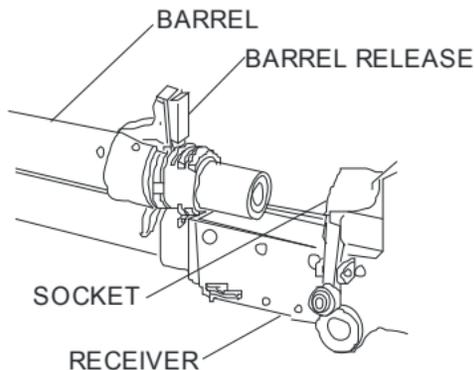
## WARNING

Before firing, make sure the barrel is locked tightly in receiver. If the barrel is not locked tight, threads in receiver could be damaged or cause personal injury.

## NOTE

Barrel must be in upright position when installing barrel.

Insert barrel fully into socket and push barrel release/barrel carrying handle clockwise as far as it will go.



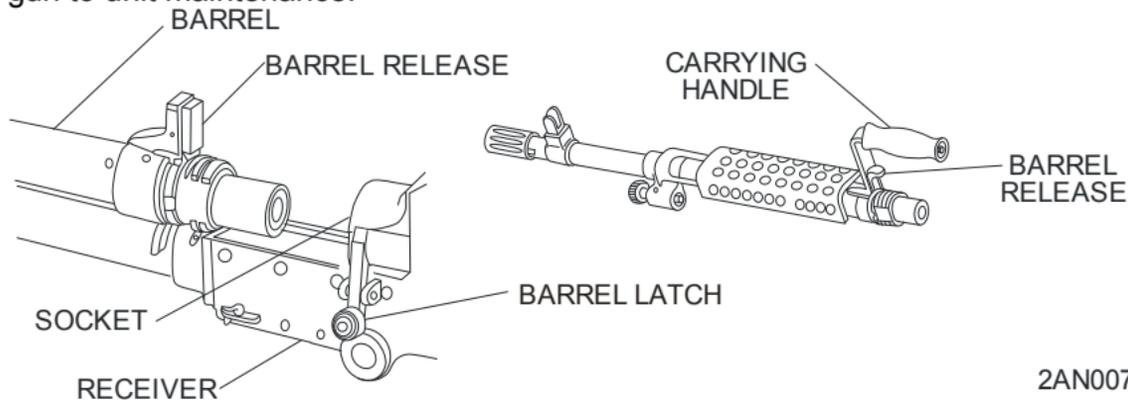
2AN007

0023 00-5

## MAINTENANCE PROCEDURES – REASSEMBLY (cont)

0023 00

Release barrel release/barrel carrying handle and return to upright position. Push barrel release/barrel carrying handle clockwise while counting the clicks (fewer than 2 or more than 7 clicks indicate defective parts) to lock. If barrel binds in socket or if barrel release/barrel carrying handle will not rotate when pushed, do not pound on barrel release/barrel carrying handle. Take machine gun to unit maintenance.



2AN0074

**END OF WORK PACKAGE**

**Change 5**

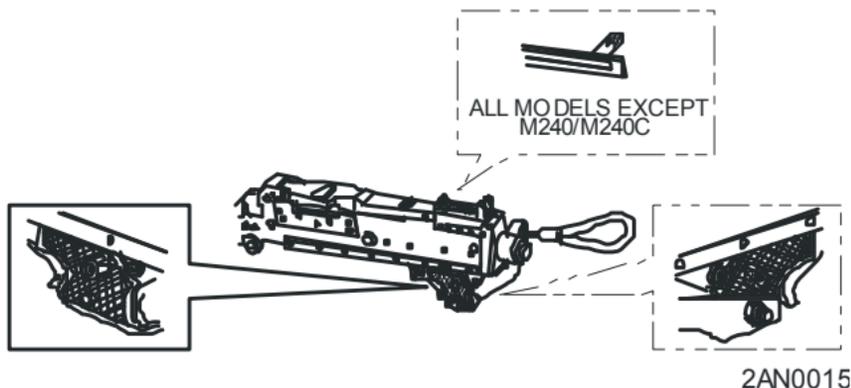
**0023 00-6**

## MAINTENANCE PROCEDURES – SAFETY/FUNCTION CHECK

0024 00

Place safety to “F” fire. Pull cocking handle (charger cable (M240/M240C)) completely to rear to lock bolt back. Return cocking handle to forward, locked position.

Place safety to “S” safe position (WP 0009), depress trigger, nothing should happen.



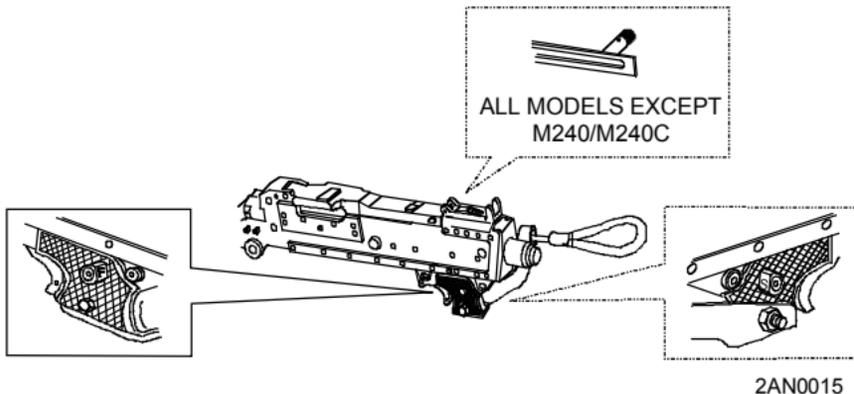
0024 00-1

Change 3

## MAINTENANCE PROCEDURES – SAFETY/FUNCTION CHECK (cont)

0024 00

Place safety to “F” fire. Hold cocking handle assembly (charger cable (M240/M240C)) to rear, fully depress trigger, and ease bolt forward to close and lock. Safety must not be able to be moved to the safe position.

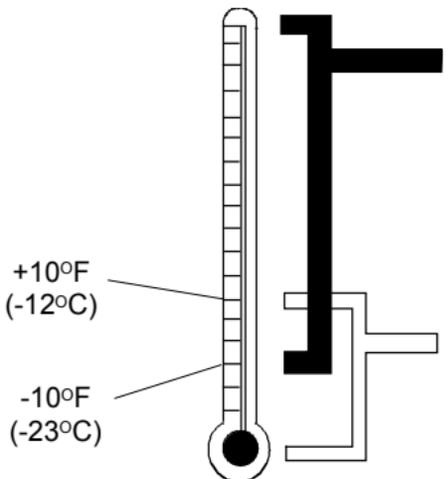


END OF WORK PACKAGE

Under all but the coldest arctic conditions, LSA (item 6, WP 0040 00), CLP (item 1, WP 0040 00), or LSA-T (item 5, WP 0040 00)(Marine Corps only), are the lubricants to use on your machine gun. Remember to remove excessive oil from the bore before firing.

**NOTE**

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



2AN0075

CLP – Cleaner, lubricant and preservative (item 1, WP 0040 00).

LSA – Weapons lubricating oil, semi-fluid (item 6, WP 0040 00).

LSA-T – Weapons lubricating oil, semi-fluid, with Teflon (item 5, WP 0040 00).

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

LAW – Weapons lubricating oil, artic (item 4, WP 0040 00).

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

## WARNING

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

After firing, field strip your machine gun (WP 0021 00). Clean bore and chamber with cleaning rod, chamber brush, bore brush, and swab (item 8, WP 0040 00) soaked with RBC (item 3, WP 0040 00) or CLP (item 1, WP 0040 00) until a clean swab can be run through the bore without getting dirty.



CLEANING ROD



SWAB



BORE BRUSH



CHAMBER BRUSH

2AN0076

Clean powder-fouled parts, except the buffer, with a wiping rag (item 7, WP 0040 00) dampened with RBC (item 3, WP 0040 00) or CLP (item 1, WP 0040 00).

Wipe dry and lube as required. Inspect and run a lightly oiled swab (item 8, WP 0040 00) through the bore and chamber (WP 0022 00).

If your machine gun isn't used, it still needs complete cleaning and lubing at least every 90 days. (Unusual conditions could shorten this interval.)

**GENERAL****NOTE**

Perform this adjustment procedure only if barrel assembly/front sight assembly has been replaced or if there is a new operator.

Proper trigger control is pulling the trigger all the way to the rear and then releasing completely. Squeezing the trigger can cause accelerated wear on the trigger tripping lever, sear, and operating rod leading to a run-away gun.

Check for the following prior to making adjustments:

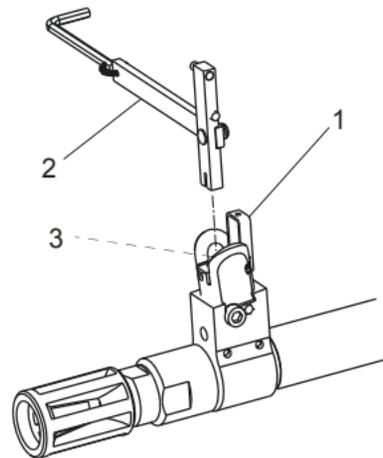
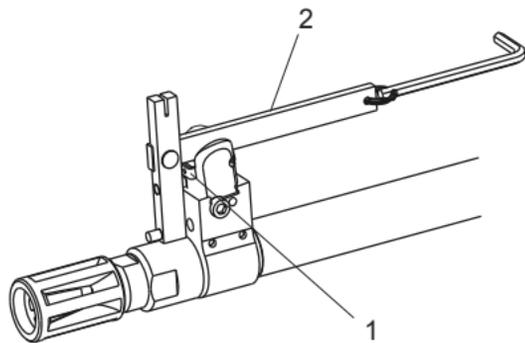
- Cleanliness of barrel front sight.
- Cleanliness of contact surfaces of the barrel adapter, barrel, and receiver.
- Rigidity and good condition of the slides and rear sight base.
- Correct assembly of flash hider/suppressor.
- Correct assembly of barrel to receiver.

**ADJUSTMENT OF SIGHT FOR ELEVATION**

Lift the front sight retaining strap (1) to the vertical position using the front sight adjustment tool (2).

Rotate the front sight blade (3) one or more half turns using the front sight adjustment tool (2).

- At a range of 10 meters, one-half turn of the front sight blade will move the strike of the round by approximately 0.5 cm (1/5 inch). One full turn will move the strike of the rounds by approximately 1.0 cm (approximately 3/8 inch).
- If the center of the shot group is above the point of aim, raise the front sight blade by turning it counter-clockwise.
- If the center of the shot group is below the point of aim, lower the front sight blade by turning it clockwise.



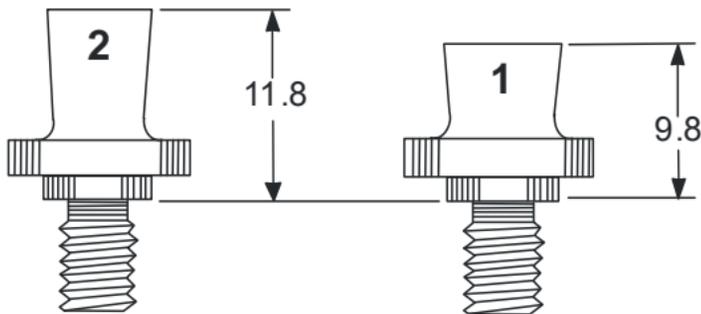
0026 00-3

Change 7

## ADJUSTMENT OF SIGHT FOR ELEVATION (cont)

**NOTE**

There are two types of front sight blades. The number 1 blade is 9.8 mm tall; the number 2 blade is 11.8 mm tall.



2AN0078

If the required correction cannot be obtained with the installed front sight blade, you may need to install the other blade.

- The maximum unscrewed position of either blade is where the base of the blade is flush with the front sight protector surface. If the center of the shot group is still above the point of aim with the number 1 blade unscrewed to the maximum position, remove it and install a number 2 blade. Start with the number 2 blade at a flush position, two full turns (clockwise) should approximate the same position as the number 1 blade.
- If the center of the shot group is still below the point of aim with the number 2 blade screwed all the way in (clockwise), remove it and install a number 1 blade. Starting with the number 1 blade screwed clockwise, two full turns (counter-clockwise) should approximate the same position as the number 2 blade.
- If the center of the shot group cannot be brought to the point of aim after trying both sight blades, the spare barrel (BII) should be used and a new barrel assembly acquired. If neither barrel assembly can be adjusted, the weapon should be coded and turned in through normal channels.

**ADJUSTMENT OF SIGHT FOR WINDAGE**

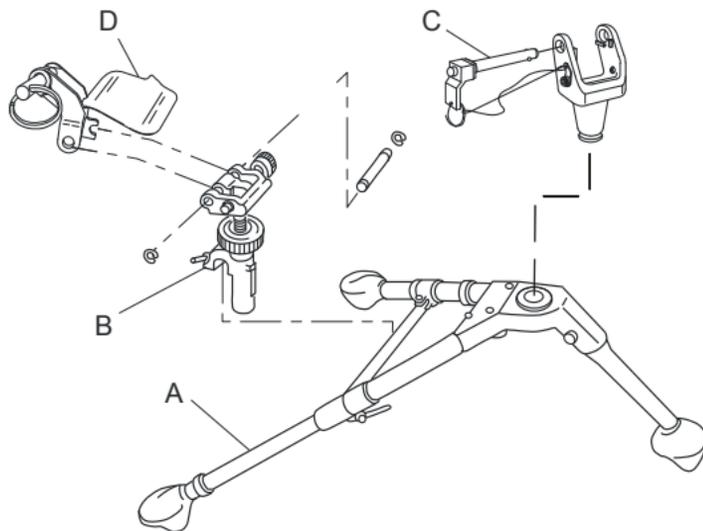
Move the front sight protector to the right or left according to the correction that is needed.

- At a range of 10 meters, one complete rotation ( $360^{\circ}$ ) of the adjusting screws will move the center of the shot group 0.8 cm (approximately 1/3 inch).
- If the center of the shot group is to the left of the point of aim, move the front sight protector to the left. To move the front sight protector to the left, first unscrew the screw on the left side (looking from the rear of the weapon) of the sight protector more than the number of turns needed for the sight correction. Then screw in the right side of the front sight protector the desired number of turns. Finally screw in the left side of the sight protector fully home.

- If the center of the shot group is to the right of the point of aim, move the front sight protector to the right. To move the front sight protector to the right, first turn the hex adjusting screw on the right counter-clockwise to loosen it the desired amount. Then turn the hex adjusting screw on the left side clockwise the same number of turns to tighten.



- A – Tripod Leg Assembly.**
- B – Traversing and Elevating (T&E) Mechanism.**
- C – Pintle Mount**
- D - Fork Assembly**



2AN0079

**END OF WORK PACKAGE****0027 00-1/2 blank**

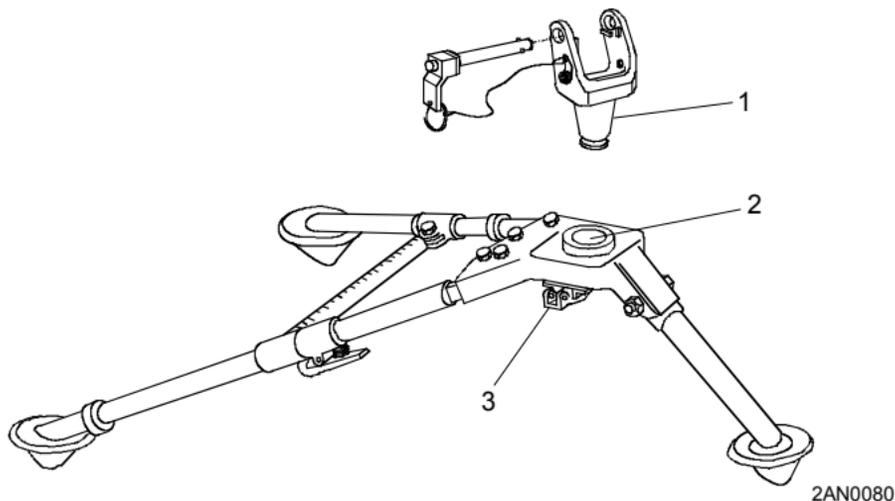


## MOUNTING T&E MECHANISM AND PINTLE ASSEMBLY TO TRIPOD (M122A1)

0028 00

Place the pintle assembly (1) into the sleeve bushing on the tripod leg assembly (2).

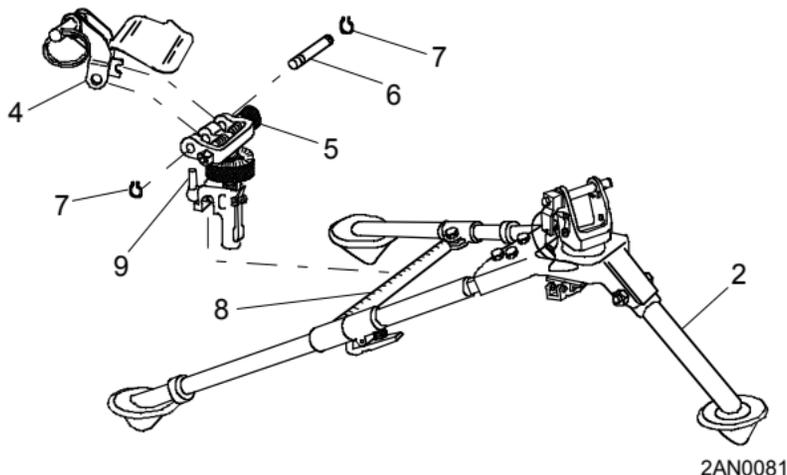
Release the pintle lock (3) on tripod leg assembly to secure the pintle assembly to the tripod.



**NOTE**

Deflector on fork assembly should deflect to the right.

If not already assembled, align holes in fork assembly (4) with holes in T&E (5).  
Insert pin (6) through fork assembly and T&E and secure with "C" clamps (7).



Place T&E assembly (5) (with the fork assembly attached) onto the traverse bar (8) of tripod leg assembly (2). Lock T&E mechanism into place by turning lock lever (9) clockwise.

**NOTE**

For maintenance and repair of the M122A1 tripod, refer to TM 9-1005-245-13&P.

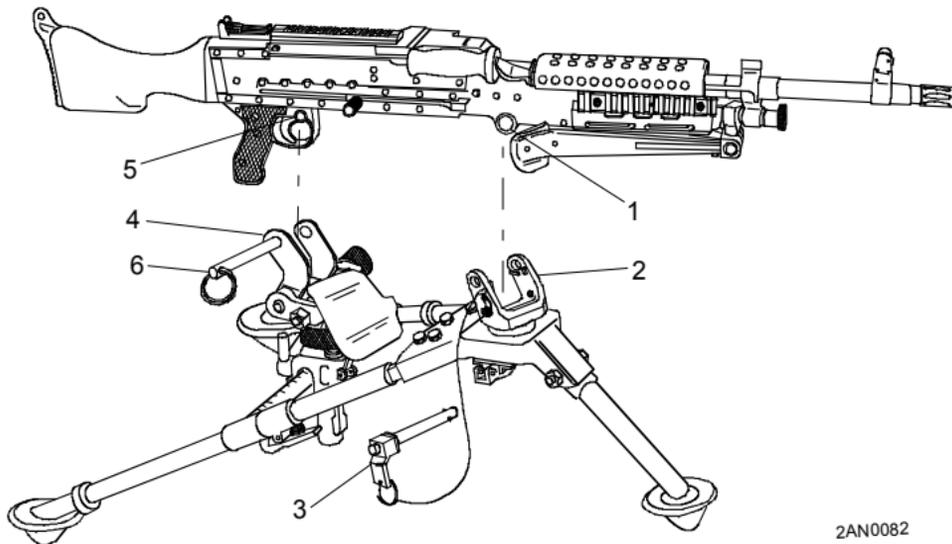
**END OF WORK PACKAGE**



# MOUNTING WEAPON ON M122A1 TRIPOD ASSEMBLY

0029 00

Position weapon over tripod assembly with T&E mechanism and pintle installed.

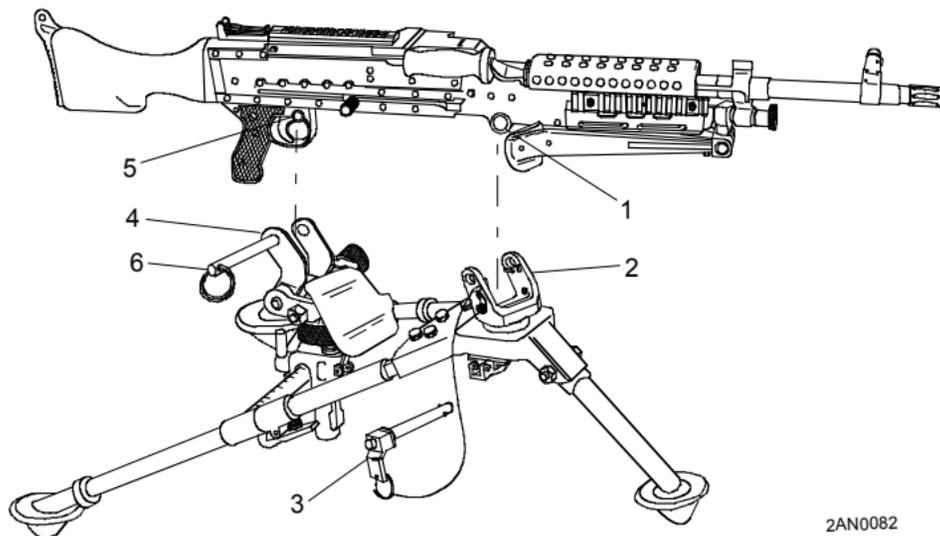


2AN0082

## MOUNTING WEAPON ON M122A1 TRIPOD ASSEMBLY (cont)

0029 00

Tilt muzzle down slightly and insert the weapons front receiver bushing (1) into the slots in the pintle assembly (2). Insert quick release pin (3) through pintle (2) and front receiver bushing (1).



2AN0082

Lower the rear of the weapon into the fork assembly (4). Align the mounting hole (5) in trigger housing with hole in fork assembly (4).

Insert spring pin (6) through the holes in trigger assembly and fork, insuring weapon is securely attached.

**END OF WORK PACKAGE**

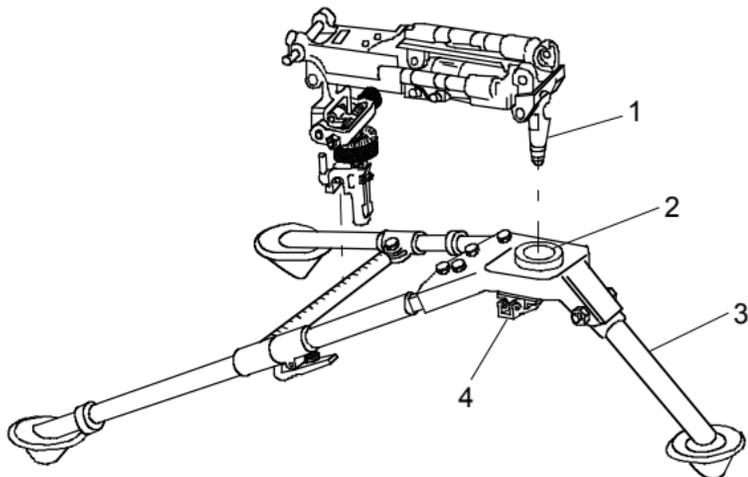


## MOUNTING T&E MECHANISM AND FLEXIBLE MOUNT ASSEMBLY TO M122 TRIPOD

0030 00

Place the pintle (1) of the flexible mount assembly into the sleeve bushing (2) on the tripod leg assembly (3).

Release the pintle lock (4) on tripod leg assembly to secure the flexible mount assembly to the tripod leg assembly (3).



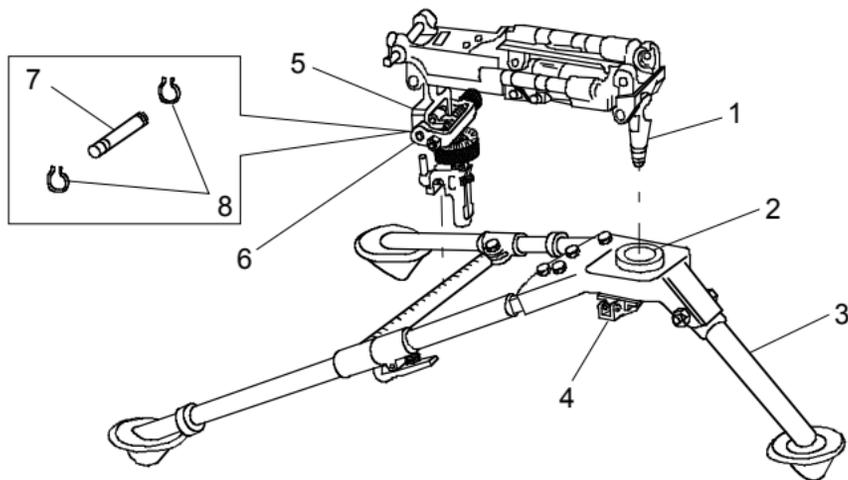
2AN0084

0030 00-1

## MOUNTING T&E MECHANISM AND FLEXIBLE MOUNT ASSEMBLY TO M122 TRIPOD (cont)

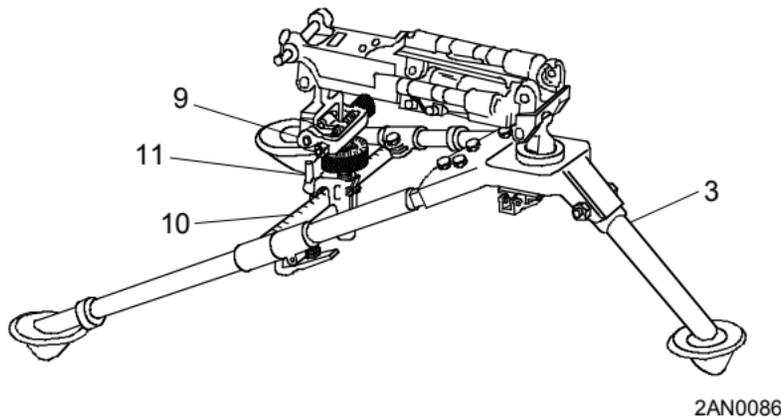
0030 00

If not already assembled, align holes in flexible mount T&E cradle bracket (5) with holes in T&E (6). Insert pin (7) through cradle bracket and T&E and secure with "C" clamps (8).



2AN0085

Place T&E assembly (9) (with the flex mount assembly attached) onto the traverse bar (10) of tripod leg assembly (3). Lock T&E mechanism into place by turning lock lever (11) clockwise.



**0030 00-3**

**MOUNTING T&E MECHANISM AND  
FLEXIBLE MOUNT ASSEMBLY TO M122 TRIPOD (cont)**

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**0030 00**

**NOTE**

For maintenance and repair of M122 tripod and T&E, refer to TM 9-1005-245-13&P.

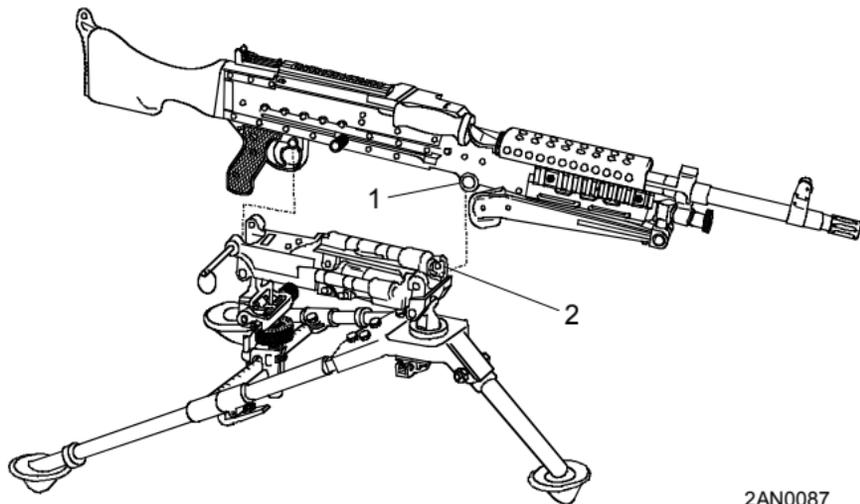
**END OF WORK PACKAGE**

## MOUNTING WEAPON ON FLEXIBLE MOUNT ASSEMBLY AND M122 TRIPOD

0031 00

Position weapon over tripod assembly with flexible mount and T&E mechanism installed.

Tilt muzzle down slightly and insert the weapons front receiver bushing (1) into the front cradle slot of the flexible mount assembly (2). Pull the weapon to the rear to fully seat the receiver bushings in the cradle.



2AN0087

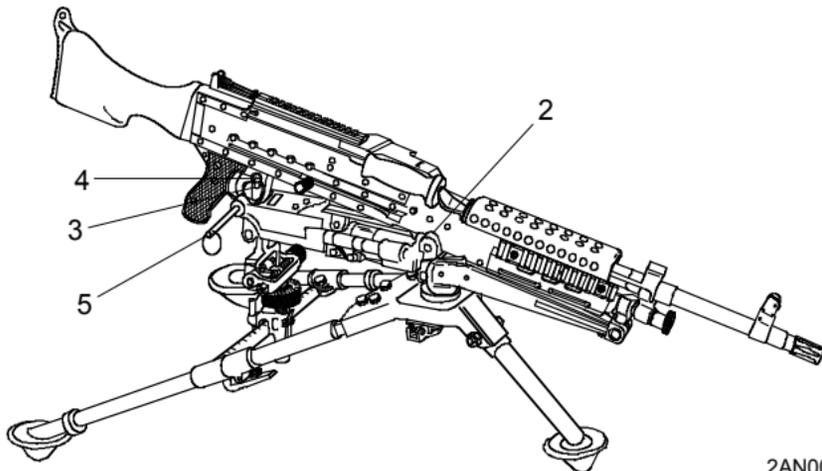
0031 00-1

## MOUNTING WEAPON ON FLEXIBLE MOUNT ASSEMBLY AND M122 TRIPOD

0031 00

Lower the rear of the weapon onto the flexible mount assembly (2). Align the mounting hole (3) in trigger housing with hole in the flexible mount (4).

Insert spring pin (5) through the hole in the flexible mount and receiver assembly. Ensure weapon is securely attached to the flex mount.



2AN0088

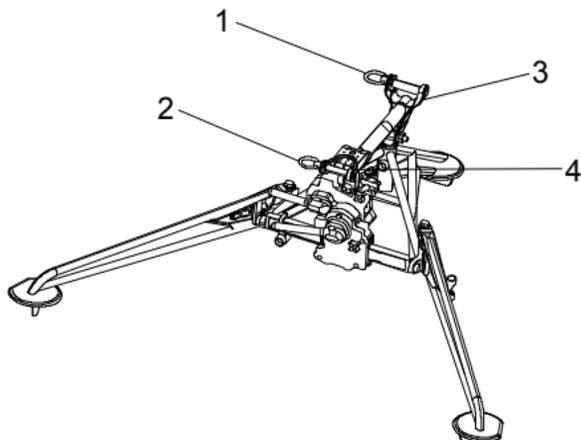
**END OF WORK PACKAGE**

0031 00-2

**NOTE**

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

Pull quick release pins (1 and 2) to the left. Insert front mounting point of weapon into front (3) of mounting bracket and secure with quick release pin (1). Lower the weapon (butt stock) down into rear yoke (4) and secure with quick release pin (2) to the rear mounting point of weapon. Ensure pin rings are not lodged between weapon and mounting bracket. Reverse procedure to remove weapon.

**END OF WORK PACKAGE**



## **MOUNTING WEAPON ON M6/M7 PEDESTAL MOUNT AND M197 MACHINE GUN MOUNT**

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**0032 00**

The weapon can be mounted on a M998 High Mobility Multipurpose Wheeled Vehicle (HMMWV) (Cargo/Troop Carrier).

### **WARNING**

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

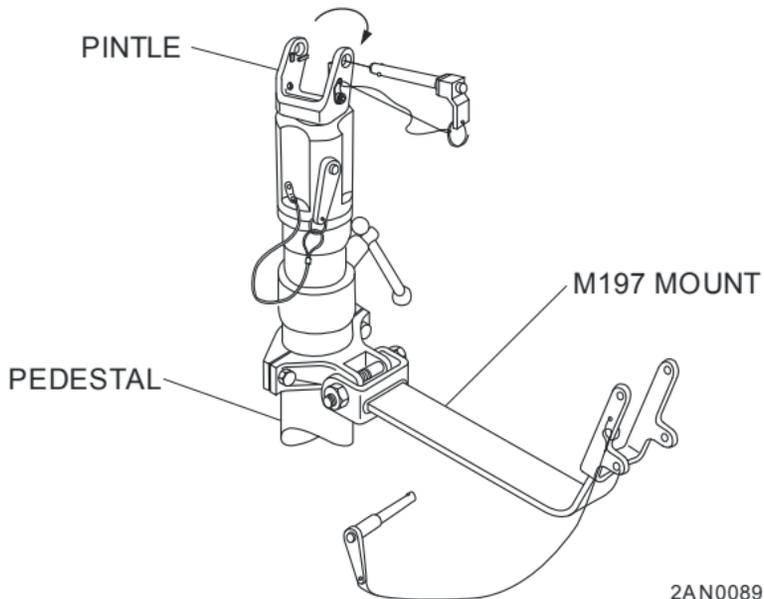
The canvas cover above the driver and passenger seats should always be in place when firing.

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

## MOUNTING WEAPON ON M6/M7 PEDESTAL MOUNT AND M197 MACHINE GUN MOUNT (cont)

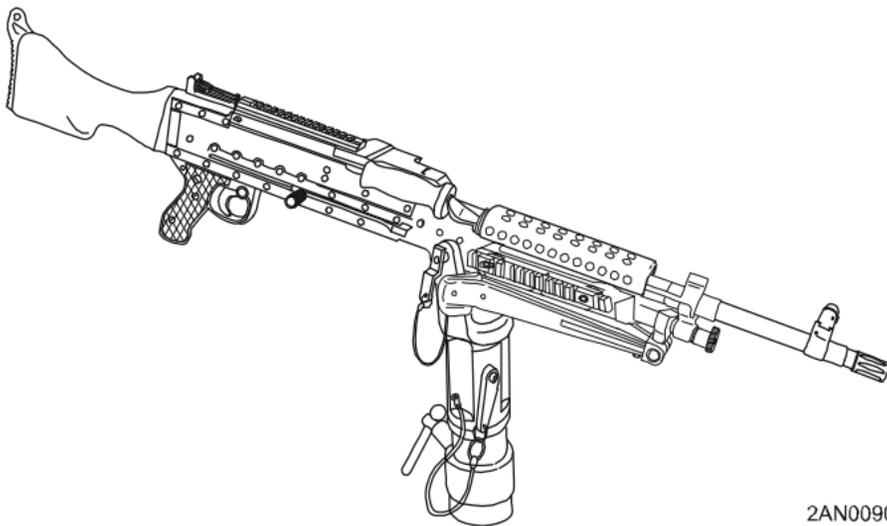
0032 00

Assure clevis of pintle assembly slants to rear.



2AN0089

Place weapon in pintle, aligning the front receiver bushing with the holes in the pintle and secure with quick release pin.



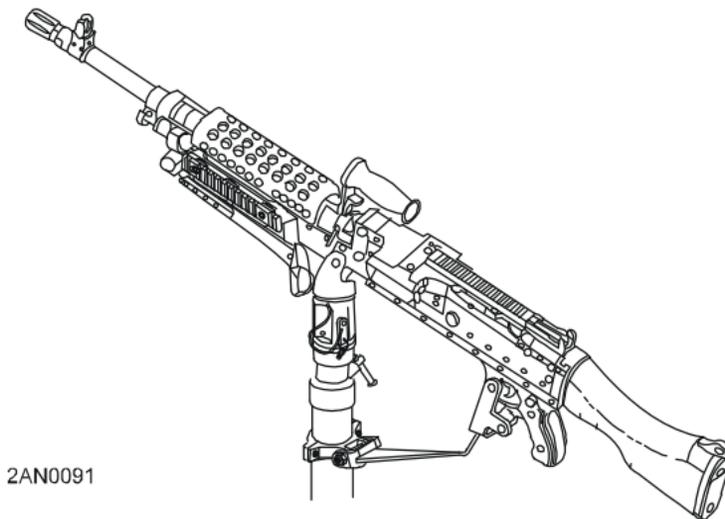
2AN0090

**0032 00-3**

## MOUNTING WEAPON ON M6/M7 PEDESTAL MOUNT AND M197 MACHINE GUN MOUNT (cont)

0032 00

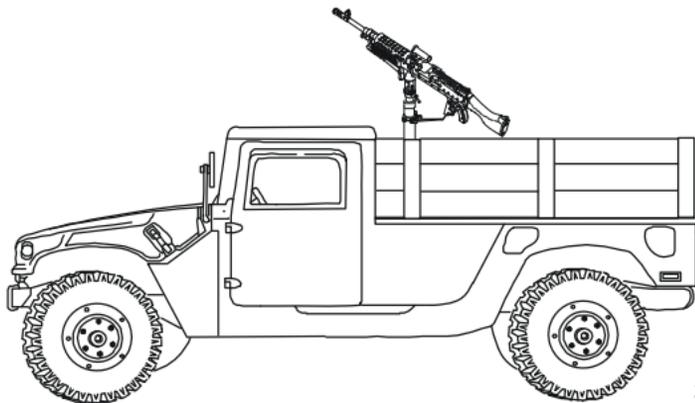
Align the mounting hole in the trigger housing with the holes in the fork of the mount and secure with quick release pin.



2AN0091

## CAUTION

When the weapon is not in use it should be removed from the pedestal or secured by the travel lock.



2AN0092

0032 00-5

**■ MOUNTING WEAPON ON M6/M7 PEDESTAL MOUNT  
AND M197 MACHINE GUN MOUNT (cont)**

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**0032 00**

**NOTE**

For mounting instructions of M6 Pedestal and M197 Mounts in M998 HMMWV's refer to TM 9-1005-245-13&P.

For maintenance and repair of M7 Pedestal and M197 Mounts, refer to TM 9-1005-245-13&P.

**END OF WORK PACKAGE**



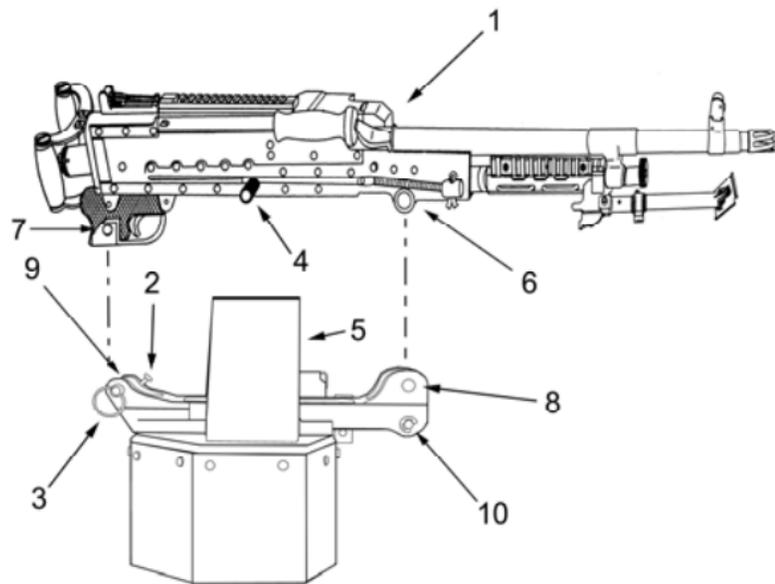
**INSTALL M240H MACHINE GUN (1).**

Depress plunger (2) and pull rear retaining pin ring (3) outward.

Pull charging handle (4) slightly rearward to clear link eject chute (5).

Align front (6) and rear (7) mounting holes on machine gun (1), with upper forward (8) and aft (9) holes of the cradle assembly (10).

Depress plunger (2), and push rear retaining pin (3) inward. Release plunger (2), to secure weapon to cradle assembly (10).



0032 01-3/-4 blank



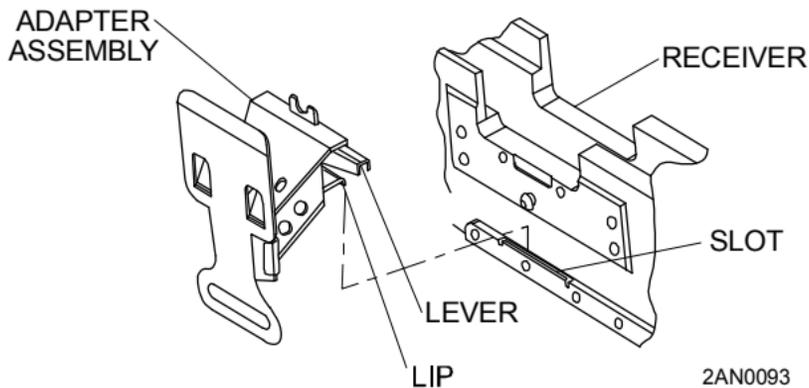
## ATTACHMENT OF AMMUNITION ADAPTER ASSEMBLY (M240B/M240L)

0033 00

Open cover, and raise feed tray.

Insert curved lip of the adapter assembly into slot located in the rail on the side of receiver, below feed tray.

Depress lever on the adapter assembly.



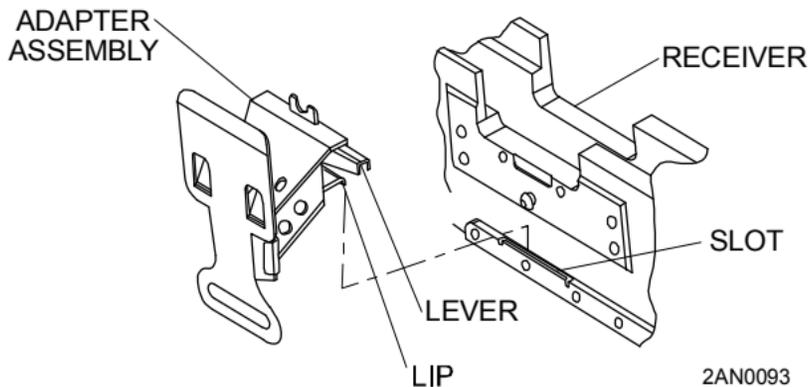
## ATTACHMENT OF

## AMMUNITION ADAPTER ASSEMBLY (M240B/M240L) (cont)

0033 00

Push the adapter toward the receiver until it is against the receiver.

Release lever to allow the adapter assembly to secure itself onto the button on the receiver.



**END OF WORK PACKAGE**

2AN0093

Change 5

0033 00-2

**M24 BLANK FIRING ADAPTER  
(M240B/M240D/M240L/M240H/M240N) AND  
M21 BLANK FIRING ATTACHMENT (M240/M240C/M240E1)**

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0034 00

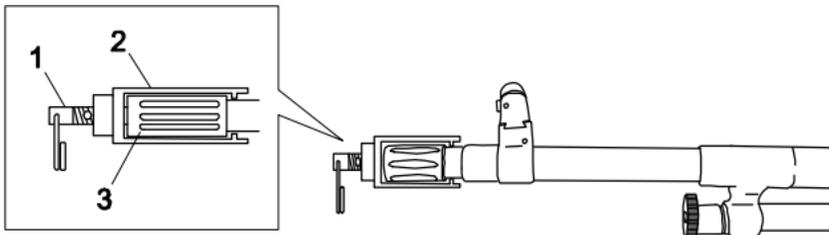
**M24 BLANK FIRING ADAPTER**

**NOTE**

Each weapon requires two, M24 BFA's (primary and spare barrel).

**ATTACHMENT**

Unscrew shaft (1) until it slides all the way to the rear. Install chamber device (2) over the flash suppressor (3).



2AN0094

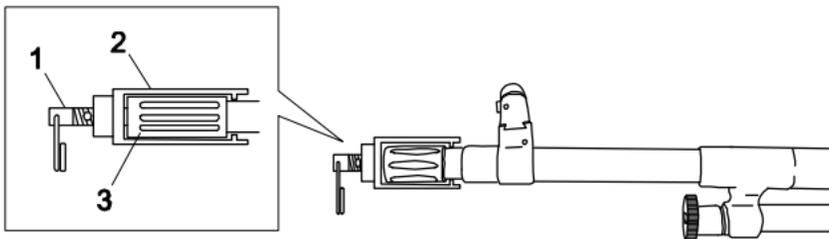
0034 00-1

Change 5

**M24 BLANK FIRING ADAPTER (M240B/M240D/M240L/M240H/M240N) AND  
M21 BLANK FIRING ATTACHMENT (M240/M240C/M240E1) (cont) 0034 00**

**M24 BLANK FIRING ADAPTER (cont)**

Slide shaft (1) into throat of flash suppressor. Engage threads on shaft into body of chamber device (2); turn clockwise until hand tight.



2AN0094

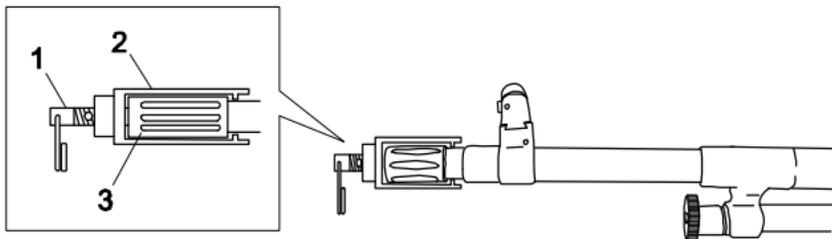
## REMOVAL

### NOTE

Allow barrels to cool until they can be held with bare hands prior to removing the chamber device from the barrel.

Hold barrel and rotate chamber body (2) approximately 180° to break any carbon seal between the shaft (1) and the suppressor (3).

Unscrew shaft (1) until threads disengage. Remove chamber device from flash suppressor (3).



2AN0094

0034 00-3

**M24 BLANK FIRING ADAPTER (M240B/M240D/M240L/M240H/M240N) AND  
M21 BLANK FIRING ATTACHMENT (M240/M240C/M240E1) (cont) 0034 00**

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**M21 BLANK FIRING ATTACHMENT**

The following restrictions must be observed to avoid hazardous concentrations of gases caused while firing the M240 Machine Gun with the M21 BFA. A blank-fire mission is limited to 200 rounds fired at a rate of 100 rounds per minute or less in 25-round bursts with gas regulator on weapon set at position number 1.

Table 1 identifies vehicle operating mode/mission restriction requirements.

**Table 1. Operating Mode Firing Restrictions**

Vehicle System	Engine On Heater Off Hatches Open Blower On	Engine Off Heater Off Hatches Open Blower On	Engine On Heater On Hatches Closed Blower On
M2/M3 BFVS	None	7 times/24 hours	14 times/24 hours
LAV 25 (Coax)	None	7 times/24 hours	14 times/24 hours
M1 Series Tank (Coax)	None	34 times/24 hours	48 times/24 hours

Effective use of the M21 BFA/M240 Machine Gun system is greatly dependant on adherence to the installation instructions and mission scenario limits in the instructions.

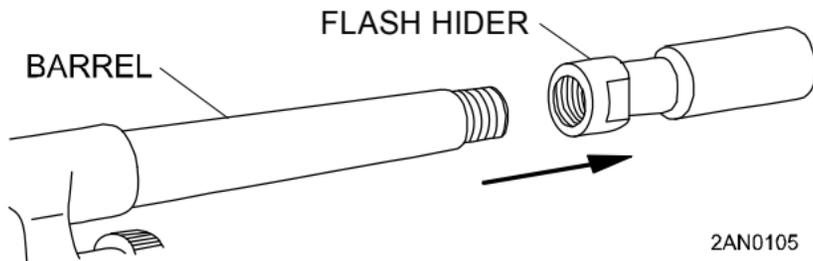
**M24 BLANK FIRING ADAPTER (M240B/M240D/M240L/M240H/M240N) AND  
M21 BLANK FIRING ATTACHMENT (M240/M240C/M240E1) (cont) 0034 00**

**ATTACHMENT OF CHAMBER AND DISCRIMINATOR ASSEMBLY  
(M2/M3 BFV/M1 SERIES TANK/LAV 25 SERIES (USMC))**

**CAUTION**

Take care not to damage threads on end of barrel. Barrel must be completely cooled before removing flash hider or attaching BFA.

Using 23mm box/open end combination wrench, remove flash hider from barrel of weapon. Store flash hider in ordnance spare parts bag and place in oddment tray in vehicle. Be sure to tag flash hider so it will remain with the barrel.

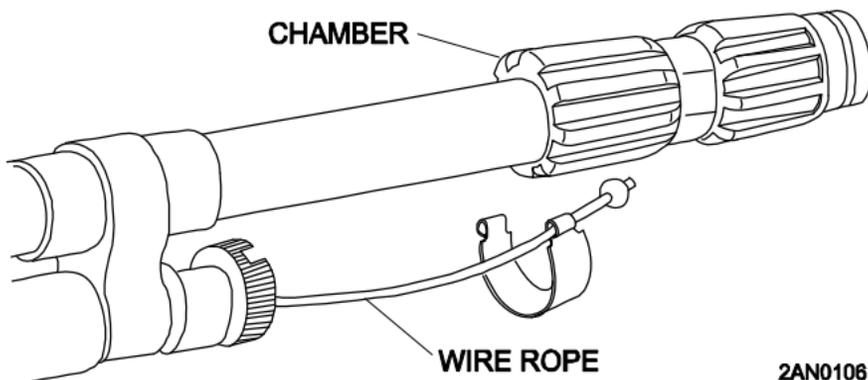


2AN0105

Remove wire rope assembly from chamber.

Screw chamber onto end of barrel and tighten with box/open-end wrench.

Reattach wire rope assembly onto chamber



2AN0106

**M24 BLANK FIRING ADAPTER (M240B/M240D/M240L/M240H/M240N) AND  
M21 BLANK FIRING ATTACHMENT (M240/M240C/M240E1) (cont) 0034 00**

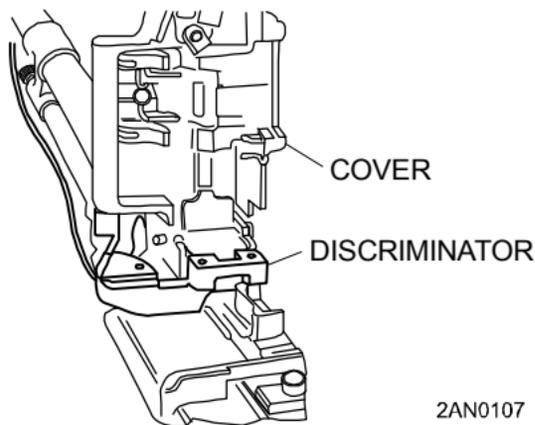
**ATTACHMENT OF CHAMBER AND DISCRIMINATOR ASSEMBLY  
(M2/M3 BFV/M1 SERIES TANK/LAV 25 SERIES (USMC))**

**WARNING**

Discriminator must be in place in feed tray of machine gun when M21 BFA is in use to prevent live ammo from entering the barrel chamber.

Open cover on receiver and place discriminator in feed tray with slot in discriminator over front lip of tray.

Closing the cover will retain the discriminator in place.



2AN0107

## **INSTALLATION OF WEAPON ONTO VEHICLE**

Install M240C Machine Gun into BFV mount per TM 9-2350-252-10.

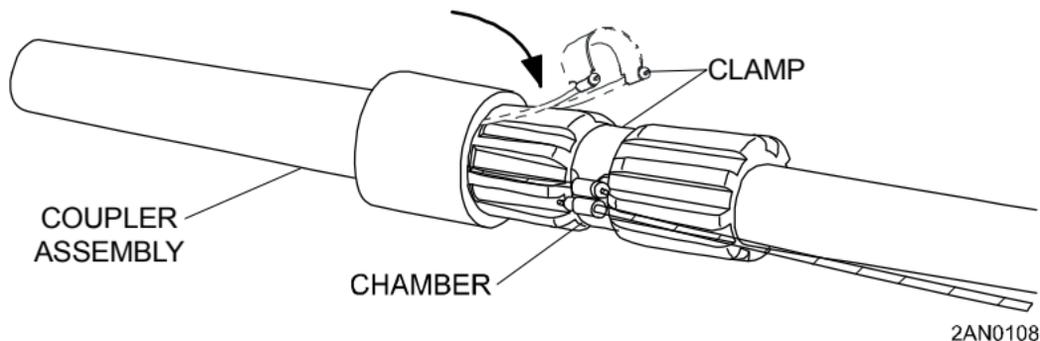
Install M240 Machine Gun onto exterior mount (M1 Tank) per TM 9-2350-255-10, or into LAV 25 per TM 08594A-10/2 (USMC only).

Install M240E1 Machine Gun onto LAV 25 exterior mount per TM 08594A-10/2 (USMC only).

**M24 BLANK FIRING ADAPTER (M240B/M240D/M240L/M240H/M240N) AND  
M21 BLANK FIRING ATTACHMENT (M240/M240C/M240E1) (cont) 0034 00**

**INSTALLATION OF COUPLER ASSEMBLY AND EXTENSION ASSEMBLY  
ON M240 (M1 TANK COAX ONLY)**

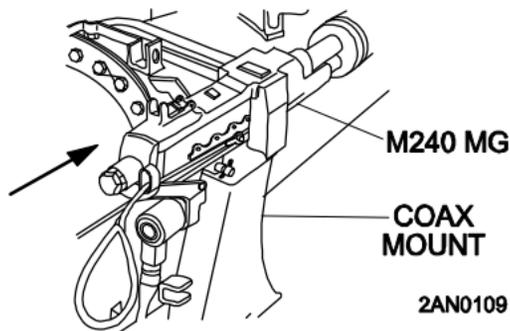
Place coupler assembly over the chamber and clip coupler assembly clamp to hold in place.



## NOTE

If BFA/coupler assembly catches in smoke box, shake gun slightly as you slide it forward.

Install M240 Machine Gun onto coax mount of M1 Series tank.



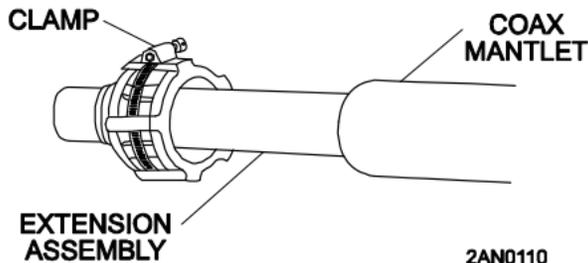
On outside of turret, loosen clamp on extension assembly so that the inside diameter of the extension assembly will clear the outside diameter of the coax mantlet. Do not remove clamp from extension assembly.

**M24 BLANK FIRING ADAPTER (M240B/M240D/M240L/M240H/M240N) AND  
M21 BLANK FIRING ATTACHMENT (M240/M240C/M240E1) (cont) 0034 00**

**INSTALLATION OF COUPLER ASSEMBLY AND EXTENSION ASSEMBLY  
ON M240 (M1 TANK COAX ONLY) (cont)**

Slide extension assembly into coax mantlet until extension is over end of coax mantlet and bottomed. If resistance is encountered during installation, shake extension assembly slightly while sliding into coax mantlet. Fully seat extension assembly in place over the coax mantlet.

With clamp positioned over slots in extension assembly, tighten until strap is snug against the mantlet.



## **REMOVAL OF WEAPON FROM VEHICLE**

Remove M240C Machine Gun from BFV mount per TM 9-2350-252-10.

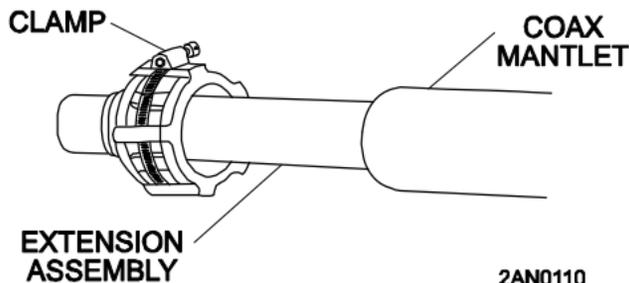
Remove M240 Machine Gun from exterior mount (M1 Tank) per TM 9-2350-255-10, or into LAV 25 per TM 08594A-10/2 (USMC only).

Remove M240E1 Machine Gun from LAV 25 exterior mount per TM 08594A-10/2 (USMC only).

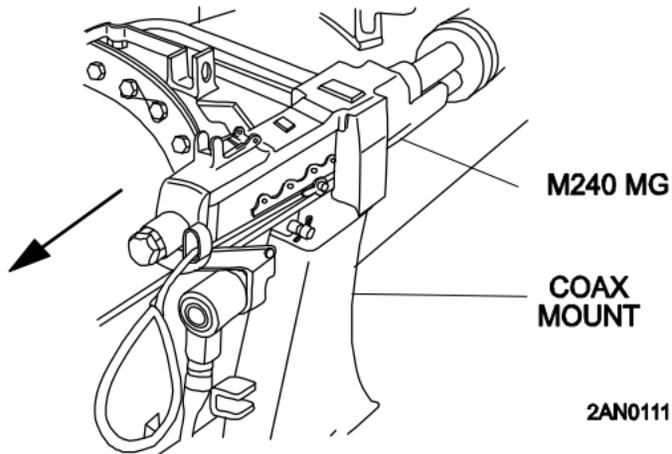
**M24 BLANK FIRING ADAPTER (M240B/M240D/M240L/M240H/M240N) AND  
M21 BLANK FIRING ATTACHMENT (M240/M240C/M240E1) (cont) 0034 00**

**REMOVAL OF COUPLER ASSEMBLY AND EXTENSION ASSEMBLY ON  
M240 (M1 TANK COAX ONLY)**

Loosen clamp. Slide extension assembly out of coax mantlet. Tighten clamp on extension assembly.



Remove M240 from coax mount per TM 9-2350-255-10.

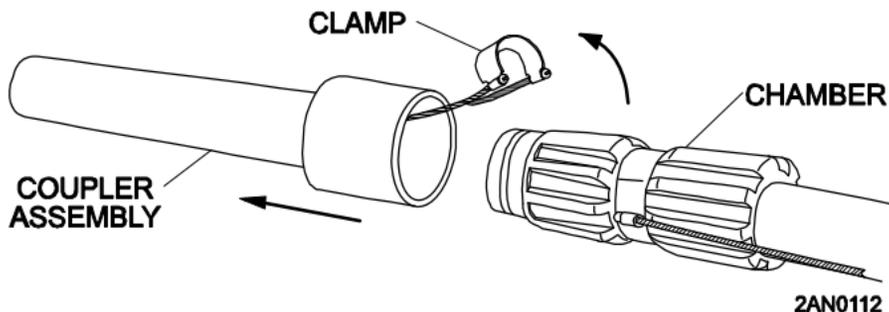


0034 00-15

**M24 BLANK FIRING ADAPTER (M240B/M240D/M240L/M240H/M240N) AND  
M21 BLANK FIRING ATTACHMENT (M240/M240C/M240E1) (cont) 0034 00**

**REMOVAL OF COUPLER ASSEMBLY AND EXTENSION ASSEMBLY ON  
M240 (M1 TANK COAX ONLY)**

Unclip coupler assembly from chamber and remove (M1 Series Tank only).

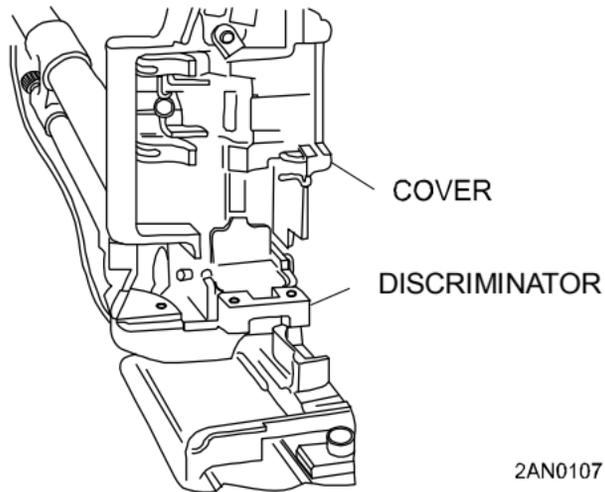


Change 5

0034 00-16

## REMOVAL OF DISCRIMINATOR ASSEMBLY

Open cover of machine gun and remove discriminator assembly.



2AN0107

**M24 BLANK FIRING ADAPTER (M240B/M240D/M240L/M240H/M240N) AND  
M21 BLANK FIRING ATTACHMENT (M240/M240C/M240E1) (cont) 0034 00**

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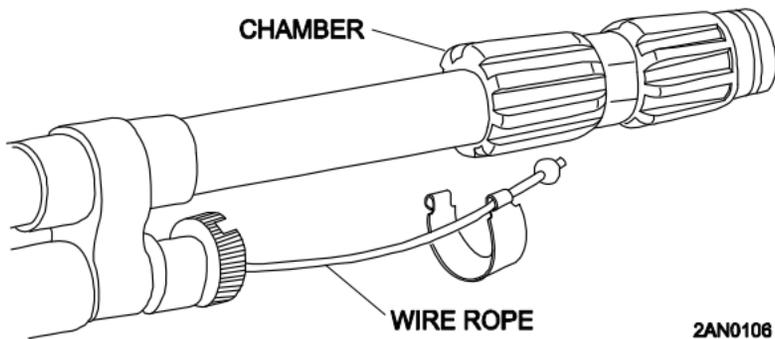
**REMOVAL OF DISCRIMINATOR ASSEMBLY (cont)**

**CAUTION**

Do not remove chamber from machine gun barrel until both items are cooled.

Take care not to damage threads on end of barrel.

Remove wire rope assembly from chamber.



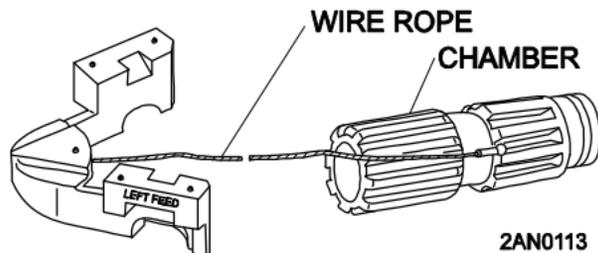
2AN0106

0034 00-19

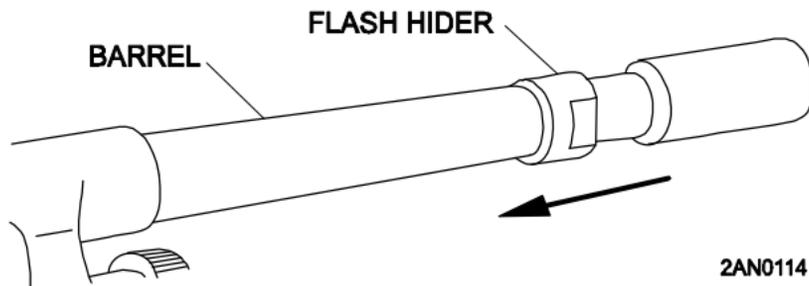
**M24 BLANK FIRING ADAPTER (M240B/M240D/M240L/M240H/M240N) AND  
M21 BLANK FIRING ATTACHMENT (M240/M240C/M240E1) (cont) 0034 00**

Loosen chamber with box/open-end combination wrench and unscrew from barrel of weapon.

Replace wire rope assembly on chamber.



Replace flash hider on machine gun barrel.



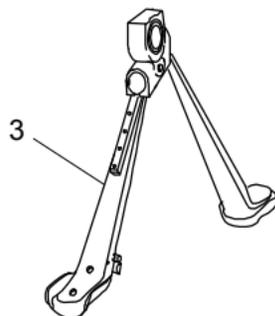
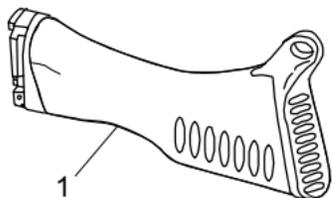
**END OF WORK PACKAGE**

**0034 00-21/22 blank**



The Emergency Egress Package is to be used only on the M240D. The package consists of the following components:

- Buffer and Buttstock Assembly (1), P/N 12988986
- Trigger Assembly (2), P/N 12976869
- Bipod Assembly (3), P/N 12976883



2AN0115

**WARNING**

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

Clear your machine gun (WP 0010 00).

Depress backplate latch and lift buffer and spade grip assembly straight up.

Install buffer and buttstock assembly; make sure it locks in place.

Depress spring on trigger housing pin and remove pin/trigger housing assembly.

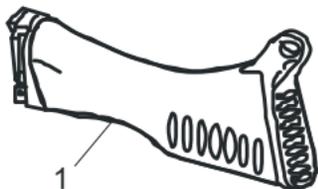
Place safety of infantry trigger housing assembly to "F" fire position. Position front of housing assembly into place and pivot into position; install trigger housing pin from right to left.

Attach the bipod lag assembly to the receiver by aligning the gaps in the bipod head with the flanges on the receiver. Swivel the bipod assembly so it is in the upright position. Drive the retaining pin into the cut-out in the bipod head.

**END OF WORK PACKAGE**

The Emergency Egress Package is to be used only on the M240H. The package consists of the following components:

- Buffer and Buttstock Assembly (1), P/N 12988986
- Trigger Assembly (2), P/N 12976869
- Sling with Hook Assembly (3), P/N 13011767



2AN0115-1

**WARNING**

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

Clear your machine gun (WP 0010 00).

Depress backplate latch and lift buffer and spade grip assembly straight up.

Install buffer and buttstock assembly; make sure it locks in place.

Depress spring on trigger housing pin and remove pin/trigger housing assembly.

Place safety of infantry trigger housing assembly to "F" fire position. Position front of housing assembly into place and pivot into position; install trigger housing pin from right to left.

Attach the sling to front sling swivel and at mounting point on buttplate.

**END OF WORK PACKAGE**

**CHAPTER 5**  
**AMMUNITION**



**WARNING**

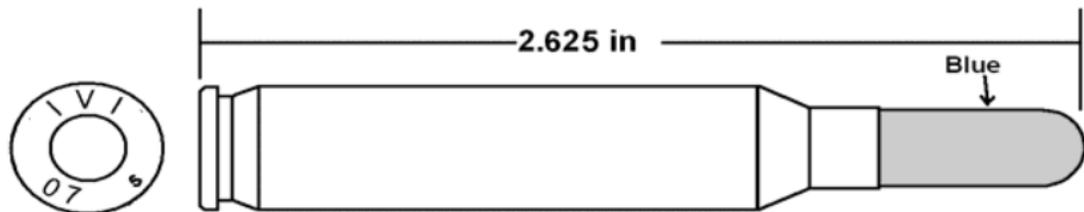
This work package depicts the only ammunition authorized for use in your machine gun. If it is not shown, it is not authorized.

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

**NOTE**

Air Force personnel may use the M82 Crimped Blank.

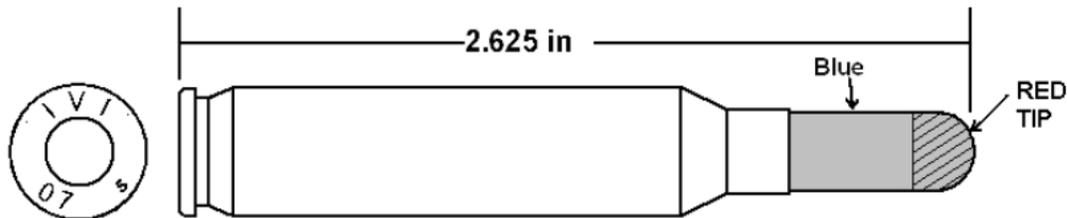


**CARTRIDGE 7.62MM SHORT RANGE TRAINING AMMUNITION, M973, BALL FOR M240B MACHINE GUNS**

The cartridge is for training in local and urban training areas where range restrictions preclude the use of full range standard service ammunition.

This cartridge has a brass cartridge case and blue plastic projectile. The headstamp has the manufacturer's symbol, two digit year of production, and the letter 'S.' Lubrication may be present on the projectile.

**CARTRIDGE 7.62MM SHORT RANGE TRAINING AMMUNITION, M974,  
TRACER, FOR M240B MACHINE GUNS**



The cartridge is for training in local and urban training areas where range restrictions preclude the use of full range standard service ammunition.

This cartridge has a brass cartridge case and blue plastic projectile with red tip.. The headstamp has the manufacturer's symbol, two digit year of production, and the letter 'S.' Lubrication may be present on the projectile.

Protect ammunition from mud, sand, and water. If the ammunition gets wet or dirty, wipe it off at once with a clean, dry rag (item 7, WP 0040 00). Wipe off light corrosion as soon as it is discovered. Turn in heavily corroded cartridges.

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

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

Do not fire dented cartridges, cartridges with loose bullets, or otherwise defective rounds.

Malfunctions involving ammunition during firing must be reported on DA Form 4379.

**END OF WORK PACKAGE**

## **CHAPTER 6**

### **SUPPORTING INFORMATION**



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

**ARMY REGULATIONS**

AR 190-11.....Physical Security of Arms, Ammunition and Explosives

**DEPARTMENT OF THE ARMY PAMPLETS**

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

**FIELD MANUALS**

FM 4-25.11 ..... First Aid

FM 3-11.5 ..... Multi-service Tactics, Techniques and Procedures for Chemical, Biological, Radiological and Nuclear Decontamination

FM 3-22.68 ..... Crew-Served Weapons

**FORMS**

DA Form 2402 .....	Maintenance Tag
DA Form 2028 .....	Recommended Changes to Publications and Blank
SF 368 .....	Product Quality Deficiency Report
NAVMC Form 10722 .....	Recommended Changes to Publications

**TECHNICAL MANUALS**

TM 4700.15/1 .....	Equipment Report Procedures
TM 1-1520-237-10 .....	Operator's Manual for UH-60A Helicopter UH-60L Helicopter EH-60A Helicopter
TM 1-1520-240-10 .....	Operator's Manual for Army CH-47D Helicopter
TM 9-1005-245-13&P .....	Operator's, Unit, and Direct Support Maintenance Manual with Repair Parts and Special Tools List (RPSTL) for Machine Gun Mounts and Combinations for Tactical/Armored Vehicles and Ground Mounting
TM 9-1005-262-13 .....	Operator, Aviation Unit and Aviation Intermediate Maintenance for Armament Subsystem, Helicopter, 7.62 mm Machine Gun Mounts

TM 9-2350-252-10 .....	Operator's Manual for Fighting Vehicle, Infantry, M2, Bradley
TM 9-2350-255-10 .....	Operator's Manual for Operator Controls, PMCS, and Operation Under Usual Conditions, Combat, Full-Tracked: 105-MM Gun, M1
TM 08594A-10/2 .....	Operator's Manual for LAV-25
TM 9-4933-273-12&P .....	Operator's and Unit Maintenance Manual (Including RPSTL) for Boresighting Equipment, Weapon, Small Arms, M30
TM 750-244-7 .....	Procedures for Destruction of Equipment in Federal Supply Classification 1000, 1005, 1010, 1015, 1020, 1030, 1055, 1090, and 1095 to Prevent Enemy Use

## **RELATED PUBLICATIONS**

CTA 8-100 .....	Army Medical Department Expendable/Durable Items
CTA 50-970 .....	Expendable/Durable Items (Except Medical, Class V, Repair Parts, and heraldic Items)
MCO 4855.10 .....	Quality Deficiency Report Manual

**AIR FORCE REFERENCES**

AF Handbook 32-4014, Vol. 4

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

AFI 21-201..... Management and Maintenance of Non-Nuclear  
Munitions

AFI 31-101..... The Air Force Installation Security Program

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

AFMAN 21-229..... USAF Weapons Handling Manual

AFMAN 91-201..... Explosives Safety Standards

AFMMAN 44-163(I) ..... First Aid Manual

AFTO Form 105..... Inspection, Maintenance, Firing Data for Ground  
Weapons Allowance Standard 538

AFTO Form 22..... Technical Manual Change Recommendation & Reply

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

TO 00-5-1 ..... Air Force Technical Order System

TO 11W-1-110..... Historical Data Recording of Inspection, Maintenance  
and Firing Data for Ground Weapons

TO 11-W2-8-1-331 ..... Ground Mounts for M122/M122A1/M192 Machine  
Gun Tripods

**END OF WORK PACKAGE**

Change 3

0037 00-4

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

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**0038 00**

This work package lists components of end item and basic issue items for the machine gun to help you inventory items required for safe and effective operation.

The Components of End Item (COEI) and Basic Issue Items (BII) lists are divided into the following:

Components of End Item (COEI): This is for informational purposes only and is not authority to requisition replacements. These items are part of end item but are removed and separately packaged for transportation or shipment. As part of end item, these items must be with end item whenever it is issued or transferred between property accounts. Illustrations are furnished to assist you in identifying the items.

**0038 00-1**

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

**0038 00**

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These are the minimum essential items required to place the machine gun in operation, to operate it, and to perform emergency repairs. Although shipped separately packaged, BII must be with the machine gun during operation and whenever it is transferred between property accounts. The illustrations will assist you with hard to identify items. This manual is your authority to request/requisition replacement BII, based on TOE/MTOE authorization of END item.

**EXPLANATION OF COLUMNS.** The following provides an explanation of columns found in the tabular listings:

Column (1) – Illus. Number, gives you the number of the item illustrated.

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

Column (3) – Description and Usable on Code, identifies the Federal item name (in capital letters) followed by a minimum description when needed. The last line below the description is the CAGEC (in parenthesis) and the part number. If the item you need is not the same for different models of the equipment, a Usable on Code will appear on the right side of the description column on the same line as the part number. These codes are identified

<u>CODE USED</u>	<u>ON CODE</u>	<u>USED</u>	<u>ON CODE</u>	<u>USED</u>	<u>ON</u>
G69 M240		BC2	M240D	BT5	M240L
BB2 M240B		AG8	M240E1	BJ8	M240N
L04	M240C BN4		M240H		

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

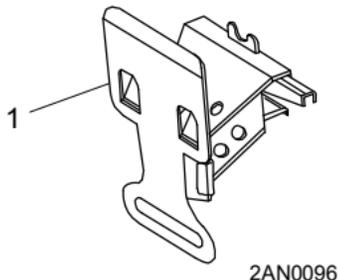
Column (5) – Qty Rqd, indicates the quantity required.

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

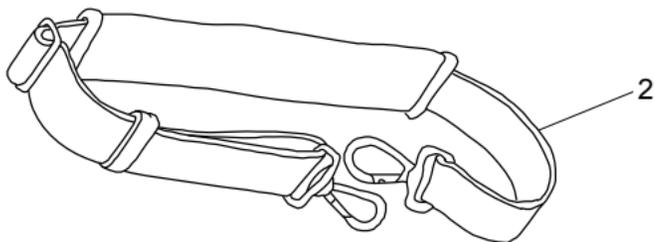
**0038 00**

**Table 1. Components of End Item**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION CAGEC AND PART NUMBER	(4) USABLE ON CODE	(5) QTY RQD
1 1005-01	-431-8324	ADAPTER, AMMUNITION (19200) 12976909	BB2, BT5	EA 1



(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION CAGEC AND PART NUMBER	USABLE ON CODE	(4) U/M	(5) QTY RQD
2 1005-01	-533-4093	SLING W/HOOK ASSEMBLY (19200) 13011767	BB2, BT5	EA 1	



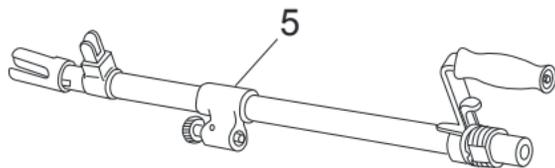
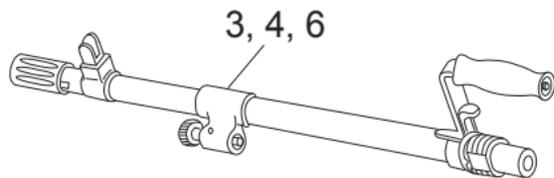
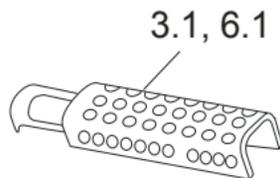
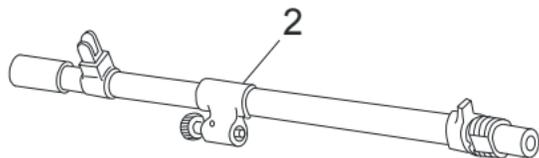
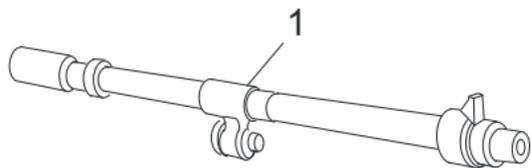
2AN0097

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

**0038 00**

**Table 2. Basic Issue Items**

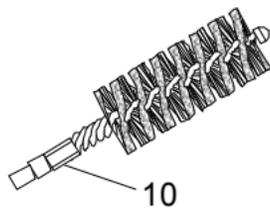
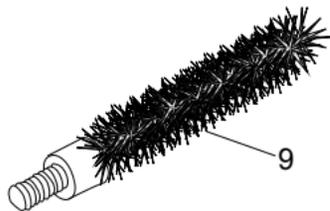
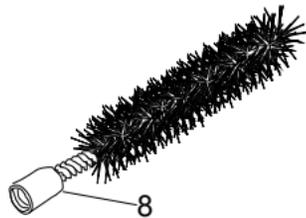
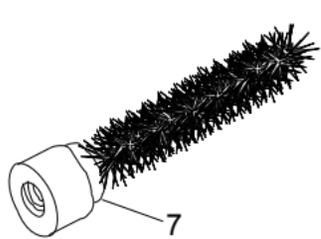
(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION CAGEC AND PART NUMBER	(4) USABLE ON CODE	(5) QTY RQD	
1	1005-01	-044-1026	BARREL ASSEMBLY (19200) 11825985	G69, L04	EA 1
2	1005-01	-251-9701	BARREL ASSEMBLY (19200) 12597035	AG8 EA	1
3	1005-01	-524-2427	BARREL ASSEMBLY (single port gas plug) (19200) 13008851	BB2 EA	1
3.1	1005-01	-431-0664	HEAT SHIELD (19200) 12976831	BB2 EA	1
4	1005-01	-408-5897	BARREL ASSEMBLY (19200) 12976818	BC2, BJ8	EA 1
5	1005-01	-522-4817	BARREL ASSEMBLY (19200) 13008220	BN4 EA	1
6	1005-01	-549-8497	BARREL ASSEMBLY (19200) 13016470	BT5 EA	1
6.1	1005-01	-551-1563	HEAT SHIELD (19200) 13016482	BT5 EA	1



2AN0098

**COMPONENTS OF END ITEM  
AND BASIC ISSUE ITEMS (cont)****0038 00****Table 2. Basic Issue Items (cont)**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION CAGEC AND PART NUMBER	USABLE ON CODE	(4) U/M	(5) QTY RQD
7	1005-01	-033-3925	BRUSH, CLEANING, GAS CYLINDER (19200) 11826118	BJ8 EA	1
8	1005-00	-556-4174	BRUSH, CLEANING, SMALL ARMS BORE (10001) 5564174	BJ8 EA	2
9	1005-00	-690-3115	BRUSH, CLEANING, SMALL ARMS CHAMBER (19205) 7790452	BJ8 EA	1
10	1005-00	-350-4100	BRUSH, CLEANING, SMALL ARMS RECEIVER (19200) 8448466	BC2, BJ8	EA 1



2AN0100

0038 00-9

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

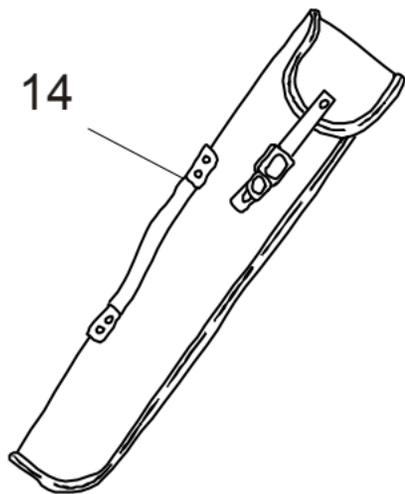
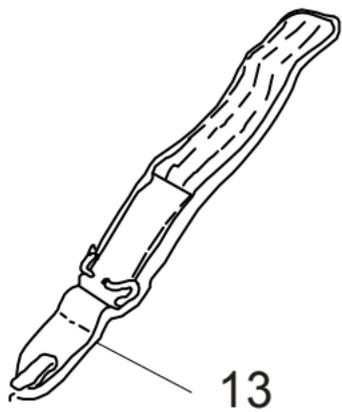
**0038 00**

**Table 2. Basic Issue Items (cont)**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION CAGEC AND PART NUMBER	USABLE ON CODE	(4) U/M	(5) QTY RQD
11		Deleted			
12		Deleted			
13	1005-00-550-6573	CASE, SMALL ARMS CLEANING ROD (19204) 5506573	G69, L04	EA 1	
14	1005-01-038-6025	CASE SPARE BARREL (19200) 11826275	G69, L04, AG8	EA 1	

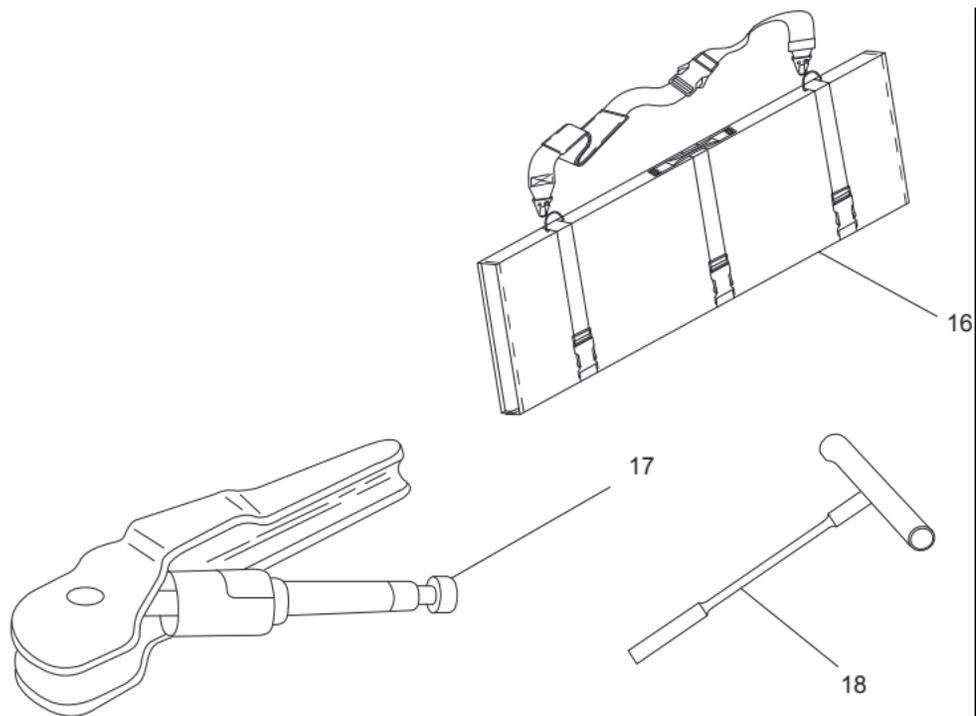
**Change 5**

**0038 00-10**



**COMPONENTS OF END ITEM  
AND BASIC ISSUE ITEMS (cont)****0038 00****Table 2. Basic Issue Items (cont)**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION CAGEC AND PART NUMBER	USABLE ON CODE	(4) U/M	(5) QTY RQD
15	1005-01-442-8626	Deleted	BC2, BJ8	EA	1
16	1005-01-536-9646	CASE, SPARE BARREL (19200) 13013655	BB2, BC2, BJ8, BN4, BT5	EA	1
17	4933-01-033-1510	EXTRACTOR, RUPTURED CARTRIDG CASE (19200) 11826264	EA		1
18	5340-01-265-2683	HANDLE ASSEMBLY, CLEANING ROD (19204) 12900436	BJ8, G69, L04	EA	1

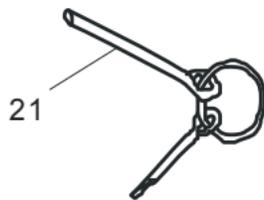
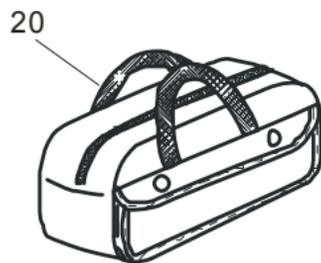
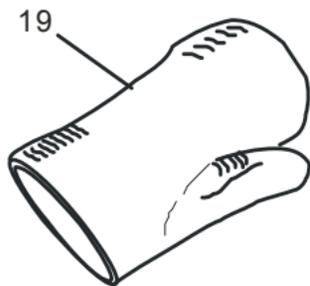


0038 00-13

Change 7

**COMPONENTS OF END ITEM  
AND BASIC ISSUE ITEMS (cont)****0038 00****Table 2. Basic Issue Items (cont)**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION CAGEC AND PART NUMBER	(4) USABLE ON CODE	(5) QTY RQD
19 8415-01	-092-0039	MITTEN, HEAT PROTECTIVE M5337 (81349) MIL-M-11199	AG8, BJ8, G69, L04	EA 1
20 5140-00	-329-4306	POUCH, MECHANICS TOOL (80049) 50J8016	BJ8 EA	1
21 4933-01	-047-3394	REAMER (19200) 11826036	BJ8 EA	1
22 1005-00	-726-6109	ROD, SECTION, CLEANING, SMALL ARMS (19200) 7266109	BJ8, G69, L04	EA 5



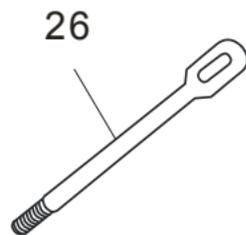
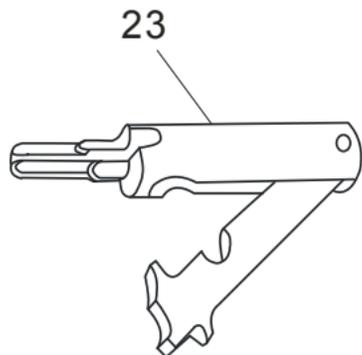
0038 00-15

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

**0038 00**

**Table 2. Basic Issue Items (cont)**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION CAGEC AND PART NUMBER	USABLE ON CODE	(4) U/M	(5) QTY RQD
23 4938-01	-033-1504	SCRAPER, COMBINAT- ION REGULATOR (19200) 11826005	BJ8 EA		1
24		Deleted			
25		Deleted			
26 1005-00	-726-6110	SWAB HOLDER SECTION (19200) 7266110	BJ8, G69, L04	EA 1	



0038 00-17

Change 5

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

**0038 00**

**Table 2. Basic Issue Items (cont)**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION CAGEC AND PART NUMBER	USABLE ON CODE	(4) U/M	(5) QTY RQD
27		Deleted			
28	1005-01	-458-7004	TOOL, FRONT SIGHT ADJUSTMENT TOOL (19200) 12012086	BJ8 EA	1
29	4933-01	-033-1503	TOOL, COMBINATION, SCRAPER AND EXTRACTOR (19200) 11826059	BJ8 EA	1
30		TM 9-1005-313-10		EA	1

**Change 5**

**0038 00-18**





## **ADDITIONAL AUTHORIZATION LIST AND ASSOCIATED EQUIPMENT LIST**

---

**0039 00**

This work package lists additional items you are authorized for the support of the machine gun.

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

**EXPLANATION OF COLUMNS.** National stock numbers, descriptions, and quantities are provided to help you identify and request the additional items you require to support the equipment. The items are listed in alphabetical sequence by item name under the type document (i.e., CTA, MTOE, TDA, or JTA) which authorizes the item(s) to you.

**ADDITIONAL AUTHORIZATION LIST AND  
ASSOCIATED EQUIPMENT LIST (cont)**

**0039 00**

**Table 1. Additional Authorization List**

(1) NATIONAL STOCK NUMBER	(2) DESCRIPTION CAGEC AND PART NUMBER	USABLE ON CODE	(3) U/M	(4) QTY RQD
<i>CTA AUTHORIZED ITEMS</i>				
1005-01-142-2841	CHAMBER AND DISCRIMINATOR ASSY (19200) 11833460	AG8, G69, L04	EA 1	
8105-01-147-9841	BAG, ORDNANCE, WEAPON SPARE PARTS (19200) 11833468	AG8, G69, L04	EA 1	
1005-01-218-0693	ADAPTER, FIRING, ATTACHMENT, M1/M1A1 (19200) 11833475	G69 EA		1
1005-01-480-0289	BLANK FIRING ATTACHMENT, M24 (19200) 12993733	BB2, BC2, BJ8, BN4, BT5	EA 2	
1005-01-033-3925	BRUSH, CLEANING, GAS CYLINDER (19200) 11826118	EA		1

**Change 5**

**0039 00-2**

(1) NATIONAL STOCK NUMBER	(2) DESCRIPTION CAGEC AND PART NUMBER	USABLE ON CODE	(3) U/M	(4) QTY RQD
1005-01-529-8411	COMBAT AMMO PACK (50 RD) (19200) 13006225	BB2, BJ8, BT5	EA 1	
1005-00-556-4174	BRUSH, CLEANING, SMALL ARMS BORE (10001) 5564174	EA		2
1005-00-690-3115	BRUSH, CLEANING, SMALL ARMS CHAMBER (19205) 7790452	EA		1
1005-00-350-4100	BRUSH, CLEANING, SMALL ARMS RECEIVER (19204) 8448466	BB2, BN4, BT5, AG8, L04	EA 1	
1005-00-550-6573	CASE, SMALL ARMS CLEANING ROD (19204) 5506573	EA		1
5340-01-265-2683	HANDLE ASSEMBLY, CLEANING ROD (19200) 12900436	EA		1
8415-01-092-0039	MITTEN, HEAT PROTECTIVE M5337 (81349) MIL-M-11199	BB2, BN4, BT5	EA 1	

**ADDITIONAL AUTHORIZATION LIST AND  
ASSOCIATED EQUIPMENT LIST (cont)**

**0039 00**

**Table 1. Additional Authorization List (cont)**

(1) NATIONAL STOCK NUMBER	(2) DESCRIPTION CAGEC AND PART NUMBER	USABLE ON CODE	(3) U/M	(4) QTY RQD
<i>CTA AUTHORIZED ITEMS</i>				
4933-01-047-3394	REAMER, CLEANING (19200) 11826036	EA		1
1005-00-726-6109	ROD SECTION, CLEANING, SMALL ARMS (19200) 7266109	EA		5
4933-01-033-1504	SCRAPER, COMBINATION REGULATOR (19200) 11826005	EA		1
1005-00-726-6110	SWAB HOLDER SECTION, SMALL ARMS CLEANING (19204) 7266110	EA		1

**0039 00-4**

(1) NATIONAL STOCK NUMBER	(2) DESCRIPTION CAGEC AND PART NUMBER	USABLE ON CODE	(3) U/M	(4) QTY RQD
4933-01-033-1503	TOOL, COMBINATION SCRAPER AND EXTRACTOR (19200) 11826059	EA		1
1095-01-466-2065	RACK, STORAGE, SMALL ARMS (19200) 12991083	BB2, BN4, BT5	EA	1 per 9 weapons
1005-01-458-7004 ADJUSTIN	G TOOL, FRONT SIGHT (19200) 12012086	BB2, BC2, BN4, BT5	EA 1	

0039 00-5

Change 5

**ADDITIONAL AUTHORIZATION LIST AND  
ASSOCIATED EQUIPMENT LIST (cont)**

**0039 00**

**Table 1. Additional Authorization List (cont)**

(1) NATIONAL STOCK NUMBER	(2) DESCRIPTION CAGEC AND PART NUMBER	USABLE ON CODE	(3) U/M	(4) QTY RQD
<i>MTOE AUTHORIZED ITEMS</i>				
1005-01-433-1617	MOUNT, TRIPOD, MACHINE GUN, M122A1 (19200) 12976948	BB2	EA 1	
1005-01-503-0141	MOUNT, M192 LIGHTWEIGHT TRIPOD (19200) 13001669	BB2	EA 1	

**END OF WORK PACKAGE**

**Change 5**

**0039 00-6**

## **EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST**

**0040 00**

---

This work package lists expendable/durable supplies and materials you need to operate and maintain the machine gun. This is for informational purposes only and is not authority to requisition the listed items. These items are authorized to you by CTA 50-970, Expendable/Durable Items (Except Medical, Class V, Repair Parts, and Heraldic items); or CTA 8-100, Army Medical Department Expendable/ Durable Items.

### **EXPLANATION OF COLUMNS.**

Column (1) – Item Number. This number is assigned to the entry in the listing and is referenced in the narrative instructions to identify the material (e.g., “Use cleaner, lubricant and preservative (item 1, WP 0000 00)”).

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

C – Operator/Crew

**EXPENDABLE/DURABLE SUPPLIES  
AND MATERIALS LIST (cont)**

**0040 00**

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Column (3) –National Stock Number. This is the National Stock Number assigned to the item; use it to requisition the item.

Column (4) – Description. Indicates the Federal item name and, if required, a description to identify the item. The last line for each item indicates the Contractor and Government Entity Code (CAGEC) in parentheses followed by the part number.

Column (5) - Unit of Measure (U/M). Indicates the measure used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., EA, IN, PR). The unit of measure differs from the unit of issue, requisition the lowest unit of issue that will satisfy your requirements.

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

(1) ITEM NO.	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) DESCRIPTION	(5) U/M
1 C		9150-01-102-1473 9150-01-079-6124	CLEANER, LUBRICANT AND PRESERVATIVE (CLP) (81349) MIL-PRF-63460 ½ oz bottle 4 oz bottle	EA EA
2 C		9920-00-292-9946	CLEANER, TOBACCO, PIPE (92849) DILLS 1 pkg (32 per pkg) (Marine Corps only)	EA
3 C		6850-00-224-6656 6850-00-224-6657	CLEANING COMPOUND, SOLVENT: rifle bore cleaner (RBC) (81349) MIL-PRF-372 2 oz can 6 oz can	EA EA

**EXPENDABLE/DURABLE SUPPLIES  
AND MATERIALS LIST (cont)****0040 00****Table 1. Expendable/Durable Supplies List (cont)**

(1) ITEM NO.	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) DESCRIPTION	(5) U/M
4 C		9150-00-292-9689	LUBRICATING OIL, WEAPONS (LAW) (81349) MIL-PRF-14107 4 oz	EA
5 C		9150-00-949-0323	LUBRICATING OIL, WEAPONS semi-fluid w/Teflon (LSA-T) (81349) MIL-L-46150 8 oz bottle (Marine Corps only)	EA
6 C		9150-00-889-3522	LUBRICATING OIL, WEAPONS Semi-fluid (LSA) (19204) MIL-L-46000 4 oz bottle	EA

**0040 00-4**

(1) ITEM NO.	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) DESCRIPTION	(5) U/M
7 C		7920-00-205-1711	WIPING RAG: cotton (58536) A-A-531 50 lb bdl	LB
8 C		1005-00-288-3565	SWAB, SMALL ARMS CLEANING: cotton (19204) 5019316 1pkg (1000 per pkg)	EA
9 C		6920-00-078-5126	TARGET, BASIC MACHINE GUN QUALIFICATION/10 METER QUALIFICATION TARGET (19204) 8426940 1box (200 per box) (Marine Corps only)	BX

**END OF WORK PACKAGE**

**0040 00-5/6 blank**



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**W**

Warning Summary.....a

By Order of the Secretary of the Army, Air Force and Commandant of the Marine Corps.

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