

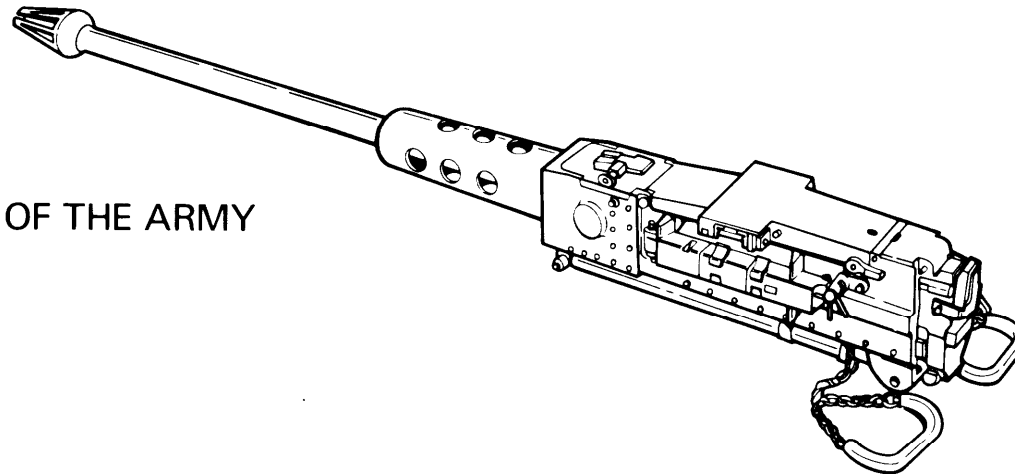
TM 9-1005-231-24&P

TECHNICAL MANUAL

**ORGANIZATIONAL, DIRECT SUPPORT,  
AND GENERAL SUPPORT MAINTENANCE MANUAL  
(INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST  
(INCLUDING DEPOT MAINTENANCE REPAIR PARTS))**

FOR

**MACHINE GUN, CALIBER .50, FIXED, M85  
(1005-00-690-2790)**



HEADQUARTERS, DEPARTMENT OF THE ARMY

**JULY 1985**

RPSTL	MAC	DIRECT SUPPORT MAINTENANCE PROCEDURES	ORGANIZATIONAL MAINTENANCE PROCEDURES	ORGANIZATIONAL TROUBLESHOOTING	PMCS
PAGE C-1	PAGE B-1	PAGE 3-1	PAGE 2-27	PAGE 2-17	PAGE 2-10

### **WARNING**

Be sure M85 machine gun is cleared before starting an inspection or maintenance procedure. Live ammunition should not be near the work area.

Be careful when removing spring-loaded parts, as injury to personnel may occur. **DO NOT** interchange bolt assemblies or parts from one weapon to another. Doing so may result in serious injury to personnel, or damage to the weapon.

Wear rubber gloves when using carbon removing compound or dry cleaning solvent.

Use dry cleaning solvent only in a well-ventilated area.

Wear earplugs when firing the M85 machine gun, due to excessive noise levels. Wear earplugs in conjunction with the helmet and communication devices normally worn by the crew.

Refer to TM 9-1300-206 for general ammunition care, handling, and safety.

See FM 21-11 (TEST) for first aid information.

HEADQUARTERS  
DEPARTMENT OF THE ARMY  
WASHINGTON, DC, 6 November 1986

CHANGE

NO. 2

Organizational, Direct Support,  
and General Support Maintenance Manual  
(Including Repair Parts and Special Tools List  
(Including Depot Maintenance Repair Parts))

FOR

MACHINE GUN, CALIBER .50, FIXED, M85  
(1005-00-690-2790)

TM 9-1005-231-24&P, 5 July 1985, is changed as follows.

Remove old pages and insert new pages as indicated below. New or changed material is indicated by a vertical bar in the margin of the page. Added or revised illustrations are indicated by a vertical bar adjacent of the identification number. When an entire section or chapter is changed the bar will be adjacent to the title only.

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3-83 and 3-84

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Official:

R. L. DILWORTH  
*Brigadier General, United States Army*  
*The Adjutant General*

**DISTRIBUTION:**

To be distributed in accordance with DA Form 12-40, Organizational and Direct and General Support maintenance requirements for Machine Gun, Cal .50 M85.

**TM 9-1005-231-24&P  
C1**

CHANGE  
NO.1

HEADQUARTERS  
DEPARTMENT OF THE ARMY  
WASHINGTON, DC, 7 May 1986

Organizational, Direct Support,  
and General Support Maintenance Manual  
(Including Repair Parts and Special Tools List  
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Remove Pages	Insert Pages
2-19 and 2-20	2-19 and 2-20
2-35 thru 2-38	2-35 thru 2-38
C-17 and C-18	C-17 and C-18
C-33 thru C-35(C-36 blank)	C-33 thru C-35(C-36 blank)
C-61 and C-62	C-61 and C-62

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HEADQUARTERS  
DEPARTMENT OF THE ARMY  
Washington, DC, 5 July 1985

ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT  
MAINTENANCE MANUAL (INCLUDING REPAIR PARTS AND SPECIAL  
TOOLS LIST (INCLUDING DEPOT MAINTENANCE REPAIR PARTS))

FOR

MACHINE GUN, CALIBER .50, FIXED, M85

(1005-00-690-2790)

Current as of March 3, 1985

**REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS**

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual direct to: Commander, US Army Armament, Munitions and Chemical Command, ATTN: AMSMC-MAS, Rock Island, IL 61299-6000. A reply will be furnished to you.

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\*This manual supersedes TM 9-1005-231-25, dated 23 September 1968, including all changes

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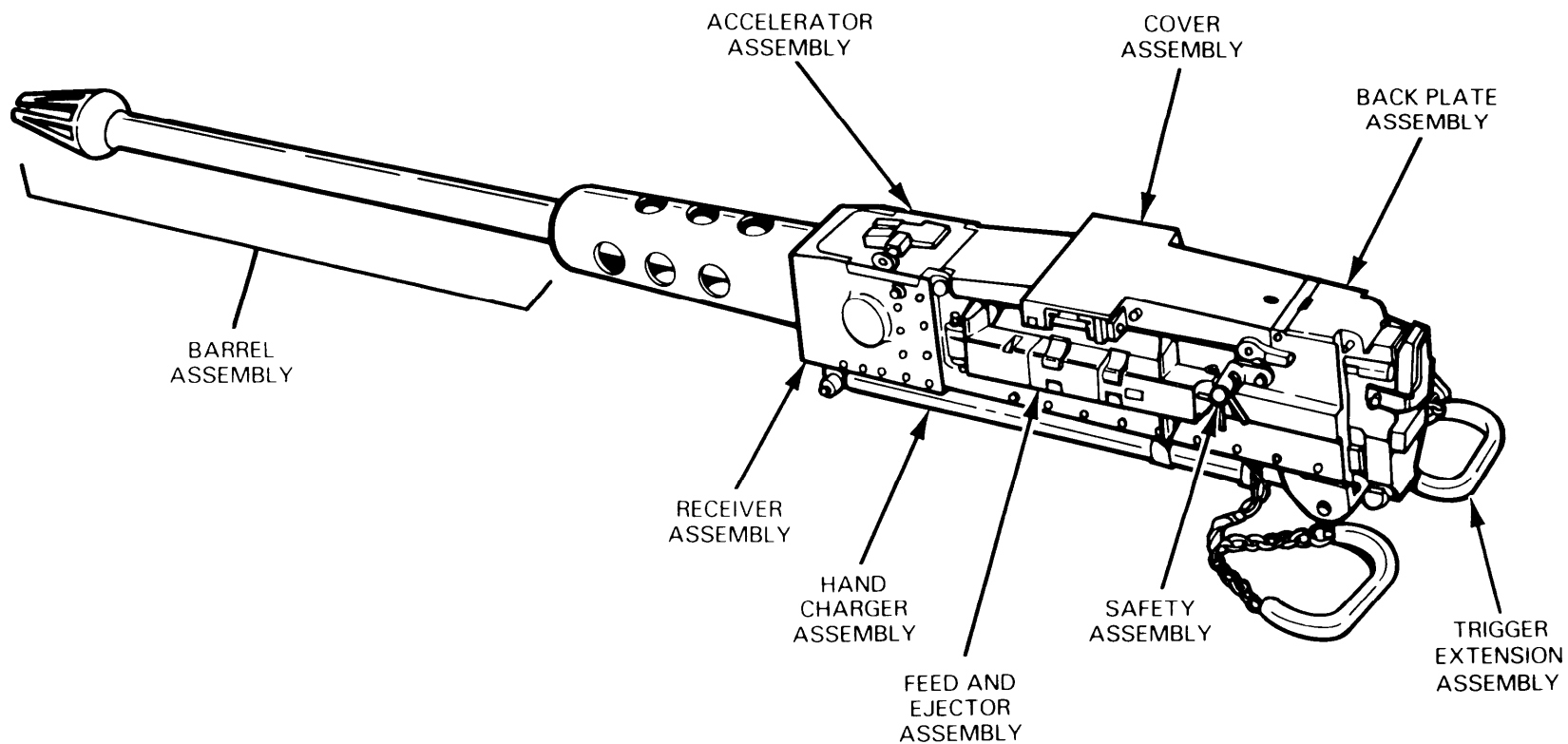


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# CHAPTER 1

## INTRODUCTION

### Section I. GENERAL INFORMATION



M85 MACHINE GUN

### **1-1. SCOPE.**

a. **Type of Manual.** Organizational, direct support and general support maintenance (including repair parts and special tools list (RPSTL)).

b. **Model Number and Equipment Name.** M85 fixed caliber .50 machine gun.

c. **Purpose of Equipment.** Provides protection against enemy ground troops or low-flying aircraft.

### **1-2. MAINTENANCE FORMS, RECORDS, AND REPORTS.**

Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA PAM 738-750, The Army Maintenance Management System (TAMMS).

### **1-3. DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE.**

Refer to TM 750-244-7.

### **1-4. PREPARATION FOR STORAGE OR SHIPMENT.**

Requirements for storage or shipment are listed on page 3-91.

### **1-5. REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR).**

If your M85 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. Put it on an SF 368 (Quality Deficiency Report). Mail it to us at Commander, US Army Armament, Munitions and Chemical Command, ATTN: AMSMC-QAD, Rock Island, IL 61299-6000. We'll send you a reply.

## **Section II. REPAIR PARTS, SPECIAL TOOLS, TMDE, AND SUPPORT EQUIPMENT**

### **1-6. COMMON TOOLS AND EQUIPMENT.**

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

### **1-7. SPECIAL TOOLS, TM DE, AND SUPPORT EQUIPMENT.**

No support equipment or TMDE is required for the M85 machine gun. Special tools are listed in appendix C of this

manual. See appendix E for fabricated improvised riveting fixture.

### **1-8. REPAIR PARTS.**

Repair parts are listed and illustrated in appendix C of this manual.

## Section III. EQUIPMENT DESCRIPTION AND DATA

### 1-9. EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES.

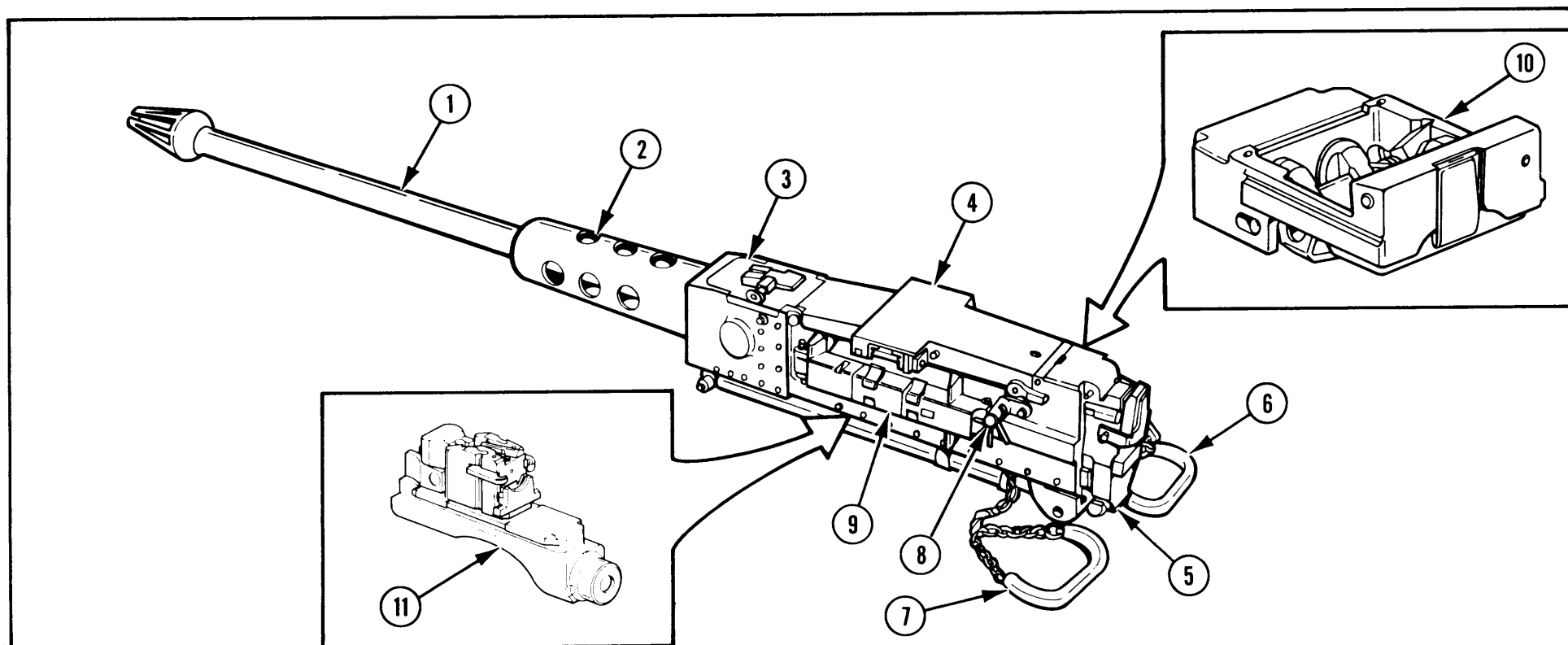
#### CHARACTERISTICS

- Air cooled
- Recoil operated
- Metallic-link belt fed
- Cupola mounted for armored vehicles

#### CAPABILITIES AND FEATURES

- Has right- or left-hand feed capability
- Fires ball, armor-piercing, incendiary and tracer ammunition
- Features a fixed headspace and a quick-change barrel with flash suppressor
- Has minimum high (625 rpm) and minimum low (400 rpm) rates of fire
- Can be fired manually, or electrically by the solenoid

### 1-10. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS.



**a. Barrel Assembly (1).** Has a quick-change barrel with two ring-shaped bearing surfaces on its rear section and a five-pronged flash suppressor on the other end.

**b. Receiver Assembly (2).** Houses and supports the major assemblies and components of the M85 machine gun. The name and serial number are located on the rear portion of the right sideplate.

**c. Accelerator Assembly (3).** Is mounted on top forward section of receiver assembly and provides a barrel lock which prevents rotation of barrel assembly during firing.

**d. Cover Assembly (4).** Helps position and hold the ammunition for cambering in the barrel. Provides a feeding mechanism for either right- or left-hand feed.

**e. Back Plate Assembly (5).** Is located in receiver assembly sideplate grooves and encloses rear portion of the receiver assembly.

**f. Trigger Extension Assembly (6).** Fires weapon manually.

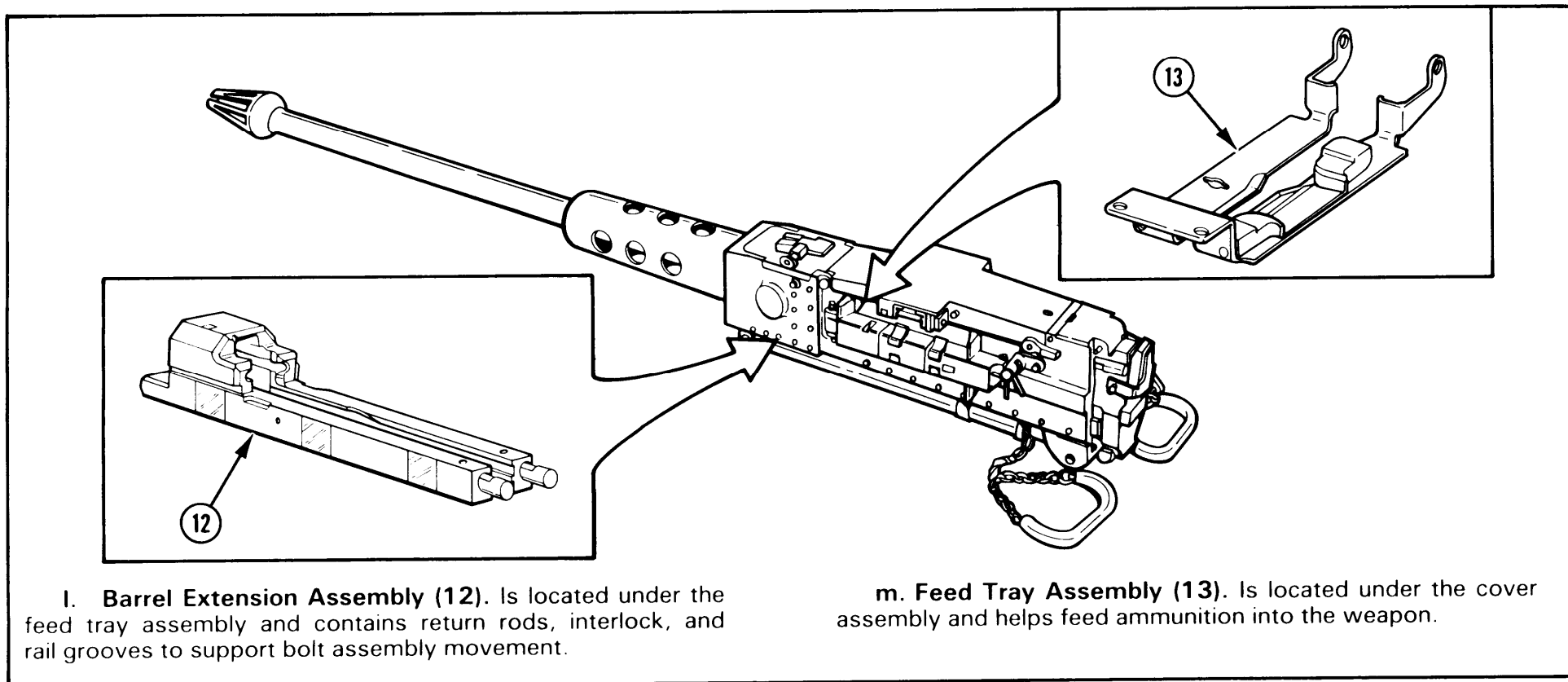
**g. Hand Charger Assembly (7).** Cocks M85 machine gun. Can be used on either right- or left-hand side.

**h. Safety Assembly (8).** Prevents or allows weapon to fire.

**i. Feed and Ejector Assembly (9).** Moves ammunition into weapon and discards spent brass.

**j. Sear Assembly (10).** Is positioned in front of the back plate assembly. Contains two torsion springs that control sear assembly movement and a series of plain and buffer disks that absorb bolt assembly shock. Retains the bolt assembly in the seared or cocked position.

**k. Bolt Assembly (11).** Consists of a bolt block and bolt slide mounted in the grooved rails of the barrel extension assembly. The bolt block contains a fixed firing pin.

**1-10. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS. (cont)****1-11. EQUIPMENT DATA.**

Refer to TM 9-1005-231-10 for the tabulated equipment data.

**1-12. EQUIPMENT CONFIGURATION**

The M85 machine gun has a capability of right- and left-hand feed. The left-hand feed is used on the M60, M60A1, and M60A3 tanks and M728 vehicles. The safety assembly and hand charger assembly are on the left. The right-hand feed is

used with the safety assembly and hand charger assembly on the right. It is fired manually, or electrically by the solenoid. If your M85 machine gun needs to be changed from right-hand feed to left-hand feed or vice versa, refer to page 2-4.

**1-13. SAFETY, CARE, AND HANDLING.**

Refer to TM 9-1300-206 for general ammunition care, handling, and safety.

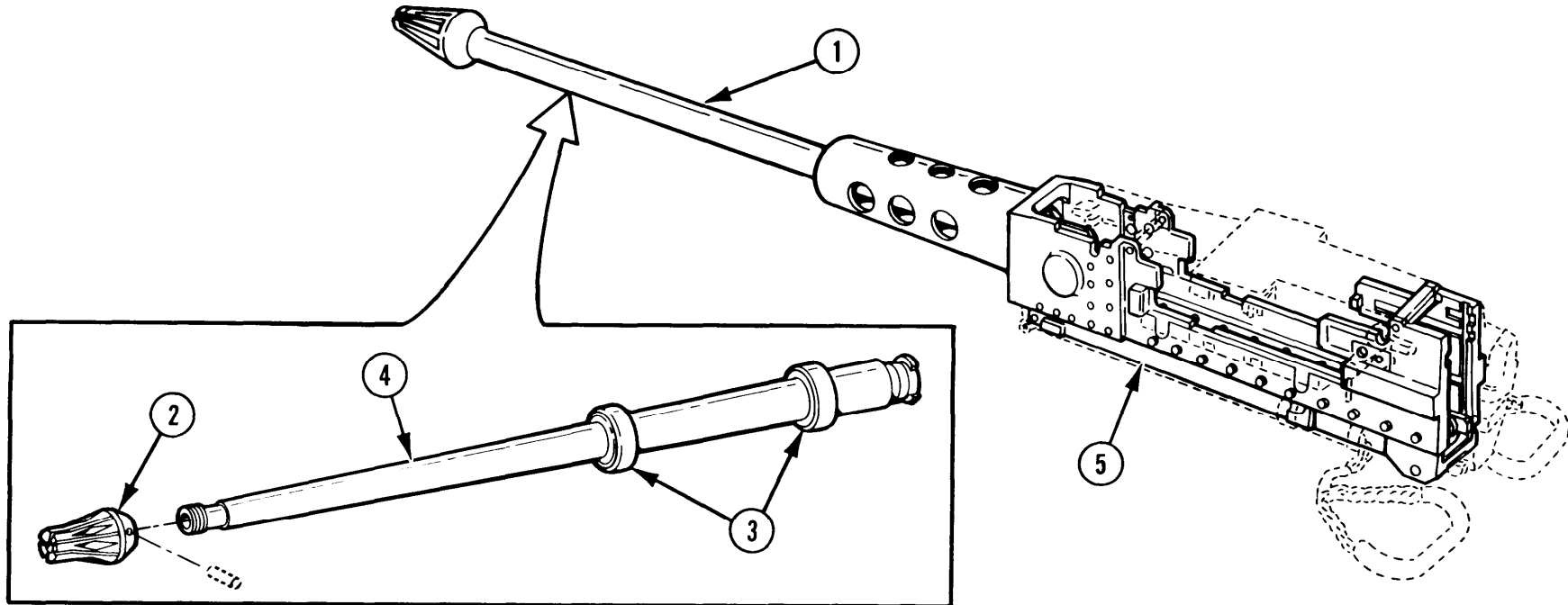
## Section IV. PRINCIPLES OF OPERATION

### 1-14. GENERAL.

The M85 machine gun is mounted in the cupola of armored vehicles, providing protection to all sides around the vehicle.

The sight for the M85 machine gun is in the commander's cupola. Sighting is accomplished by viewing the tracer ammunition paths.

### 1-15. PRINCIPLES OF OPERATION.

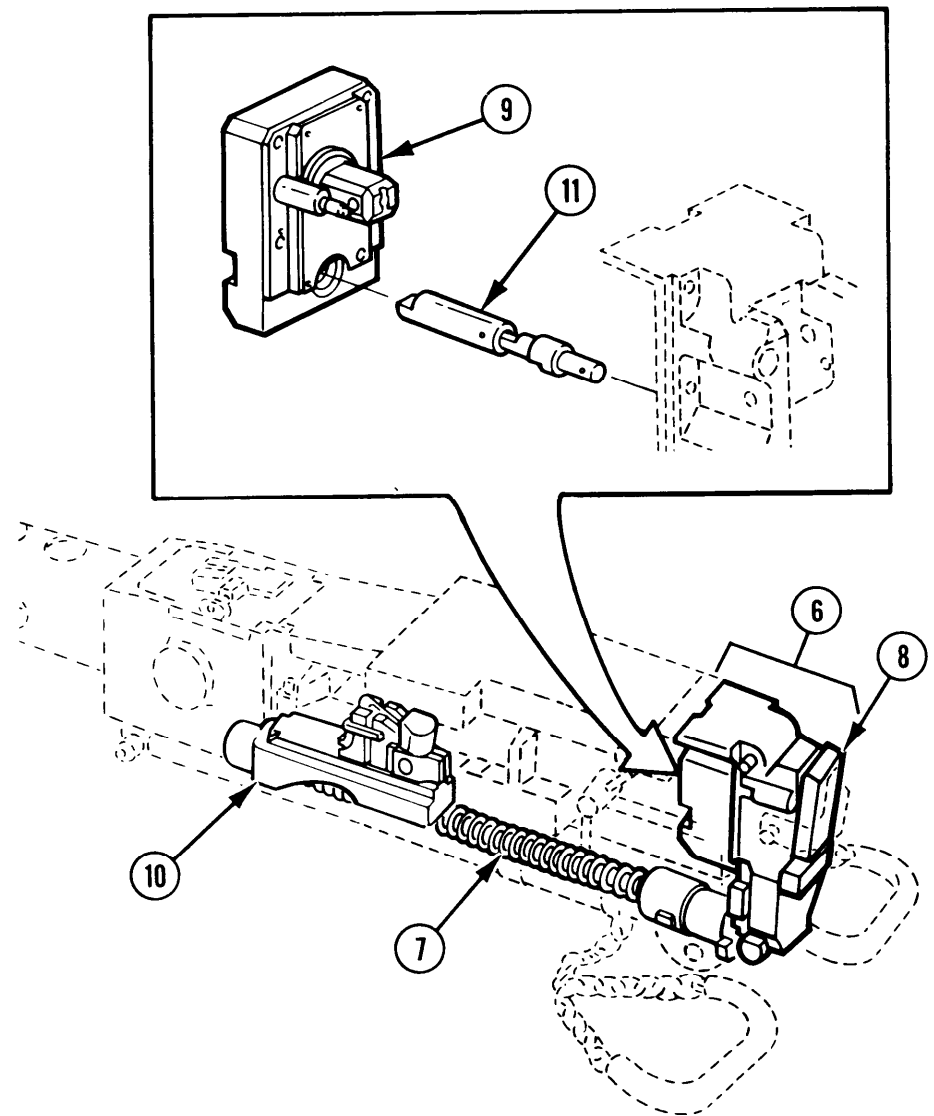


a. **Barrel Assembly (1).** The flash suppressor (2) reduces the flash of burning gases. The bearing surfaces (3) on the

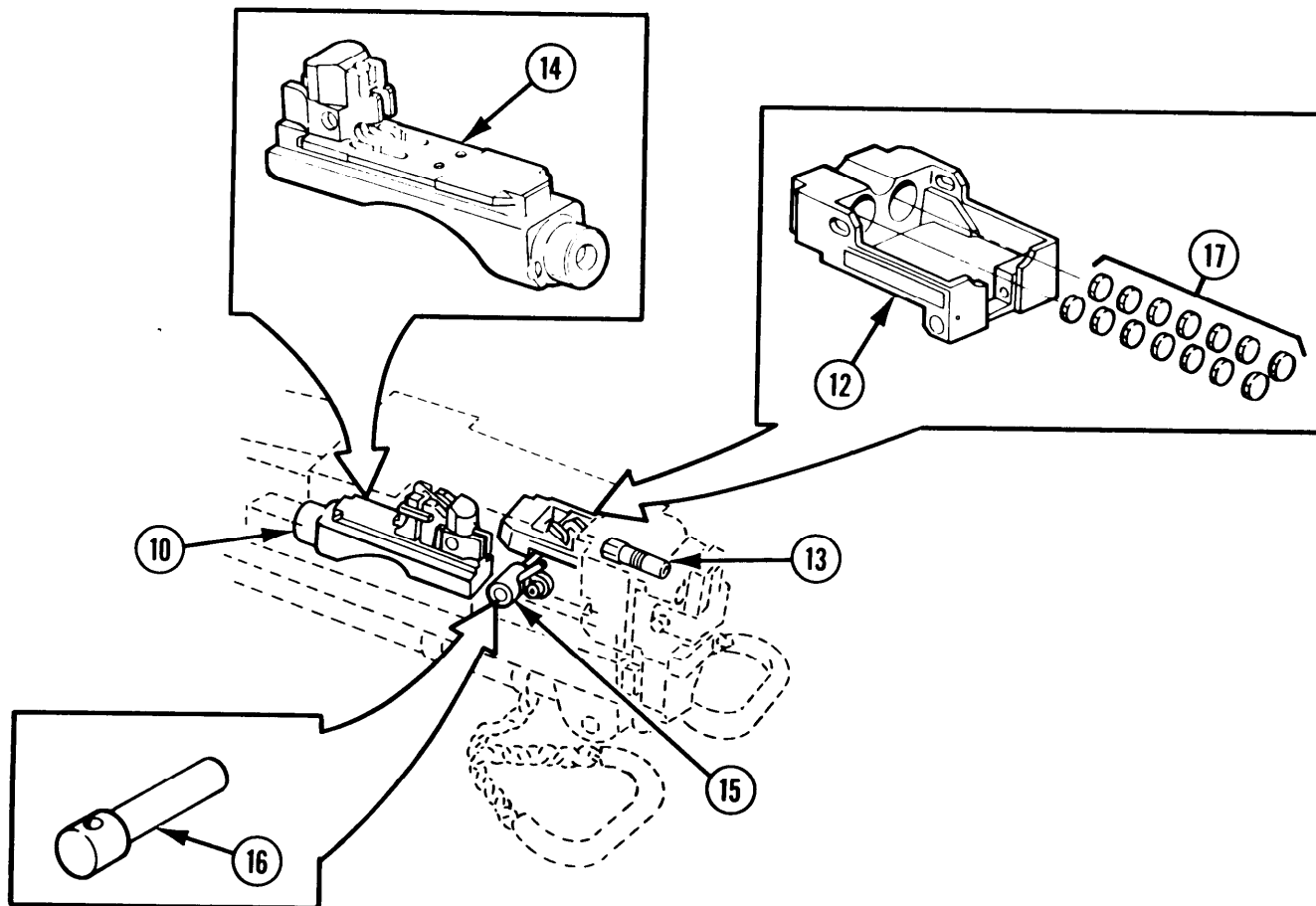
barrel (4) support the barrel assembly in the receiver assembly (5).

**1-15. PRINCIPLES OF OPERATION. (cont)**

b. **Back Plate Assembly (6).** Acts as a stop for the bolt buffer group (7) and houses the manual trigger assembly (8), solenoid (9), and high and low rates of fire mechanism. The low rate of fire (400 rd/m minimum) is achieved by means of a mechanism which causes a delay in the completion of the counterrecoil stroke (movement) of the bolt assembly (10). Contains striker (11) to set up time delay.



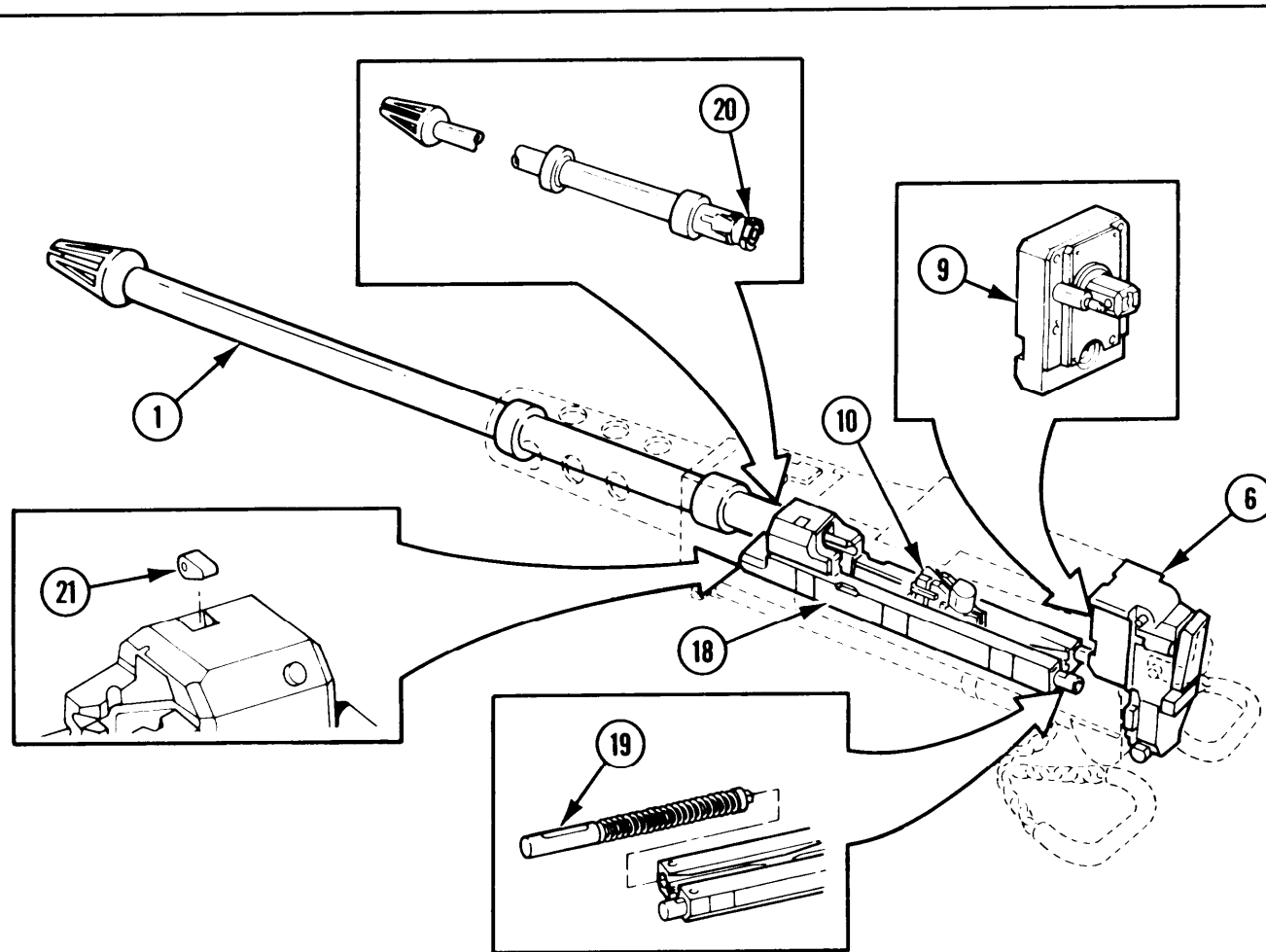




c. **Sear Assembly (12).** The solenoid plunger (13) rotates, which disengages the stop surface (notch) on bolt slide (14), allowing the bolt assembly (10) to move forward to fire the weapon. When the safety assembly (15) is on, the

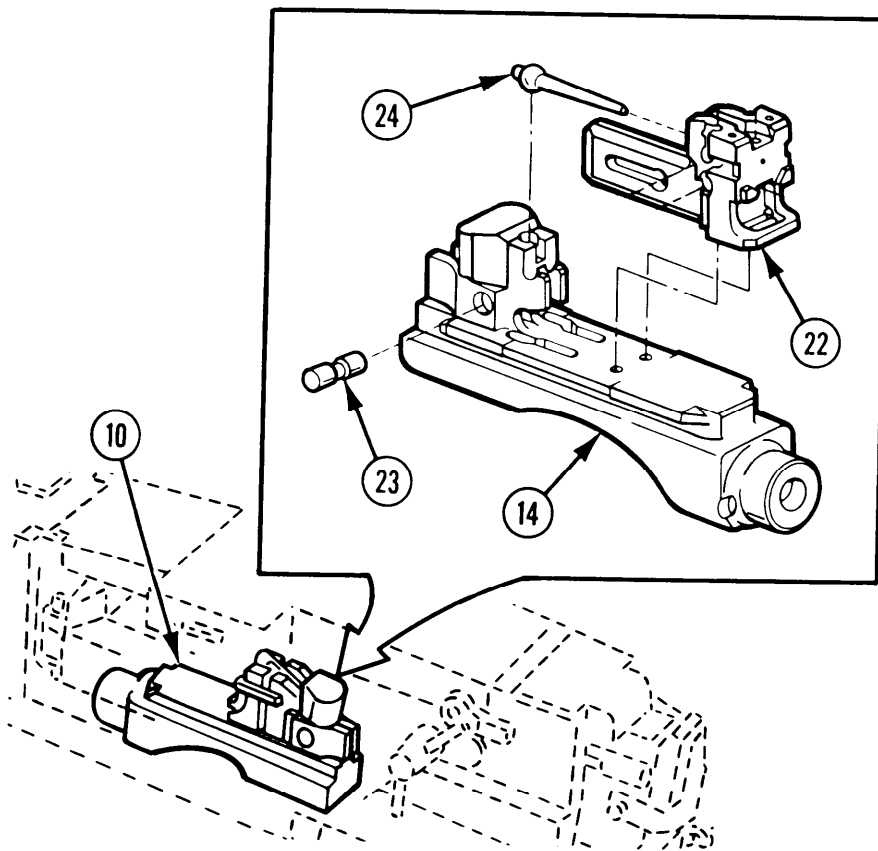
safety plunger (16) engages in a hole in the sear assembly and prevents forward movement of the bolt assembly. A series of plain and buffer disks (17) absorbs the recoil of the bolt assembly during low rate firing and ceasefire.

### 1-15. PRINCIPLES OF OPERATION. (cont)

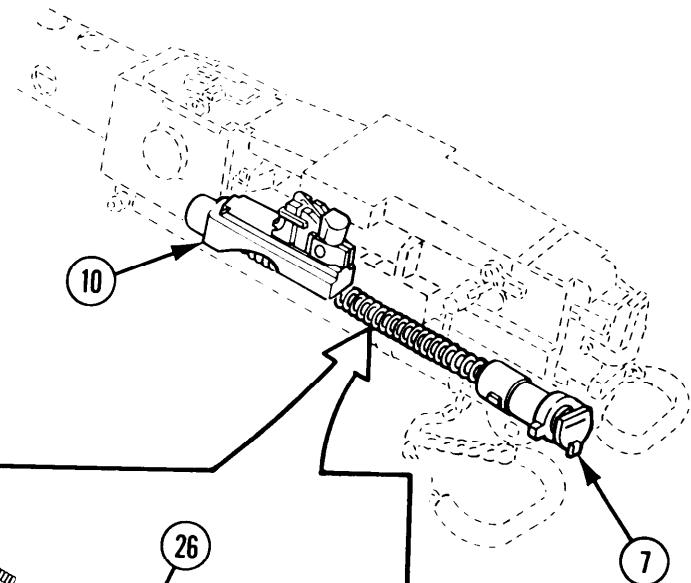


d. **Barrel Extension Assembly (18).** The return rods (19) are positioned inside the two legs of the barrel extension assembly and are compressed by the solenoid (9) of the back plate assembly (6). The barrel extension assembly contains two rail grooves which support and guide the bolt assembly

(10). An interrupted locking lug (20) permits quick barrel assembly (1) changes with rotation of 90 degrees. The interlock (21) prevents firing of the M85 machine gun if the barrel assembly is not completely locked in the barrel extension assembly.

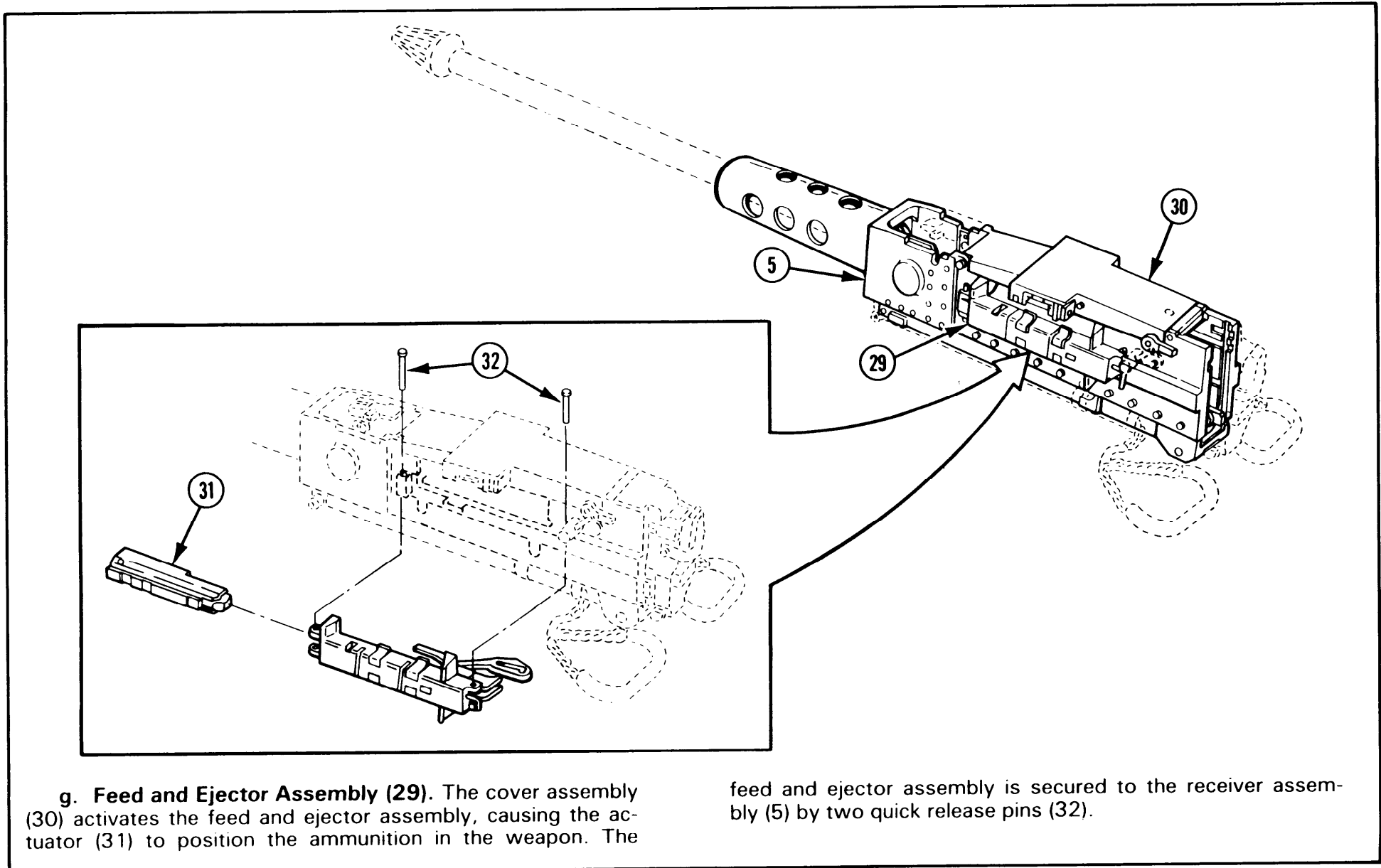


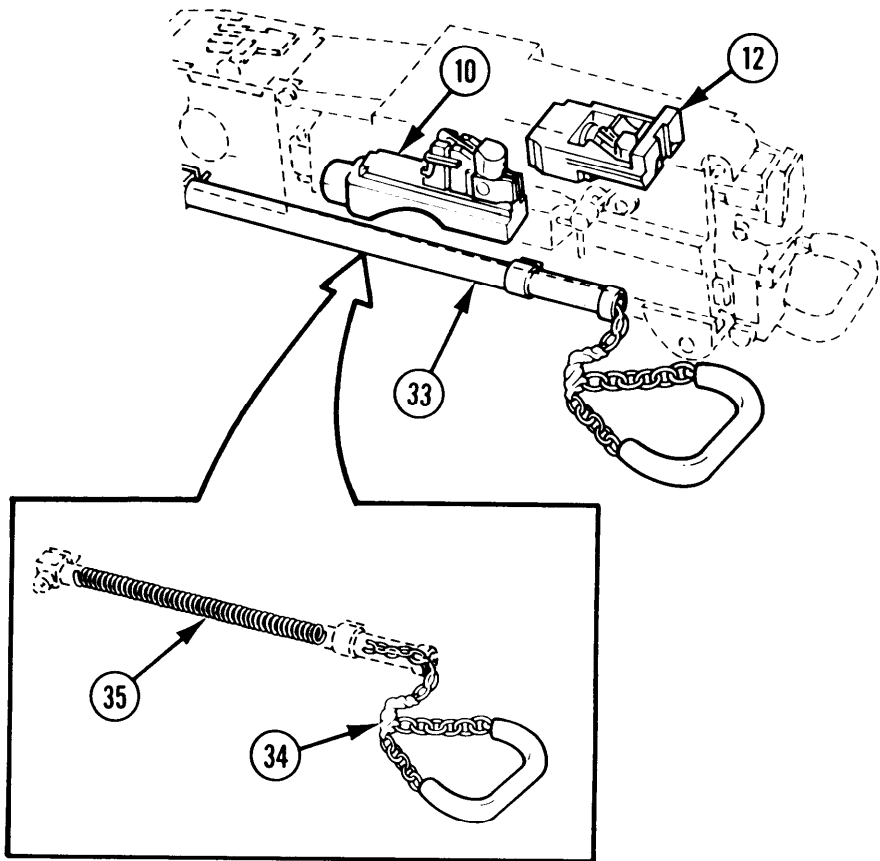
e. **Bolt Assembly (10).** The bolt block (22) is engaged in a slot in the bolt slide (14). A grooved pin (23) assembled in the bolt slide and passing through a slot in the bolt block allows approximately 5/8-in. (1.588-cm) relative movement between the bolt slide and bolt block. The fixed firing pin (24) is carried forward by the bolt slide so that it projects through the bolt block and strikes the primer.



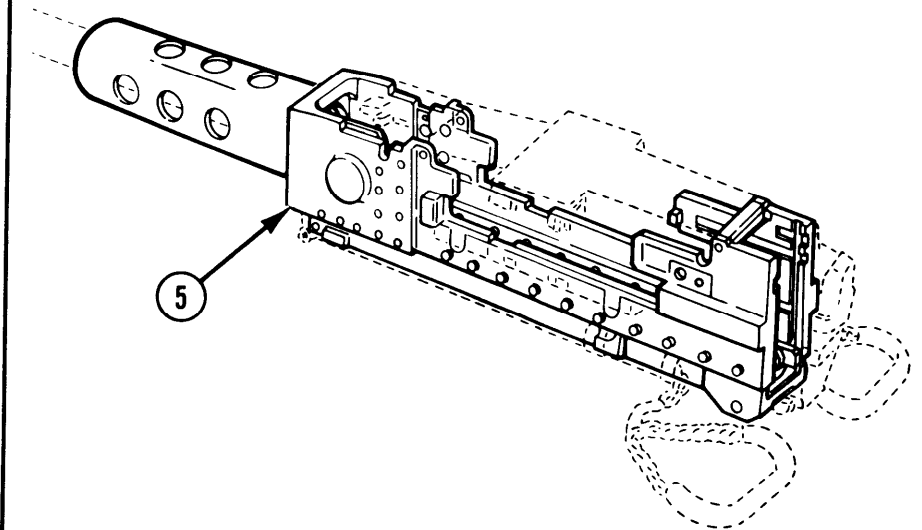
f. **Bolt Buffer Group (7).** The driving spring (25) returns the bolt assembly (10) to its battery position and the buffer spring (26) absorbs the recoil energy of the bolt assembly. The buffer sleeve (27) supports the buffer spring. The guide rod (28) guides and supports the driving spring.

### 1-15. PRINCIPLES OF OPERATION. (cont)



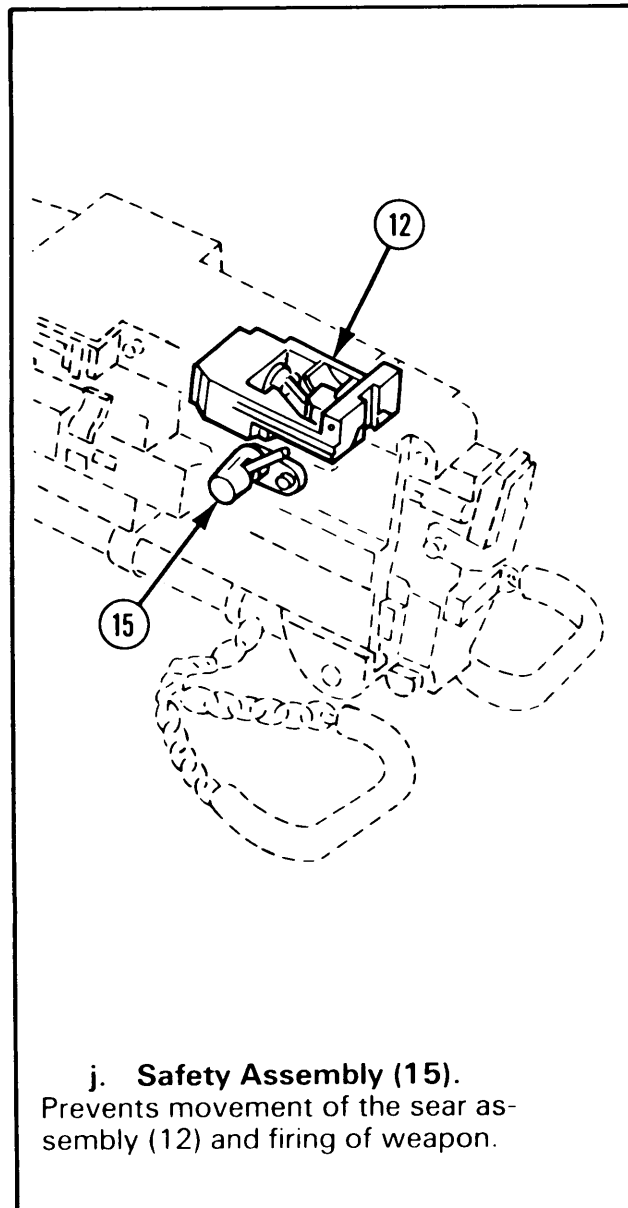


**h. Hand Charger Assembly (33).** When the charger handle (34) is pulled rearward, the bolt assembly (10) becomes engaged with the sear assembly (12) and the spring (35) returns the hand charger assembly components to the forward position.

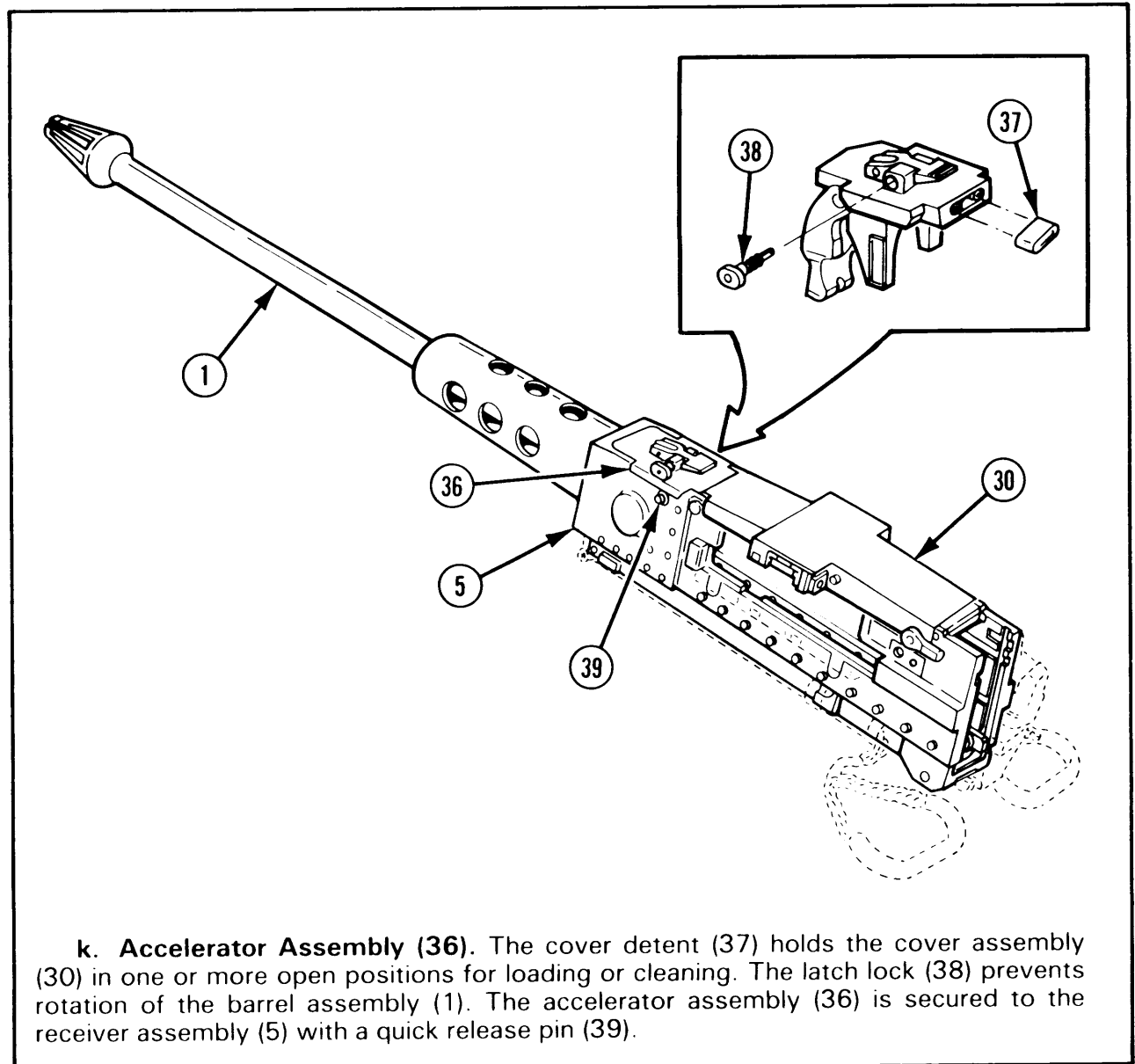


**i. Receiver Assembly (5).** Serves as a housing and support for major assemblies and components of the M85 machine gun.

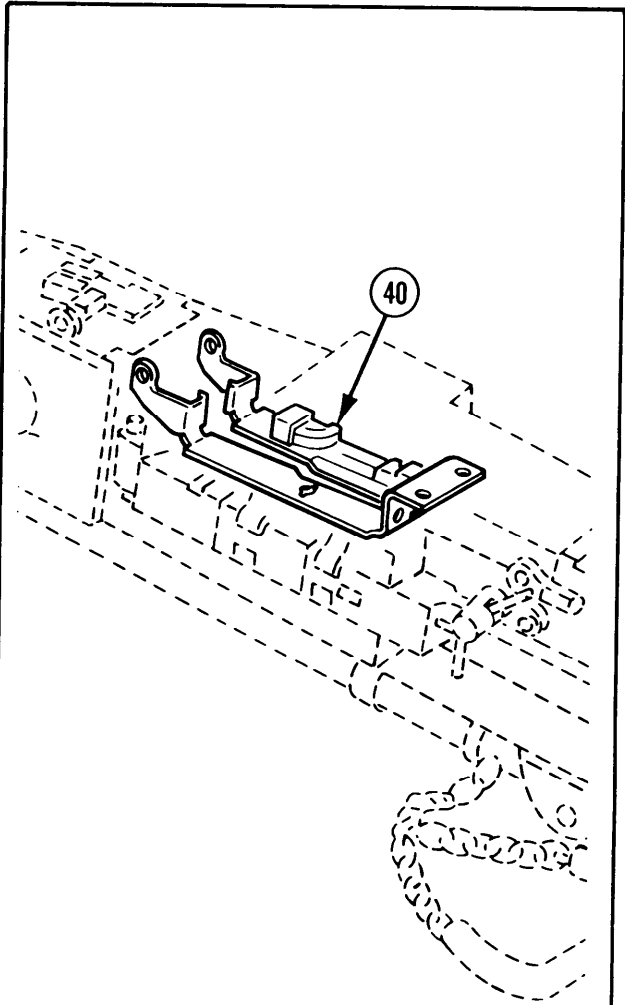
### 1-15. PRINCIPLES OF OPERATION. (cont)



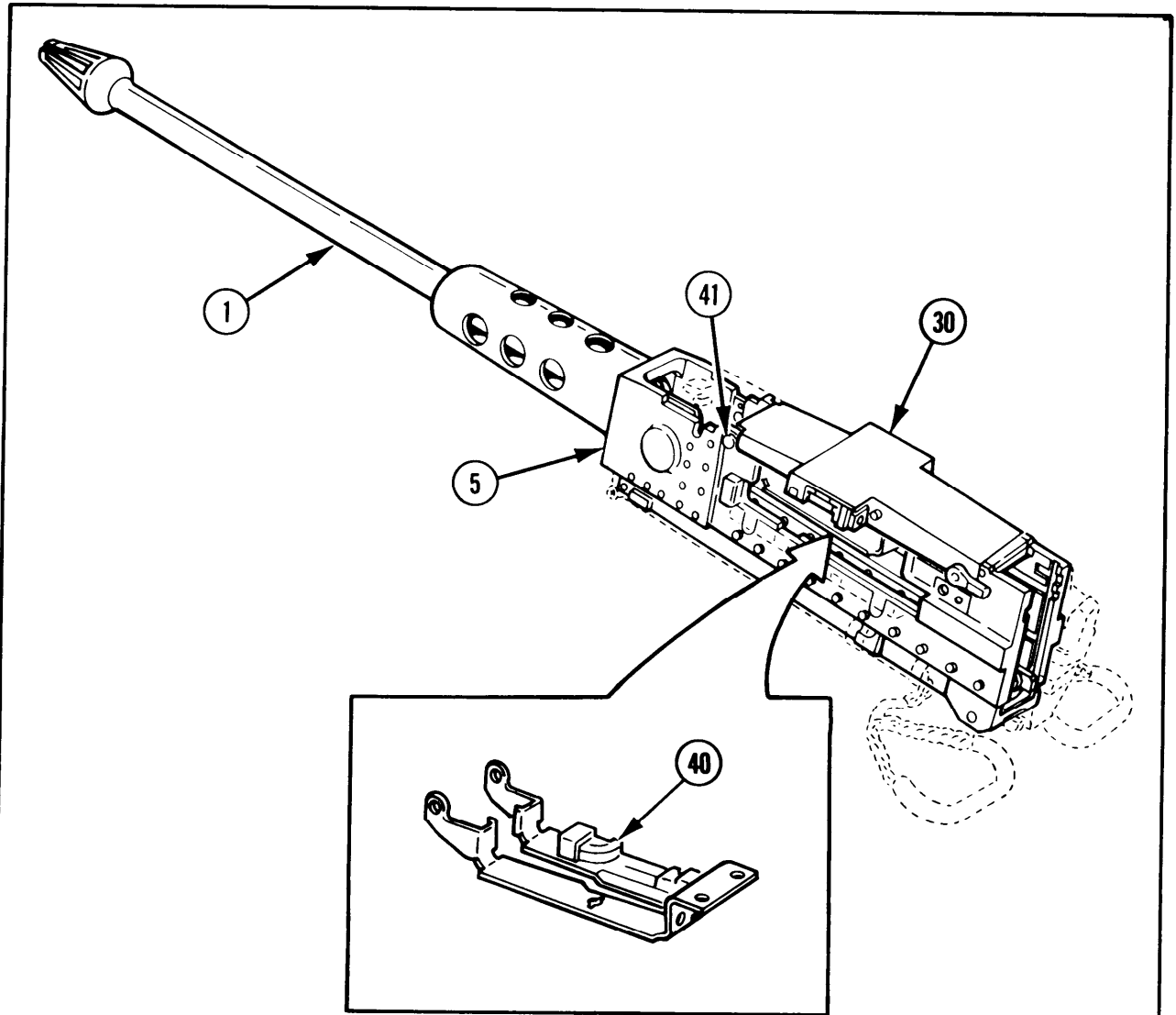
**j. Safety Assembly (15).**  
Prevents movement of the sear assembly (12) and firing of weapon.



**k. Accelerator Assembly (36).** The cover detent (37) holds the cover assembly (30) in one or more open positions for loading or cleaning. The latch lock (38) prevents rotation of the barrel assembly (1). The accelerator assembly (36) is secured to the receiver assembly (5) with a quick release pin (39).



**l. Feed Tray Assembly (40).** The feed tray assembly provides a supporting surface for the lateral movement of ammunition and empty links.



**m. Cover Assembly (30).** The components within the cover assembly work in conjunction with the feed tray assembly (40) to position and hold the ammunition for chambering in the barrel assembly (1). The cover assembly and feed tray assembly are secured to the receiver assembly (5) with a quick release pin (41).





## CHAPTER 2

# ORGANIZATIONAL MAINTENANCE INSTRUCTIONS

### Section I. SERVICE UPON RECEIPT

#### 2-1 GENERAL

When an M85 machine gun is received, it is the responsibility of the user to determine whether the machine gun has been

properly prepared for service by the supplying organization and whether it is in condition to perform its mission.

#### 2-2. SERVICE UPON RECEIPT OF MATERIEL.

##### WARNING

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

**Table 2-1. SERVICE UPON RECEIPT-M85 MACHINE GUN**

LOCATION	ITEM	ACTION	REMARKS
1. Container	Basic issue items	Check unpacked equipment.  (1) Inspect the equipment for damage incurred during shipment. If the equipment has been damaged, report the damage on SF 364, Report of Discrepancy (ROD).	

**2-2. SERVICE UPON RECEIPT OF MATERIEL. (cont)****Table 2-1. SERVICE UPON RECEIPT-M85 MACHINE GUN (cOnt)**

LOCATION	ITEM	ACTION	REMARKS
1. Container (cont)	Basic issue items (cont)	(2) Check the equipment against the packing list to see if the shipment is complete. Report all discrepancies in accordance with the instructions of DA PAM 738-750.  (3) Check to see whether the equipment has been modified.	
2. M85 machine gun	a. Barrel assembly  b. Machine gun	Remove volatile corrosion inhibitor (VCI) from barrels. Discard.  (1) Disassemble machine gun and inspect for missing parts.  (2) Clean and lubricate.  (3) Reassemble.  (4) Pull up cover latch lever.  (5) Open cover assembly.  (6) Make sure projectiles are tight in cartridge cases.  (7) Load with first round over belt retaining pawls.  (8) Close cover assembly.	TM 9-1005-231-10  TM 9-1005-231-10  TM 9-1005-231-10

- (9) Place safety assembly on F.
- (10) Pull charger handle (black) back rapidly until bolt assembly locks in sear assembly; then release charger handle (black).
- (11) Pull manual firing handle (red) to fire.

**NOTE**

If bolt assembly does not go forward, evacuate to direct support maintenance.

- (12) Pull charger handle (black) back rapidly until bolt assembly locks in sear assembly; then release.

**NOTE**

Check for ejection of DUMMY round. If round does not eject, evacuate to direct support maintenance.

- (13) Repeat steps 10, 11, and 12 until all DUMMY rounds have been hand-cycled.
- (14) Place safety assembly on S.
- (15) Pull manual firing handle (red) to fire.

**NOTE**

If bolt assembly goes forward, disassemble (p 2-30) M85 machine gun and reassemble (p 2-32) correctly. Repeat steps 14 and 15. If bolt assembly still goes forward, evacuate to direct support maintenance.

- (16) Clear weapon and make sure bore and chamber are free of obstructions.

c. Feed

Change from left- to right-hand feed or vice versa as applicable.

See following procedure.

## 2-3. CHANGING FROM LEFT- TO RIGHT-HAND FEED.

### DISASSEMBLY

#### CAUTION

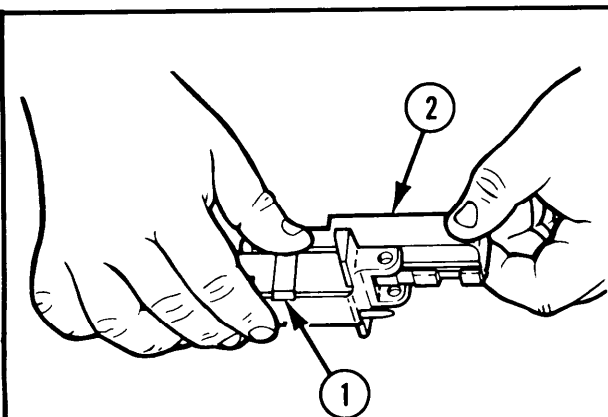
The safety assembly must be on the feeding side of the receiver assembly (opposite of ejection).

#### NOTE

The M85 machine gun must be partially disassembled for the following procedure. To change from right- to left-hand feed, perform following procedures.

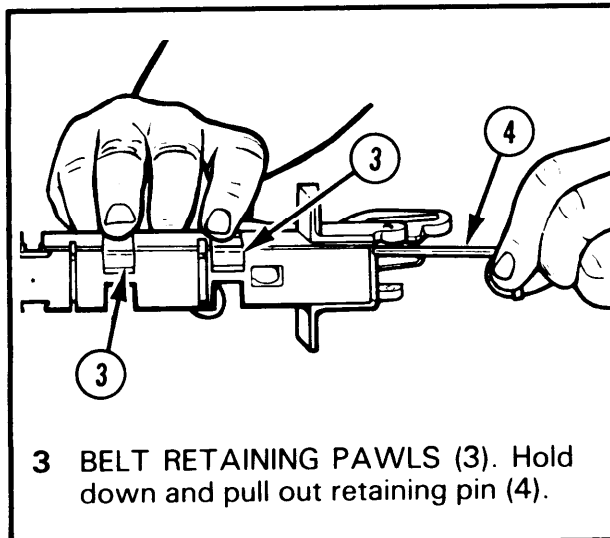
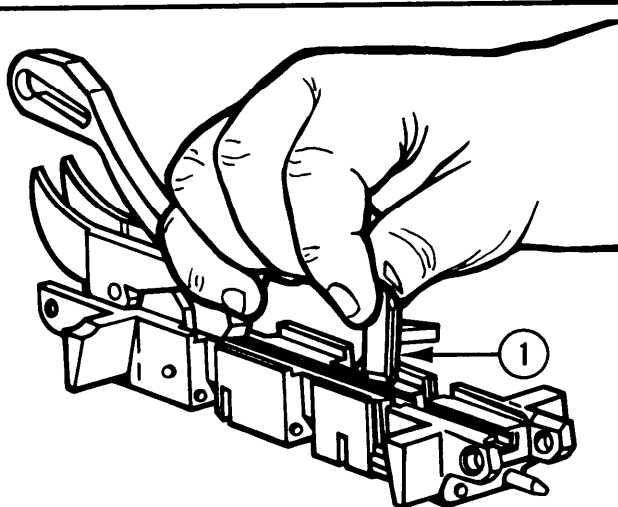
- 1 FEED AND EJECTOR ASSEMBLY, FEED TRAY ASSEMBLY, AND COVER ASSEMBLY. Remove. See disassembly procedures (TM 9-1005-231-10).
- 2 SAFETY ASSEMBLY. Remove (p 2-8).

### FEED AND EJECTOR ASSEMBLY



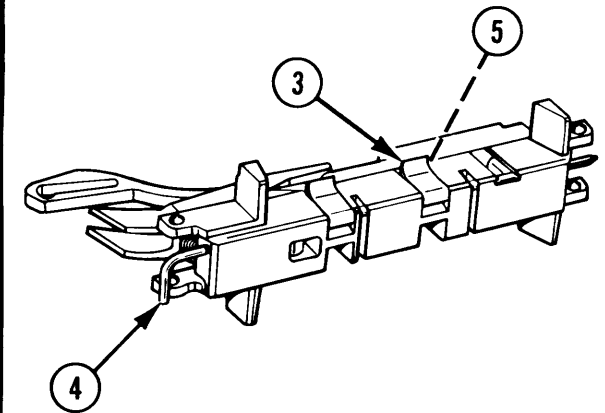
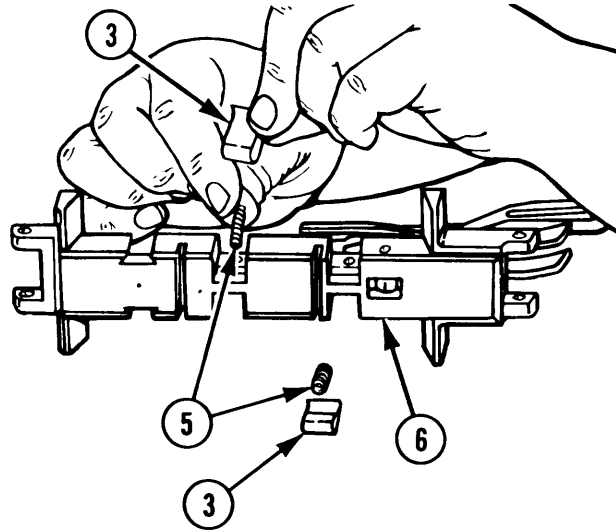
- 1 RETAINER (1). Press down and hold, then remove actuator (2).

- 2 RETAINER (1). Remove.



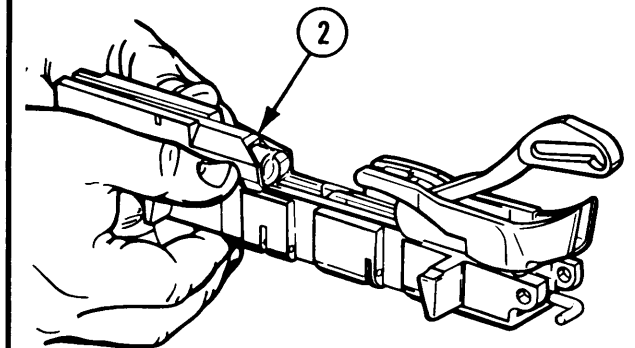
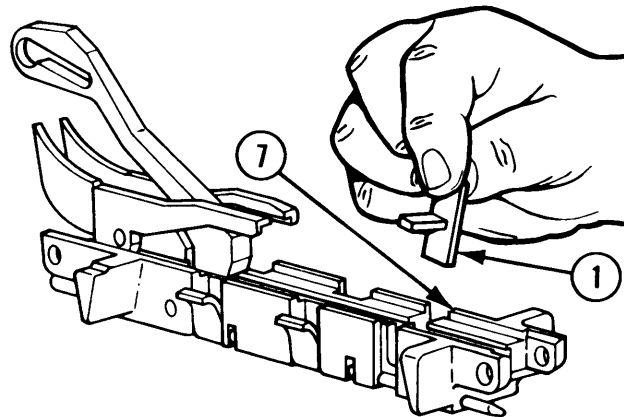
- 3 BELT RETAINING PAWLS (3). Hold down and pull out retaining pin (4).

- 4 BELT RETAINING PAWLS (3) AND SPRINGS (5). Remove.
- 5 FEED AND EJECTOR ASSEMBLY (6). Turn over.



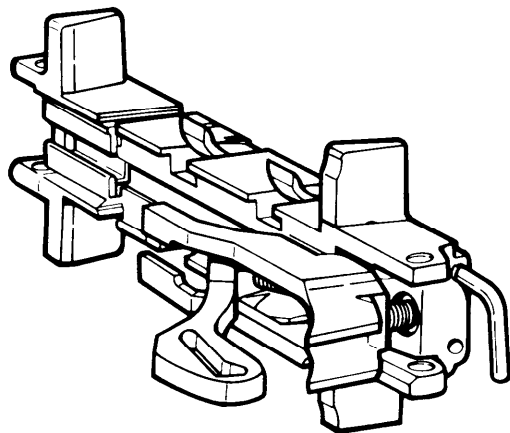
- 6 SPRINGS (5), BELT RETAINING PAWLS (3), AND RETAINING PIN (4). Install.

- 7 RETAINER (1). Push into slot (7) on opposite side of belt retaining pawls, press, and install actuator (2).

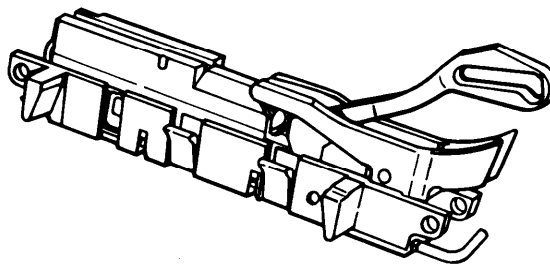


## 2-3. CHANGING FROM LEFT- TO RIGHT-HAND FEED. (cont)

### FEED AND EJECTOR ASSEMBLY (cont)

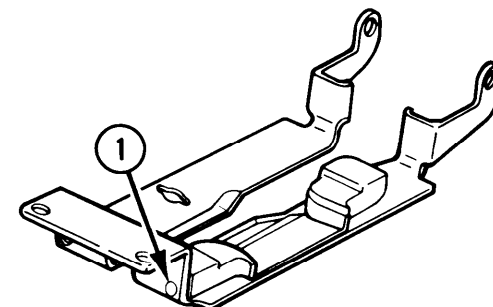


RIGHT-HAND FEED



LEFT-HAND FEED

### FEED TRAY ASSEMBLY

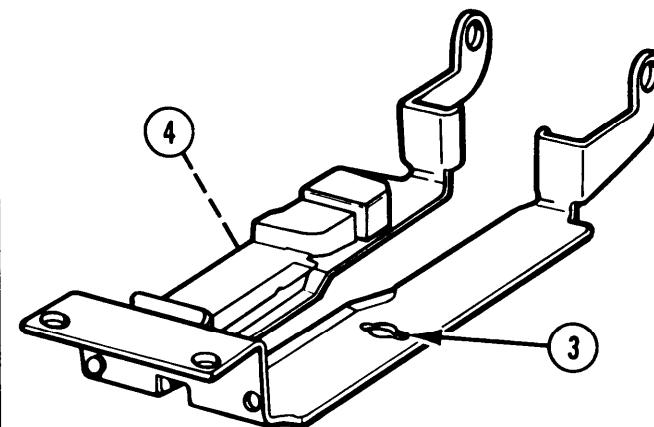
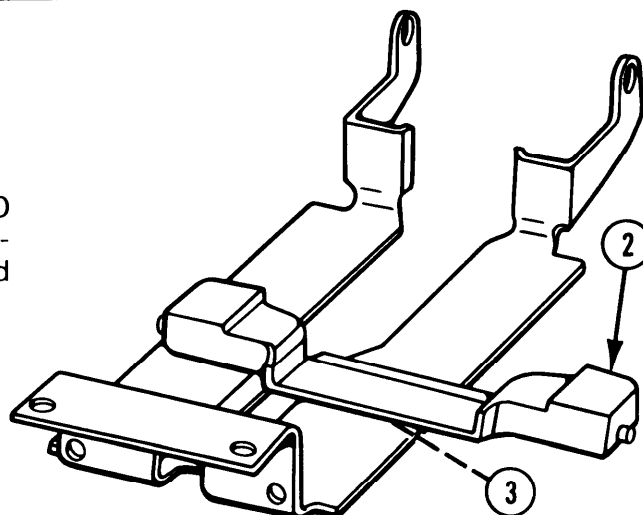


#### NOTE

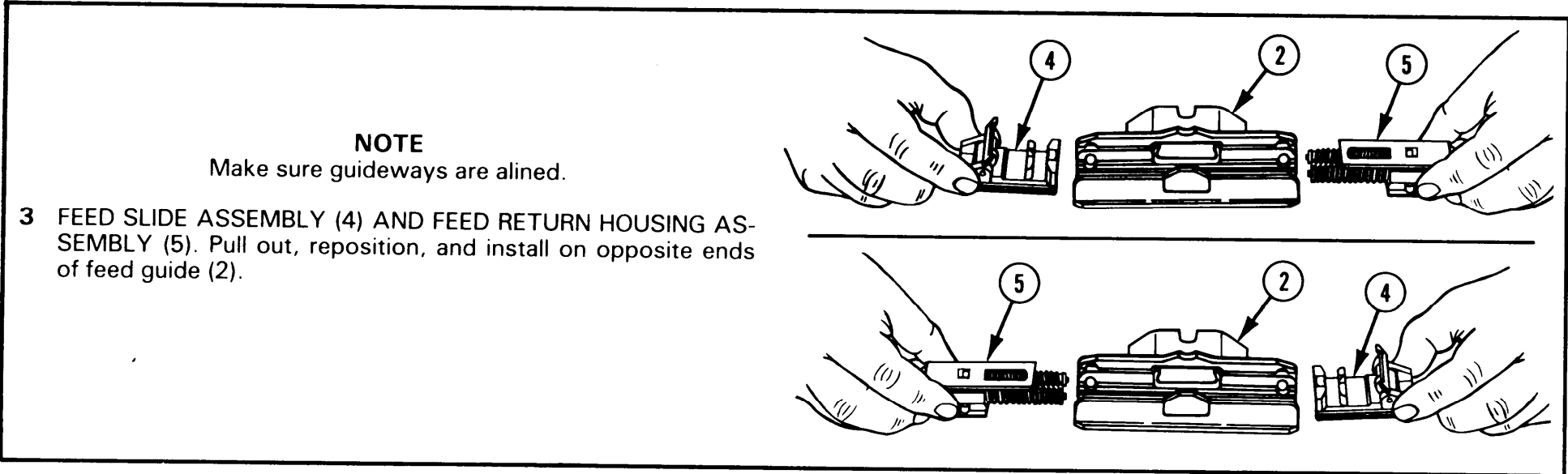
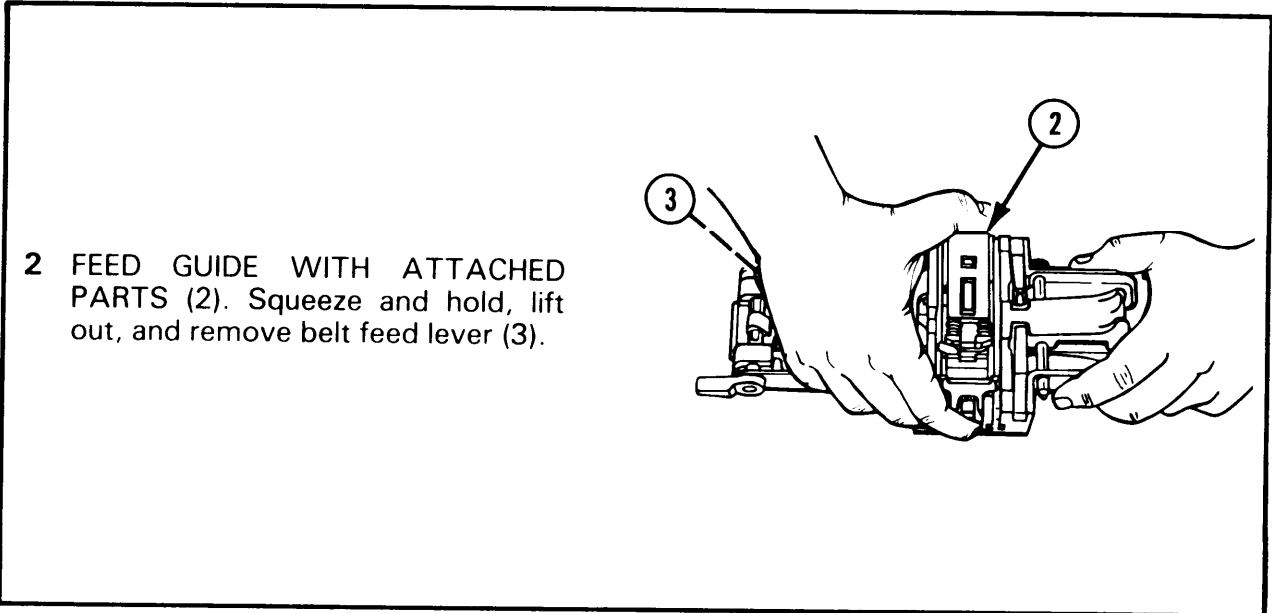
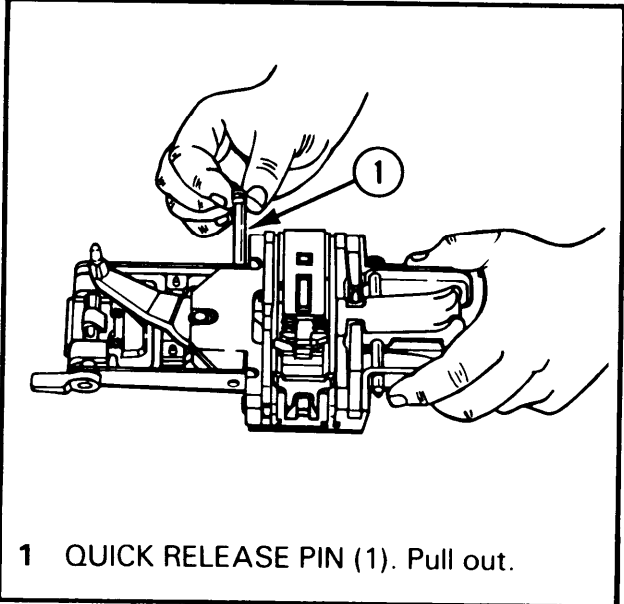
Beveled surface on feed tray assembly should be toward the center.

1 LINK GUIDE PLUNGER (1). Push in.

2 LINK TRAY GUIDE (2). Turn 90 degrees and lift out of slot (3). Install in slot (4) on other side, and rotate to lock in place.

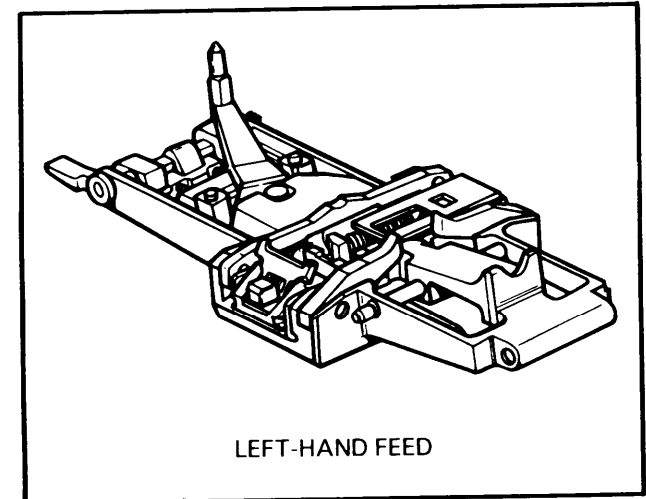
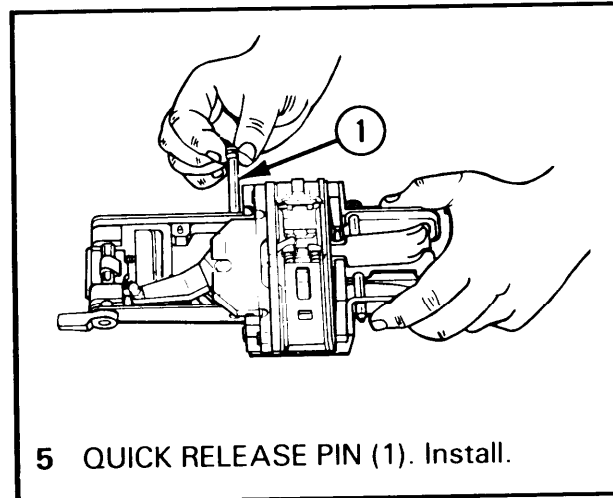
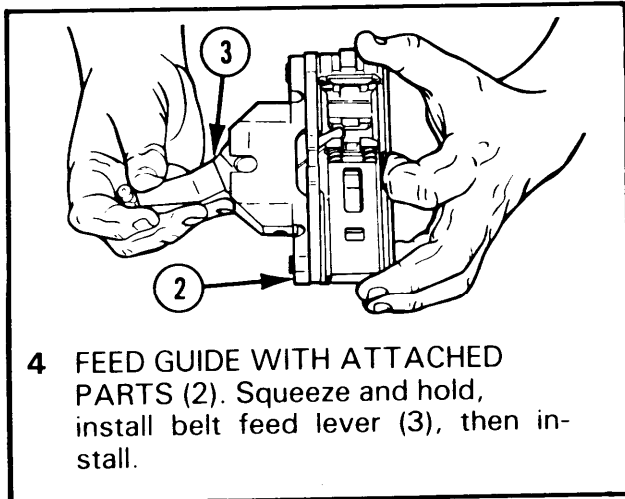


**COVER ASSEMBLY**

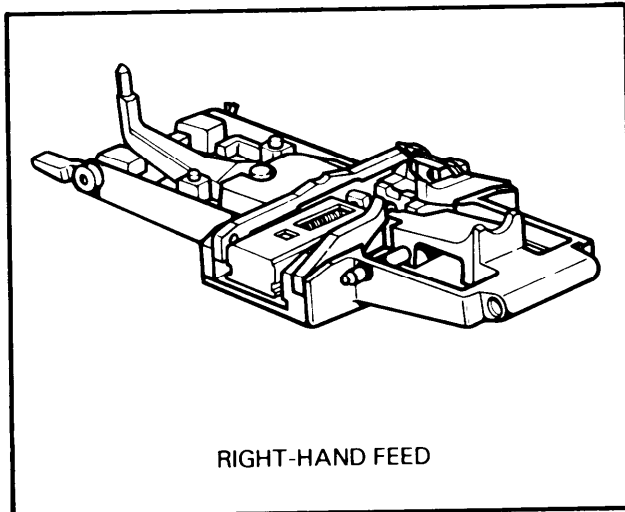


### 2-3. CHANGING FROM LEFT- TO RIGHT-HAND FEED. (cont)

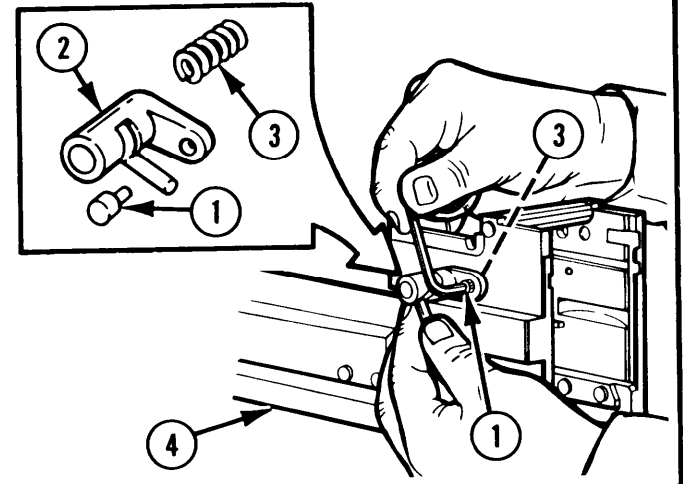
#### COVER ASSEMBLY (cont)



#### SAFETY ASSEMBLY



- 1** SCREW (1). Remove.
- 2** SAFETY ASSEMBLY (2) AND SPRING (3). Remove from receiver assembly (4).
- 3** SPRING (3), SAFETY ASSEMBLY (2), AND SCREW (1). Install on opposite side.





## REASSEMBLY

Reassemble weapon (TM 9-1005-231-10).

### NOTE

TM 9-1005-231-10 tells how to reassemble for left-hand feed. To reassemble for right-hand feed, replace all parts except manual trigger on opposite side than instructions indicate.

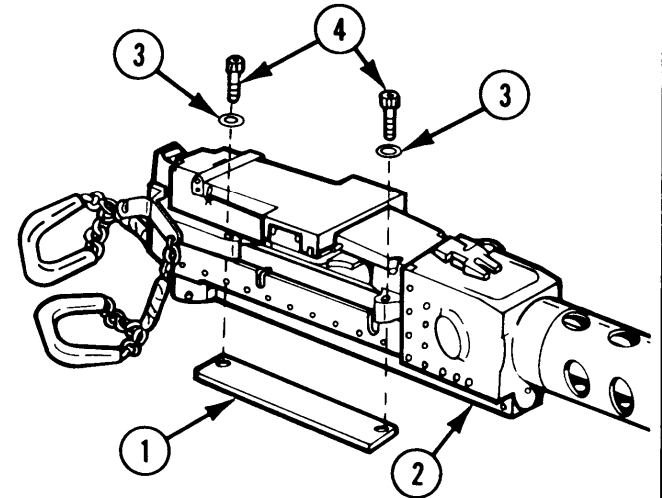
## DEFLECTOR PLATE

### NOTE

The deflector plate with component parts is issued with the appropriate vehicles.

Deflector plate is used on left-hand feed only.

- 1 DEFLECTOR PLATE (1). Position on receiver assembly (2).
- 2 LOCKWASHERS (3) AND SCREWS (4). Install.



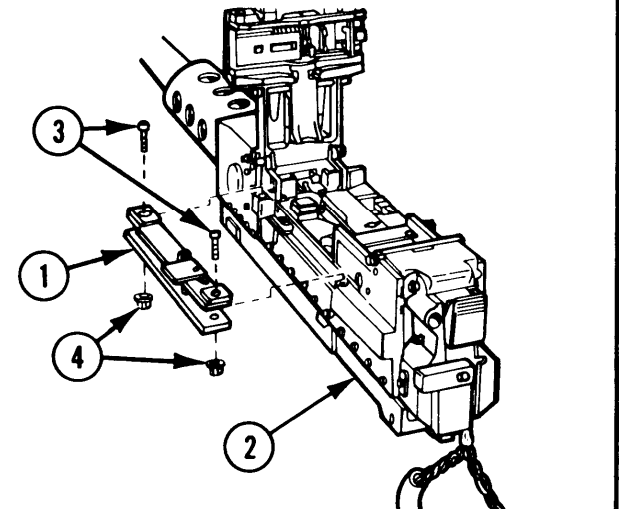
## SPINNER EJECTOR

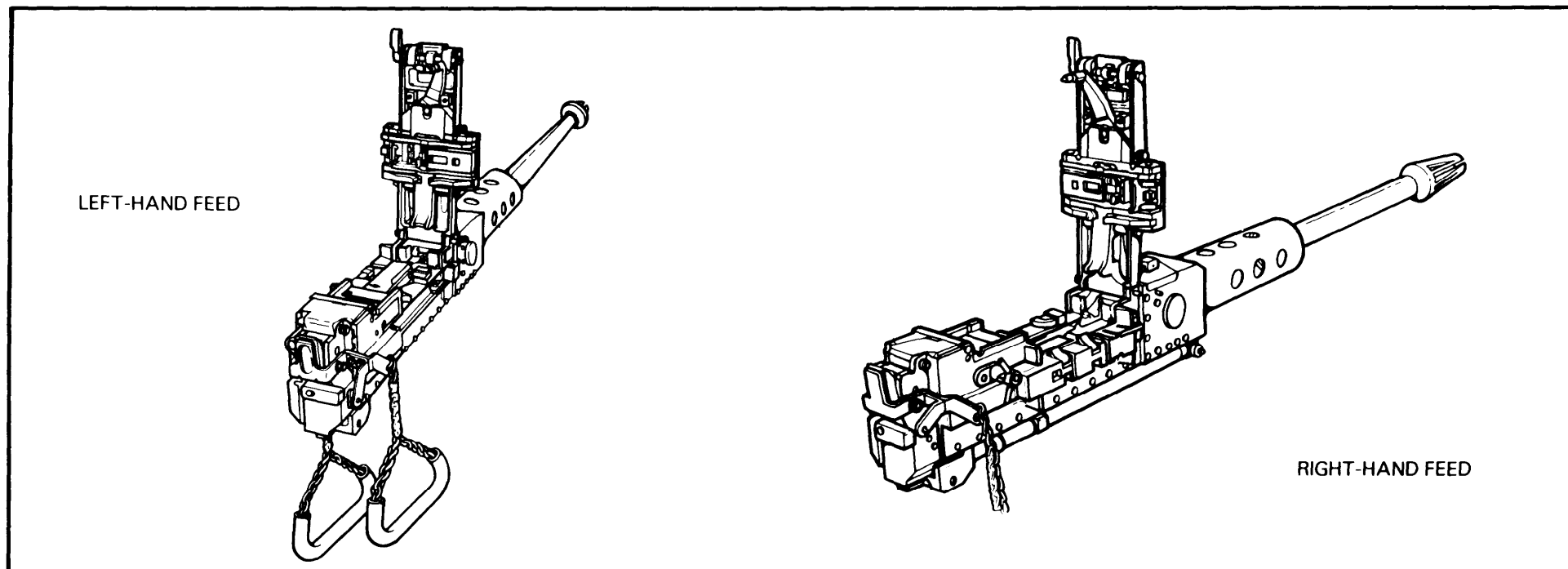
### NOTE

The spinner ejector with component parts is issued with the appropriate vehicles.

Spinner ejector is used on right-hand feed only.

- 1 SPINNER EJECTOR (1). Position on receiver assembly (2).
- 2 SCREWS (3) AND NUTS (4). Install.



**2-3. CHANGING FROM LEFT-TO RIGHT-HAND FEED. (cont)****SPINNER EJECTOR (cont)****Section II. PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)****2-4. GENERAL.**

To ensure maximum operational readiness, it is necessary that the M85 machine gun be systematically inspected at regular quarterly intervals (90 days) so that defects may be discovered and corrected before they result in serious damage

or failure. This inspection will be accomplished in coordination with the crew/operator as part of the quarterly services. Unusual conditions may require a more frequent interval. Any deficiencies discovered that are beyond organizational authorization will be referred to direct support maintenance for correction.

**2-5. PREVENTIVE MAINTENANCE CHECKS AND SERVICES.**

Table 2-2 lists those preventive maintenance checks and services to be performed. The table consists of three columns.

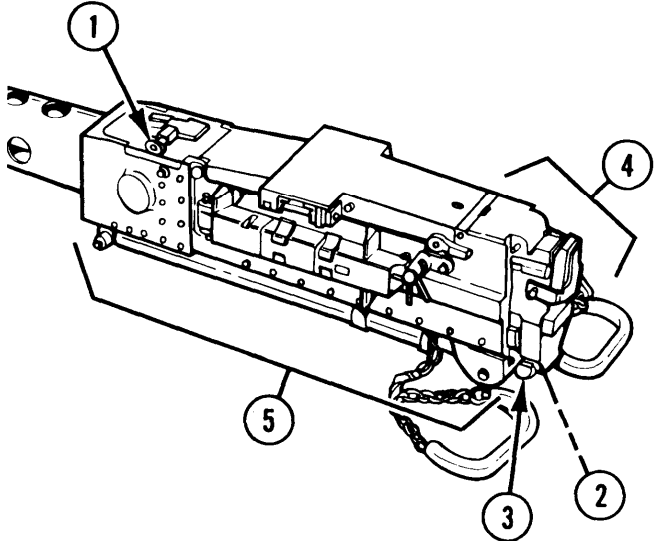
**a. Item Number Column.** The first column contains the item number which shall be used as a source of item numbers

for the TM Number Column on DA Form 2404, Equipment Inspection and Maintenance Worksheet, in recording results of PMCS.

**b. Item to be Inspected Column.** The second column lists the item to be inspected.

**c. Procedures Column.** The third column contains the illustrated procedures to be followed.

**Table 2-2. ORGANIZATIONAL PREVENTIVE MAINTENANCE CHECKS AND SERVICES QUARTERLY SCHEDULE**

Item No.	Item to be Inspected	Procedures	
1	M85 Machine Gun	<p style="text-align: center;"><b>WARNING</b></p> <p>Before starting an inspection, be sure to clear M85 machine gun. Live ammunition should not be near the work area.</p> <p>a. Function check the weapon before disassembling by performing the following procedure.</p> <p>b. Check barrel lock (1) for positive retention of barrel assembly.</p> <p>c. Be sure back plate latch (2) and back plate lock (3) secure back plate assembly (4) to receiver assembly (5).</p>	



<b>2-5. PREVENTIVE MAINTENANCE CHECKS AND SERVICES. (cont)</b>
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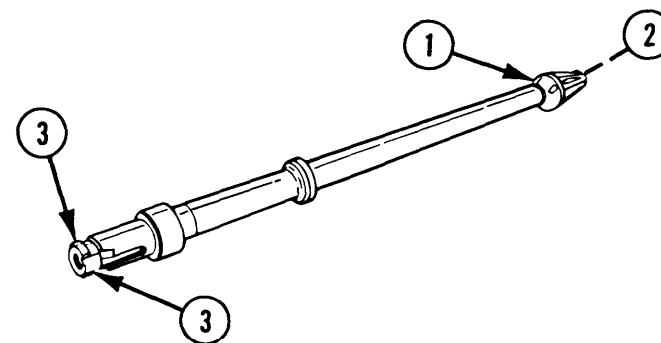
**Table 2-2. ORGANIZATIONAL PREVENTIVE MAINTENANCE CHECKS AND SERVICES  
QUARTERLY SCHEDULE (cont)**

Item No.	Item to be Inspected	Procedures
1	M85 Machine Gun (cont)	<p align="center"><b>CAUTION</b></p> <p>Never pull back bolt assembly with safety assembly on S. The safety assembly will be damaged.</p> <p>d. Pull back bolt assembly with charger handle (6) to be sure bolt assembly moves freely without binding.</p> <p>e. Pull back bolt assembly with charger handle (6) and lock to rear. Place safety assembly (7) on S and attempt to fire. Bolt assembly should not move forward.</p> <p>f. Place safety assembly (7) on F. Hold charger handle (6); pull trigger extension handle (8) and allow bolt assembly to move forward slowly.</p> <p align="center"><b>NOTE</b></p> <p>Clear weapon and disassemble in accordance with TM 9-1005-231-10. inspect all assemblies for missing, broken, or loose parts. Inspect parts for</p> <div data-bbox="1327 629 1944 1199" style="float: right; text-align: center;"> </div>

2 Barrel and Flash Suppressor

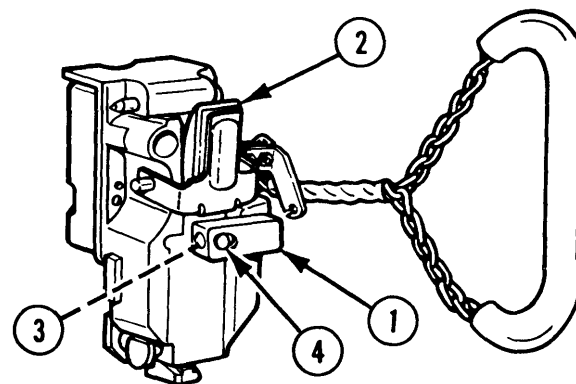
cracks, dents, burrs, excessive wear, rust, or corrosion. Be sure all items are cleaned and lubricated in accordance with the instructions contained in TM 9-1005-231-10. Repair or replace defective parts, if authorized at organizational level, or evacuate the weapon to direct support if appropriate.

- a. Be sure flash suppressor (1) is secure.
- b. Be sure bore (2) is free of obstructions and not bulged.
- c. Be sure locking lugs (3) are not damaged or burred.
- d. Check lands and grooves of bore (2) for wear and/or pitting.



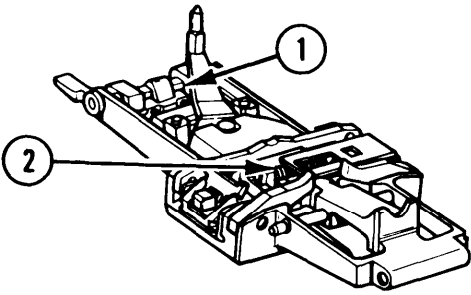
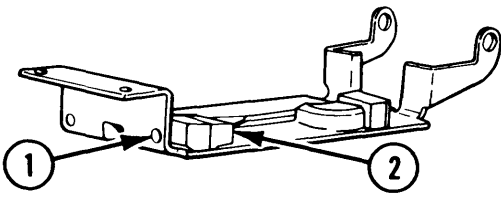
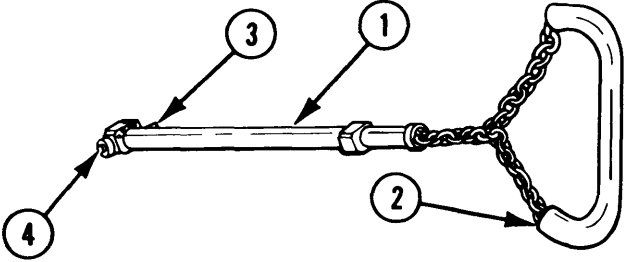
3 Back Plate Assembly

- a. Be sure rate selector (1) operates easily.
- b. Check spring action of trigger assembly (2), rate selector plunger (3), and striker (4).
- c. Check for cracks and foreign matter.



## 2-5. PREVENTIVE MAINTENANCE CHECKS AND SERVICES. (cont)

**Table 2-2. ORGANIZATIONAL PREVENTIVE MAINTENANCE CHECKS AND SERVICES  
QUARTERLY SCHEDULE (cont)**

Item No.	Item to be Inspected	Procedures	
4	Cover Assembly	<p>a. Check that latch (1) functions and locks properly.</p> <p>b. Check for wear, cracks, burrs, damage, and functioning of all parts.</p> <p>c. Check springs (2) for tension.</p>	
5	Feed Tray Assembly	<p>a. Check for dirt, rust, cracks, dents, and distortions.</p> <p>b. Check for spring action of link guide plunger (1) on link tray guide (2).</p>	
6	Hand Charger Assembly	<p>a. Check tube (1) for dirt, dents, and distortions.</p> <p>b. Check return spring action of charger handle (2).</p> <p>c. Be sure shoulder pin (3) is not bent or broken.</p> <p>d. Check spring action of charger detent (4).</p>	

7 Feed and Ejector Assembly

- a. Check for proper assembly.
- b. Check for cracks, burrs, wear, and functioning of all parts.
- c. Be sure ejector is not dented or bent.

8 Bolt Buffer Group

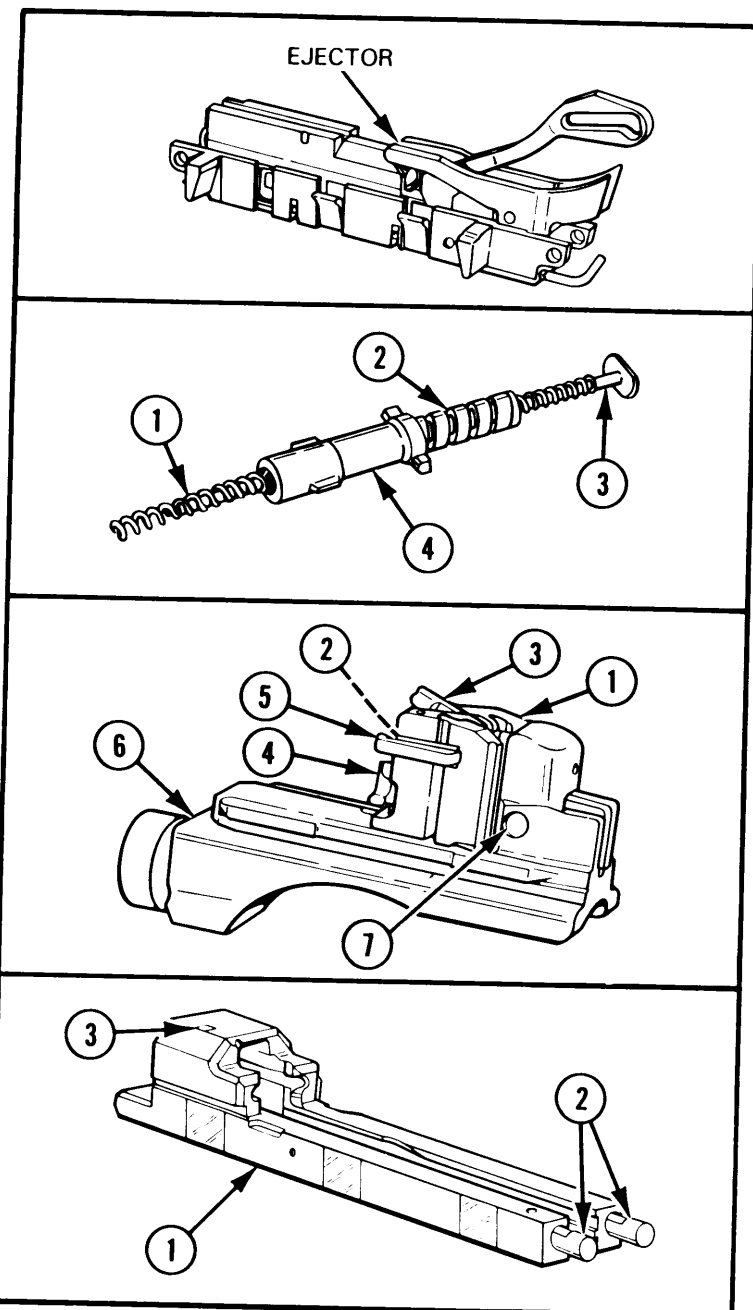
- a. Check driving spring (1) and buffer spring (2) for kinks, distortions, and spring action.
- b. Be sure guide rod (3) is straight and not burred or damaged.
- c. Check buffer sleeve (4) for cracks and burrs.

9 Bolt Assembly

- a. Check action of RH and LH bolt locks (1), firing pin (2), rammer (3), extractor (4), and cartridge retainers (5).
- b. Be sure that bolt assembly (6) slides freely in barrel extension assembly.
- c. Make sure grooved pin (7) is present and in place.

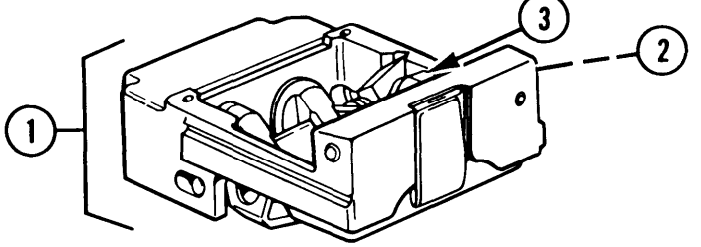
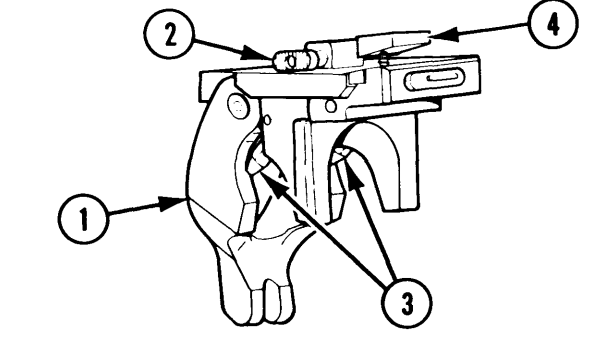
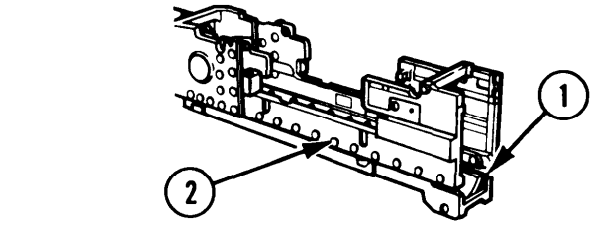
10 Barrel Extension Assembly

- a. Check for foreign matter, burrs, or cracks in barrel extension subassembly (1).
- b. Check spring action of return rods (2) and interlock (3).

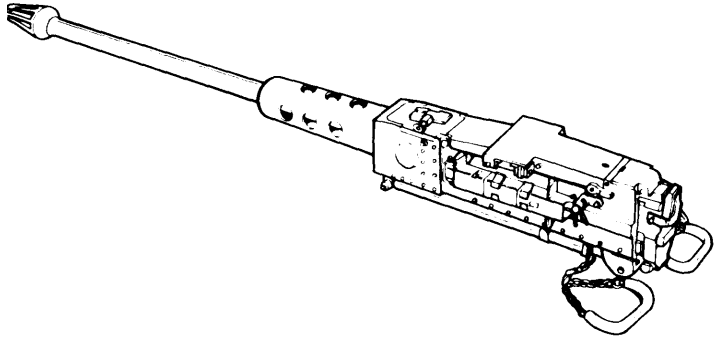


## 2-5. PREVENTIVE MAINTENANCE CHECKS AND SERVICES. (cont)

**Table 2-2. ORGANIZATIONAL PREVENTIVE MAINTENANCE CHECKS AND SERVICES  
QUARTERLY SCHEDULE (cont)**

Item No.	Item to be Inspected	Procedures	
11	Sear Assembly	<p>a. Check for excess wear of sear assembly (1).</p> <p>b. Check spring action of detent (2) in sear block and bolt sear (3).</p>	 <p>The diagram shows a perspective view of the sear assembly. Callout 1 points to the sear assembly housing. Callout 2 points to a detent mechanism. Callout 3 points to the bolt sear component.</p>
12	Accelerator Assembly	<p>a. Check spring action of accelerator (1), barrel lock (2), accelerator plungers (3), and barrel latch assembly (4).</p> <p>b. Check that all pins are present and secure.</p> <p>c. Check for rust, cracks, rough edges, and burrs.</p>	 <p>The diagram shows a perspective view of the accelerator assembly. Callout 1 points to the accelerator lever. Callout 2 points to the barrel lock. Callout 3 points to the accelerator plungers. Callout 4 points to the barrel latch assembly.</p>
13	Receiver Assembly	<p>a. Check for chipped, burred, or cracked camways or guides (1). (Components must operate smoothly without binding when assembled in receiver assembly.)</p> <p>b. Check for loose rivets (2).</p>	 <p>The diagram shows a perspective view of the receiver assembly. Callout 1 points to the camways and guides. Callout 2 points to the rivets on the receiver housing.</p>



14	M85 Machine Gun	<p>Assemble the weapon in accordance with TM 9-1005-231-10, making sure all components are lubricated and installed correctly. Check functioning with belted DUMMY ammunition.</p> <p style="text-align: center;"><b>NOTE</b> Cleaning and lubrication will be accomplished in coordination with crew/operator as part of quarterly services.</p>	
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### Section III. ORGANIZATIONAL TROUBLESHOOTING

#### 2-6. TROUBLESHOOTING INFORMATION.

a. The symptom index can be used as a quick guide to troubleshooting. Common malfunctions are listed with a page number reference to the troubleshooting table where a test or inspection and corrective action are provided.

b. Table 2-3 (p 2-18) lists the malfunction, the test or inspection indicating the malfunction, and the corrective action needed. There are illustrations to show location of parts. If the malfunction still exists after all listed corrective actions have been performed, evacuate to direct support maintenance.

#### SYMPTOM INDEX

	Troubleshooting Procedure Page
<b>M85 MACHINE GUN</b>	
Fails to feed . . . . .	2-18
Fails to chamber . . . . .	2-20
Fails to lock . . . . .	2-21
Fails to fire . . . . .	2-22



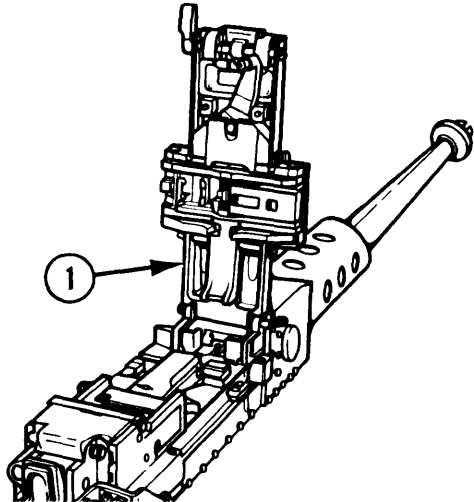
**2-6. TROUBLESHOOTING INFORMATION. (cont)**

**SYMPTOM INDEX (cont)**

**M85 MACHINE GUN (cont)**

	Troubleshooting Procedure Page
Fails to unlock .....	2-23
Fails to extract .....	2-23
Fails to eject .....	2-24
Fails to cock .....	2-25
Fires uncontrollably .....	2-26
Fires at a high rate with rate selector in low rate position .....	2-26
Rate control is erratic .....	2-27

**Table 2-3. ORGANIZATIONAL TROUBLESHOOTING**

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION	LOCATION
<p><b>M85 MACHINE GUN</b></p> <p><b>1. FAILS TO FEED.</b></p> <p>Step 1. Check cover assembly (1) for weak or missing springs.</p> <p>Evacuate to direct support maintenance.</p>	

Step 2. Check feed and ejector assembly (2) for missing retainer (3).

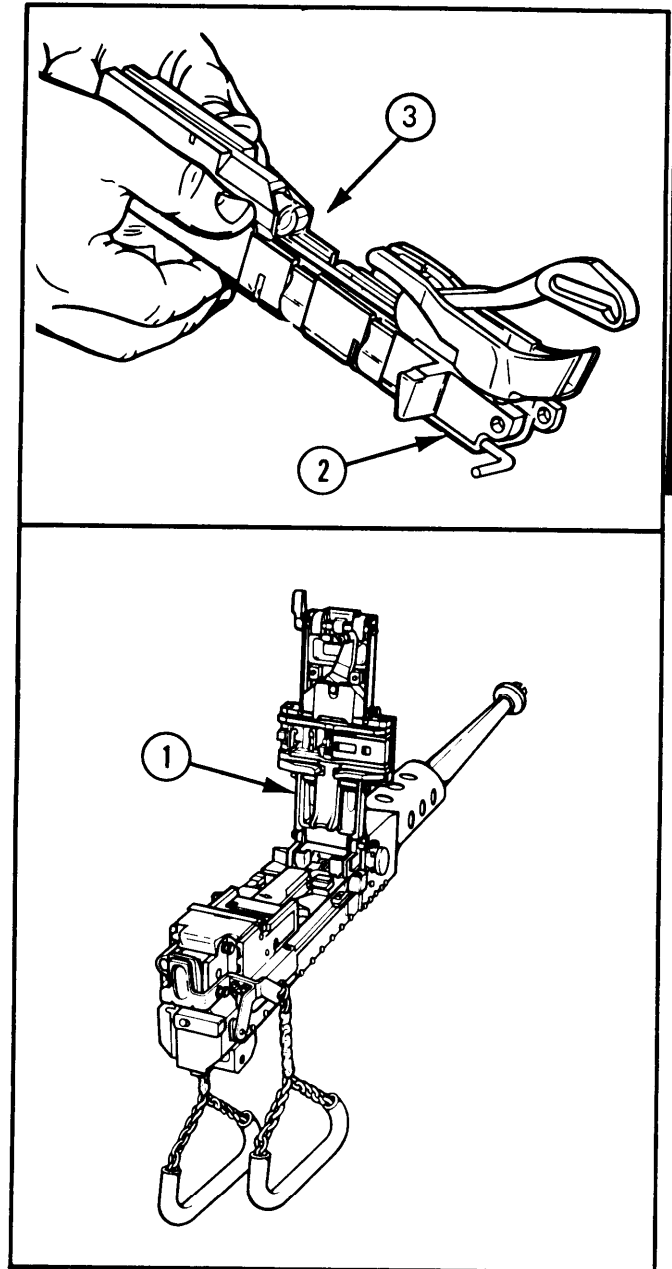
Install retainer (3).

Step 3. Inspect cover assembly (1) and feed and ejector assembly (2) for incorrect assembly.

Evacuate to direct support maintenance.

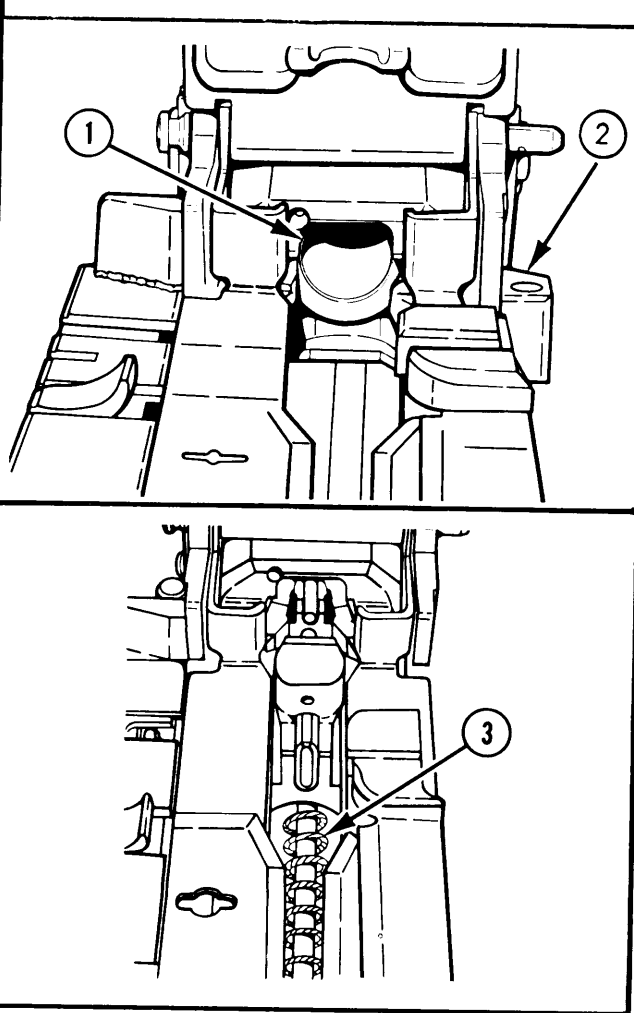
Step 4. Check that ammunition is properly loaded.

Remove ammunition and load properly (TM 9-1005-231-10).



**2-6, TROUBLESHOOTING INFORMATION. (cont)**

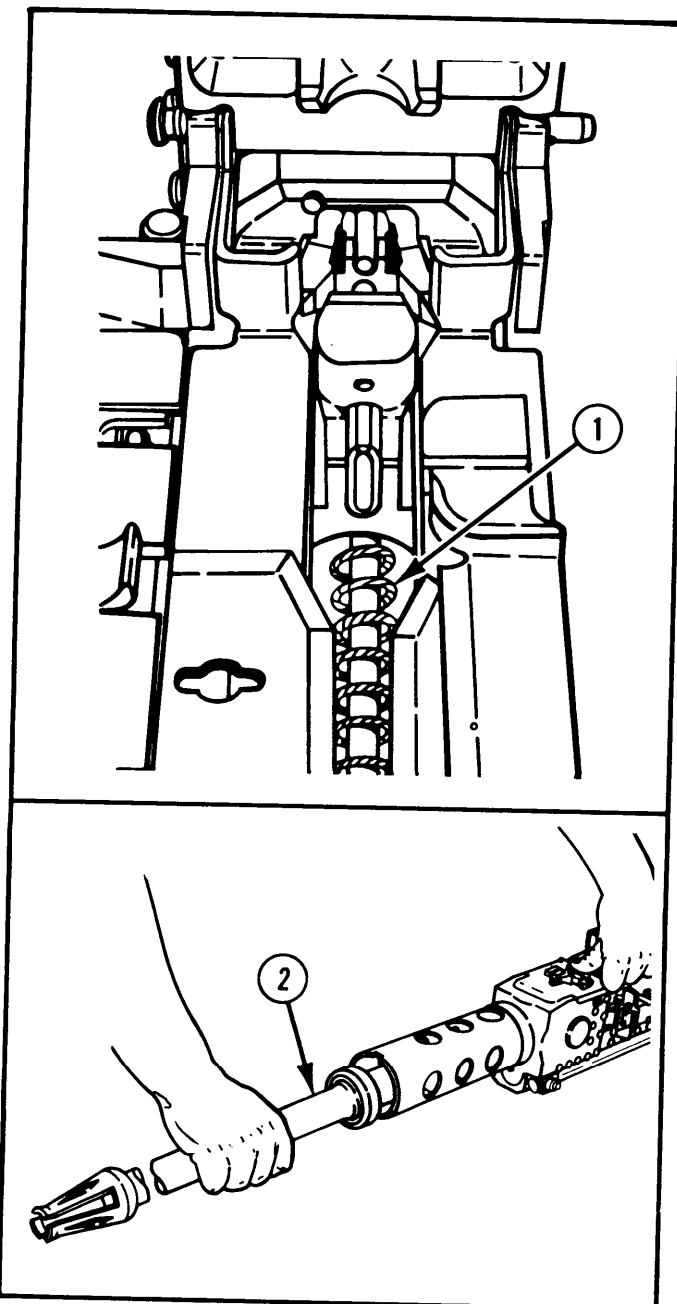
**Table 2-3. ORGANIZATIONAL TROUBLESHOOTING [cont]**

<p><b>MALFUNCTION</b> <b>TEST OR INSPECTION</b> <b>CORRECTIVE ACTION</b></p>	<p><b>LOCATION</b></p>
<p><b>M85 MACHINE GUN (cont)</b></p> <p><b>2. FAILS TO CHAMBER.</b></p> <p>Step 1. Check for obstruction in chamber (1) or receiver assembly (2). Remove obstruction (TM 9-1005-231-10).</p> <p>Step 2. Check for weak or short driving spring (3). Replace defective driving spring (p 2-32).</p>	

### 3. FAILS TO LOCK.

Step 1. Check for weak or short driving spring (1).

Replace defective driving spring (p 2-32).

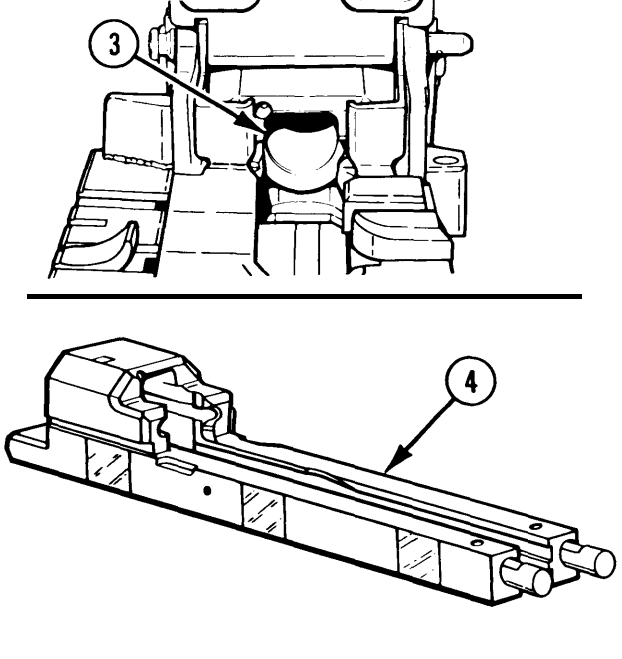
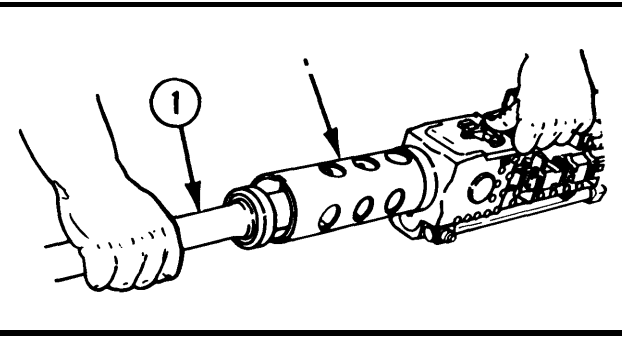


Step 2. Check to be sure barrel assembly (2) is fully locked in position.

Evacuate to direct support maintenance.

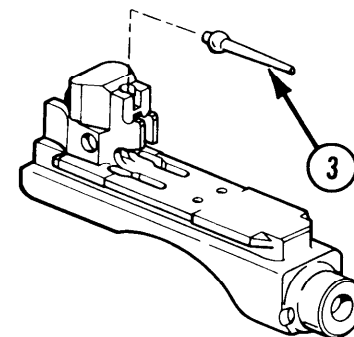
<b>2-6. TROUBLESHOOTING INFORMATION. (cont)</b>
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**Table 2-3. ORGANIZATIONAL TROUBLESHOOTING (cont)**

<b>MALFUNCTION</b> <b>TEST OR INSPECTION</b> <b>CORRECTIVE ACTION</b>	<b>LOCATION</b>
<p style="text-align: center;"><b>M85 MACHINE GUN (cont)</b></p> <p><b>3. FAILS TO LOCK. (cont)</b></p> <p>Step 3. Check for obstruction in chamber (3) or locking recesses of barrel extension assembly (4).</p> <p>Remove obstruction, clean and lubricate (TM 9-1005-231-10).</p>	
<p><b>4. FAILS TO FIRE.</b></p> <p>Step 1. Check to see if barre assembly (1) is locked into receiver assembly (2).</p> <p>Evacuate to direct support maintenance.</p>	

Step 2. Check firing pin (3) for wear or breakage.

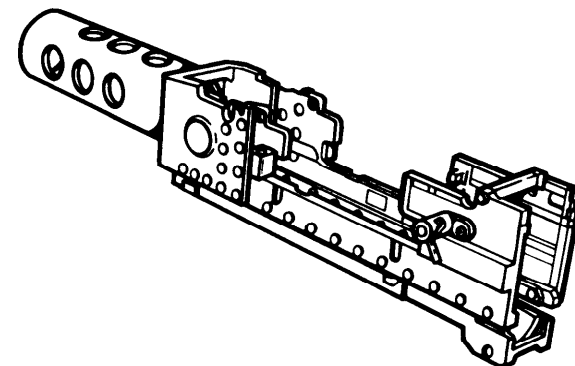
Evacuate to direct support maintenance.



#### 5. FAILS TO UNLOCK.

Check for obstruction in receiver assembly.

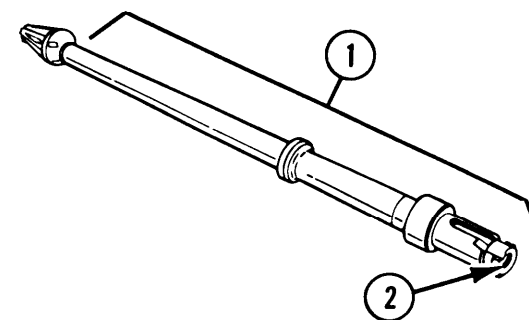
Remove obstruction, clean and lubricate (TM 9-1005-231-10).



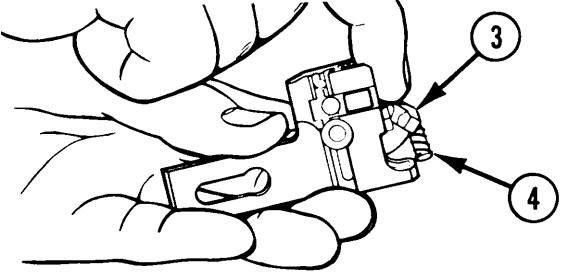
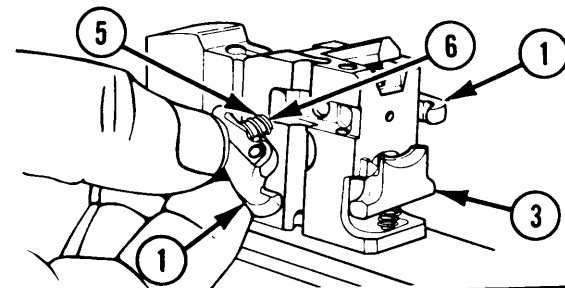
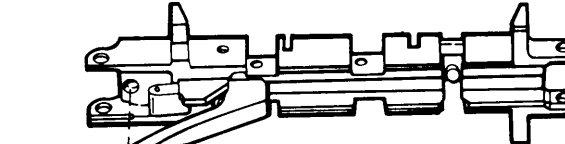
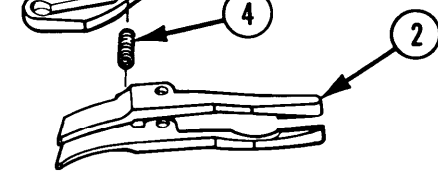
#### 6. FAILS TO EXTRACT.

Step 1. Check barrel (1) for pitted chamber (2).

Evacuate to direct support maintenance.



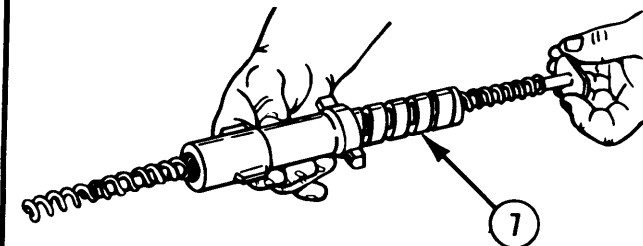
**2-6. TROUBLESHOOTING INFORMATION. (cont)****Table 2-3. ORGANIZATIONAL TROUBLESHOOTING (cont)**

MALFUNCTION	LOCATION
TEST OR INSPECTION	
CORRECTIVE ACTION	
<b>M85 MACHINE GUN (cont)</b>	
<b>6. FAILS TO EXTRACT. (cont)</b>	
<p><b>Step 2. Check bolt assembly for broken extractor (3) or weak spring (4).</b></p>	
<p><b>Evacuate to direct support maintenance.</b></p>	
<b>7. FAILS TO EJECT</b>	
<p><b>Step 1. Check for defective or missing cartridge retainers (1).</b></p>	
<p><b>Evacuate to direct support maintenance.</b></p>	
<p><b>Step 2. Check for defective ejector (2).</b></p>	
<p><b>Evacuate to direct support maintenance.</b></p>	
<p><b>Step 3. Check for defective extractor (3).</b></p>	
<p><b>Evacuate to direct support maintenance.</b></p>	
<p><b>Step 4. Check for defective spring (4).</b></p>	
<p><b>Evacuate to direct support maintenance.</b></p>	
<p><b>Step 5. Check for weak or missing springs (5) or spring inserts (6)</b></p>	
<p><b>Evacuate to direct support maintenance.</b></p>	



Step 6. Check for defective buffer spring (7).

Replace buffer spring (p 2-32).



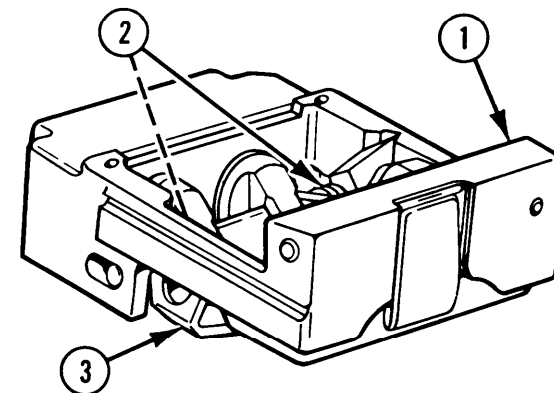
## 8. FAILS TO COCK.

Step 1. Check sear assembly (1) for defective, missing, or improperly installed springs (2).

Evacuate to direct support maintenance.

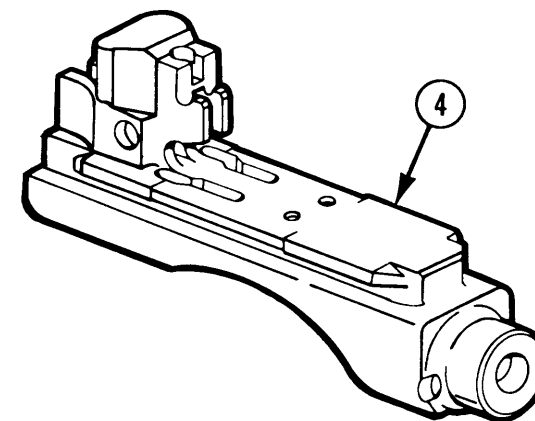
Step 2. Check bolt sear (3) for wear.

Evacuate to direct support maintenance.



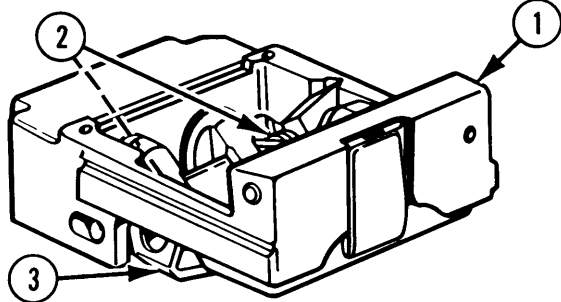
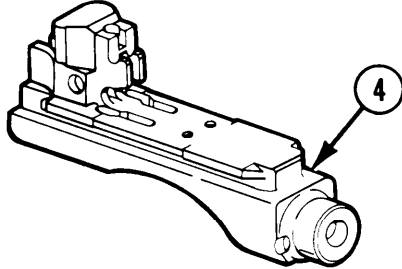
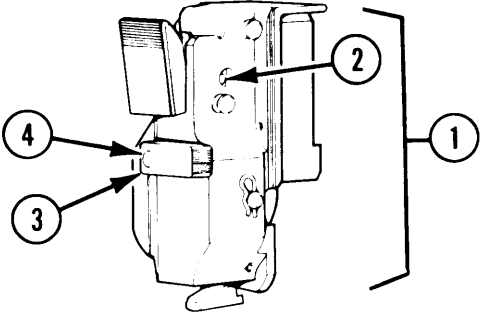
Step 3. Check bolt slide (4) for wear.

Evacuate to direct support maintenance.



2-6. TROUBLESHOOTING INFORMATION. (cont)

Table 2-3. ORGANIZATIONAL TROUBLESHOOTING (cont)

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION	LOCATION
<p>M85 MACHINE GUN (cont)</p>	
<p><b>9. FIRES UNCONTROLLABLY.</b></p> <p><b>Step 1. Check sear assembly (1) for defective, missing, or improperly installed springs (2).</b></p> <p style="text-align: center;"><b>Evacuate to direct support maintenance.</b></p> <p><b>Step 2. Check bolt sear (3) for wear.</b></p> <p style="text-align: center;"><b>Evacuate to direct support maintenance.</b></p> <p><b>Step 3. Check bolt slide (4) for wear.</b></p> <p style="text-align: center;"><b>Evacuate to direct support maintenance.</b></p>	
<p><b>10. FIRES AT A HIGH RATE WITH RATE SELECTOR IN LOW RATE POSITION.</b></p> <p><b>Step 1. Check back plate assembly (1) for missing disconnecter pin (2).</b></p> <p style="text-align: center;"><b>Evacuate to direct support maintenance.</b></p> <p><b>Step 2. Check back plate assembly (1) for improperly assembled rate selector (3) or striker (4).</b></p> <p style="text-align: center;"><b>Evacuate to direct support maintenance.</b></p>	

## 11. RATE CONTROL IS ERRATIC.

Evacuate to direct support maintenance.

## Section IV. ORGANIZATIONAL MAINTENANCE PROCEDURES

### 2-7. GENERAL.

a. Marking of the M85 machine gun by any permanent means such as etching, painting (oil or latex), stamping, or burning is strictly forbidden. The use of white, masking, or embossed tape, or tags is permissible.

b. Before reassembly, lubricate rollers and sliding surfaces (TM 9-1005-231-10).

c. CLP (item 5, app D) may be used in any weather, but must be applied when the temperature is above 0°F (-18°C).

d. Refer to TM 9-1005-231-10 for cleaning instructions. Carbon removing compound (item 4, app D) or dry cleaning solvent (item 8, app D) may be used in place of CLP (item 5, app D) when a stronger cleaner is needed.

e. Rough spots, burrs, nicks, or scars may be removed by light polishing, stoning, or filing with crocus cloth (item 6, app D) followed by an application of solid film lubricant (item 11, app D) (unless specifically prohibited in the repair section) if contours or critical dimensions are not altered in any way that would affect functioning or interchangeability of parts.

f. Replace all parts that are cracked or deformed.

g. Replace all parts that do not conform to specified tolerances. When tolerances are not specified, compare the

part with a like part of known acceptable standards. If dimensions are worn considerably, functioning and interchangeability will be adversely affected and the parts are not acceptable.

h. Replace all missing parts or parts that have damaged threads.

i. Assemblies with no visible, known, or suspected defects that perform their intended function should not be disassembled for the sole purpose of inspection.

### WARNING

Be sure there is no ammunition in the weapon before beginning maintenance procedures. Avoid having live ammunition around the work area. Be careful when removing spring-loaded components; injury to personnel may occur. DO NOT interchange bolt assemblies or parts from one weapon to another. Doing so may result in serious injury to personnel or damage to the weapon.

Wear rubber gloves (item 9, app D) when using carbon removing compound (item 4, app D) or dry cleaning solvent (item 8, app D).

Use dry cleaning solvent only in a well-ventilated area.

## **2-8. M85 MACHINE GUN-SUMMARY PROCEDURE.**

### **INITIAL SETUP**

#### Tools and Special Tools

Small arms repairman tool kit (app B)

#### Materials/Parts

Dry cleaning solvent (item 8, app D)

Wiping rag (item 14, app D)

#### References

Appendix B

Appendix C

#### Appendix D

2-30 Disassembly of M85 machine gun

2-32 Reassembly of M85 machine gun

TM 9-1005-231-10

#### Equipment Conditions

M85 machine gun removed from armored vehicle

#### Special Environmental Conditions

Inside maintenance shop or under cover

### LIST OF TASKS

Para No.	Task	Task Ref (Page)	Troubleshooting Ref No. (Page)
2-9	Maintain M85 machine gun miscellaneous parts: <ul style="list-style-type: none"> <li>a. Disassemble.</li> <li>b. Repair.</li> <li>c. Reassemble.</li> </ul>	2-30 2-32 2-32	2-20, 2-21, 2-24

2-10

Maintain back plate assembly:

- a. Remove.
- b. Disassemble.
- c. Repair.
- d. Reassemble.
- f. Install.

2-34  
2-34  
2-35  
2-35  
2-35

2-11

Maintain feed and ejector assembly:

- a. Remove.
- b. Disassemble.
- c. Repair.
- d. Reassemble.
- e. Install.

2-36  
2-36  
2-37  
2-37  
2-38

2-12

Maintain bolt assembly:

- a. Remove.
- b. Disassemble.
- c. Repair.
- d. Reassemble.
- e. Install.

2-39  
2-40  
2-40  
2-40  
2-40

2-13

Maintain cover assembly:

- a. Remove.
- b. Disassemble.
- c. Repair.
- d. Reassemble.
- e. Install.

2-42  
2-43  
2-43  
2-43  
2-44

## 2-9. M85 MACHINE GUN MISCELLANEOUS PARTS-MAINTENANCE INSTRUCTIONS.

### THIS TASK COVERS:

- a. Disassembly
- b. Repair
- c. Reassembly

### INITIAL SETUP

#### Tools and Special Tools

Small arms repairman tool kit (app B)

#### References

Appendix B  
Appendix C

#### Equipment Conditions

M85 machine gun removed from armored vehicle

#### Special Environmental Conditions

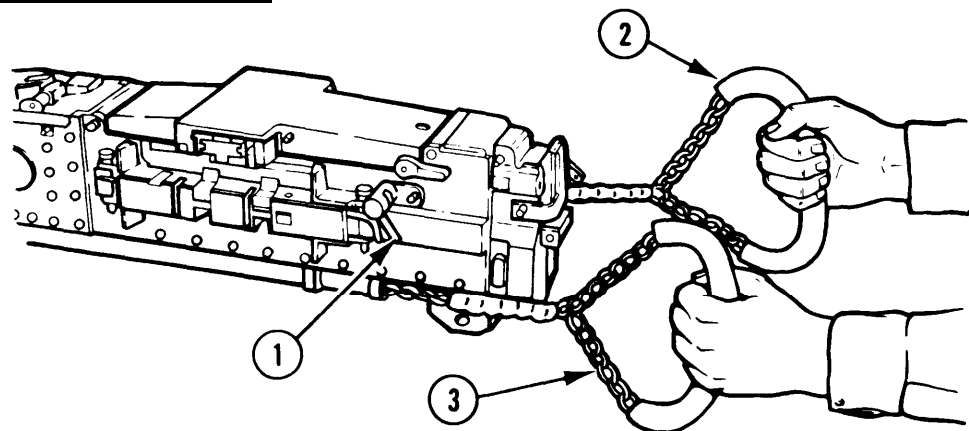
Inside maintenance shop or under cover

#### Troubleshooting References

2-20 Fails to chamber  
2-21 Fails to lock  
2-24 Fails to eject

### DISASSEMBLY

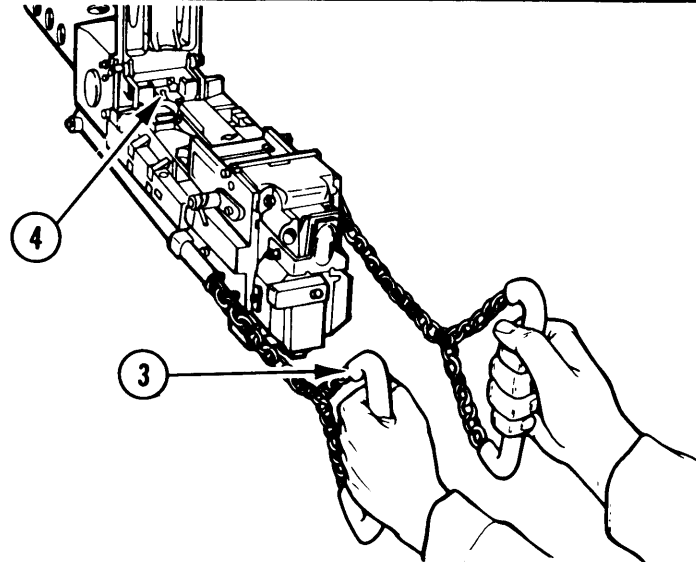
- 1 SAFETY ASSEMBLY (1). Place on F.
- 2 TRIGGER EXTENSION HANDLE (2)  
AND CHARGER HANDLE (3). pull.



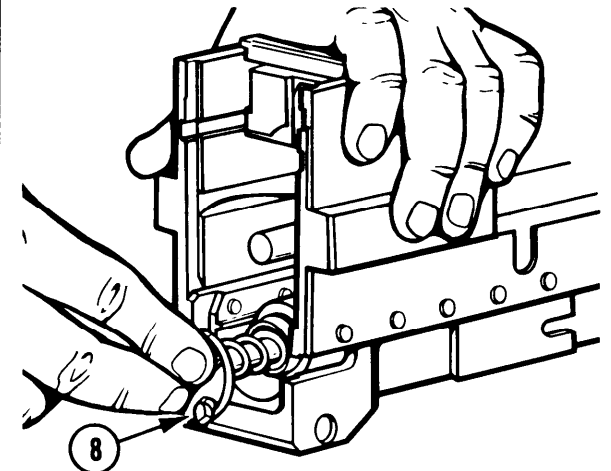
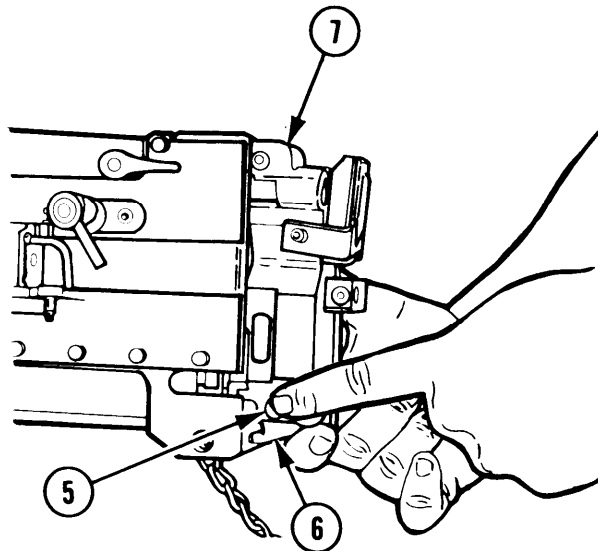
**CAUTION**

Do not allow bolt assembly to slam shut on empty chamber.

- 3 CHARGER HANDLE (3). Let bolt assembly (4) go forward slowly.



- 4 BACK PLATE LOCK (5). Press.  
5 BACK PLATE LATCH (6). Raise.  
6 BACK PLATE ASSEMBLY (7). Raise and remove.

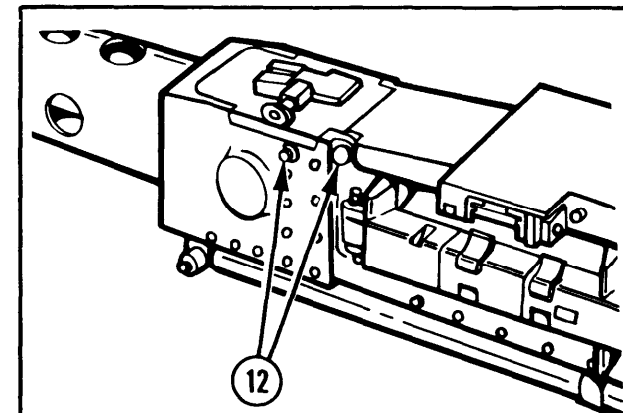
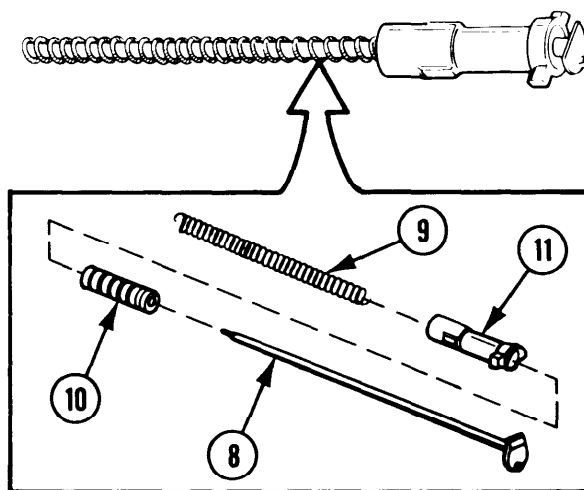


- 7 GUIDE ROD (8). Push and turn to release; remove.

## 2-9. M85 MACHINE GUN MISCELLANEOUS PARTS-MAINTENANCE INSTRUCTIONS. (cont)

**DISASSEMBLY (cont)**

8 GUIDE ROD (8), DRIVING SPRING (9), AND BUFFER SPRING (10). Remove from buffer sleeve (11).



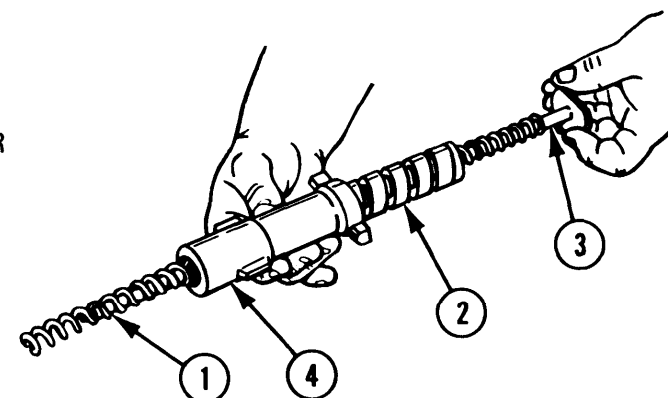
9 TWO QUICK RELEASE PINS (12). Push out.

**REPAIR**

Repair by replacing authorized parts (app C) as needed.

**REASSEMBLY**

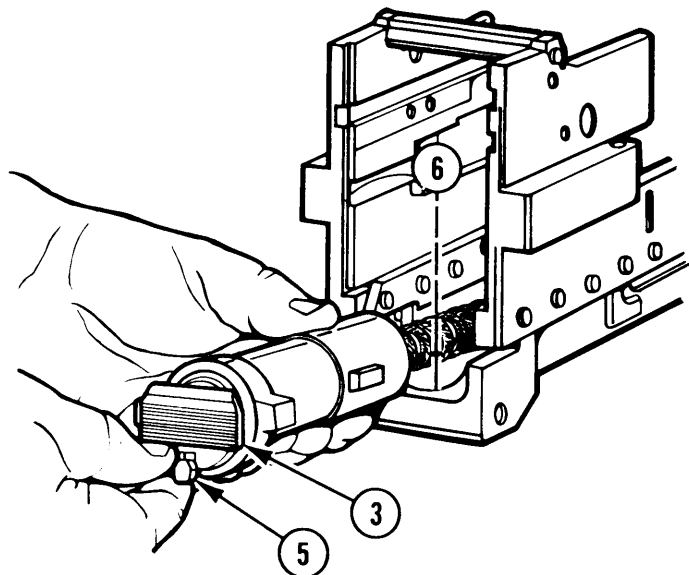
- 1 DRIVING SPRING (1) AND BUFFER SPRING (2). Install on guide rod (3).
- 2 BUFFER SLEEVE (4). Install.



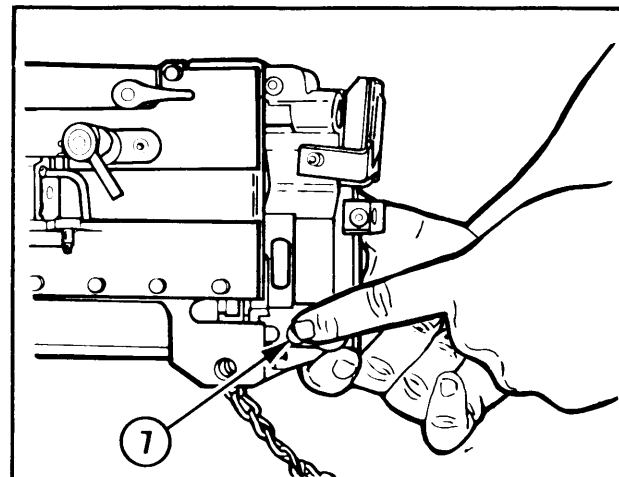


3 GUIDE ROD (3). Push in and turn.

4 TANG (5). Engage in receiver notch (6).



5 BACK PLATE LOCK (7). Press.



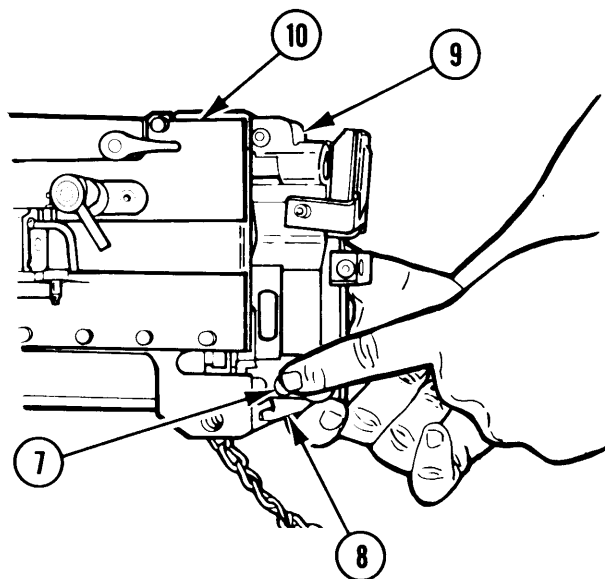
6 BACK PLATE LATCH (8). Raise.

7 BACK PLATE ASSEMBLY (9). Slide down into receiver assembly (10) until it locks.

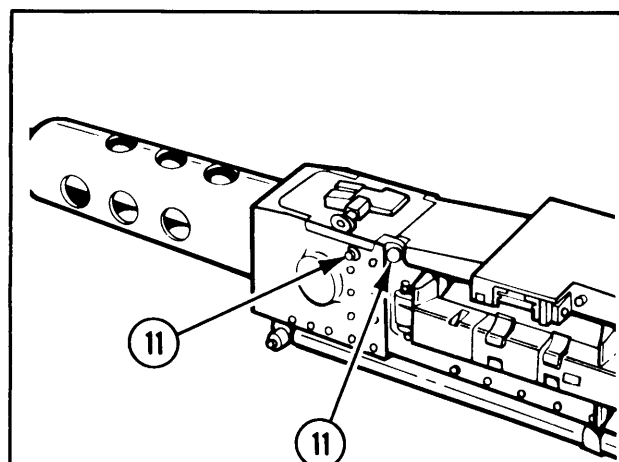
8 BACK PLATE LOCK (7) AND BACK PLATE LATCH (8). Release.

**NOTE**

Try to remove back plate assembly to make sure it is locked into receiver assembly.



9 TWO QUICK RELEASE PINS (11). Install.



## 2-10. BACK PLATE ASSEMBLY-MAINTENANCE INSTRUCTIONS.

### THIS TASK COVERS:

- |                |                 |
|----------------|-----------------|
| a. Removal     | d. Reassembly   |
| b. Disassembly | e. Installation |
| c. Repair      |                 |

### INITIAL SETUP

#### Tools and Special Tools

Small arms repairman tool kit (app B)

#### Materials/Parts

Dry cleaning solvent (item 8, app D)

Wiping rag (item 14, app D)

#### References

Appendix B

Appendix C

Appendix D

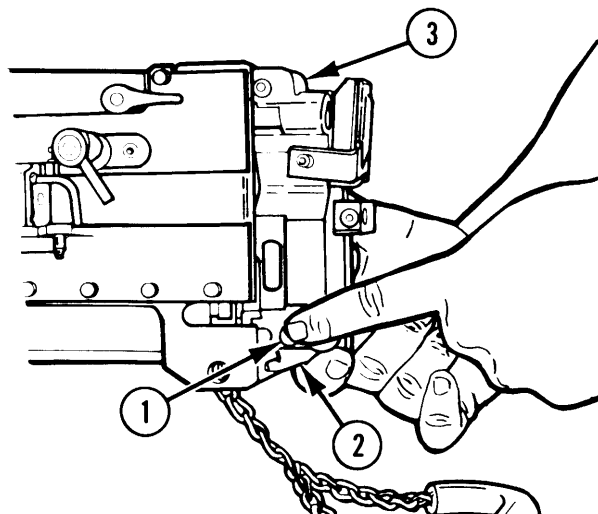
TM 9-1005-231-10

### REMOVAL

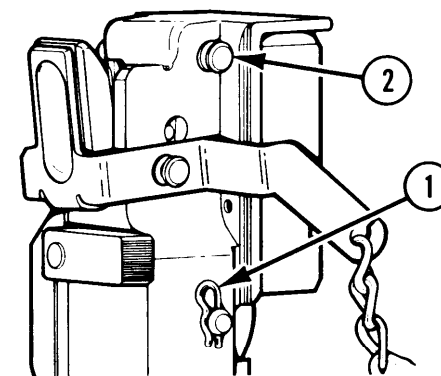
#### CAUTION

Make sure bolt assembly is forward.

- 1 BACK PLATE LOCK (1). Press.
- 2 BACK PLATE LATCH (2). Raise.
- 3 BACK PLATE ASSEMBLY (3). Raise up and remove.



### DISASSEMBLY



- 1 LOCK PIN (1). Remove.
- 2 QUICK RELEASE PIN (2). Remove.

## REPAIR

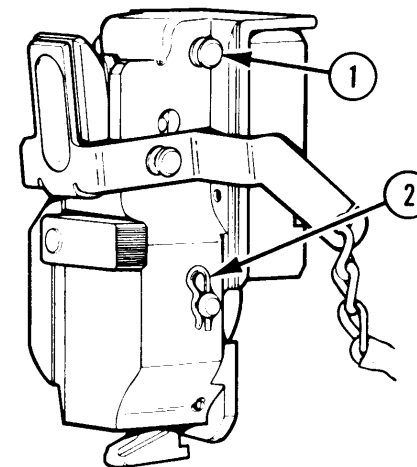
Repair is by replacement of authorized parts (app C) as needed. Use wiping rag (item 14, app D) to clean parts with dry cleaning solvent (item 8, app D). Lubricate as required (TM 9-1005-231-10).

## REASSEMBLY

### **CAUTION**

Be sure the quick release pin goes through the hole in the disconnecter.

- 1 QUICK RELEASE PIN (1). Install.
- 2 LOCK PIN, (2). Install.

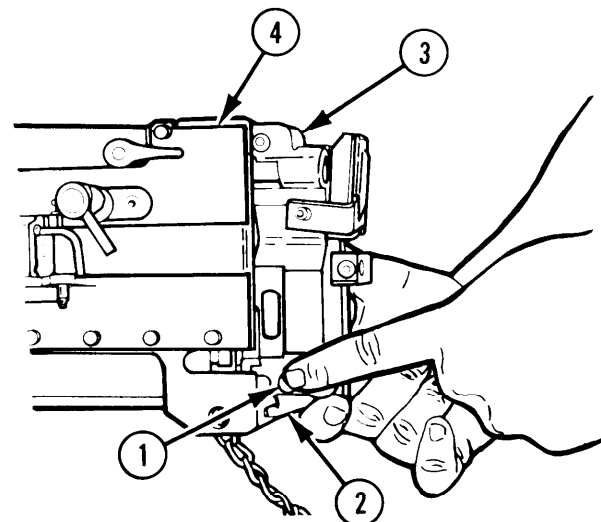


## INSTALLATION

- 1 BACK PLATE LOCK (1). Press.
- 2 BACK PLATE LATCH (2). Raise.
- 3 BACK PLATE ASSEMBLY (3). Slide down into receiver assembly (4) until it locks.
- 4 BACK PLATE LOCK (1) AND BACK PLATE LATCH (2). Release.

### **NOTE**

Try to remove back plate assembly to make sure it is locked in receiver assembly.



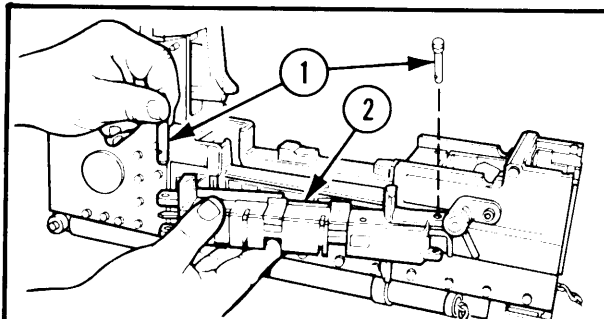
**2-11. FEED AND EJECTOR ASSEMBLY-MAINTENANCE INSTRUCTIONS.****THIS TASK COVERS:**

- |               |                 |
|---------------|-----------------|
| a Removal     | d. Reassembly   |
| b Disassembly | e. Installation |
| c Repair      |                 |

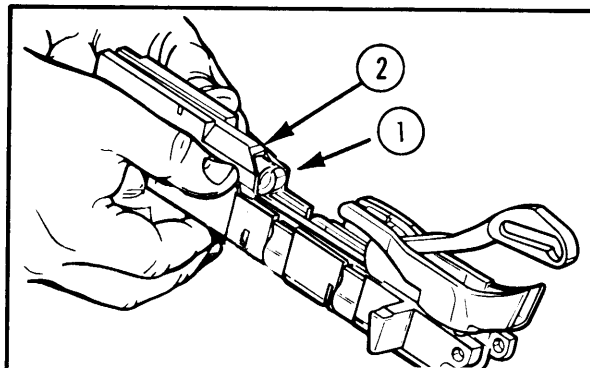
**INITIAL SETUP**

Tools and Special Tools  
Small arms repairman tool kit (app B)

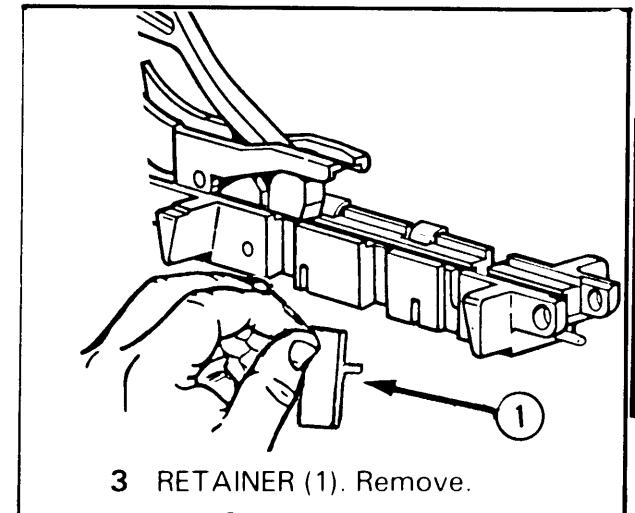
References  
Appendix B  
Appendix C  
TM 9-1005-231-10

**REMOVAL**

- 1 TWO QUICK RELEASE PINS (1). Pull out.
- 2 FEED AND EJECTOR ASSEMBLY (2). Remove.

**DISASSEMBLY**

- 1 RETAINER (1). Press down.
- 2 ACTUATOR (2). Remove.



- 3 RETAINER (1). Remove.

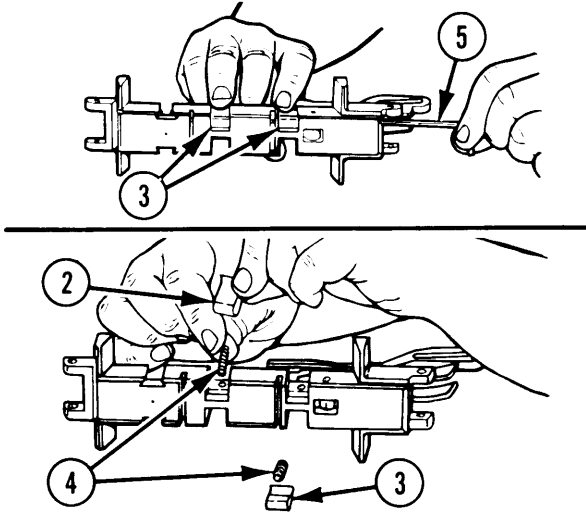
**REPAIR**

**4** TWO BELT RETAINING PAWLS (3). Press.

**NOTE**  
Be careful not to lose the two springs (4) when removing retaining pin (5).

**5** RETAINING PIN (5). Remove.

**6** TWO BELT RETAINING PAWLS (3) AND TWO SPRINGS (4). Remove.

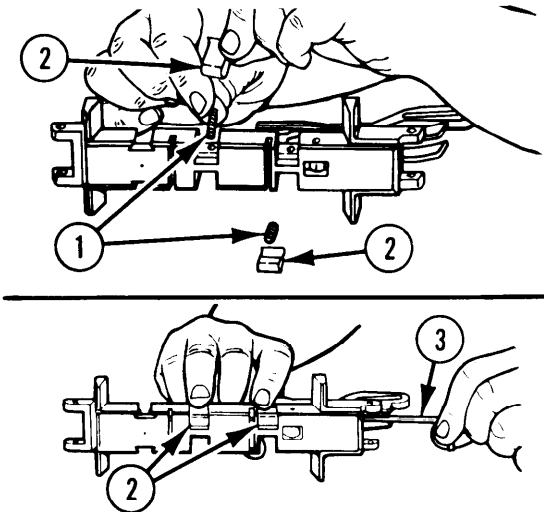


Repair is by replacement of authorized parts (app C) as needed. Clean and lubricate as required (TM 9-1005-231-10).

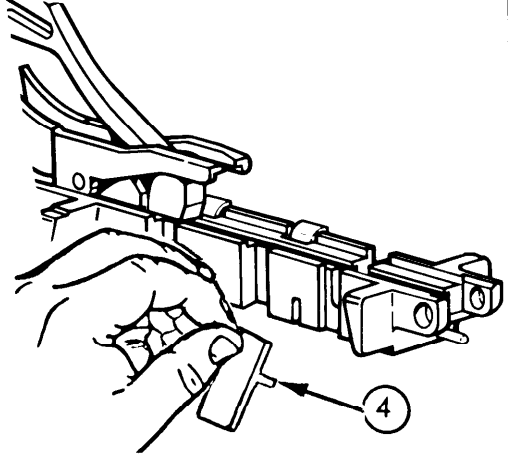
**REASSEMBLY**

**1** TWO SPRINGS (1) AND TWO BELT RETAINING PAWLS (2). Install and press.

**2** RETAINING PIN (3). Install.

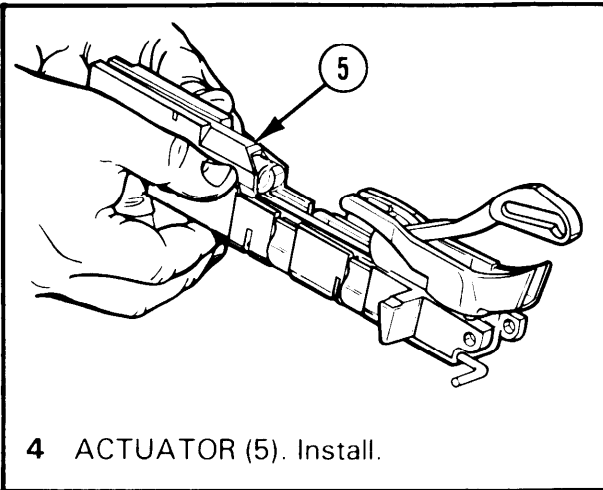


**3** RETAINER (4). Install and press.



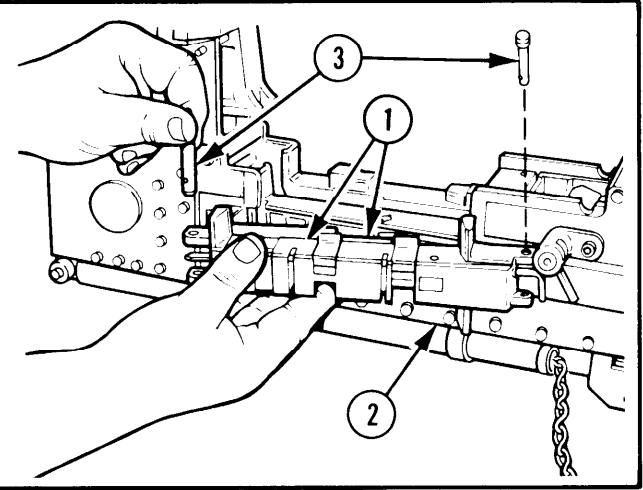
**2-11. FEED AND EJECTOR ASSEMBLY-MAINTENANCE INSTRUCTIONS. (cont)**

**REASSEMBLY (cont)**



**INSTALLATION**

- 1 FEED AND EJECTOR ASSEMBLY (1). Position on receiver assembly (2).
- 2 TWO QUICK RELEASE PINS (3). Install.



**2-12. BOLT ASSEMBLY-MAINTENANCE INSTRUCTIONS.**

**THIS TASK COVERS:**

- a. Removal
- b. Disassembly
- c. Repair

- d. Reassembly
- e. Installation

**INITIAL SETUP**

Tools and Special Tools  
 Small arms repairman tool kit (app B)

References  
 Appendix B  
 Appendix C

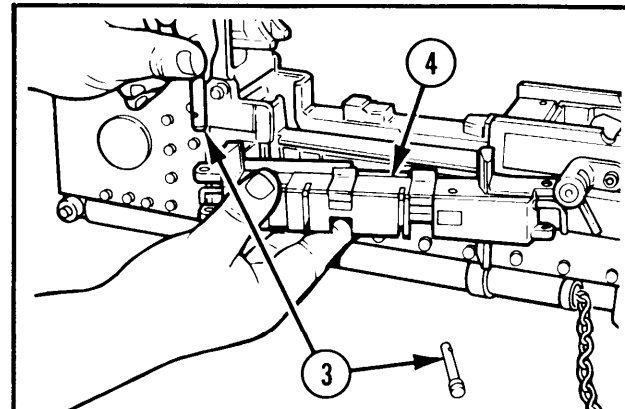
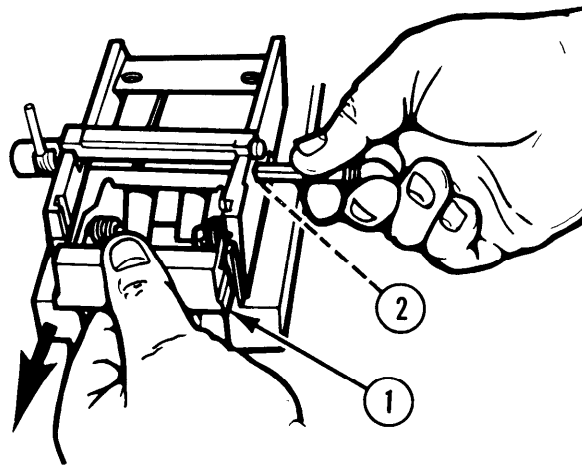
2-30 Disassembly of M85 machine gun  
 2-32 Reassembly of M85 machine gun

## REMOVAL

### NOTE

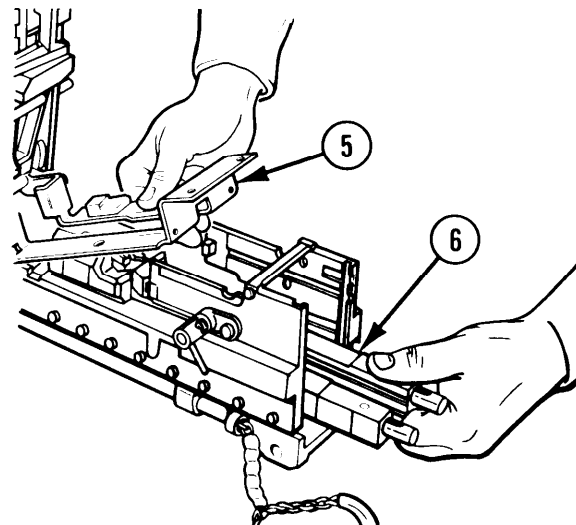
For removal procedure see steps 1 thru 8 of M85 machine gun disassembly (p 2-30) before performing the following steps.

- 1 SEAR ASSEMBLY (1). Push detent (2) in with punch and remove in direction of arrow.



- 2 TWO QUICK RELEASE PINS (3). Pull out.
- 3 FEED AND EJECTOR ASSEMBLY (4). Remove.

- 4 FEED TRAY ASSEMBLY (5). Lift up.
- 5 BARREL EXTENSION ASSEMBLY (6). Pull out.



### NOTE

Be careful not to lose grooved pin when removing bolt assembly.

- 6 BOLT ASSEMBLY (7). Slide rearward and remove.

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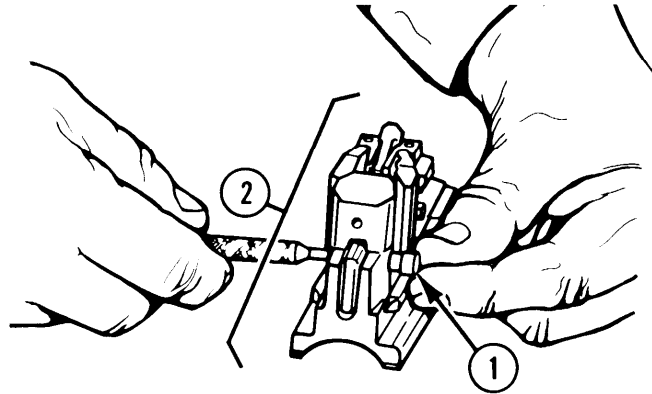
**2-12. BOLT ASSEMBLY-MAINTENANCE INSTRUCTIONS. (cont)**


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**DISASSEMBLY****NOTE**

The grooved pin may fall out easily and become lost.

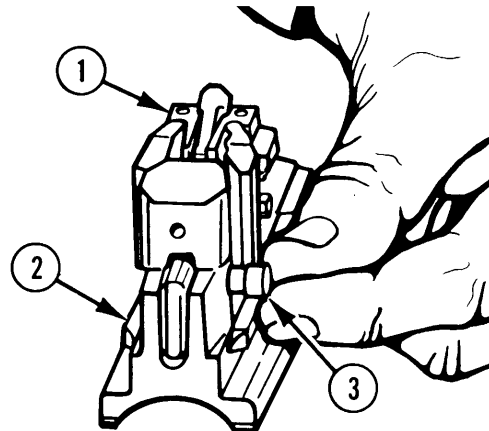
GROOVED PIN (1). Remove from bolt assembly (2).

**REPAIR**

Repair is by replacement of authorized parts (app C) as needed.

**REASSEMBLY**

- 1 BOLT BLOCK (1). Aline hole in bolt block with hole in bolt slide (2).
- 2 GROOVED PIN (3). Install.

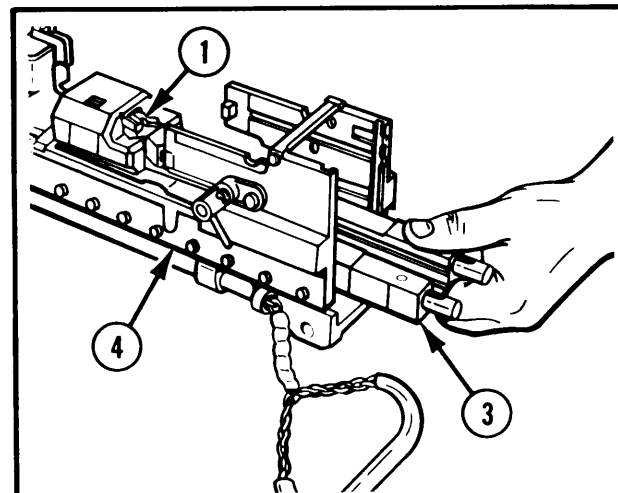
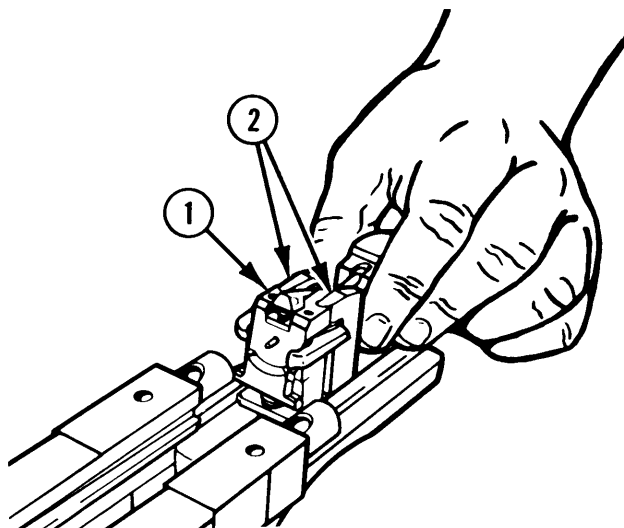
**INSTALLATION****CAUTION**

Make sure bolt assembly is complete before installing in barrel extension assembly.

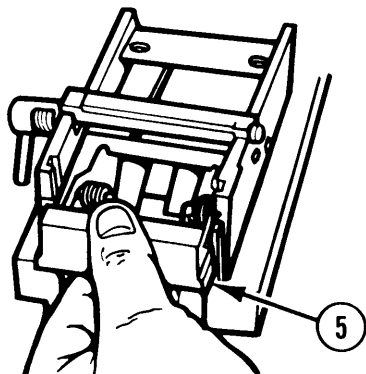


**1 BOLT ASSEMBLY (1).**

- a. Hold in bolt locks (2), one on each side.
- b. Slide rails into grooves of barrel extension assembly.

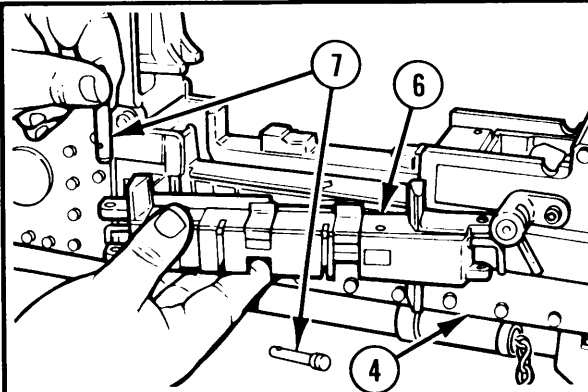


**2 BARREL EXTENSION ASSEMBLY (3) WITH BOLT ASSEMBLY (1). Slide into receiver assembly (4).**



**3 SEAR ASSEMBLY (5).**

- a. Line up rails with receiver assembly grooves.
- b. Push in until it locks.



**4 FEED AND EJECTOR ASSEMBLY (6). Position on receiver assembly (4).**

**5 TWO QUICK RELEASE PINS (7). Install.**

**NOTE**

See steps 1 thru 8 of M85 machine gun reassembly (p 2-32) to complete installation procedure.

## 2-13. COVER ASSEMBLY-MAINTENANCE INSTRUCTIONS.

### THIS TASK COVERS:

- |                |                 |
|----------------|-----------------|
| a. Removal     | d. Reassembly   |
| b. Disassembly | e. Installation |
| c. Repair      |                 |

### INITIAL SETUP

#### Tools and Special Tools

Small arms repairman tool kit (app B)

#### Equipment Condition

2-36 Feed and ejector assembly removed

#### References

Appendix B

Appendix C

TM 9-1005-231-10

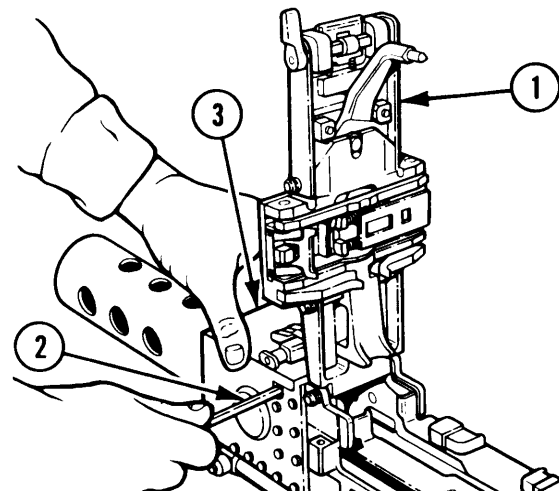
## REMOVAL

- 1 COVER ASSEMBLY (1). Open.
- 2 (ACCELERATOR) QUICK RELEASE PIN (2). Remove

#### NOTE

Accelerator assembly should raise slightly when cover assembly is lowered.

- 3 COVER ASSEMBLY (1). Lower, releasing tension from accelerator assembly (3).



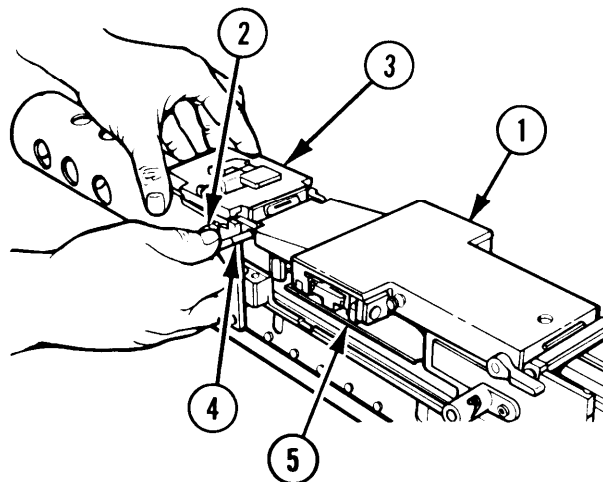
4 ACCELERATOR ASSEMBLY (3). Lift and partially insert (accelerator) quick release pin (2) to hold accelerator assembly up.

5 (COVER) QUICK RELEASE PIN (4). Remove.

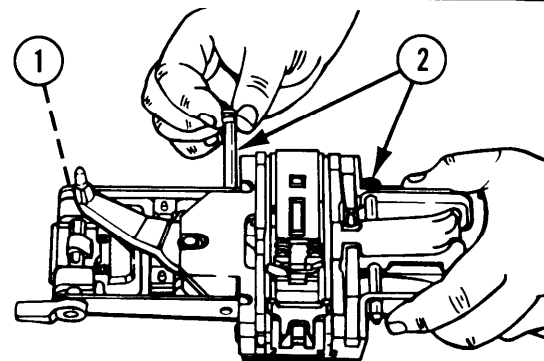
**NOTE**

Feed tray assembly (5) will fall out.

6 COVER ASSEMBLY (1). Remove.



**DISASSEMBLY**



1 LOCK PIN (1). Remove.

2 TWO QUICK RELEASE PINS (2). Remove.

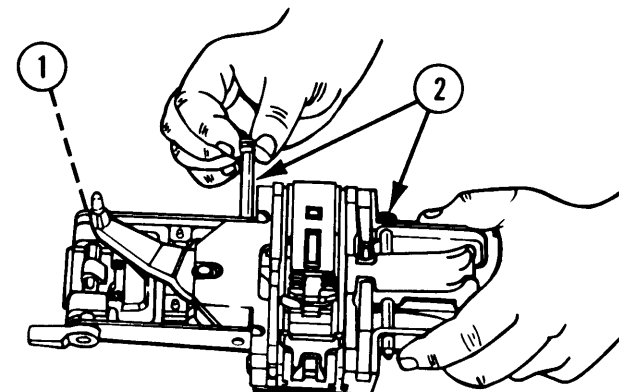
**REPAIR**

Repair is by replacement of authorized parts (app C) as needed. Clean and lubricate as required (TM 9-1005-231-10).

**REASSEMBLY**

1 LOCK PIN (1). Install.

2 TWO QUICK RELEASE PINS (2). Install.



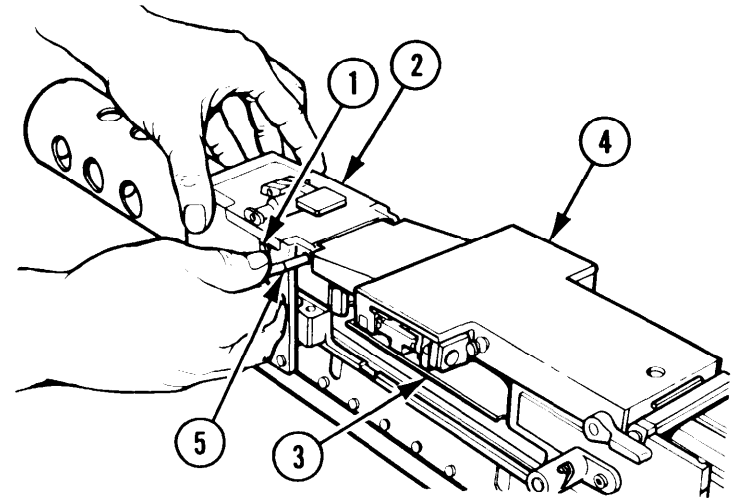
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**2-13. COVER ASSEMBLY-MAINTENANCE INSTRUCTIONS. (cont)**

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**INSTALLATION**

- 1 (ACCELERATOR) QUICK RELEASE PIN (1).
  - a. Remove; push accelerator assembly (2) down and hold.
  - b. Install.
- 2 FEED TRAY ASSEMBLY (3) AND COVER ASSEMBLY (4).
  - a. Position.
  - b. Install (cover) quick release pin (5).



# CHAPTER 3

## DIRECT SUPPORT MAINTENANCE INSTRUCTIONS

---

### Section I. DIRECT SUPPORT MAINTENANCE PROCEDURES

#### 3-1. GENERAL.

- a.** This section provides direct support maintenance information for the M85 machine gun. There are no general support maintenance tasks.
- b.** CLP (Item 5, app D) may be used in any weather, but must be applied when the temperature is above 0°F (-18°C).
- c.** Before assembly, lubricate rollers and sliding surfaces (TM 9-1005-231-10).
- d.** Marking of the M85 machine gun by any permanent means such as etching, painting (oil or latex), stamping, or burning is strictly forbidden. The use of white, masking, or embossed tape, or tags is permissible.
- e.** If entire assemblies/subassemblies are replaced, serviceable parts of the old assembly may be reconditioned and placed in stock for future use. If a new part is not available, a reconditioned part may be substituted (except in the bolt assembly). Reconditioned parts should be inspected carefully to determine their serviceability. In no case should the wear tolerances exceed the maximum. (For example, see final inspection (p 3-87). ) Replace all parts that are not within specified tolerances. When the tolerances are not specified, compare the part with a like part of known acceptable standards. If dimensions are considerably worn, functioning and interchangeability will be adversely affected and the parts are not acceptable.
- f.** Refer to TM 9-1005-231-10 for cleaning. Carbon removing compound (item 4, app D) may be used in place of CLP (item 5, app D) when a stronger cleaner is needed.
- g.** All gaging requirements must be checked as a standard maintenance procedure. The complete weapon will be inspected and other deficiencies found will be repaired or noted for repair at the appropriate maintenance level.
- h.** If authorized cleaners or lubricants are not adequate, carefully select the method and material for removing corrosion so that surfaces being processed will not be damaged beyond serviceability.
- i.** Crocus cloth (item 6, app D), moistened with CLP (item 5, app D) and fine stones found in the small arms repairman tool kit (SC 4933-95-CL-A07) are used to remove corrosion, burrs, and scores from polished surfaces. Solid film lubricant (SFL) (item 11, app D) is used to touch up shiny or scratched surfaces.
- j.** Be sure to use crocus cloth (item 6, app D), files, or stones evenly and not to remove more metal than is necessary to maintain correct contours. Critical dimensions of parts must not be altered in any way that would affect functioning or interchangeability of parts.
- k.** Replace all parts that are cracked or deformed. Use inspection penetrant kit (item 10, app D) to inspect for cracks. Instructions come inside kit.

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### 3-1. GENERAL. (cont)

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I. Replace all missing parts or parts that have damaged threads.

#### WARNING

Be sure there is no ammunition in the weapon before beginning maintenance procedures. Avoid having live ammunition around the work area. Be careful when removing spring-loaded components, as injury to personnel may occur. DO NOT interchange bolt assemblies or parts from one weapon to another. Doing so may result in serious injury to personnel, or damage to the weapon.

#### WARNING

Wear rubber gloves (item 9, app D) when using carbon removing compound (item 4, app D) or dry cleaning solvent (item 8, app D).

Use dry cleaning solvent only in a well-ventilated area.

---

### 3-2. TROUBLESHOOTING INFORMATION.

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The symptom index can be used as a quick guide. Common malfunctions are listed with a page number reference to the appropriate task.

#### SYMPTOM INDEX

	Page
M85 MACHINE GUN	
Fails to feed	
Replace latch	3-55
Replace belt feed lever	3-55
Replace torsion spring	3-59
Replace feed slide	3-59
Replace springs	3-36
	3-41, 3-54, 3-55, 3-56
Replace lever	3-36
Replace belt retaining pawls	3-35
Replace quick release pins	3-34
Replace cartridge stop pawl	3-61
Replace retainer	3-34
Fails to chamber	
Replace stripper	3-56
Replace springs	3-55
Replace rammer	3-43
Replace spring/spring insert	3-43

Fails to lock	
Replace defective driving spring	2-32
Install barrel assembly properly	3-15
Fails to fire	
Replace firing pin	3-44
Replace bolt sear	3-31
Replace solenoid	3-19
Adjust solenoid armature	3-13
Falls to unlock	
Replace accelerator	3-67
Fails to extract	
Replace extractor	3-43
Replace spring/spring insert	3-43
Replace cartridge retainers	3-43
Fails to eject	
Replace cartridge retainers	3-43
Replace ejector	3-35
Replace extractor	3-43
Replace spring	3-43
Replace spring/spring inserts	3-43
Replace buffer spring	2-32
Fails to cock	
Replace bolt slide	3-42
Replace sear assembly	2-32
Replace torsion springs	3-31
Fires uncontrollably	
Replace bolt slide	3-42
Replace sear assembly	2-39
Replace torsion springs	3-31
Replace solenoid	3-19
Rate control is erratic	
Replace torsion spring in time delay mechanism	3-20
Adjust time delay mechanism	3-87
Replace disconnecter	3-20

---

 3-2. TROUBLESHOOTING INFORMATION. (cont)
 

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## SYMPTOM INDEX (cont)

Page

**M85 MACHINE GUN (cont)**

Fires at a high rate with rate selector in low rate position

Replace low rate striker

3-27

<b>3-3. M85 MACHINE GUN-SUMMARY OF MAINTENANCE PROCEDURE.</b>
---

**INITIAL SETUP**

## Tools and Special Tools

Bolt locking space (feeler type) gage (app B)  
 Field maintenance, basic less power, small arms shop set (app B)  
 Field maintenance, post, camp, and station, set D, small arms shop sets (app B)  
 Firing pin protrusion gage (app B)  
 Improvised riveting fixture (app E)  
 M6A1 barrel erosion gage (app B)

Spring pin (MS39086-91)  
 Spring pin (MS39086-206)  
 Spring pin (MS39086-210)  
 Wiping rag (item 14, app D)

## References

Appendix B  
 Appendix C  
 Appendix D  
 Appendix E

3-72 Paragraph 3-22

2-1 Table 2-1

TM 9-1005-231-10

TM 9-4933-208-34

## Materials/Parts

CLP (item 5, app D)  
 Crocus cloth (item 6, app D)  
 Dry cleaning solvent (item 8, app D)  
 Headless pin (7791046)  
 Inspection penetrant kit (item 10, app D)  
 Spring pin (MS39086-53)  
 Spring pin (MS39086-59)  
 Spring pin (MS39086-77)  
 Spring pin (MS39086-90)

## Equipment Conditions

2-34 Back plate assembly removed  
 2-39 Barrel extension assembly removed  
 3-68 Barrel latch assembly removed  
 2-39 Bolt assembly removed



2-43 Cover assembly removed  
 3-34 Feed and ejector assembly removed  
 3-55 Feed return housing assembly removed  
 3-55 Feed slide assembly removed  
 3-63 Link tray guide removed  
 Receiver assembly disassembled (TM 9-1005-231-10)

3-48 Return rods removed  
 2-39 Sear assembly removed  
 3-21 Striker removed  
 3-19 Trigger assembly removed

LIST OF TASKS

Para No.	Task	Para Ref (Page)
3-4	Maintain M85 machine gun miscellaneous parts: a. Inspect. b. Test. c. Repair. d. Adjust.	3-11 3-11 3-12 3-12
3-5	Maintain barrel assembly a. Remove. b. Disassemble. c. Inspect. d. Repair/replace. e. Reassemble. f. Install.	3-15 3-15 3-16 3-16 3-16 3-17
3-6	Maintain back plate assembly: a. Inspect. b. Disassemble. c. Clean. d. Repair/replace. e. Reassemble. f. Lubricate.	3-18 3-18 3-22 3-22 3-22 3-25

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**3-3. M85 MACHINE GUN-SUMMARY OF MAINTENANCE PROCEDURE. (cont)**


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**LIST OF TASKS (cont)**

Para No.	Task	Para Ref (Page)
3-7	Maintain striker: <ul style="list-style-type: none"> <li>a. Disassemble.</li> <li>b. Service.</li> <li>c. Repair/replace.</li> <li>d. Reassemble.</li> </ul>	 3-27 3-27 3-27 3-27
3-8	Maintain trigger assembly: <ul style="list-style-type: none"> <li>a. Inspect.</li> <li>b. Disassemble.</li> <li>c. Repair/replace.</li> <li>d. Reassemble.</li> </ul>	 3-28 3-28 3-29 3-29
3-9	Maintain sear assembly: <ul style="list-style-type: none"> <li>a. Disassemble.</li> <li>b. Clean/lubricate.</li> <li>c. Inspect.</li> <li>d. Repair/replace.</li> <li>e. Reassemble.</li> </ul>	 3-30 3-31 3-32 3-32 3-32
3-10	Maintain feed and ejector assembly: <ul style="list-style-type: none"> <li>a. Remove.</li> <li>b. Disassemble.</li> <li>c. Clean.</li> <li>d. Inspect.</li> <li>e. Repair/replace.</li> <li>f. Reassemble.</li> <li>g. Install.</li> </ul>	 3-34 3-34 3-37 3-37 3-37 3-37 3-39

3-11	Maintain actuator:	3-40
	a. Remove.	
	b. Disassemble.	3-40
	c. Clean/lubricate.	3-41
	d. Repair/replace.	3-41
	e. Reassemble.	3-41
	f. Install.	3-41
3-12	Maintain bolt assembly:	
	a. Disassemble.	3-42
	b. Clean/lubricate.	3-44
	c. Inspect.	3-44
	d. Repair/replace.	3-44
	e. Reassemble.	3-45
3-13	Maintain barrel extension assembly:	
	a. Inspect.	3-48
	b. Disassemble.	3-48
	c. Lubricate.	3-49
	d. Repair/replace.	3-49
	e. Reassemble.	3-49
	f. Final inspection and function test	3-49
3-14	Maintain return rods:	
	a. Disassemble.	3-50
	b. Inspect.	3-50
	c. Repair/replace.	3-51
	d. Reassemble.	3-51
3-15	Maintain barrel extension subassembly:	
	a. Disassemble.	3-52
	b. Clean/lubricate.	3-52
	c. Repair/replace.	3-52
	d. Reassemble.	3-52

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**3-3. M85 MACHINE GUN-SUMMARY OF MAINTENANCE PROCEDURE. (cont)**


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**LIST OF TASKS (cont)**

Para No.	Task	Para Ref (Page)
3-16	Maintain cover assembly:  <ul style="list-style-type: none"> <li>a. Inspect.</li> <li>b. Disassemble.</li> <li>c. Repair/replace.</li> <li>d. Reassemble.</li> </ul>	  3-53 3-53 3-56 3-56
3-17	Maintain feed slide assembly:  <ul style="list-style-type: none"> <li>a. Disassemble.</li> <li>b. Clean/lubricate.</li> <li>c. Repair/replace.</li> <li>d. Reassemble.</li> </ul>	  3-59 3-59 3-60 3-60
3-18	Maintain feed return housing assembly:  <ul style="list-style-type: none"> <li>a. Disassemble.</li> <li>b. Clean/lubricate.</li> <li>c. Repair/replace.</li> <li>d. Reassemble.</li> </ul>	  3-61 3-61 3-61 3-61
3-19	Maintain feed tray assembly:  <ul style="list-style-type: none"> <li>a. Inspect.</li> <li>b. Remove.</li> <li>c. Disassemble.</li> <li>d. Clean/lubricate.</li> <li>e. Repair/replace.</li> <li>f. Reassemble.</li> <li>g. Install.</li> </ul>	  3-62 3-62 3-63 3-63 3-64 3-64 3-64

3-20	Maintain link tray guide:	<ul style="list-style-type: none"> <li>a. Disassemble.</li> <li>b. Clean/lubricate.</li> <li>c. Repair/replace.</li> <li>d. Reassemble.</li> </ul>	<ul style="list-style-type: none"> <li>3-65</li> <li>3-65</li> <li>3-66</li> <li>3-66</li> </ul>
3-21	Maintain accelerator assembly:	<ul style="list-style-type: none"> <li>a. Remove.</li> <li>b. Disassemble.</li> <li>c. Clean/lubricate.</li> <li>d. Inspect.</li> <li>e. Repair/replace.</li> <li>f. Reassemble.</li> <li>g. Install.</li> </ul>	<ul style="list-style-type: none"> <li>3-67</li> <li>3-68</li> <li>3-69</li> <li>3-69</li> <li>3-69</li> <li>3-69</li> <li>3-71</li> </ul>
3-22	Maintain barrel latch assembly:	<ul style="list-style-type: none"> <li>a. Disassemble.</li> <li>b. Clean/lubricate.</li> <li>c. Repair/replace.</li> <li>d. Reassemble.</li> </ul>	<ul style="list-style-type: none"> <li>3-72</li> <li>3-72</li> <li>3-73</li> <li>3-73</li> </ul>
3-23	Maintain trigger extension assembly:	<ul style="list-style-type: none"> <li>a. Remove.</li> <li>b. Disassemble.</li> <li>c. Clean/lubricate.</li> <li>d. Repair/replace.</li> <li>e. Reassemble.</li> <li>f. Install.</li> </ul>	<ul style="list-style-type: none"> <li>3-74</li> <li>3-74</li> <li>3-74</li> <li>3-74</li> <li>3-74</li> <li>3-74</li> </ul>
3-24	Maintain hand charger assembly:	<ul style="list-style-type: none"> <li>a. Remove.</li> <li>b. Disassemble.</li> <li>c. Clean.</li> <li>d. Inspect.</li> <li>e. Repair/replace.</li> <li>f. Reassemble.</li> <li>g. Install.</li> </ul>	<ul style="list-style-type: none"> <li>3-75</li> <li>3-75</li> <li>3-77</li> <li>3-77</li> <li>3-77</li> <li>3-77</li> <li>3-77</li> <li>3-79</li> </ul>

### 3-3. M85 MACHINE GUN-SUMMARY OF MAINTENANCE PROCEDURE. (cont)

LIST OF TASKS (cont)		
Para No.	Task	Para Ref (Page)
3-25	Maintain safety assembly:  <ul style="list-style-type: none"> <li>a. Remove.</li> <li>b. Disassemble.</li> <li>c. Clean/lubricate.</li> <li>d. Inspect.</li> <li>e. Repair/replace.</li> <li>f. Reassemble.</li> <li>g. Install.</li> </ul>	       3-80 3-80 3-80 3-81 3-81 3-81 3-81
3-26	Maintain receiver assembly:  <ul style="list-style-type: none"> <li>a. Inspect.</li> <li>b. Test for loose rivets.</li> <li>c. Repair.</li> </ul>	       3-83 3-83 3-85
3-27	Final inspection:  <ul style="list-style-type: none"> <li>a. Test barrel assembly.</li> <li>b. Adjust time delay mechanism.</li> <li>c. Test back plate assembly.</li> <li>d. Test for firing pin protrusion in bolt assembly.</li> <li>e. Test for bolt locking space.</li> <li>f. Final test and inspection.</li> </ul>	       3-87 3-87 3-88 3-88 3-90 3-90

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### **3-4. M85 MACHINE GUN MISCELLANEOUS PARTS-MAINTENANCE INSTRUCTIONS.**

---

#### **THIS TASK COVERS:**

- a. Inspection
- b. Test
- c. Repair
- d. Adjustment

#### **INITIAL SETUP**

##### **Tools and Special Tools**

Field maintenance, basic less power, small arms shop set  
(app B)

##### **References**

Appendix B  
Appendix C  
TM 9-1005-231-10

#### **INSPECTION**

Inspect for overall appearance, proper finish, and proper functioning.

#### **TEST**

Test M85 machine guns that have been repaired by function firing (TM 9-1005-231-10), whenever possible, to assure proper operation." Correct weapons that fail to meet functioning and firing tests by replacing defective components. After testing clean and lubricate weapons (TM 9-1005-231-10).

**3-4. M85 MACHINE GUN MISCELLANEOUS PARTS-MAINTENANCE INSTRUCTIONS. (cont)****REPAIR****M85 MACHINE GUN MISCELLANEOUS PARTS.**

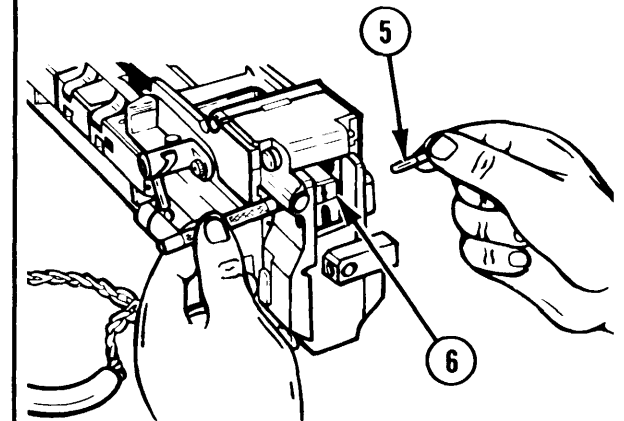
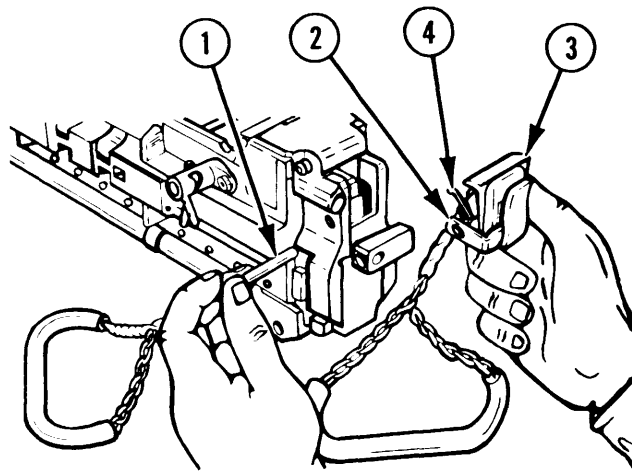
- a. Replace all parts that are cracked, deformed, or missing.
- b. Repair is by replacement of authorized parts (app C).

**ADJUSTMENT****NOTE**

The back plate assembly should not be changed from one weapon to another without readjusting the solenoid armature. Once adjusted, do not remove back plate assembly from receiver assembly.

Weapons of early manufacture may have the nonadjustable solenoid armature. As they become unserviceable, they must be replaced with an adjustable solenoid armature.

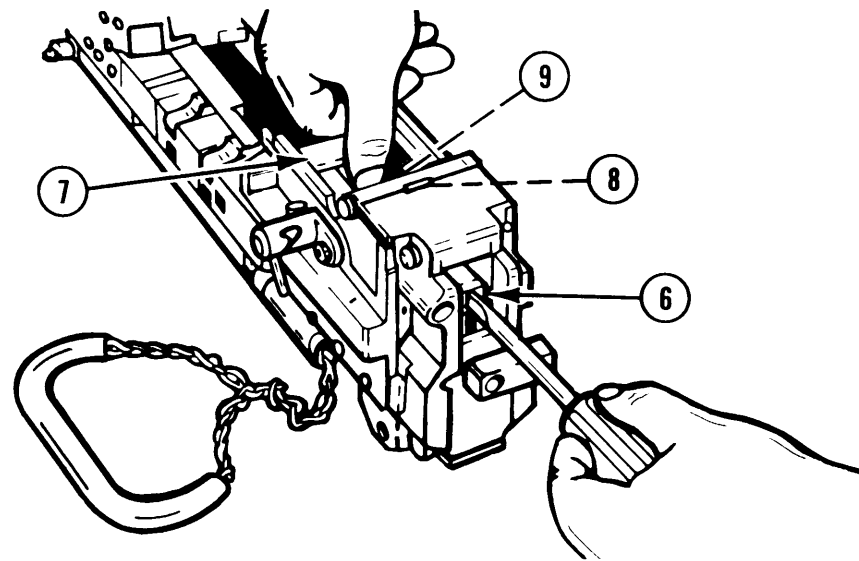
- 1 QUICK RELEASE PIN (1). Remove.
- 2 TRIGGER EXTENSION ASSEMBLY (2). Remove.
- 3 TRIGGER ASSEMBLY (3). Remove.
- 4 TRIGGER RETURN SPRING (4). Remove.



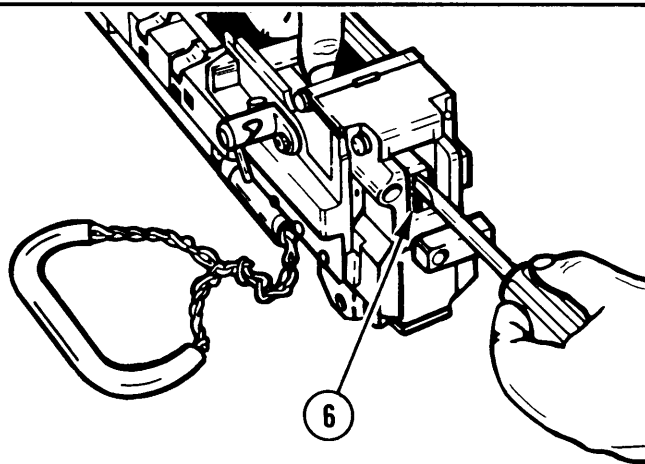
- 5 DISCONNECTOR PIN (5). Remove from solenoid armature (6).



- 6 SOLENOID ARMATURE (6). Turn clockwise with screwdriver until it stops.
- 7 SEAR ASSEMBLY (7). Hold in rearmost position; turn solenoid armature (6) counterclockwise until solenoid plunger (8) makes contact with the sear lever (9).



- 8 SOLENOID ARMATURE (6). Turn clockwise to the nearest horizontal hole to insert disconnecter pin. Be sure the solenoid armature only turns and does not move horizontally out of position.

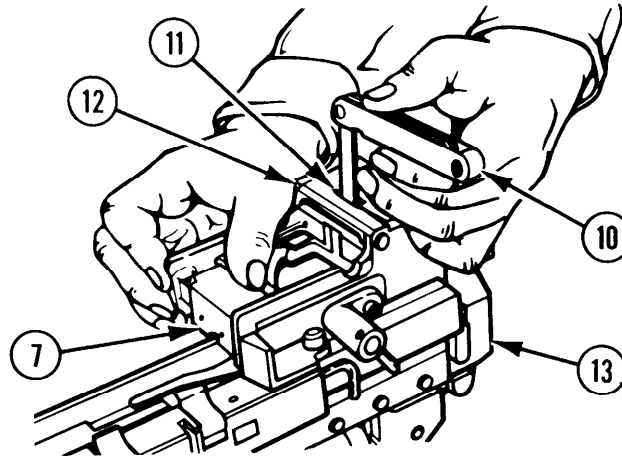


**NOTE**

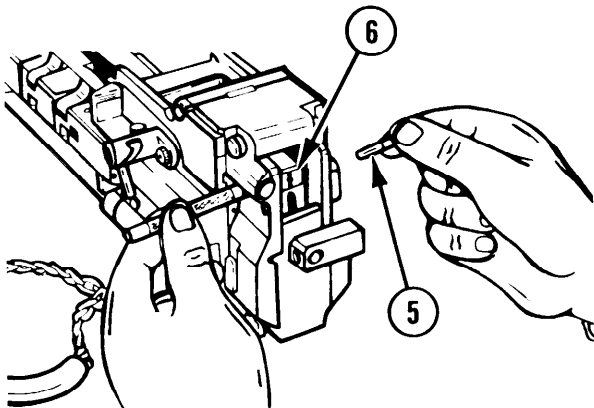
Tolerances of 0.015 to 0.020 in. (0.038 to 0.051 cm) must be maintained when back plate assembly and/or sear assembly components are installed.

**3-4. M85 MACHINE GUN MISCELLANEOUS PARTS-MAINTENANCE INSTRUCTIONS. (cont)****ADJUSTMENT (cont)**

- 9 SEAR ASSEMBLY (7).** Hold in forward position and insert leaf-type feeler gage (10) in slot (11) between the receiver brace (12) and back plate (13).

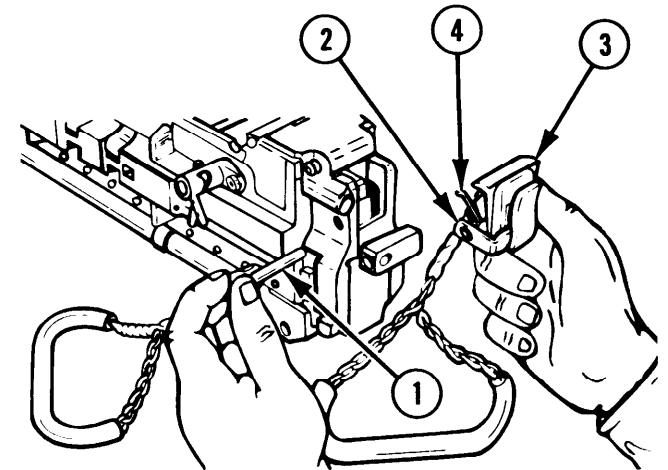
**NOTE**

The solenoid armature may be rotated clockwise to increase clearance, and counterclockwise to reduce clearance, as required, between the solenoid plunger and the sear lever, where the actual measurement is applicable.



- 10 DISCONNECTOR PIN (5).** Install in solenoid armature (6).

- 11 TRIGGER RETURN SPRING (4), TRIGGER ASSEMBLY (3), AND TRIGGER EXTENSION ASSEMBLY (2).** Assemble and install quick release pin (1).



### 3-5. BARREL ASSEMBLY-MAINTENANCE INSTRUCTIONS.

#### THIS TASK COVERS:

- a. Removal
- b. Disassembly
- c. Inspection
- d. Repair/replacement
- e. Reassembly
- f. Installation

#### INITIAL SETUP

##### Tools and Special Tools

Field maintenance, basic less power, small arms shop set (app B)  
M6A1 barrel erosion gage (app B)

##### Materials/Parts

Inspection penetrant kit (item 10, app D)

##### References

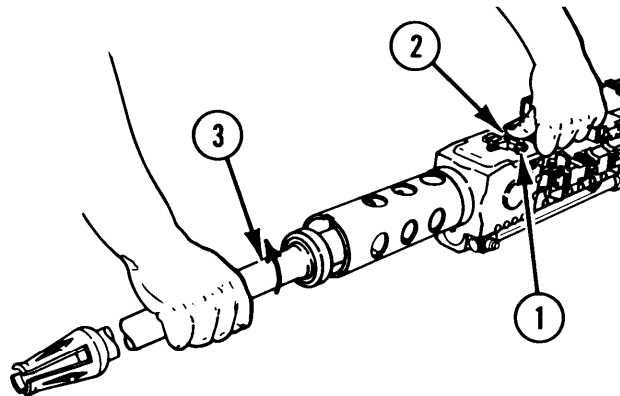
Appendix B  
Appendix C  
Appendix D  
TM 9-4933-208-34

#### REMOVAL

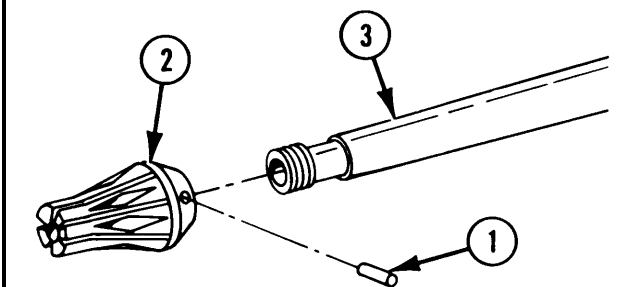
##### WARNING

Open cover assembly and make sure the chamber and barrel are clear.

- 1 BARREL LOCK (1). Push in and hold.
- 2 BARREL LATCH (2). Press.
- 3 BARREL ASSEMBLY (3). Rotate 1/4 turn and pull to remove.



#### DISASSEMBLY



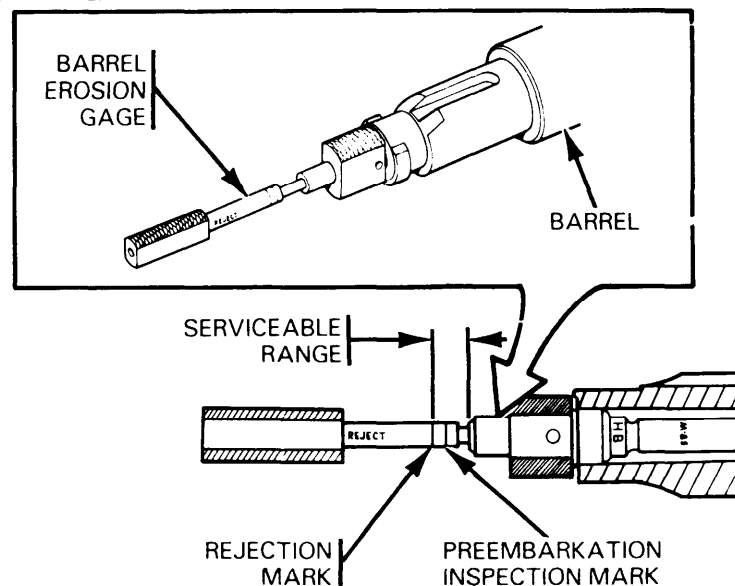
- 1 TUBULAR PIN (1). Remove.
- 2 FLASH SUPPRESSOR (2). Remove from barrel (3).

### 3-5. BARREL ASSEMBLY-MAINTENANCE INSTRUCTIONS. (cont)

#### INSPECTION

##### BARREL ASSEMBLY.

- a. Check barrel erosion gage for serviceability.
- b. Inspect for rough spots, bulges, rust, or foreign matter.
- c. Determine serviceability of bore with barrel erosion gage. Refer to TM 9-4933-208-34 for proper use of barrel erosion gage.
- d. For correct reading, push barrel erosion gage until you feel initial drag.
- e. Make sure flash suppressor is not damaged and is secured to barrel when assembled.
- f. Examine locking lugs for cracks, burrs, and chips.
- g. Use inspection penetrant kit (item 10, app D) to check for cracks.

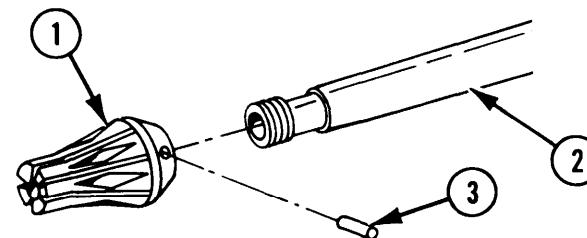


#### REPAIR/REPLACEMENT

##### BARREL ASSEMBLY.

- a. Replace all parts that are cracked, deformed, missing, or have damaged threads.
- b. Repair is by replacement of authorized parts (app C).
- c. Replace barrel assembly if repair procedures do not correct maintenance problem.

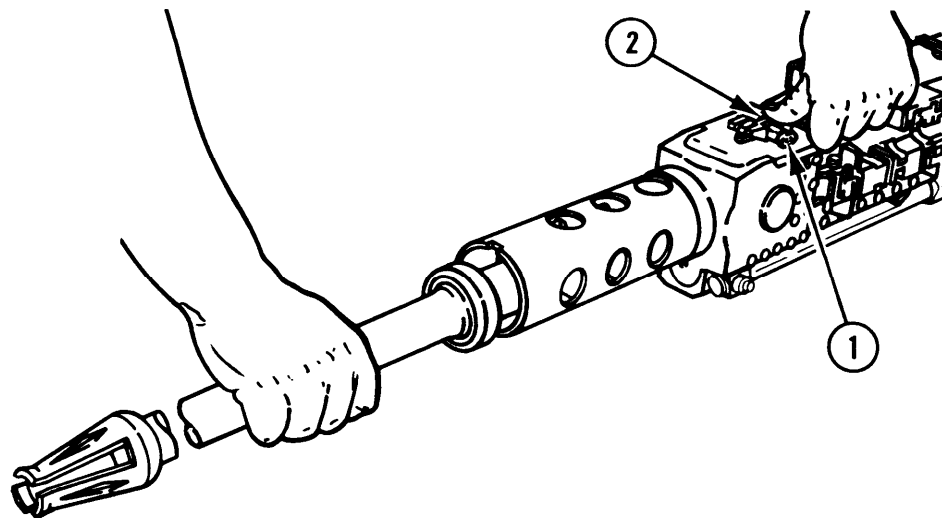
#### REASSEMBLY



- 1 FLASH SUPPRESSOR (1). Install on barrel (2).
- 2 TUBULAR PIN (3). Install.

## INSTALLATION

- 1 BARREL LOCK (1) AND BARREL LATCH (2). Press.



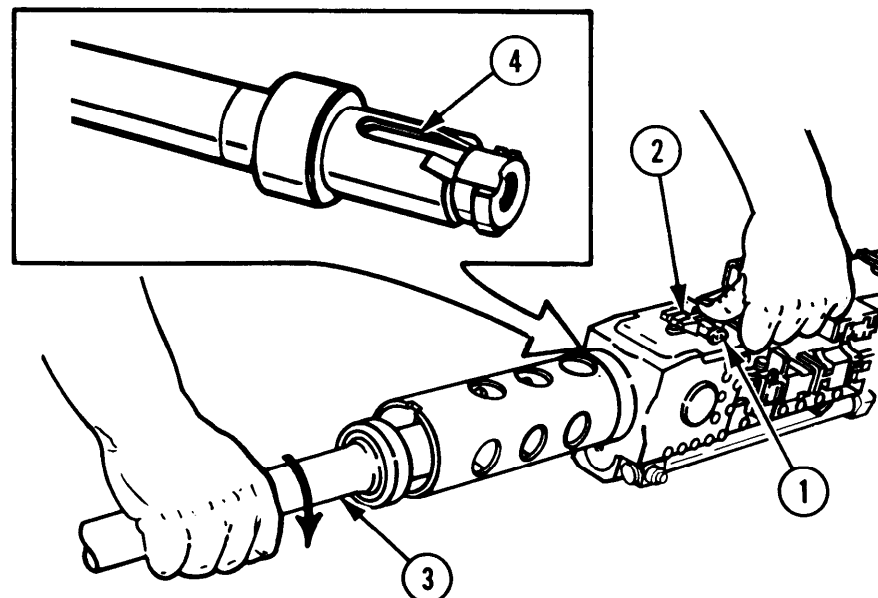
- 2 BARREL ASSEMBLY (3).

- a. Aline notch (4) on right side of receiver assembly.
- b. Push in and turn clockwise until it stops.

- 3 BARREL LOCK (1) AND BARREL LATCH (2). Release.

### NOTE

Try to rotate barrel assembly to be sure it is locked to the barrel extension assembly.



### 3-6. BACK PLATE ASSEMBLY-MAINTENANCE INSTRUCTIONS.

#### THIS TASK COVERS:

- |                |                       |
|----------------|-----------------------|
| a. Inspection  | d. Repair/replacement |
| b. Disassembly | e. Reassembly         |
| c. Cleaning    | f. Lubrication        |

#### INITIAL SETUP

##### Tools and Special Tools

Field maintenance, basic less power, small arms shop set (app B)  
Field maintenance, post, camp, and station, set D, small arms shop sets (app B)

##### Materials/Parts

Dry cleaning solvent (item 8, app D)  
Wiping rag (item 14, app D)

##### References

Appendix B  
Appendix C  
Appendix D  
TM 9-1005-231-10

##### Equipment Conditions

2-34 Back plate assembly removed

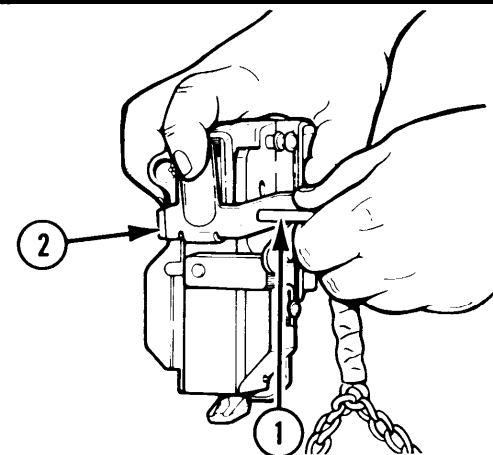
#### INSPECTION

##### BACK PLATE ASSEMBLY.

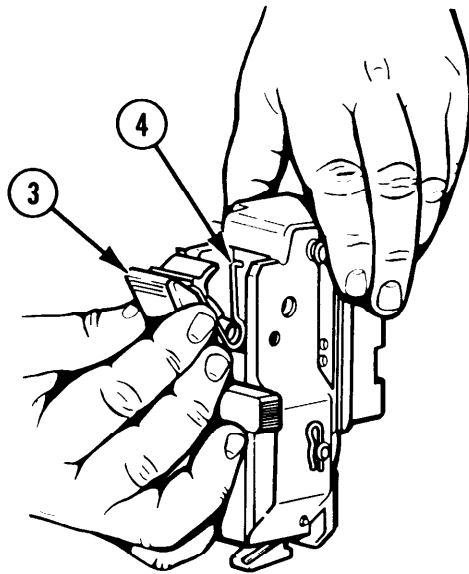
- Check for free movement of components.
- During disassembly, check for rust, corrosion, and broken springs.

#### DISASSEMBLY

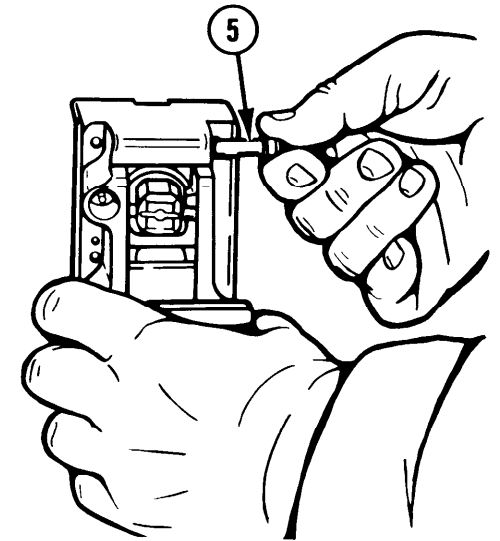
- 1 QUICK RELEASE PIN (1). Push out, and remove trigger extension assembly (2).



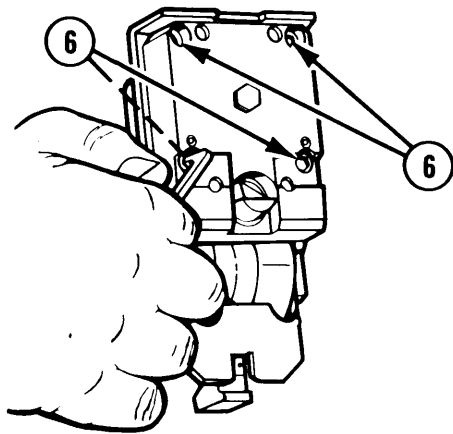
2 TRIGGER ASSEMBLY (3) AND TRIGGER RETURN SPRING (4). Remove.



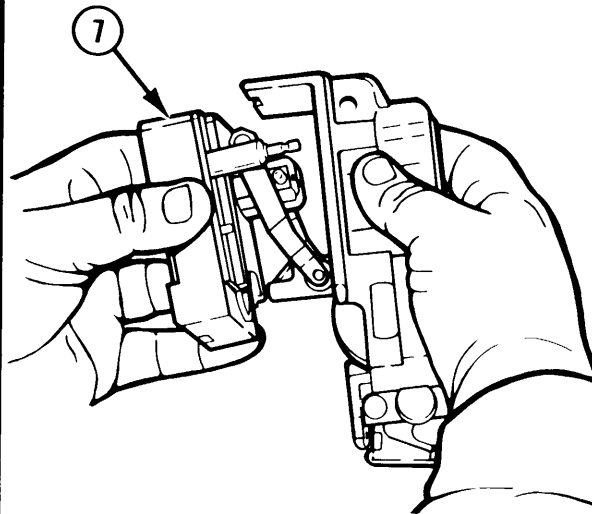
3 QUICK RELEASE PIN (5). Remove.



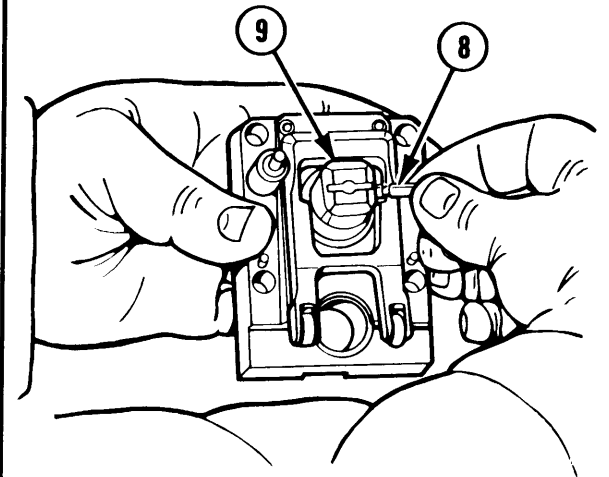
4 FOUR SCREWS (6). Remove.

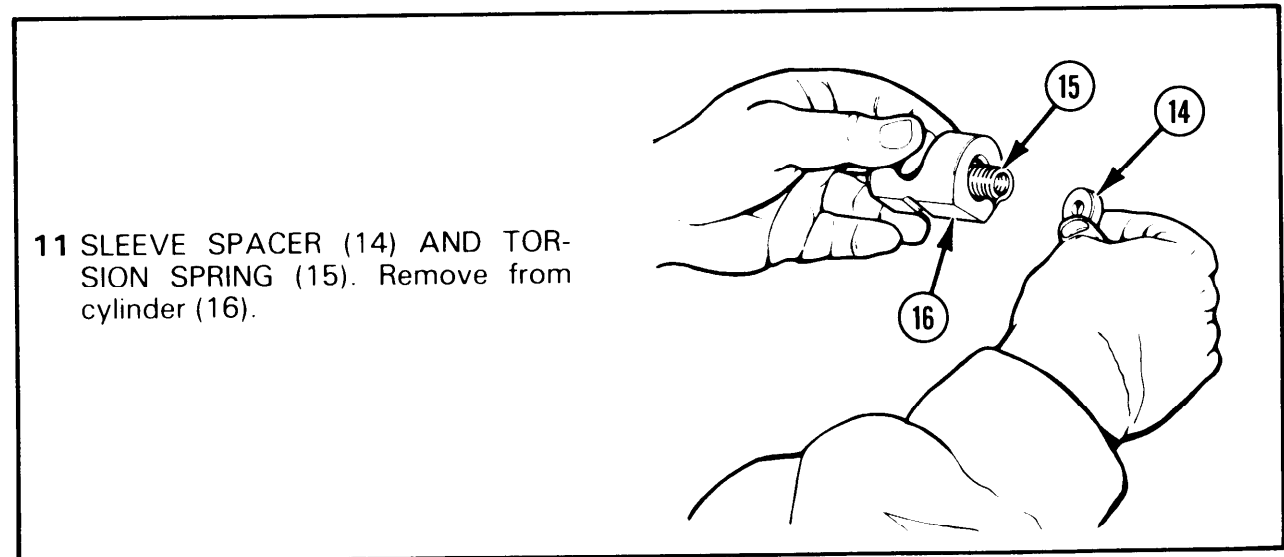
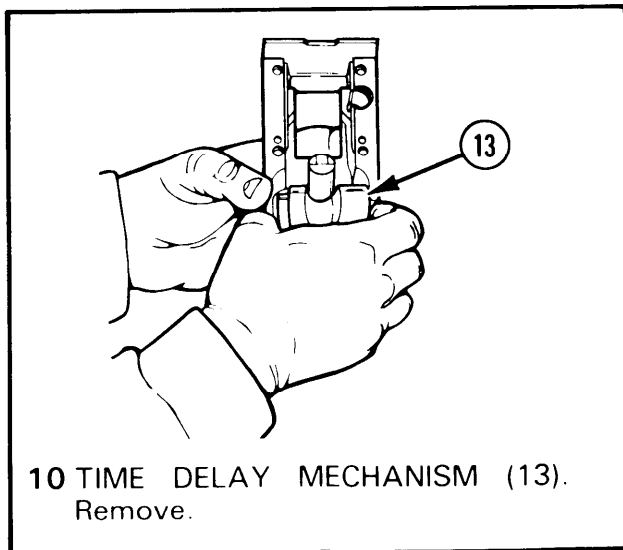
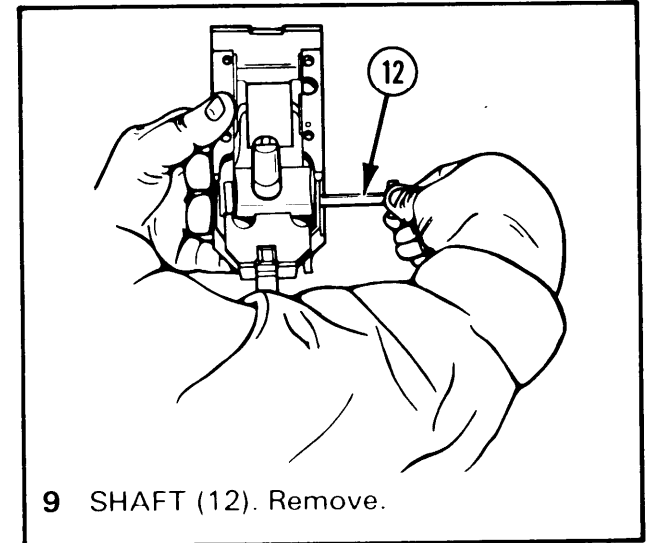
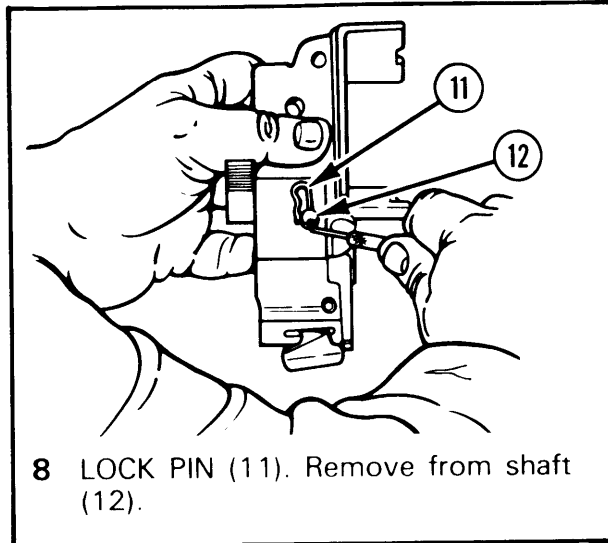
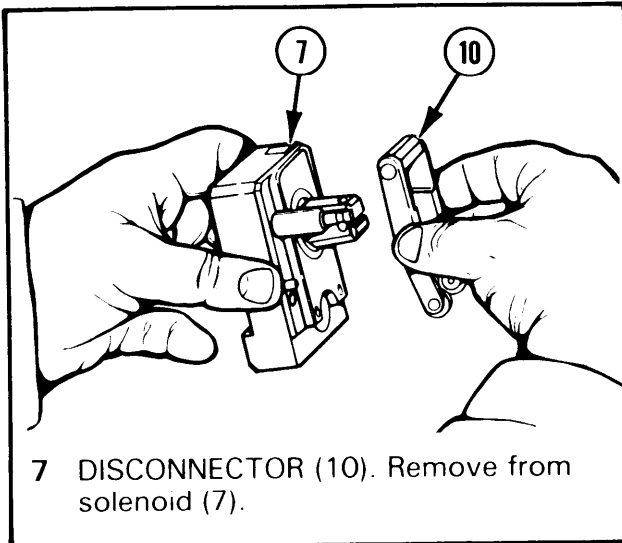


5 SOLENOID (7). Remove.



6 DISCONNECTOR PIN (8). Push out from solenoid armature (9).

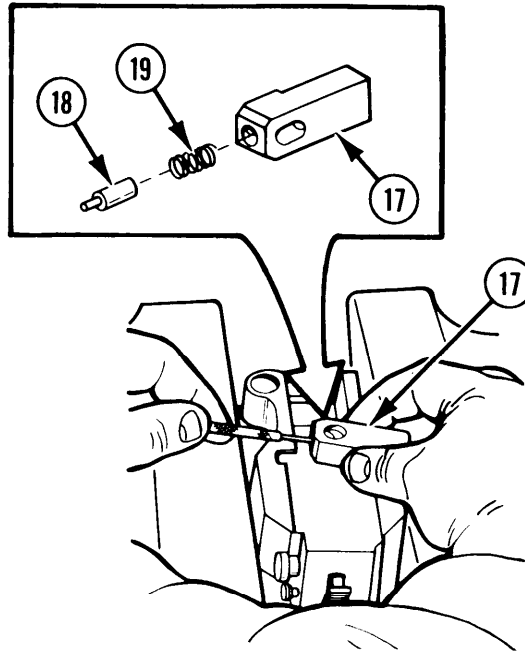


**3-6. BACK PLATE ASSEMBLY-MAINTENANCE INSTRUCTIONS. (cont)****DISASSEMBLY (cont)**

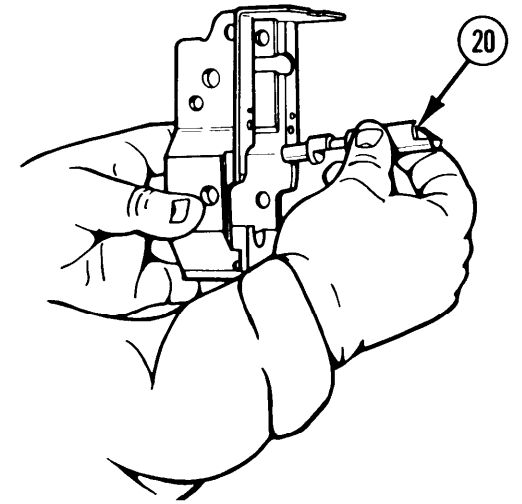


12 RATE SELECTOR (17). Remove.

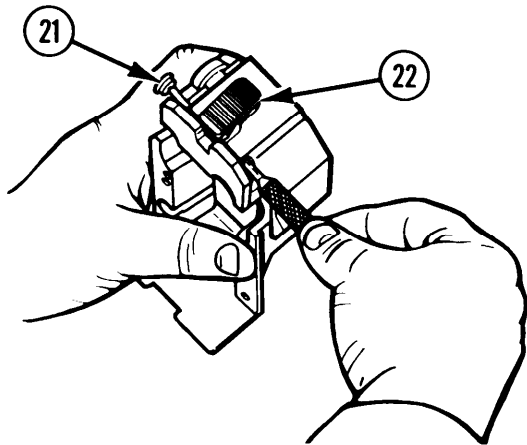
13 RATE SELECTOR PLUNGER (18)  
AND SPRING (19). Remove.



14 STRIKER (20). Remove.

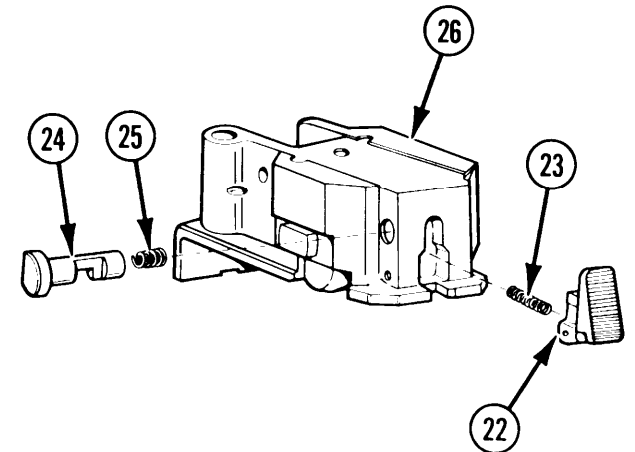


15 STRAIGHT PIN (21). Punch out of  
back plate latch (22).



16 BACK PLATE LATCH (22) AND  
SPRING (23). Remove.

17 BACK PLATE LOCK (24) AND  
SPRING (25). Remove from back  
plate (26).



**3-6. BACK PLATE ASSEMBLY-MAINTENANCE INSTRUCTIONS. (cont)****CLEANING**

Use wiping rag (item 14, app D) to clean all components with dry cleaning solvent (item 8, app D).

**REPAIR/REPLACEMENT****CAUTION**

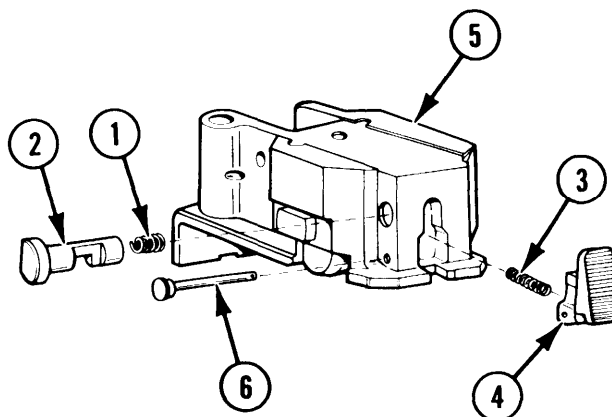
Back plate lock (8448209) replaces back plate lock (7793090), and back plate latch (8448210) replaces back plate latch (7793039). They are not interchangeable in any combination and must both be replaced at the same time.

**BACK PLATE ASSEMBLY.**

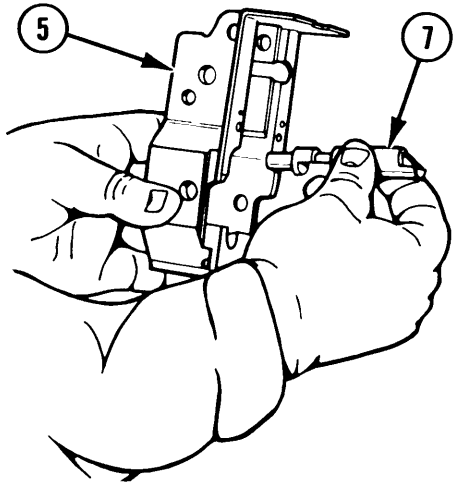
- a. Replace all parts that are cracked, deformed, missing, or have damaged threads.
- b. Repair is by replacement of authorized parts (app C).

**REASSEMBLY**

- 1 SPRING (1) AND BACK PLATE LOCK (2). Install.
- 2 SPRING (3) AND BACK PLATE LATCH (4). Install in back plate (5).
- 3 STRAIGHT PIN (6). Install.

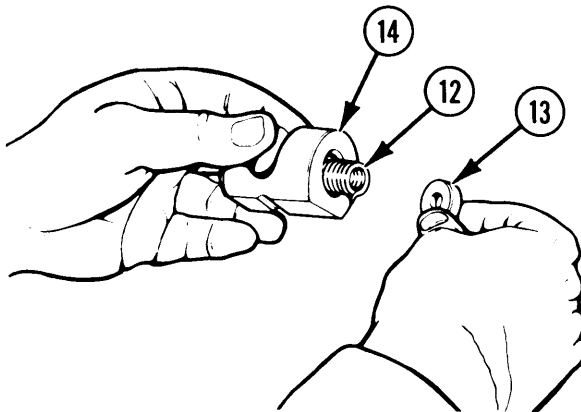
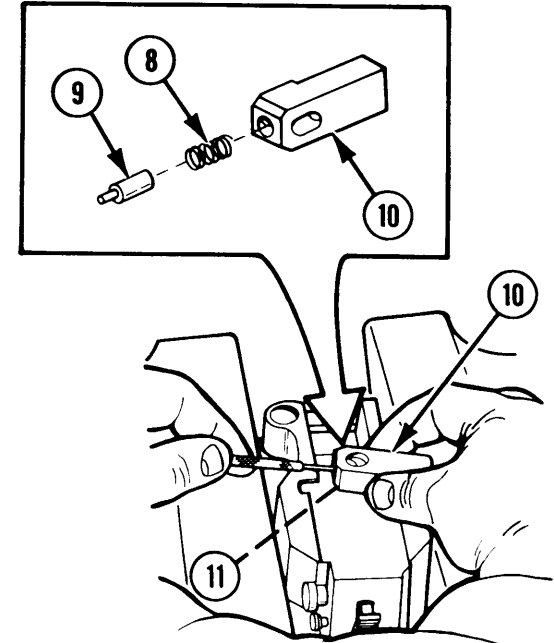
**NOTE**

Make sure that the striker and rate selector are positioned at low rate.



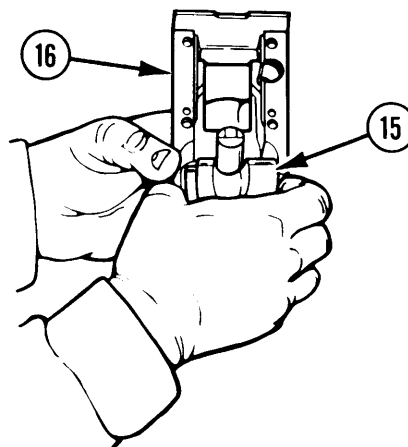
4 STRIKER (7). Install in back plate (5).

5 SPRING (8) AND RATE SELECTOR PLUNGER (9). Install in rate selector (10), slip elongated hole of rate selector over installed stud (11) and seat rate selector plunger in rate selector retaining hole.

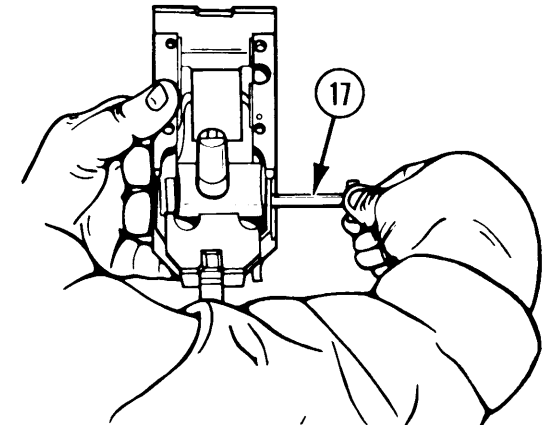


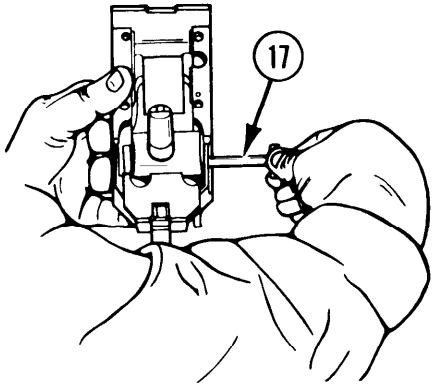
6 TORSION SPRING (12) AND SLEEVE SPACER (13). Install in cylinder (14).

7 TIME DELAY MECHANISM (15). Position and press in solenoid (16).

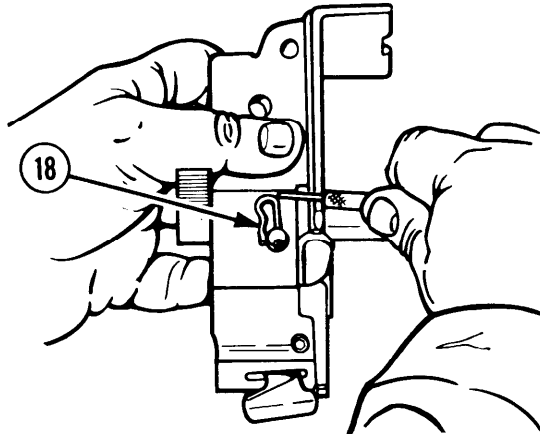


8 SHAFT (17).  
a. Install.

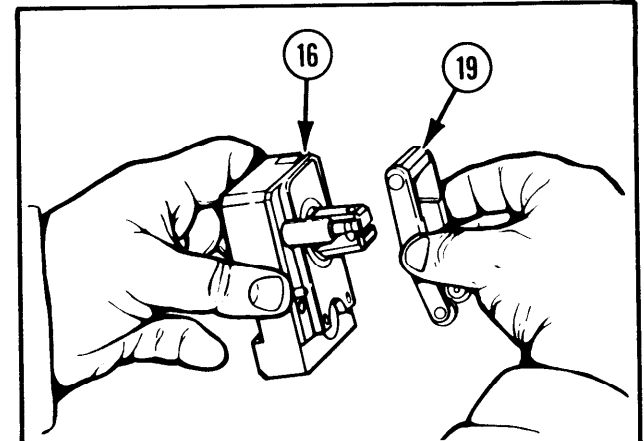


**3-6. BACK PLATE ASSEMBLY-MAINTENANCE INSTRUCTIONS. (cont)****REASSEMBLY (cont)**

b. Adjust spring tension by turning shaft (17) counterclockwise 1/2 turn and pushing in.

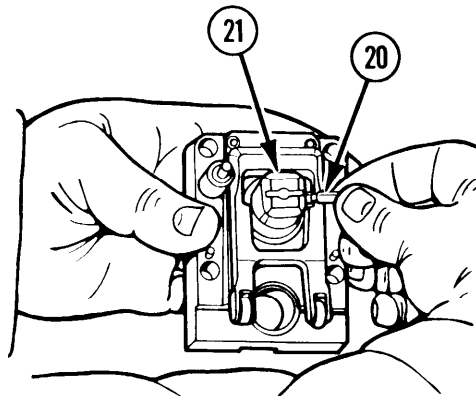


9 LOCK PIN (18). Install.

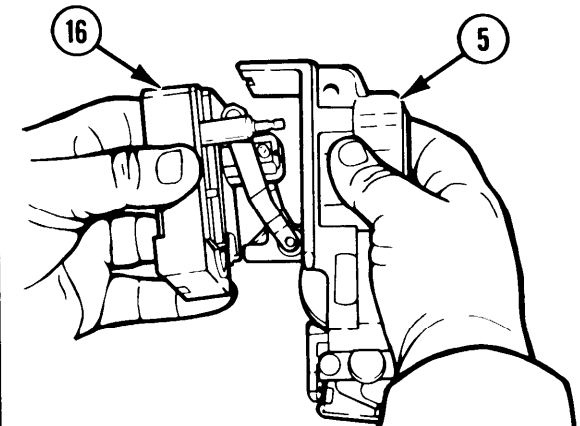


10 DISCONNECTOR (19). Install in solenoid (16).

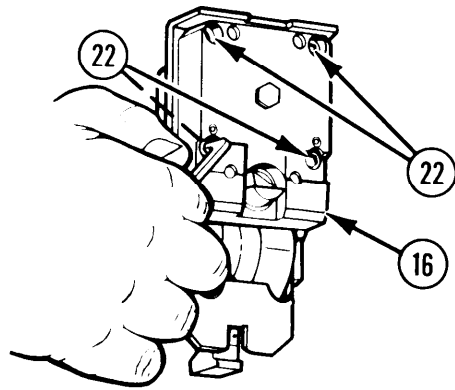
**NOTE**  
Be sure that the disconnecter holes are aligned when installing disconnecter pin.



11 DISCONNECTER PIN (20). Install in solenoid armature (21).



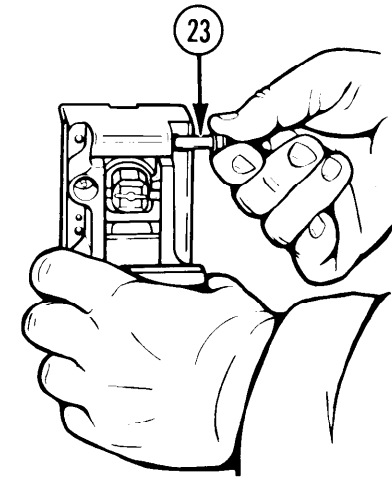
12 SOLENOID (16). Position in back plate (5).



**13 FOUR SCREWS (22).** Install in solenoid (16). Torque screws to  $76 \pm 5$  in.-lb ( $8.588 \pm 0.565$  N-m).

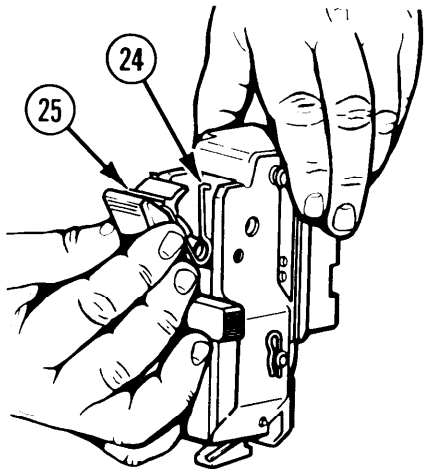
**NOTE**

Make sure that quick release pin goes through holes in disconnecter.

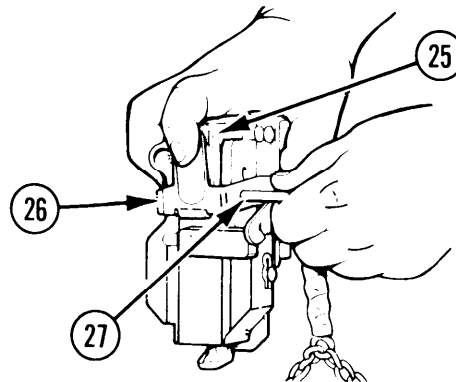


**14 QUICK RELEASE PIN (23).** Install.

**LUBRICATION**



**15 TRIGGER RETURN SPRING (24).** Install on trigger assembly (25).



**16 TRIGGER EXTENSION ASSEMBLY (26).** Position over trigger assembly (25).

**17 QUICK RELEASE PIN (27).** Install.

Lubricate as required (TM 9-1005-231-10).

**3-7. STRIKER-MAINTENANCE INSTRUCTIONS.****THIS TASK COVERS:**

- a. Disassembly
- b. Servicing
- c. Repair/replacement
- d. Reassembly

**INITIAL SETUP****Tools and Special Tools**

- Field maintenance, basic less power, small arms shop set (app B)
- Field maintenance, post, camp, and station, set D, small arms shop sets (app B)

**Materials/Parts**

- Dry cleaning solvent (item 8, app D)
- Headless pin (7791046)
- Wiping rag (item 14, app D)

**References**

- Appendix B
- Appendix C
- Appendix D
- TM 9-1005-231-10

**Equipment Conditions**

- 3-21 Striker removed

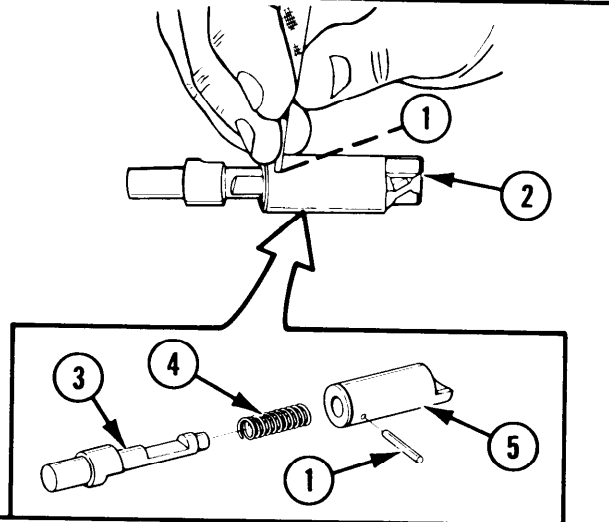
## DISASSEMBLY

- 1 HEADLESS PIN (1). Drive out from striker (2). Discard.

### WARNING

Be careful when removing spring to avoid injury.

- 2 LOW RATE STRIKER (3) AND SPRING (4). Remove from stud (5).



## SERVICING

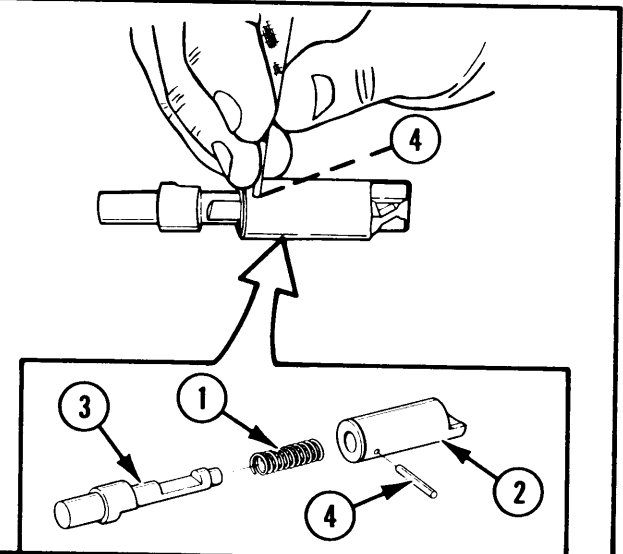
Use wiping rag (item 14, app D) to clean with dry cleaning solvent (item 8, app D). Lubricate as required (TM 9-1005-231-10).

## REPAIR/REPLACEMENT

Repair is by replacement of authorized parts (app C) as needed.

## REASSEMBLY

- 1 SPRING (1). Install in stud (2).
- 2 LOW RATE STRIKER (3). Install in stud (2).
- 3 SPRING (1). Compress.
- 4 HEADLESS PIN (4). Install new headless pin.



**3-8. TRIGGER ASSEMBLY-MAINTENANCE INSTRUCTIONS.**

**THIS TASK COVERS:**

- a. Inspection
- b. Disassembly
- c. Repair/replacement
- d. Reassembly

**INITIAL SETUP**

**Tools and Special Tools**

Field maintenance, basic less power, small arms shop set (app B)  
 Field maintenance, post, camp, and station, set D, small arms shop sets (app B)

**References**

Appendix B  
 Appendix C  
 TM 9-1005-231-10

**Equipment Conditions**

3-19 Trigger assembly removed

**INSPECTION**

**TRIGGER ASSEMBLY.**

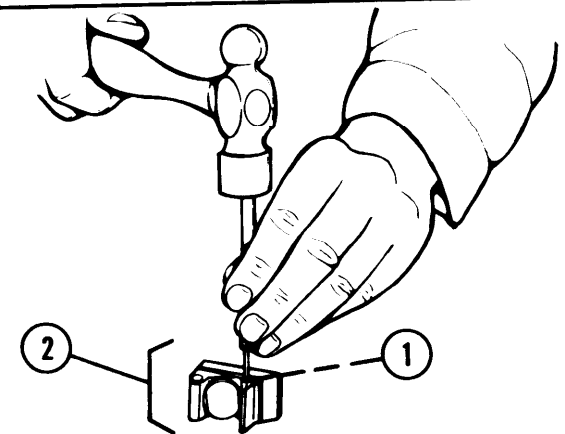
- a. Check for free movement; must be able to fire weapon manually.
- b. Check for spring tension.
- c. Check for proper servicing, cleaning, and lubrication (TM 9-1005-231-10).

**DISASSEMBLY**

**WARNING**

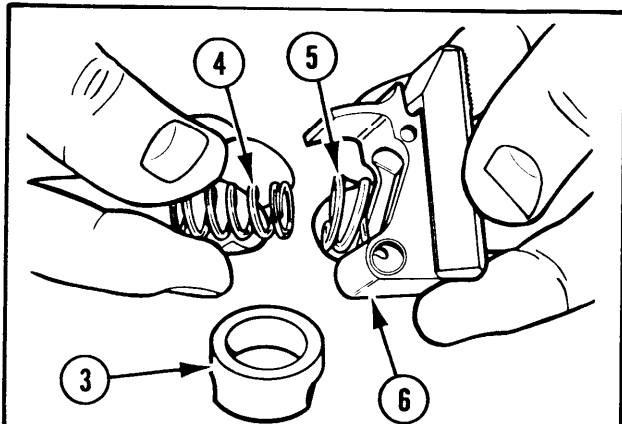
Use care when removing spring pin; springs are under tension.

- 1 SPRING PIN (1). Drive out of trigger assembly (2).





## REPAIR/REPLACEMENT



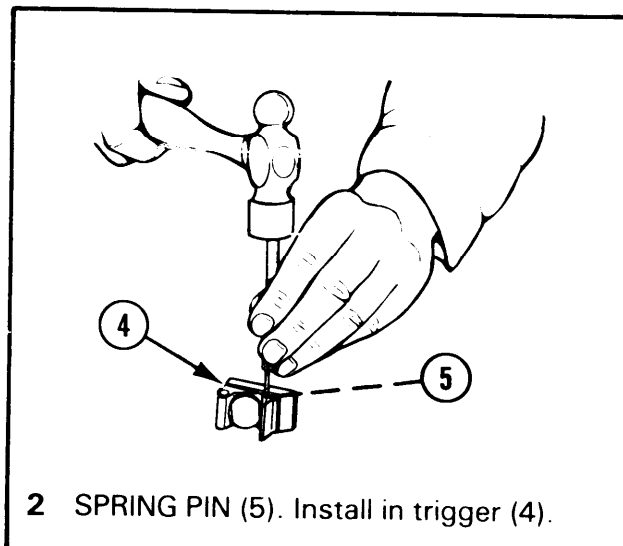
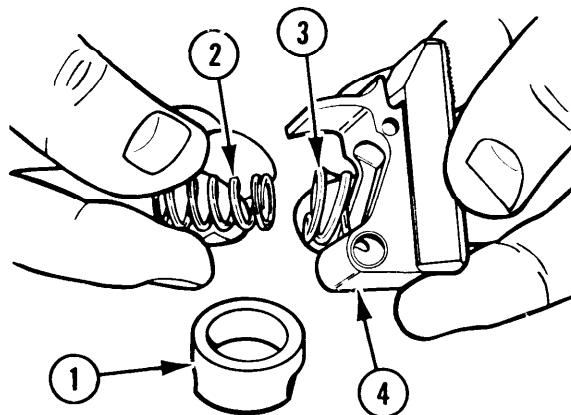
2 TRIGGER CAP (3) AND SPRINGS (4 AND 5). Remove from trigger (6).

### TRIGGER ASSEMBLY.

- Replace all parts that are cracked, deformed, or missing.
- Repair is by replacement of authorized parts (app C).
- Replace trigger assembly if repair procedures do not correct maintenance problem.

## REASSEMBLY

1 TRIGGER CAP (1). Position over springs (2 and 3), and install in trigger (4).



2 SPRING PIN (5). Install in trigger (4).

### **3-9. SEAR ASSEMBLY-MAINTENANCE INSTRUCTIONS.**

#### **THIS TASK COVERS:**

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>a. Disassembly</li> <li>b. Cleaning/lubrication</li> <li>c. Inspection</li> </ul> | <ul style="list-style-type: none"> <li>d. Repair/replacement</li> <li>e. Reassembly</li> </ul> |
|--|--|

#### **INITIAL SETUP**

##### Tools and Special Tools

Field maintenance, basic less power, small arms shop set  
(app B)

##### Materials/Parts

CLP (item 5, app D)  
Inspection penetrant kit (item 10, app D)  
Spring pin (MS39086-90)  
Wiping rag (item 14, app D)

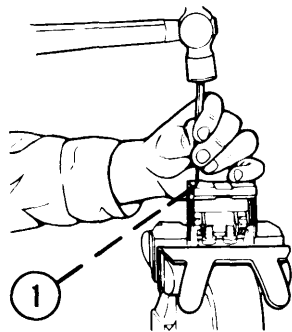
##### References

Appendix B  
Appendix C  
Appendix D  
TM 9-1005-231-10

##### Equipment Conditions

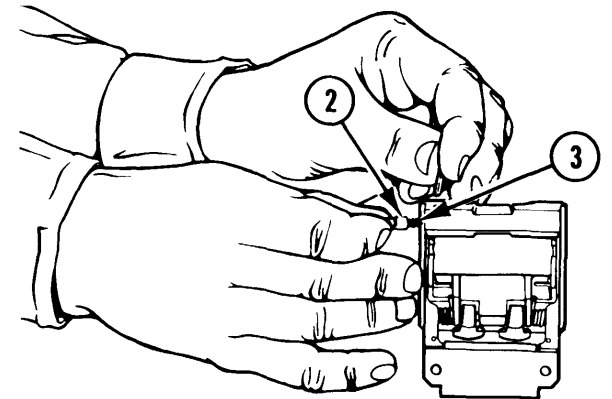
2-39 Sear assembly removed

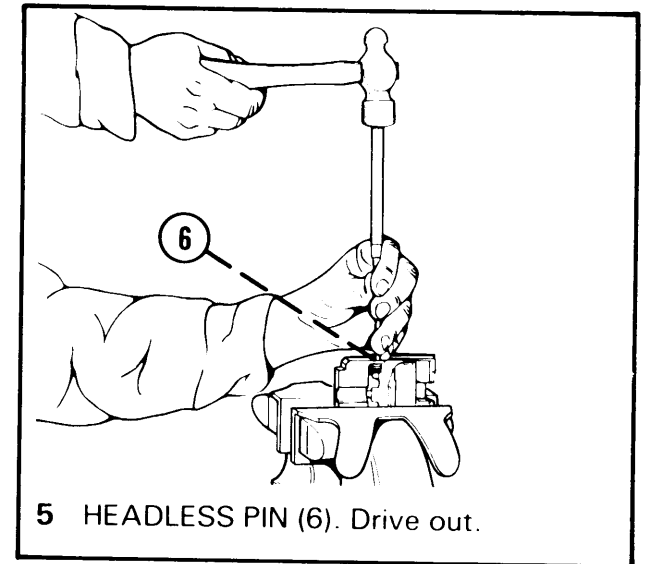
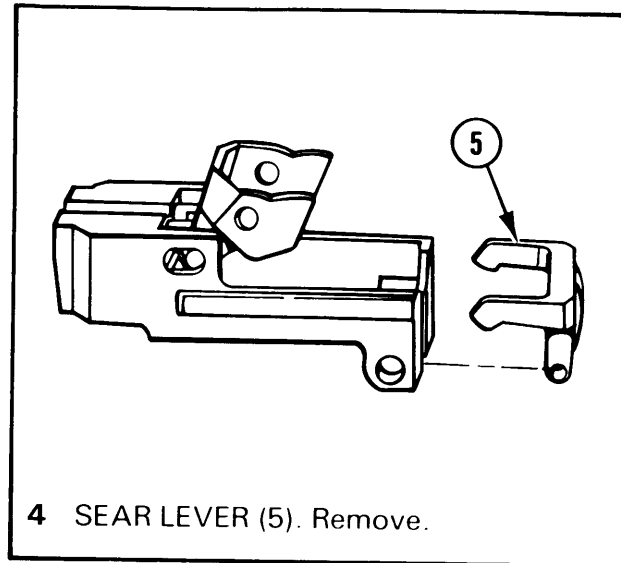
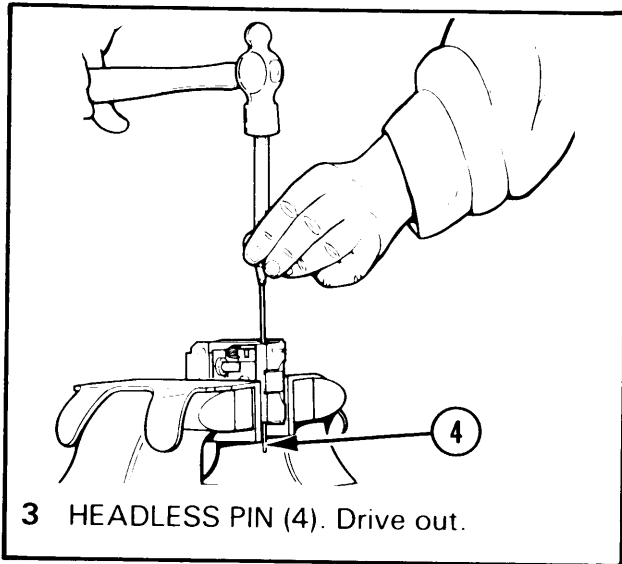
### **DISASSEMBLY**



1 SPRING PIN (1). Drive out; discard.

2 DETENT (2) AND SPRING (3). RE  
move.





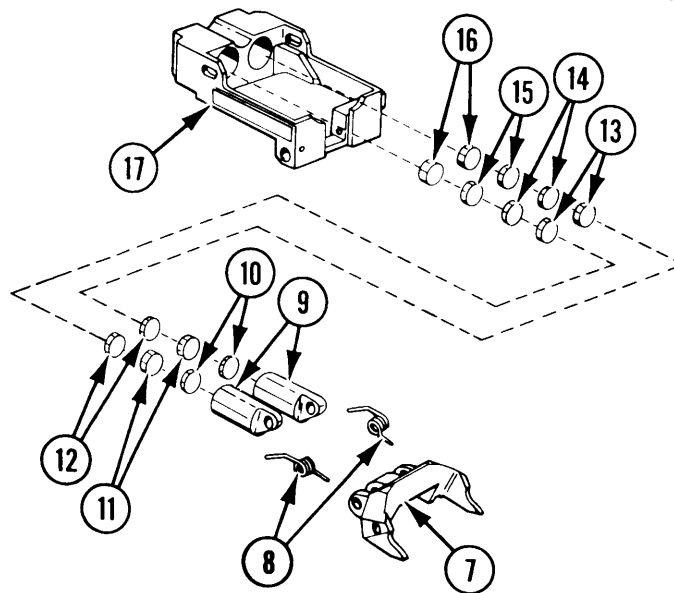
**CLEANING/LUBRICATION**

6 BOLT SEAR (7), TWO TORSION SPRINGS (8), AND TWO BUFFER HOUSINGS (9). Remove.

**NOTE**

Keep disks in order when removing.

7 FOUR PLAIN DISKS (10 AND 11), TWO BUFFER DISKS (12), TWO PLAIN DISKS (13), TWO BUFFER DISKS (14), TWO PLAIN DISKS (15), AND TWO BUFFER DISKS (16). Remove from sear block (17).



**CAUTION**

Do not use cleaners or lubricants on disks.

Clean all metal parts with CLP (item 5, app D) and dry with wiping rag (item 14, app D). Lubricate lightly as required (TM 9-1005-231-10).

### 3-9. SEAR ASSEMBLY-MAINTENANCE INSTRUCTIONS. (cont)

#### INSPECTOR

##### SEAR ASSEMBLY.

- a. Check for rust, corrosion, burrs, and wear.
- b. Use Inspection penetrant klt (item 10, app D) to check for cracks.

#### REPAIR/REPLACEMENT

##### SEAR ASSEMBLY.

- a. Replace all parts that are cracked, deformed, or missing.
- b. Repair is by replacement of authorized parts (app C).

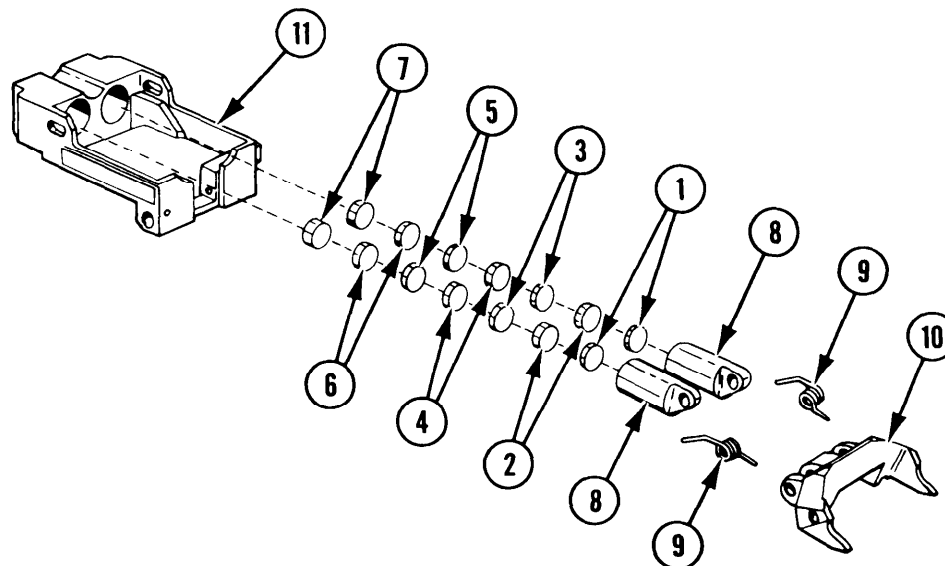
#### REASSEMBLY

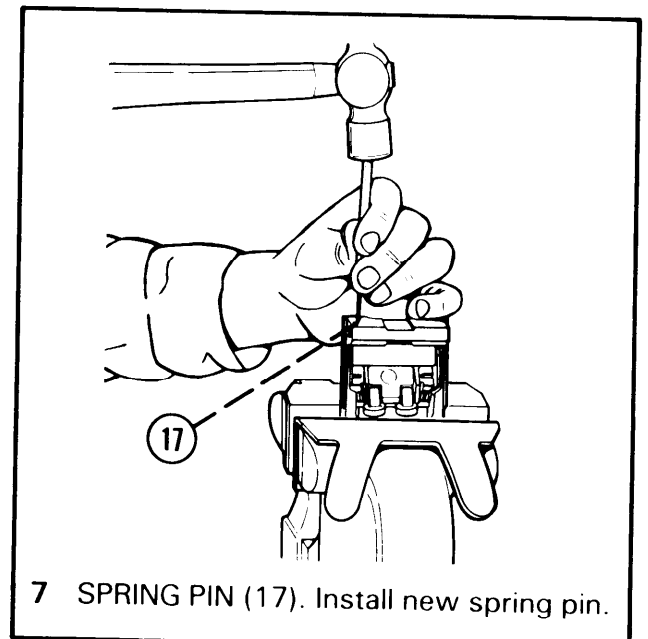
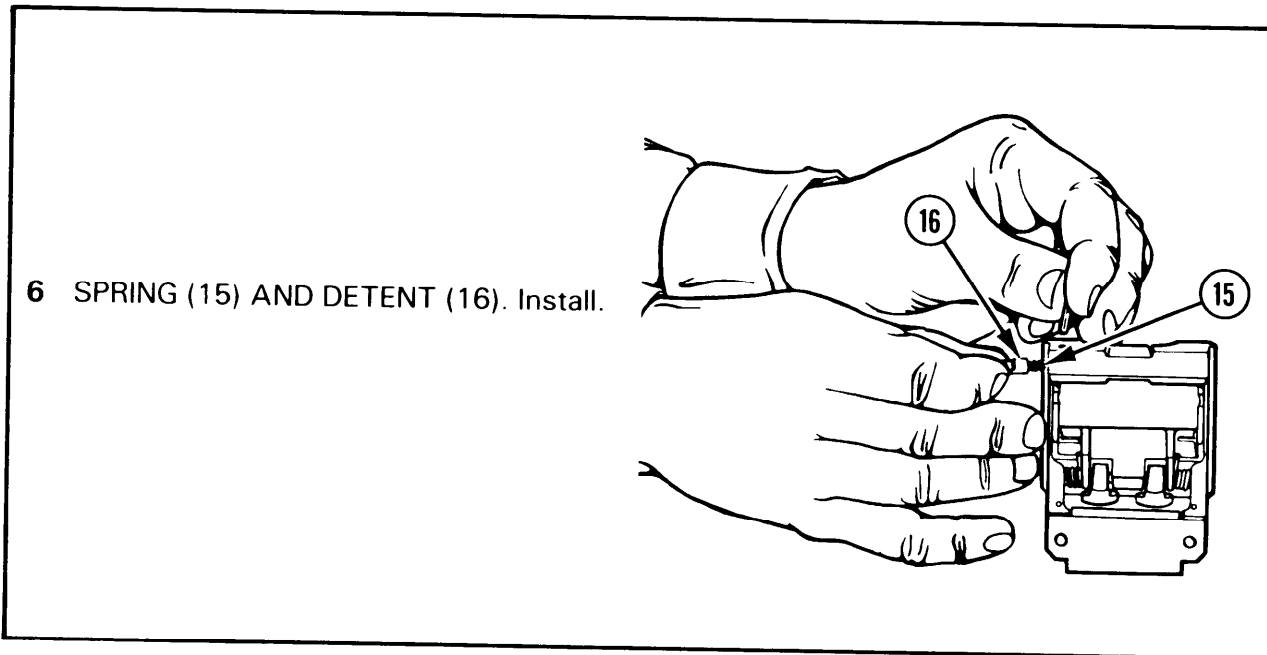
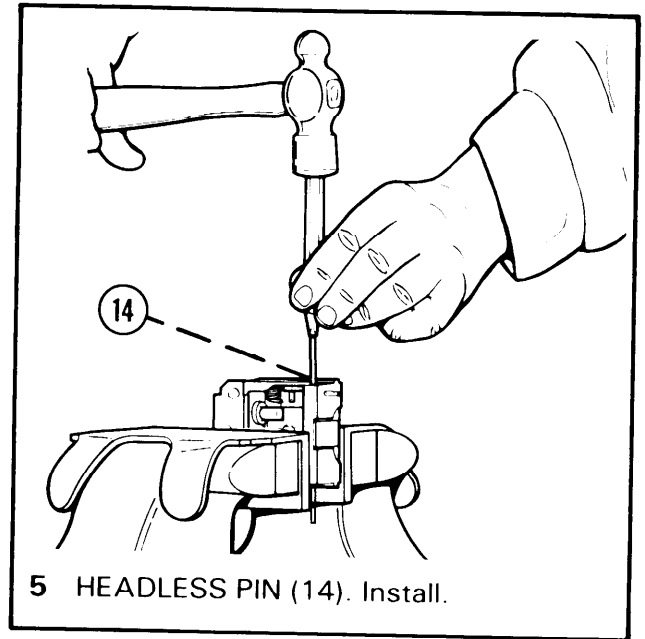
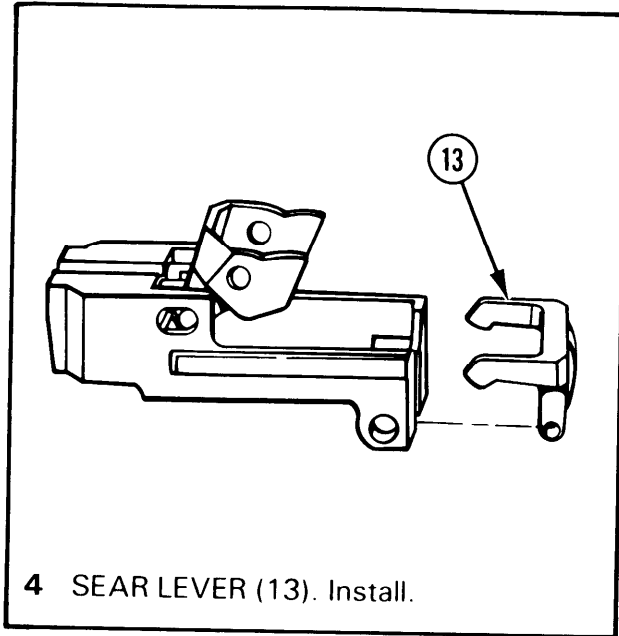
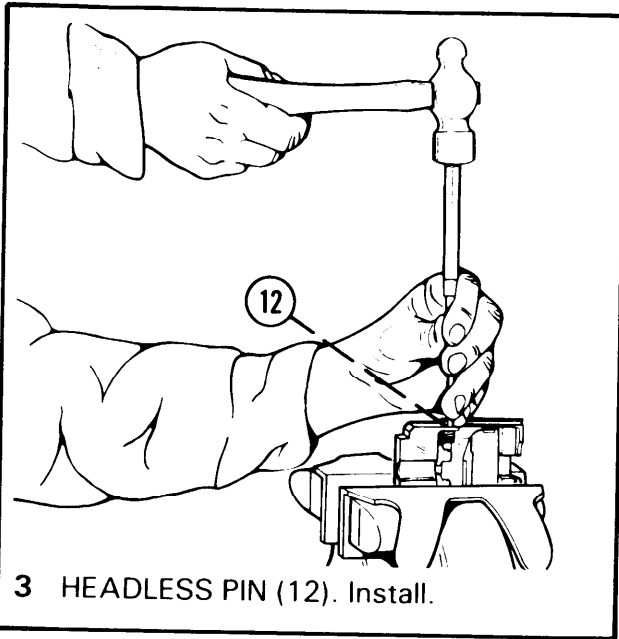
##### WARNING

Disks must be installed in correct order. Sear could be damaged and cause a runaway gun. Failure to comply with this warning could result in severe damage to equipment and injury to personnel.

FOUR PLAIN DISKS (1 AND 2), TWO BUFFER DISKS (3), TWO PLAIN DISKS (4), TWO BUFFER DISKS (5), TWO PLAIN DISKS (6), AND TWO BUFFER DISKS (7). Install in buffer housings (8).

TWO BUFFER HOUSINGS (8), TWO TORSION SPRINGS (9), AND BOLT SEAR (10). Install in sear block (11).





### 3-10. FEED AND EJECTOR ASSEMBLY - MAINTENANCE INSTRUCTIONS.

#### THIS TASK COVERS:

- |                |                       |
|----------------|-----------------------|
| a. Removal     | e. Repair/replacement |
| b. Disassembly | f. Reassembly         |
| c. Cleaning    | g. Installation       |
| d. Inspection  |                       |

#### INITIAL SETUP

##### Tools and Special Tools

Field maintenance, basic less power, small arms shop set  
(app B)

##### References

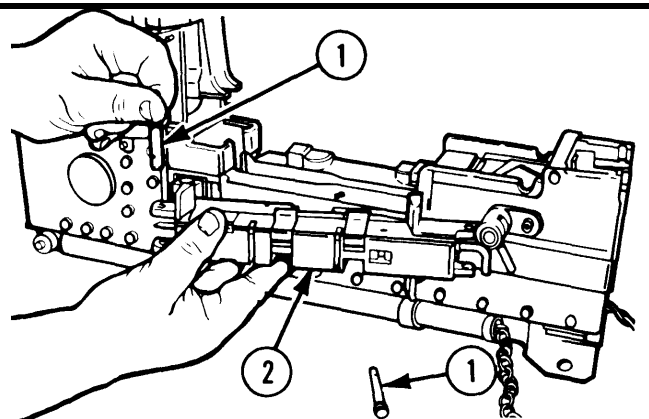
Appendix B  
Appendix C  
Appendix D

##### Materials/Parts

CLP (item 5, app D)  
Inspection penetrant kit (item 10, app E)  
Spring pin (MS39086-59)  
Wiping rag (item 14, app D)

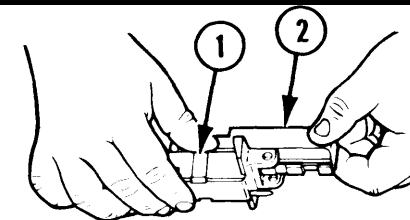
#### REMOVAL

- 1 TWO QUICK RELEASE PINS (1). Remove.
- 2 FEED AND EJECTOR ASSEMBLY (2). Remove.



#### DISASSEMBLY

- 1 RETAINER (1).
  - a. Press and remove actuator (2).
  - b. Remove retainer (1).

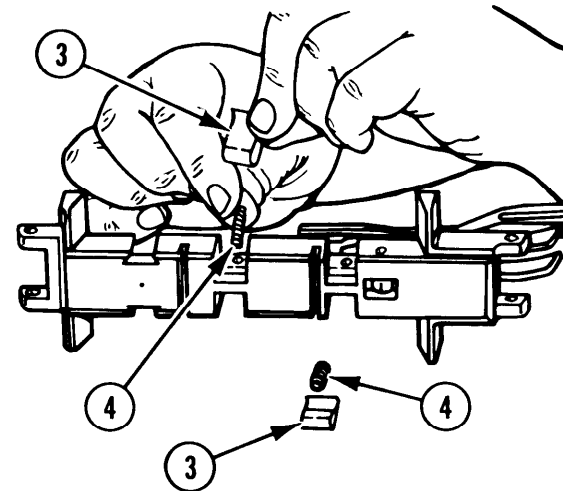
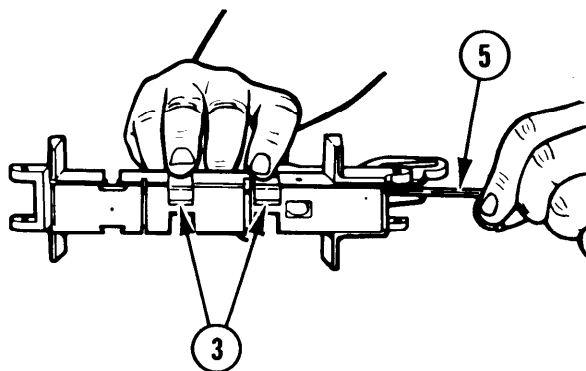


- 2 TWO BELT RETAINING PAWLS (3).  
Press.

**NOTE**

Be careful not to lose the two  
springs (4) when removing  
retaining pin (5).

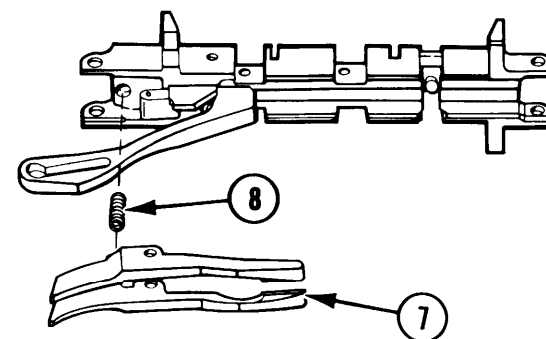
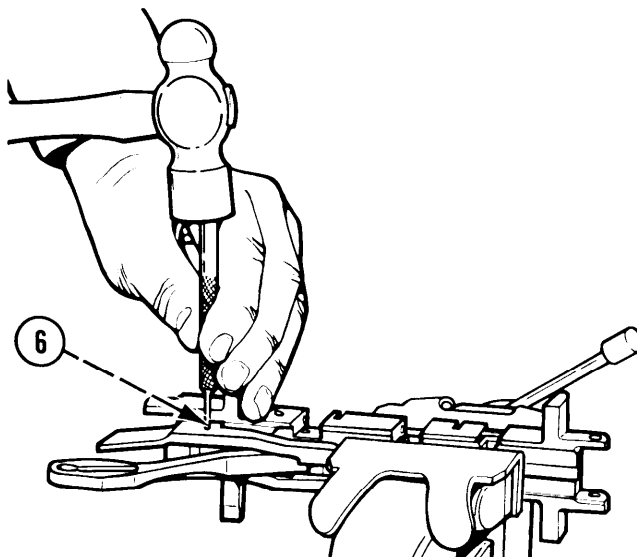
- 3 RETAINING PIN (5). Remove.  
4 TWO BELT RETAINING PAWLS (3)  
AND TWO SPRINGS (4). Remove.



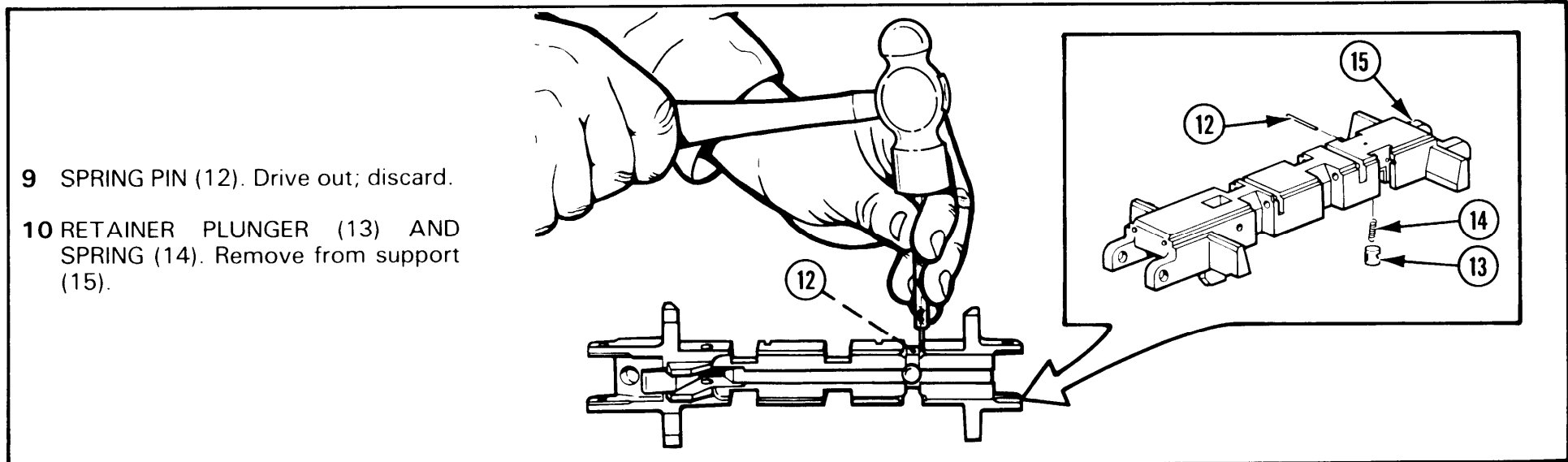
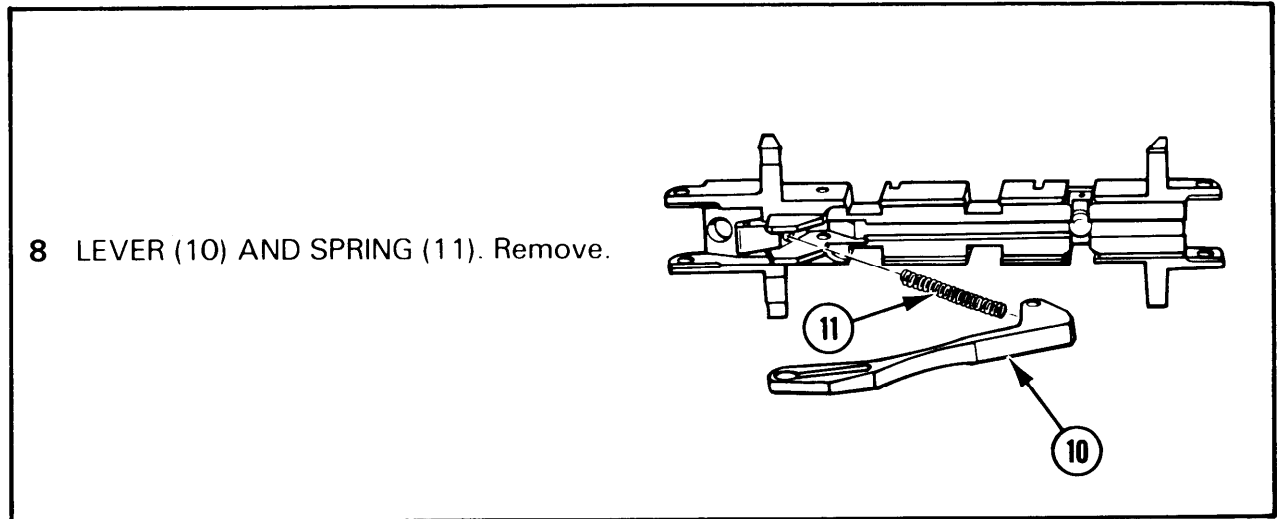
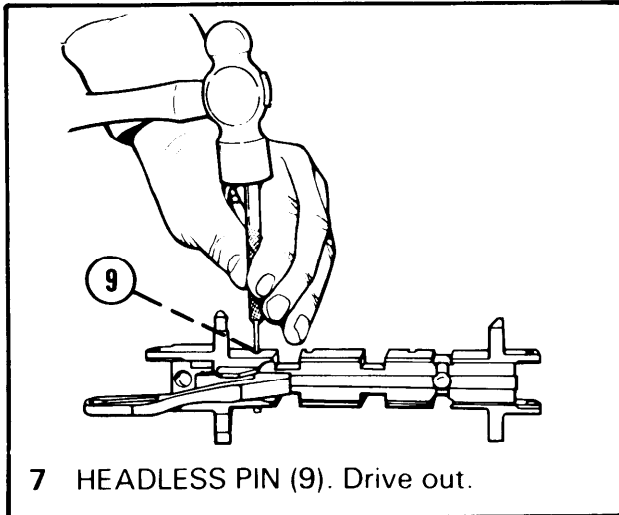
**WARNING**

Use care when driving out head-  
less pin. Spring is under ten-  
sion.

- 5 HEADLESS PIN (6). Drive out.



- 6 EJECTOR (7) AND SPRING (8).  
Remove.

**3-10. FEED AND EJECTOR ASSEMBLY-MAINTENANCE INSTRUCTIONS. (cont)**
**DISASSEMBLY (cont)**




## CLEANING

Clean all metal parts except actuator with CLP (item 5, app D), and dry with wiping rag (item 14, app D). Clean actuator with wiping rag.

## INSPECTION

### FEED AND EJECTOR ASSEMBLY.

- a. Check for rust, burrs, corrosion, and distorted springs.
- b. Use inspection penetrant kit (item 10, app D) to check for cracks.

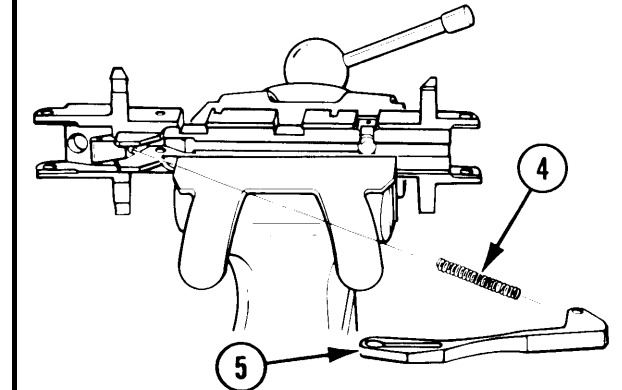
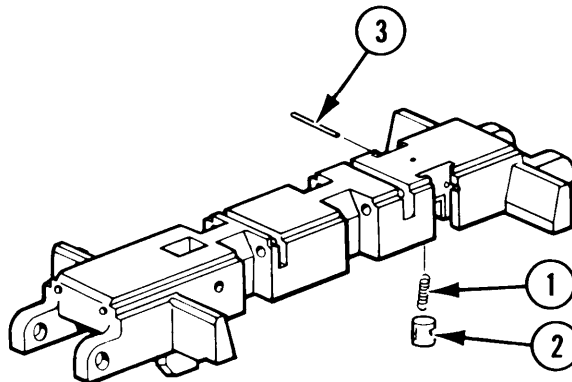
## REPAIR/REPLACEMENT

### FEED AND EJECTOR ASSEMBLY.

- a. Replace all parts that are cracked, deformed, or missing.
- b. Repair is by replacement of authorized parts (app C).

## REASSEMBLY

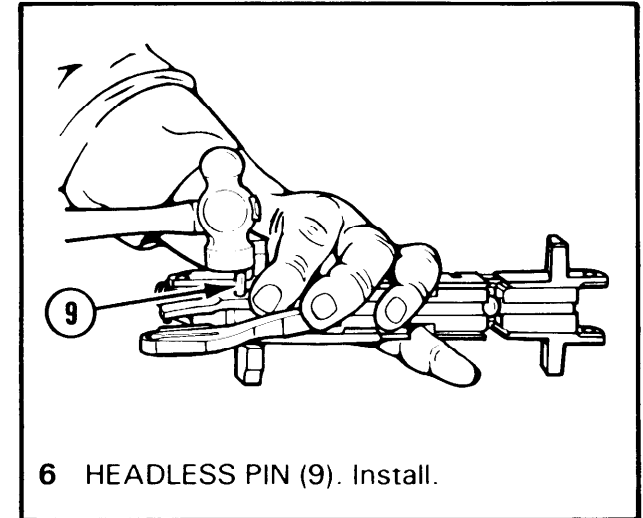
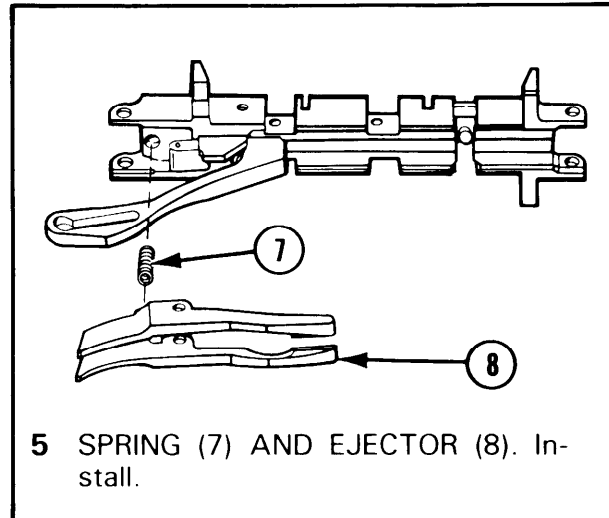
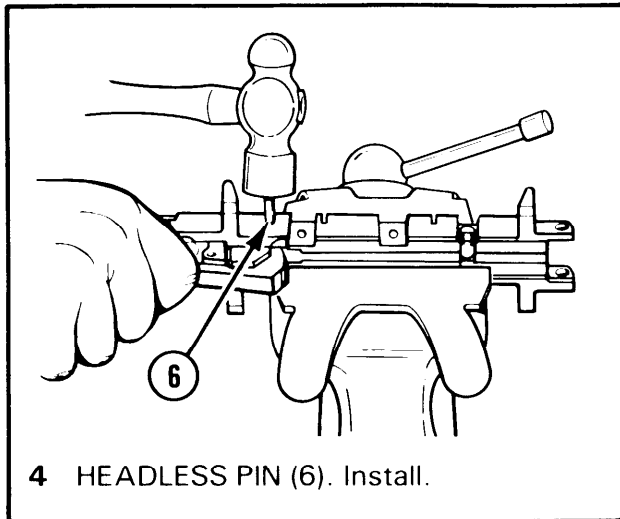
- 1 SPRING (1) AND RETAINER PLUNGER (2). Install.
- 2 SPRING PIN (3). Install new spring pin.



- 3 SPRING (4) AND LEVER (5). Install and aline.

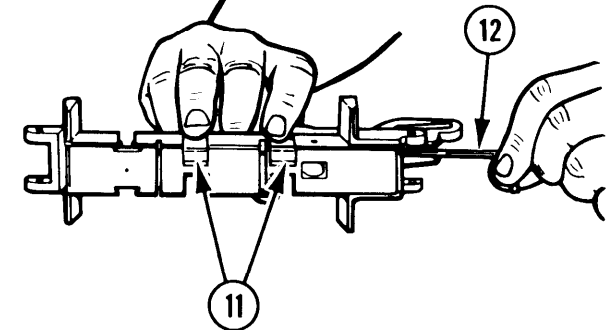
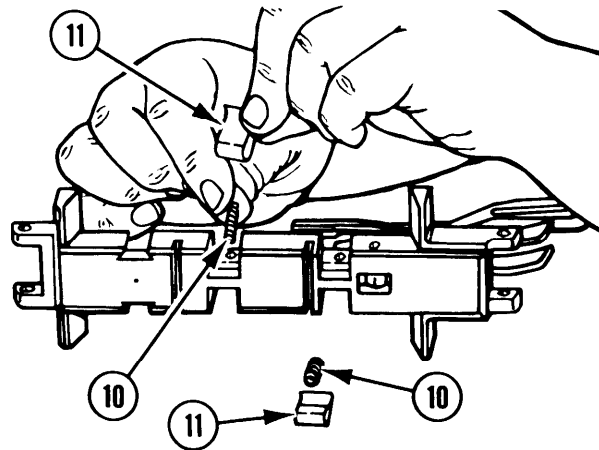
### 3-10. FEED AND EJECTOR ASSEMBLY-MAINTENANCE INSTRUCTIONS. (cont)

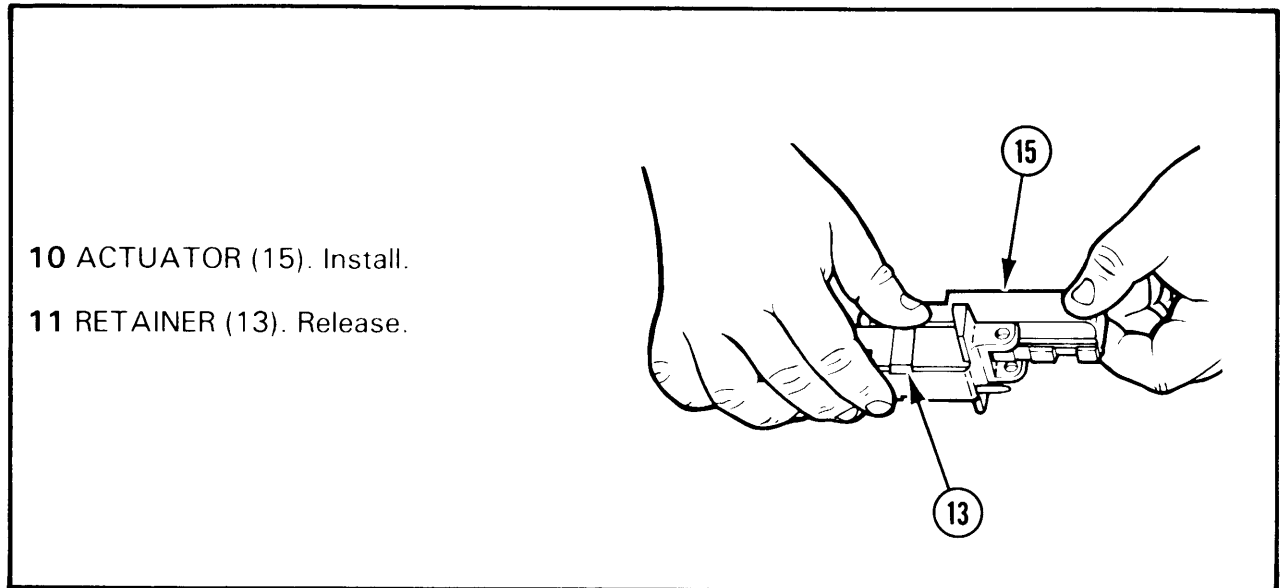
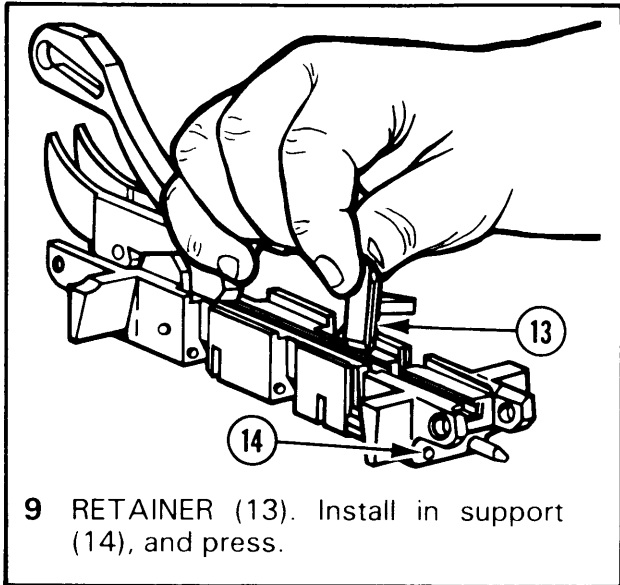
#### REASSEMBLY (cont)



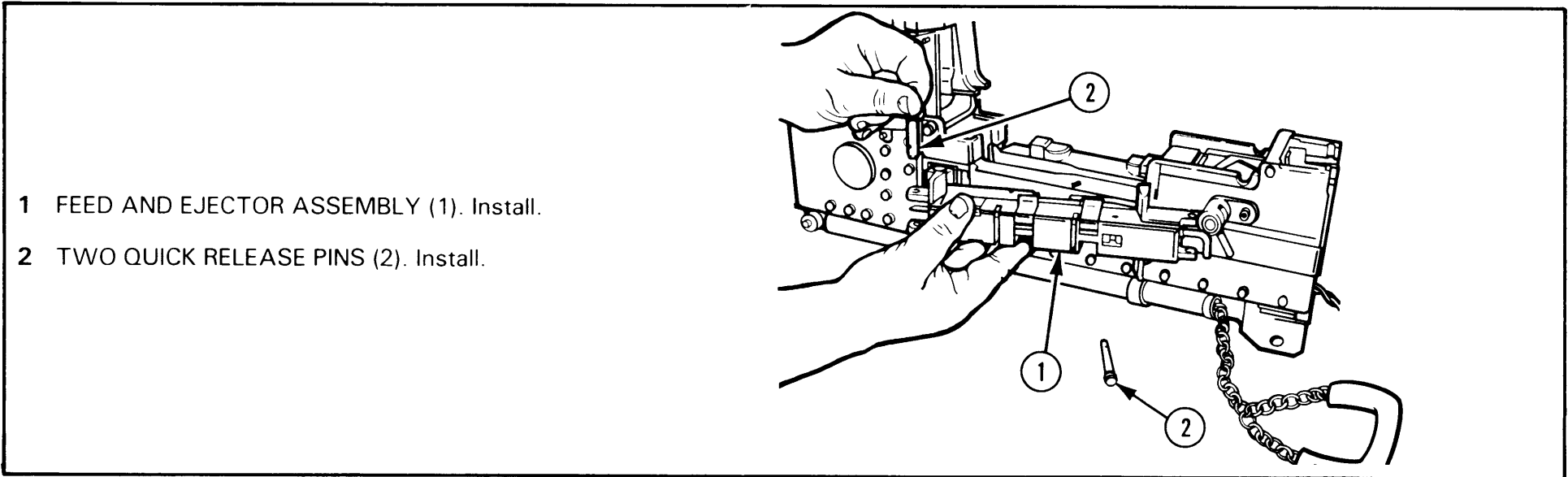
7 TWO SPRINGS (10) AND TWO BELT RETAINING PAWLS (11). Install and press.

8 RETAINING PIN (12). Install.





**INSTALLATION**



### 3-11. ACTUATOR-MAINTENANCE INSTRUCTIONS.

#### THIS TASK COVERS:

- |                         |                       |
|-------------------------|-----------------------|
| a. Removal              | d. Repair/replacement |
| b. Disassembly          | e. Reassembly         |
| c. Cleaning/lubrication | f. Installation       |

#### INITIAL SETUP

##### Tools and Special Tools

Field maintenance, basic less power, small arms shop set (app B)  
Field maintenance, post, camp, and station, set D, small arms shop sets (app B)

##### Materials/Parts

CLP (item 5, app D)  
Spring pin (MS39086-206)  
Wiping rag (item 14, app D)

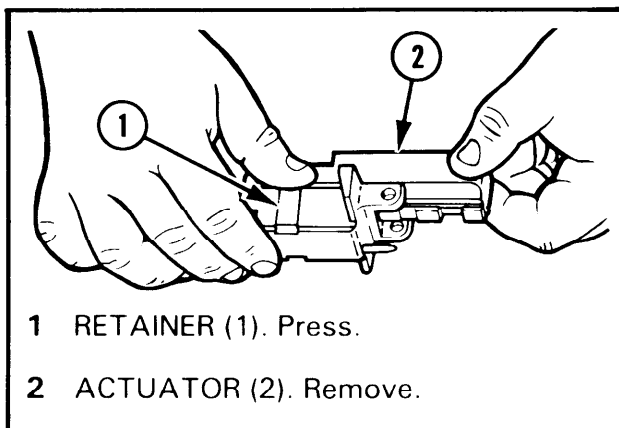
##### References

Appendix B  
Appendix C  
Appendix D  
TM 9-1005-231-10

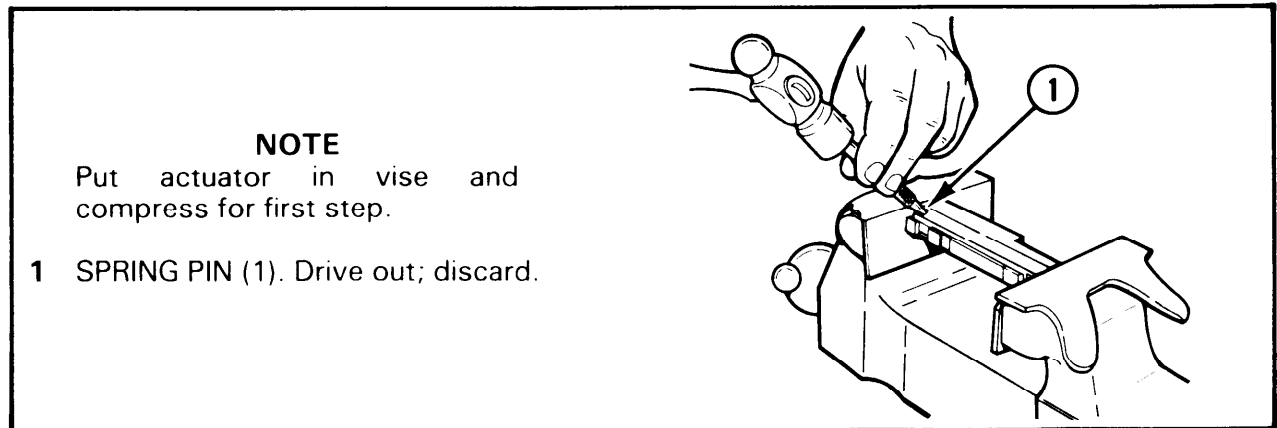
##### Equipment Conditions

3-34 Feed and ejector assembly removed

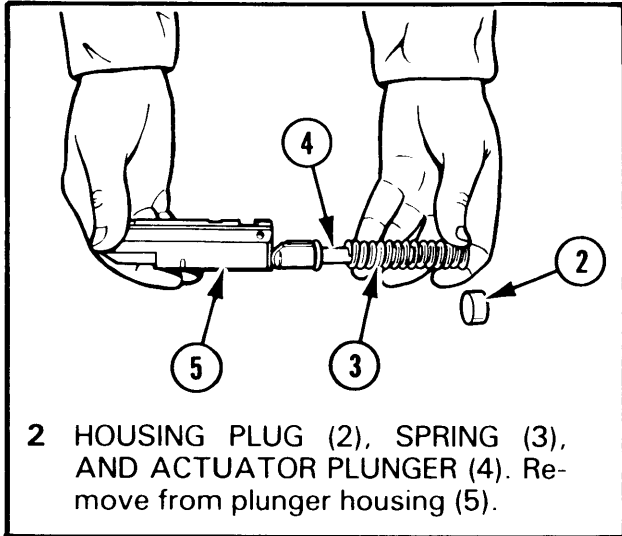
#### REMOVAL



#### DISASSEMBLY



### CLEANING/LUBRICATION

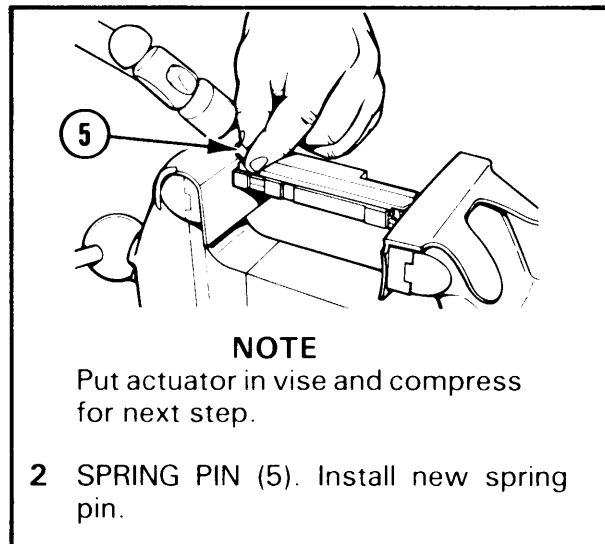
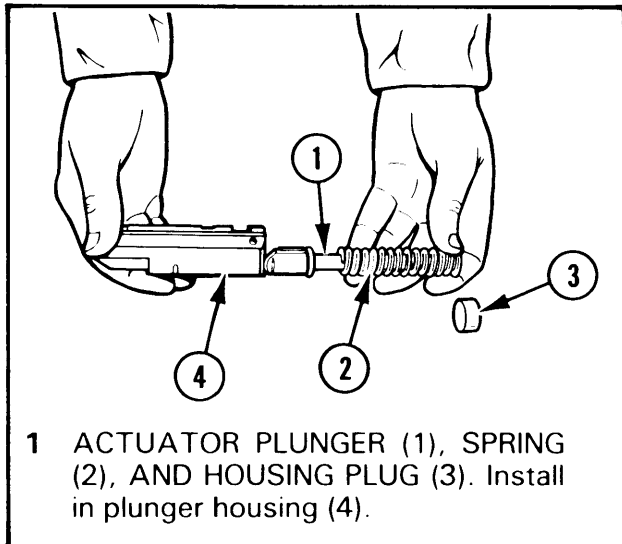


Clean metal parts with CLP (item 5, app D) and dry with wiping rag (item 14, app D). Lubricate as required (TM 9-1005-231-10).

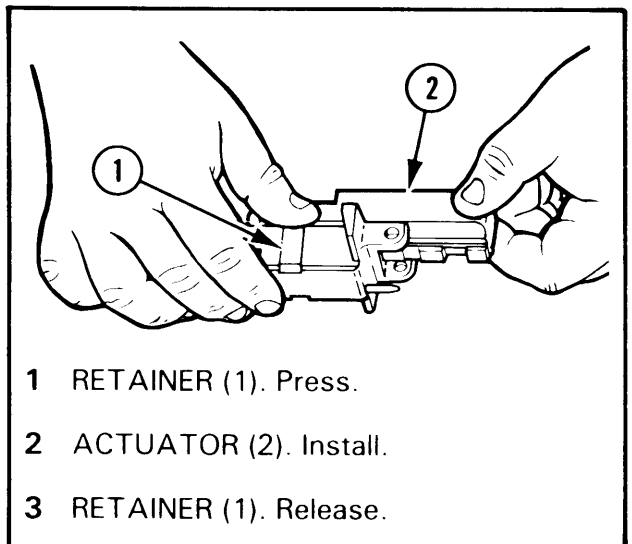
### REPAIR/REPLACEMENT

Repair is by replacement of authorized parts (app C) as needed. Replace actuator if repair procedures do not correct maintenance problem.

### REASSEMBLY



### INSTALLATION



### 3-12. BOLT ASSEMBLY-MAINTENANCE INSTRUCTIONS.

#### THIS TASK COVERS:

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>a. Disassembly</li> <li>b. Cleaning/lubrication</li> <li>c. Inspection</li> </ul> | <ul style="list-style-type: none"> <li>d. Repair/replacement</li> <li>e. Reassembly</li> </ul> |
|--|--|

#### INITIAL SETUP

##### Tools and Special Tools

Field maintenance, basic less lower, small arms shop set  
(app B)

##### Materials/Parts

CLP (item 5, app D)  
Inspection penetrant kit (item 10 app D)  
Wiping rag (item 14, app D)

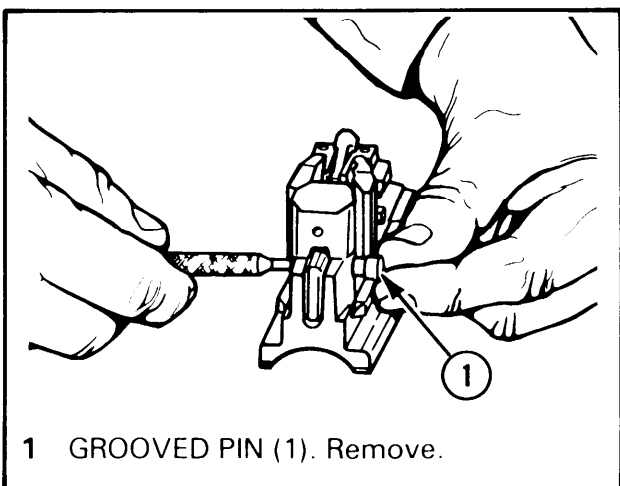
##### References

Appendix B  
Appendix C  
Appendix D  
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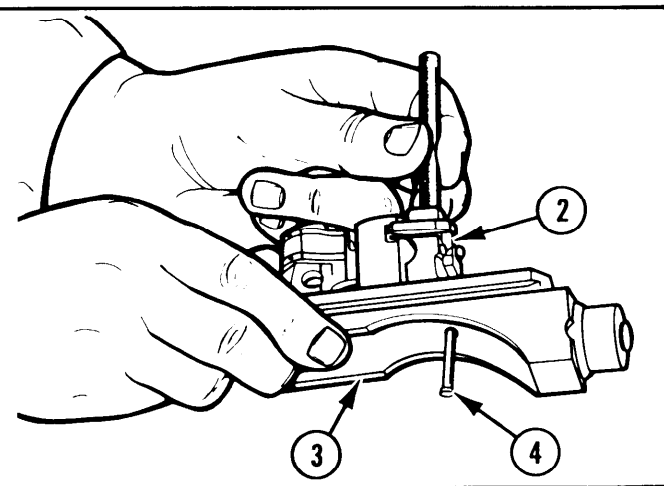
##### Equipment Conditions

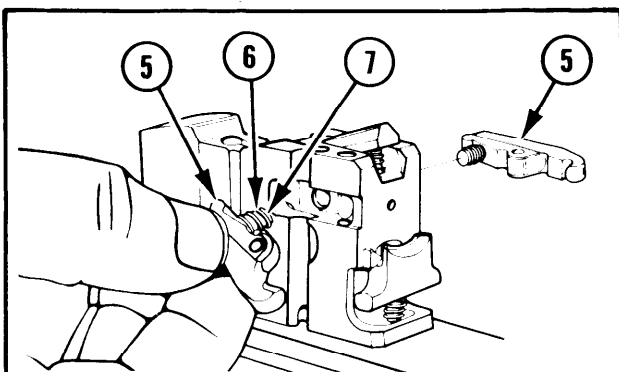
2-39 Bolt assembly removed  
2-43 Cover assembly removed

#### DISASSEMBLY



- 2 BOLT BLOCK (2). Position over holes in bolt slide (3).
- 3 TWO STRAIGHT PINS (4). Remove.

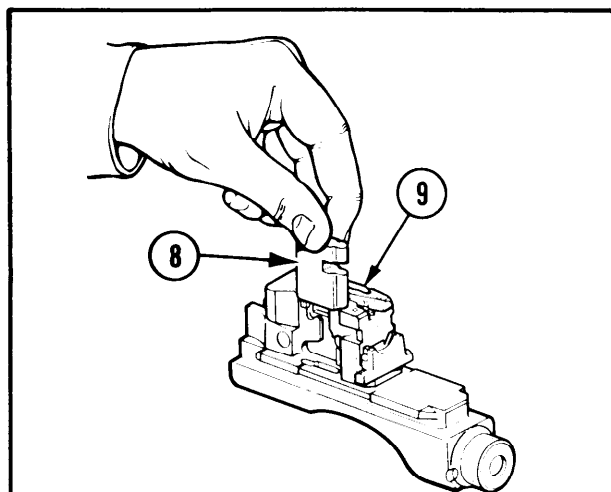




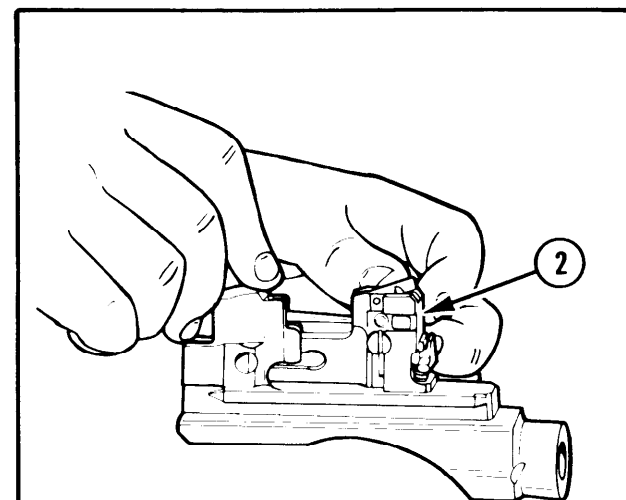
**WARNING**

Springs are compressed and may fly out when removing.

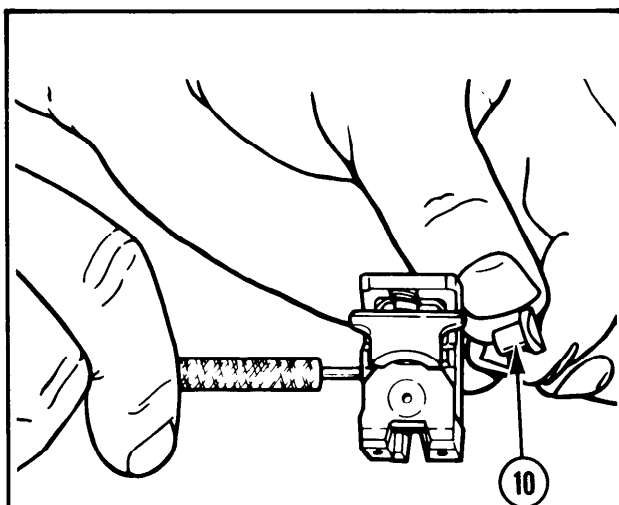
- 4 TWO CARTRIDGE RETAINERS (5), TWO SPRINGS (6), AND TWO SPRING INSERTS (7). Remove.



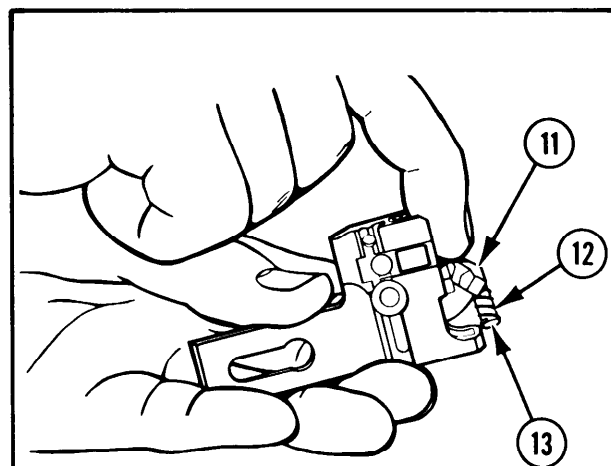
- 5 RH BOLT LOCK (8) AND LH BOLT LOCK (9). Lift out.



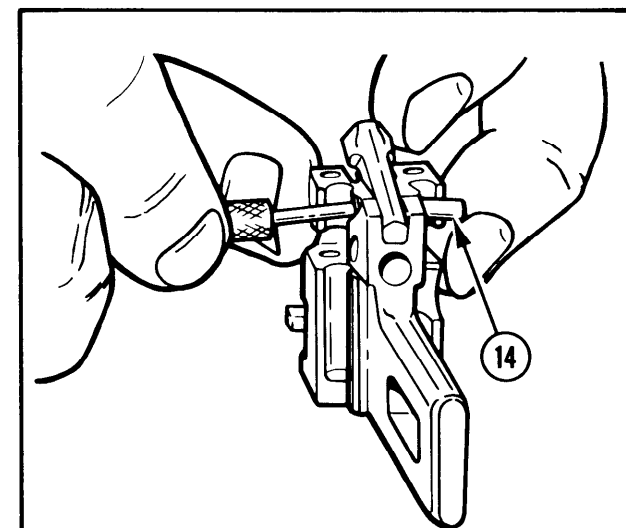
- 6 BOLT BLOCK (2). Remove.



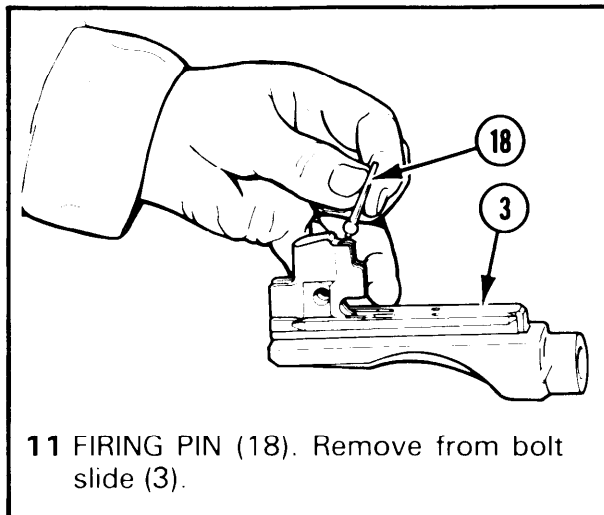
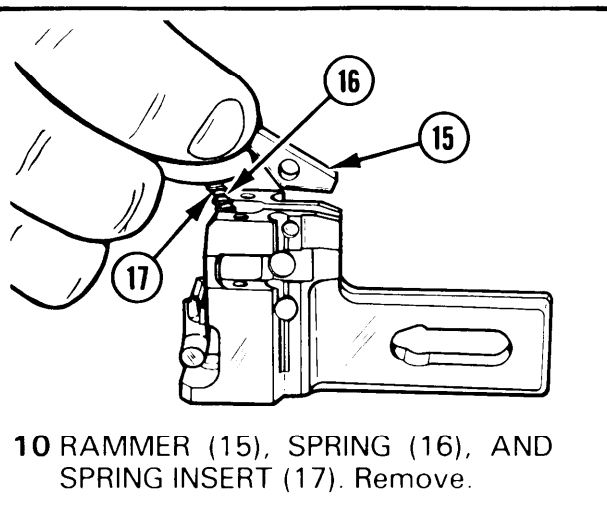
- 7 STRAIGHT PIN (10). Push out.



- 8 EXTRACTOR (11), SPRING (12), AND SPRING INSERT (13). Remove.



- 9 HEADLESS PIN (14). Punch out.

**3-12. BOLT ASSEMBLY-MAINTENANCE INSTRUCTIONS. (cont)****DISASSEMBLY (cont)****INSPECTION****BOLT ASSEMBLY.**

- a. Check for rust, corrosion, wear, and burrs.
- b. Use inspection penetrant kit (item 10, app D) to check for cracks.
- c. Replace bolt block if any part of the bolt lock cam (pivoting portion) can be inserted from the side into any part of the bolt block recess.
- d. Use a new bolt block when checking wear of the bolt block recess.

**CLEANING/LUBRICATION****NOTE**

Do not use lubricants or cleaners on spring inserts.

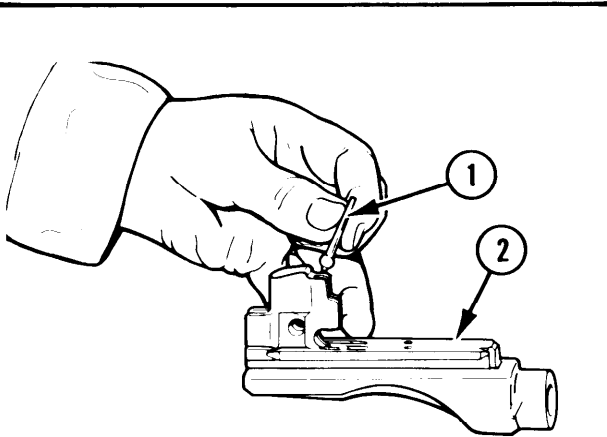
Clean metal parts with CLP (item 5, app D) and dry with wiping rag (item 14, app D). Lubricate as required (TM 9-1005-231-10).

**REPAIR/REPLACEMENT****BOLT ASSEMBLY.**

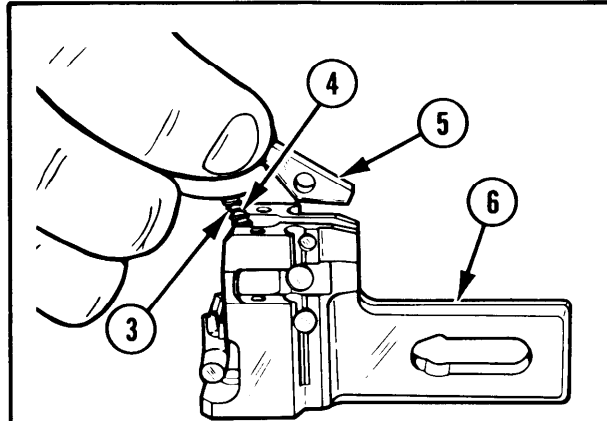
- a. Replace all parts that are cracked, deformed, or missing.
- b. Repair is by replacement of authorized parts (app C).



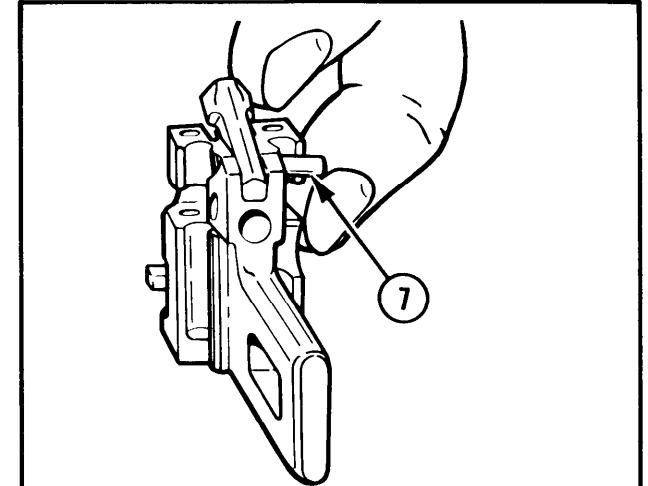
## REASSEMBLY



1 FIRING PIN (1). Install in bolt slide (2).



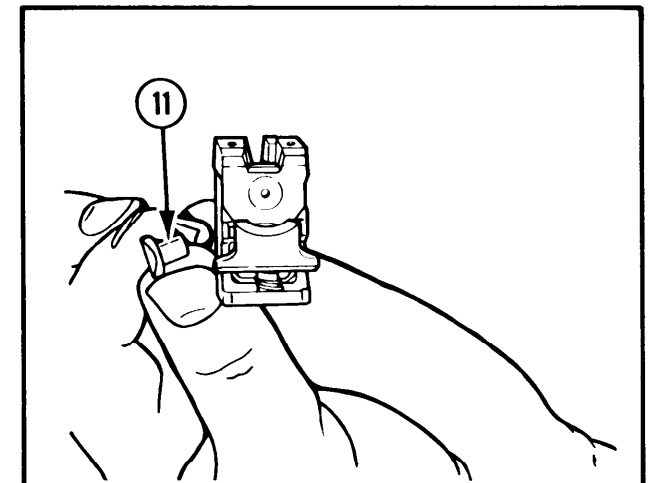
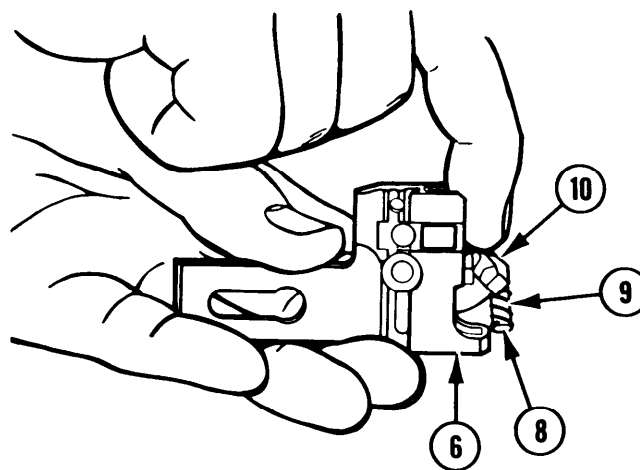
2 SPRING INSERT (3), SPRING (4), AND RAMMER (5). Position on bolt block (6).



3 HEADLESS PIN (7). Install.

4 SPRING INSERT (8) AND SPRING (9). Install in extractor (10).

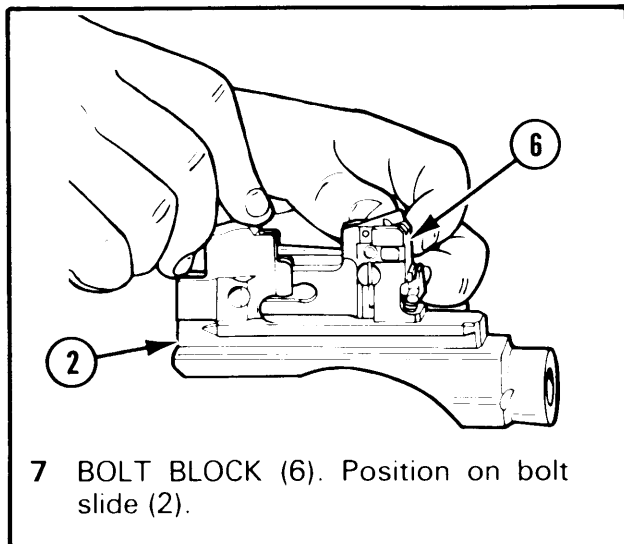
5 EXTRACTOR (10). Install in bolt block (6).



6 STRAIGHT PIN (11). Install.

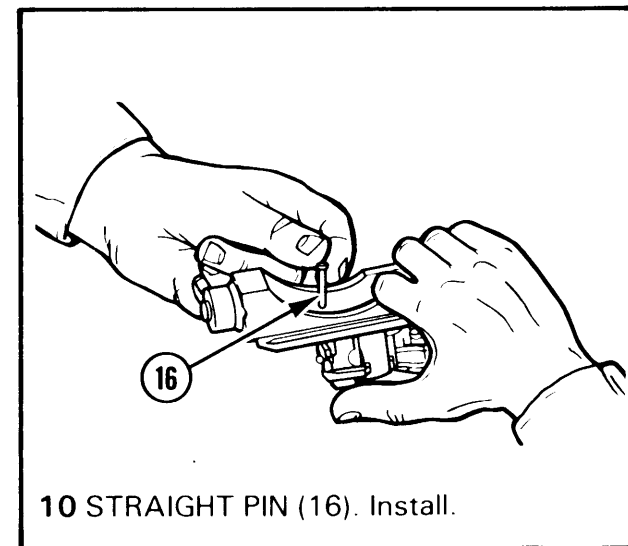
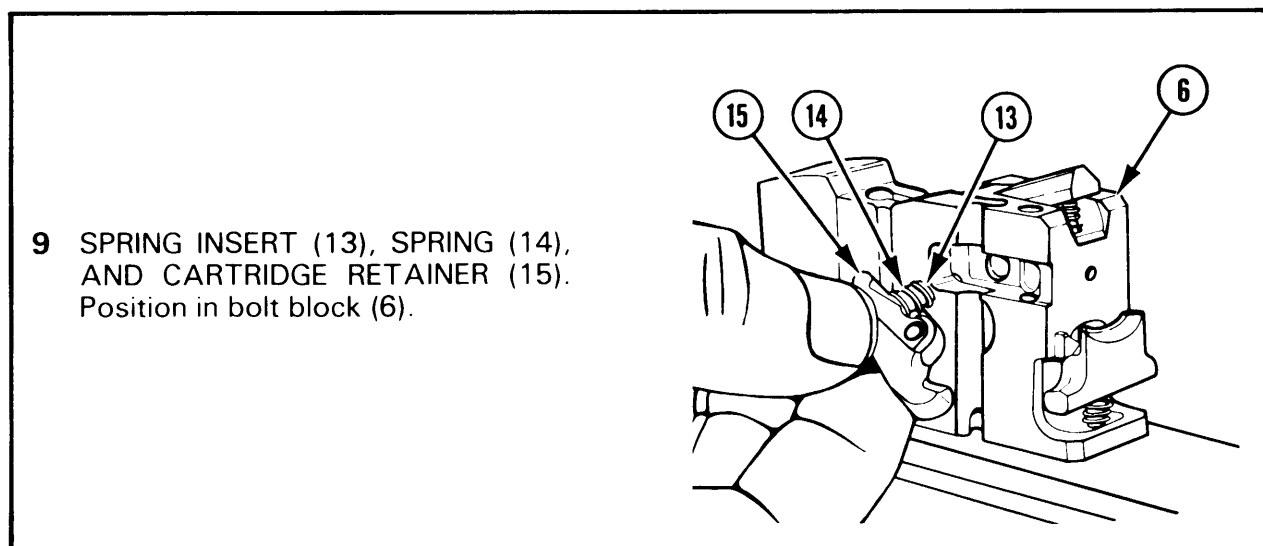
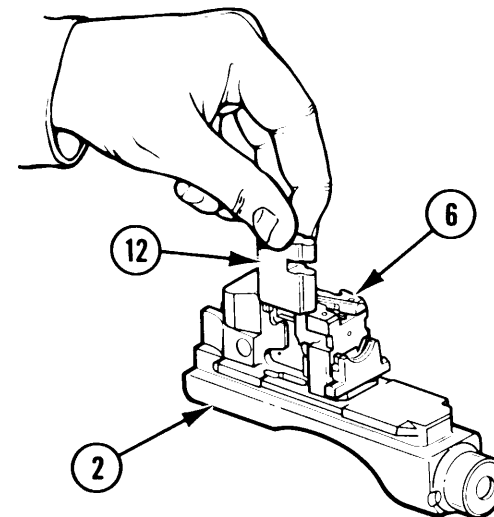
### 3-12. BOLT ASSEMBLY-MAINTENANCE INSTRUCTIONS. (cont)

#### REASSEMBLY (cont)



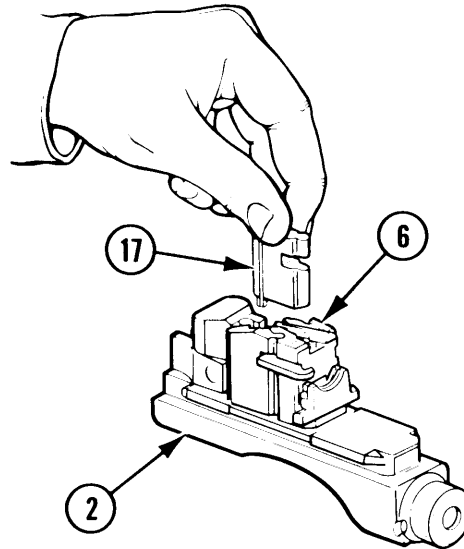
#### 8 RH BOLT LOCK (12).

- a. Position in top recesses of bolt block (6).
- b. Push through bolt block (6) and into bolt slide (2).

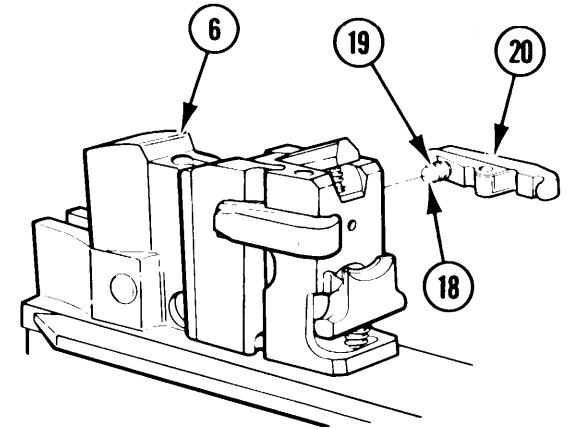


**11 LH BOLT LOCK (17). Install.**

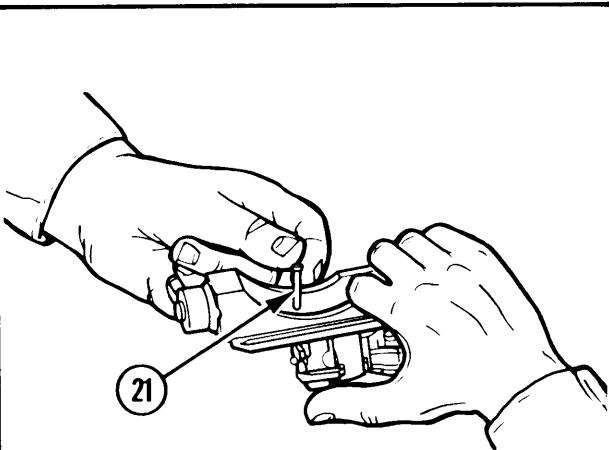
- a. Position in top recesses of bolt block (6).
- b. Push through bolt block (6) and into bolt slide (2).



**12 SPRING INSERT (18), SPRING (19), AND CARTRIDGE RETAINER (20). Position in bolt block (6).**

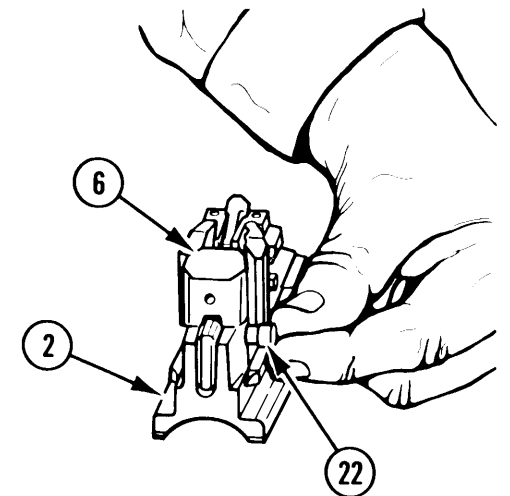


**13 STRAIGHT PIN (21). Install.**



**14 BOLT BLOCK (6). Aline hole in bolt block with hole in bolt slide (2).**

**15 GROOVED PIN (22). Install.**



### 3-13. BARREL EXTENSION ASSEMBLY-MAINTENANCE INSTRUCTIONS.

#### THIS TASK COVERS:

- |                |                                       |
|----------------|---------------------------------------|
| a. Inspection  | d. Repair/replacement                 |
| b. Disassembly | e. Reassembly                         |
| c. Lubrication | f. Final inspection and function test |

#### INITIAL SETUP

##### Tools and Special Tools

Field maintenance, basic less power, small arms shop set (app B)

##### Equipment Conditions

2-39 Barrel extension assembly removed

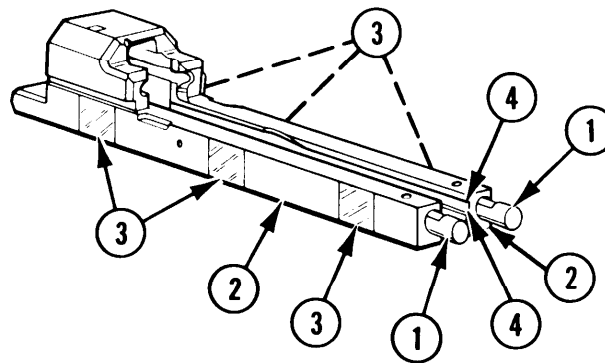
##### References

Appendix B  
Appendix C  
2-1 Table 2-1  
TM 9-1005-231-10

#### INSPECTION

##### BARREL EXTENSION ASSEMBLY.

- Check spring pressure of return rods (1).
- Check rails (2) for burrs and corrosion.
- Check wear pads (3) for peeling, flaking, or wearing through of chrome plate.
- Check extractor camming surfaces of inner rails (4).



#### DISASSEMBLY

##### WARNING

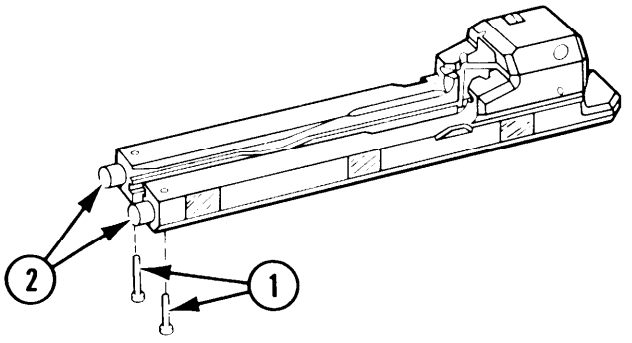
Return rods are under spring pressure. Release pressure slowly after removing retaining straight pins.

**LUBRICATION**

Lubricate as required (TM 9-1005-231-10).

**1** TWO RETAINING STRAIGHT PINS (1). Remove by applying pressure on return rods (2).

**2** TWO RETURN RODS (2). Remove.



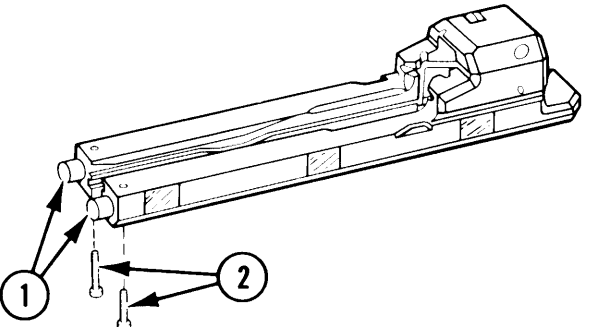
The diagram shows a side view of a barrel extension assembly. Two callouts, labeled '1' and '2', point to specific components. Callout '1' points to two retaining straight pins that are inserted into the assembly. Callout '2' points to two return rods that are attached to the bottom of the assembly.

**REPAIR/REPLACEMENT**

**BARREL EXTENSION ASSEMBLY.**

- a. Replace all parts that are cracked, deformed, or missing.
- b. Repair is by replacement of authorized parts (app C).

**REASSEMBLY**



**1** TWO RETURN RODS (1). Install.

**2** TWO RETAINING STRAIGHT PINS (2). Install.

The diagram shows a side view of a barrel extension assembly, similar to the one in the first diagram. Two callouts, labeled '1' and '2', point to the components to be installed. Callout '1' points to two return rods, and callout '2' points to two retaining straight pins.

**FINAL INSPECTION AND FUNCTION TEST**

Function test weapon by use of DUMMY cartridges (table 2-1, p 2-1).

### 3-14. RETURN RODS-MAINTENANCE INSTRUCTIONS

#### THIS TASK COVERS:

- |                |                       |
|----------------|-----------------------|
| a. Disassembly | c. Repair/replacement |
| b. Inspection  | d. Reassembly         |

#### INITIAL SETUP

##### Tools and Special Tools

Field maintenance, basic lesspower,small arms shop set (app B)

##### Equipment Conditions

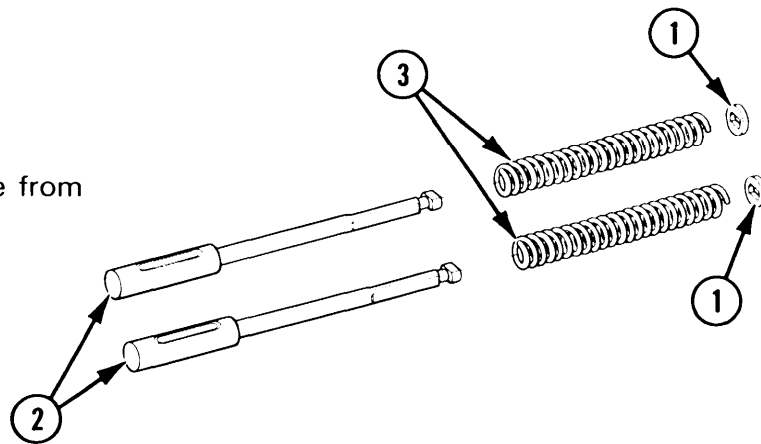
3-48 Return rods removed

##### References

Appendix B  
Appendix C

#### DISASSEMBLY

- 1 TWO WASHERS (1). Remove from two guide rods (2).
- 2 TWO SPRINGS (3). Remove.



#### INSPECTION

##### RETURN RODS.

- a. Check springs for flat surfaces.
- b. Check guide rods for bends and burrs.
- c. Check washers for excessive wear.

## REPAIR/REPLACEMENT

Repair is by replacement of authorized parts (app C) as needed.

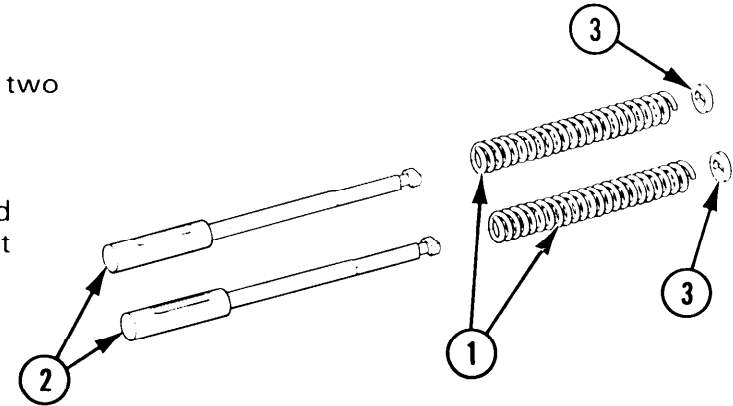
## REASSEMBLY

TWO SPRINGS (1). Install on two guide rods (2).

### CAUTION

Make sure washers are turned to locked position to prevent damage to equipment.

TWO WASHERS (3). Install.



## 3-15. BARREL EXTENSION SUBASSEMBLY-MAINTENANCE INSTRUCTIONS.

### THIS TASK COVERS:

- a. Disassembly
- b. Cleaning/lubrication
- c. Repair/replacement
- d. **Reassembly**

### INITIAL SETUP

#### Tools and Special Tools

Field maintenance, basic less power, small arms shop set (app B)

#### Materials/Parts

CLP (item 5, app D)  
Spring pin (MS39086-210)  
Wiping rag (item 14, app D)

#### References

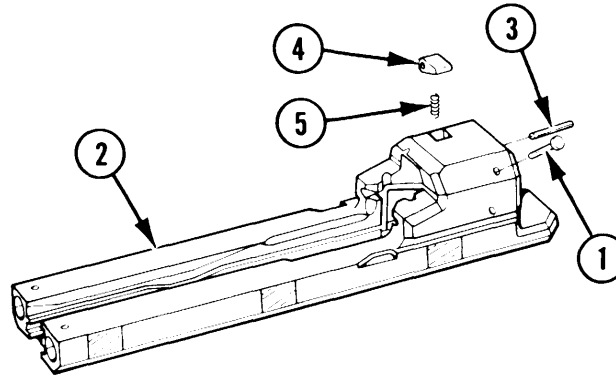
Appendix B  
Appendix C  
Appendix D  
TM 9-1005-231-10

#### Equipment Conditions

2-39 Barrel extension assembly removed  
3-49 Return rods removed

**3-15. BARREL EXTENSION SUBASSEMBLY-MAINTENANCE INSTRUCTIONS. (cont)****DISASSEMBLY**

- 1 STRAIGHT PIN (1). Remove from barrel extension (2) only if damaged.
- 2 SPRING PIN (3). Remove and discard.
- 3 INTERLOCK (4) AND SPRING (5). Remove.

**CLEANING/LUBRICATION**

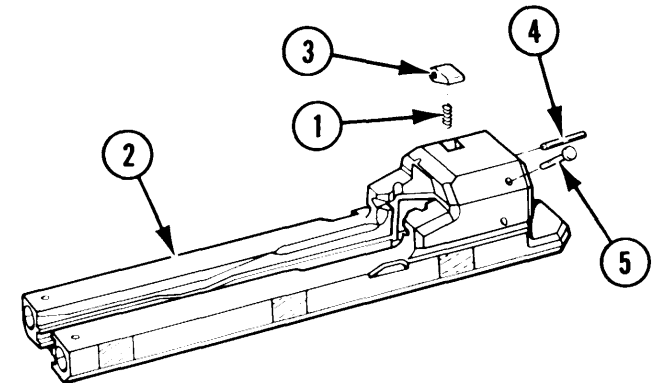
Clean metal parts with CLP (item 5, app D) and dry with wiping rag (item 14, app D). Lubricate as required (TM 9-1005-231-10).

**REPAIR/REPLACEMENT****BARREL EXTENSION SUBASSEMBLY.**

- a. Repair is by replacement of authorized parts (app C) as needed.
- b. Replace barrel extension subassembly if repair procedures do not correct maintenance problem.

**REASSEMBLY**

- 1 SPRING (1). Install in barrel extension (2).
- 2 INTERLOCK (3). Install.
- 3 SPRING PIN (4). Install new spring pin.
- 4 STRAIGHT PIN (5). Install if replaced.





### 3-16. COVER ASSEMBLY-MAINTENANCE INSTRUCTIONS.

#### THIS TASK COVERS:

- a. Inspection
- b. Disassembly
- c. Repair/replacement
- d. Reassembly

#### INITIAL SETUP

##### Tools and Special Tools

Field maintenance, basic less power, small arms shop set (app B)  
Field maintenance, post, camp, and station, set D, small arms shop sets (app B)

##### Equipment Conditions

2-43 Cover assembly removed

##### References

Appendix B  
Appendix C

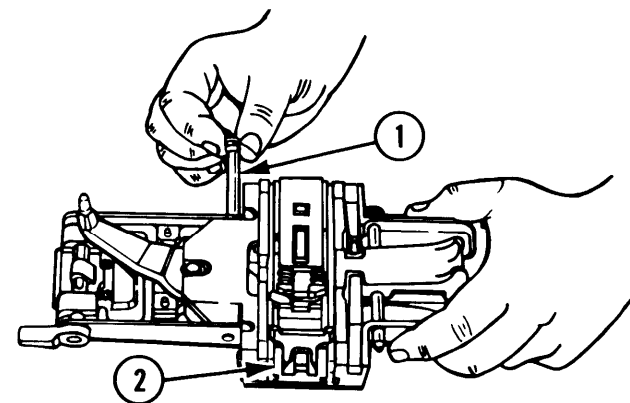
#### INSPECTION

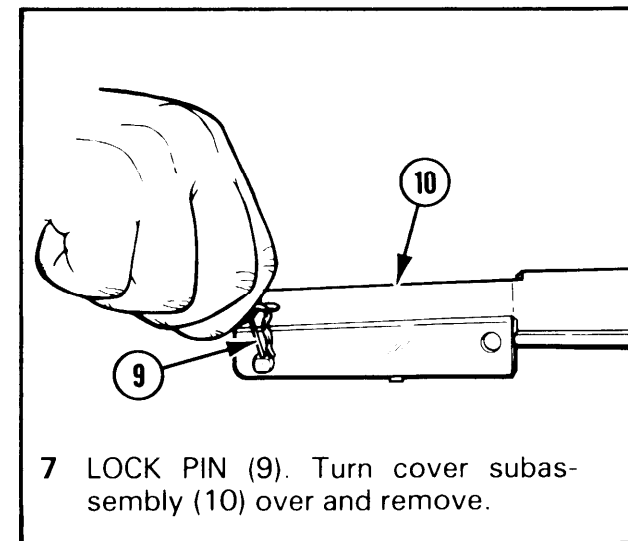
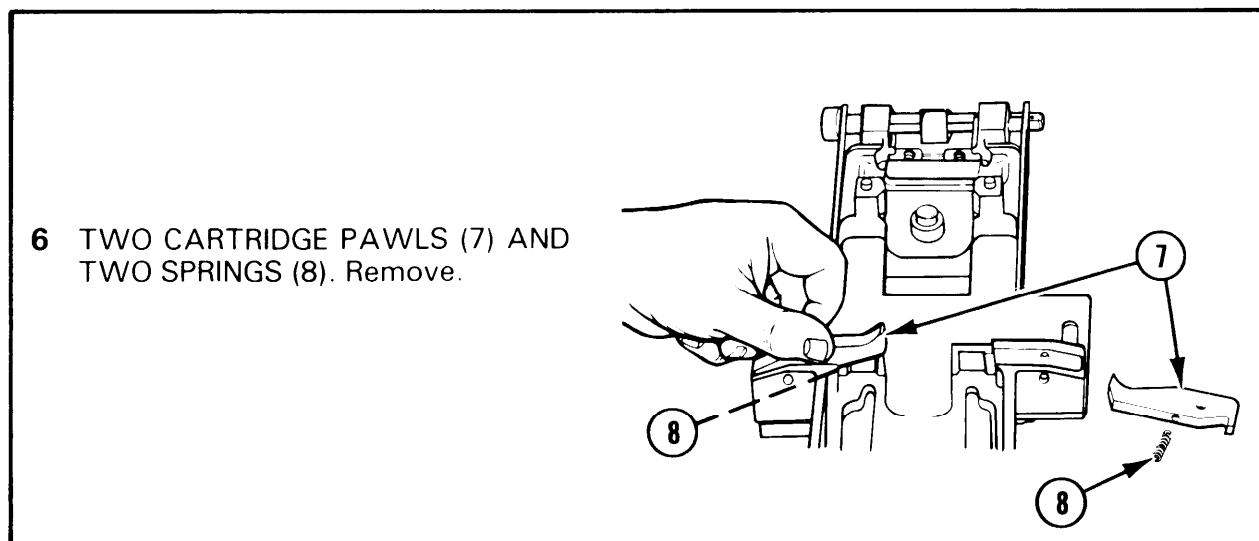
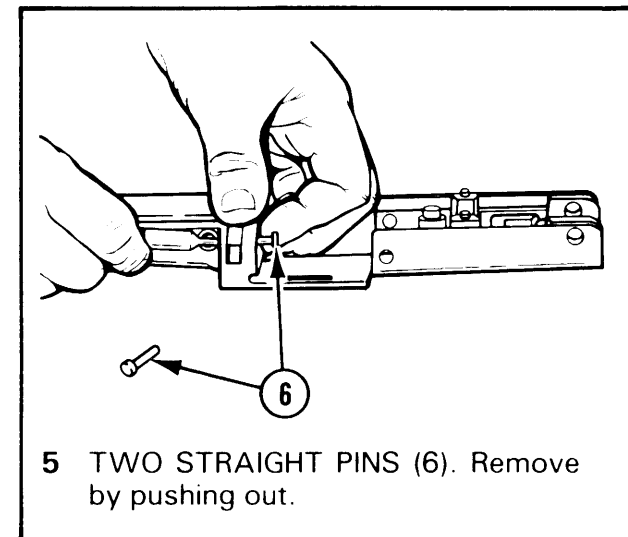
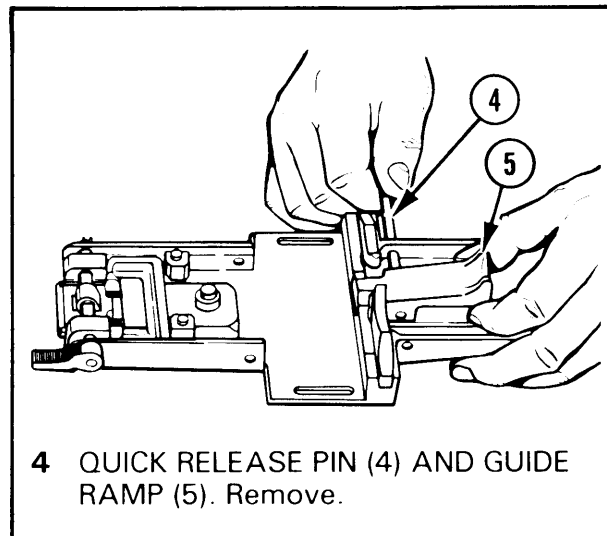
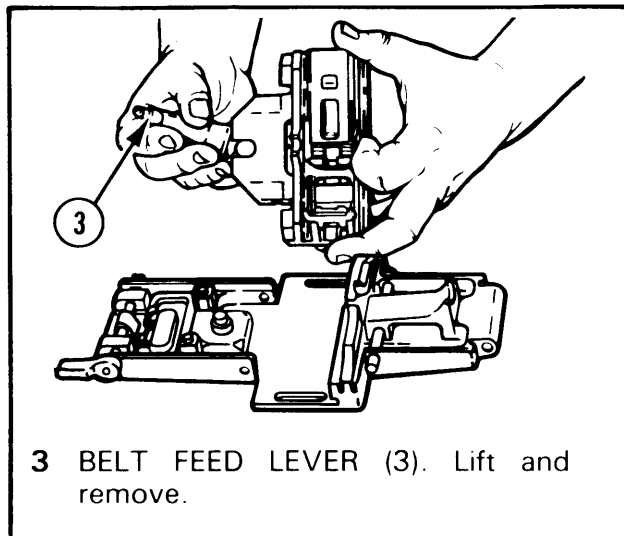
##### COVER ASSEMBLY.

- a. Check all moving parts for damage and excessive wear.
- b. Check for free movement of all feed mechanism parts.

#### DISASSEMBLY

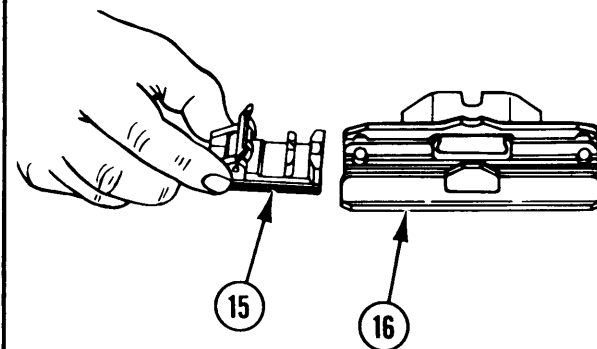
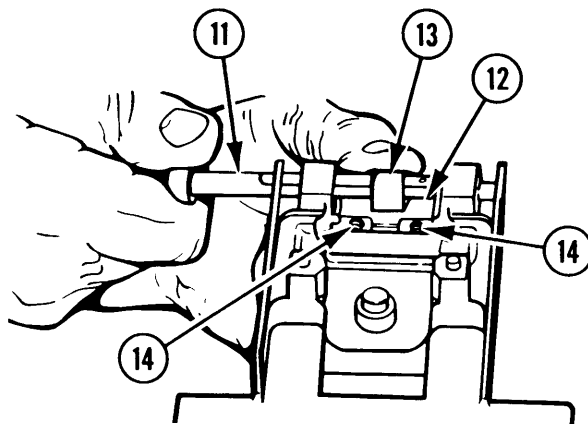
- 1 QUICK RELEASE PIN (1). Remove.
- 2 FEED GUIDE WITH ATTACHED PARTS (2). Remove.



**3-16. COVER ASSEMBLY-MAINTENANCE INSTRUCTIONS. (cont)****DISASSEMBLY (cont)**

8 LATCH LEVER (11) AND LATCH (12). Remove.

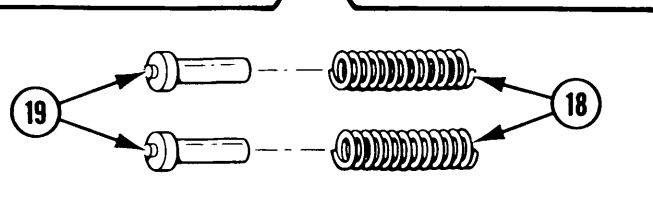
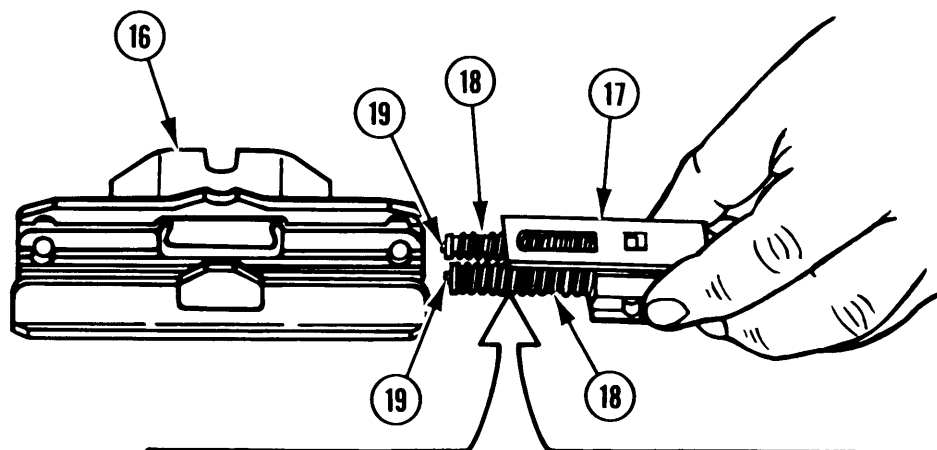
9 CAM (13) AND TWO SPRINGS (14). Remove.



10 FEED SLIDE ASSEMBLY (15). Remove from feed guide (16).

11 FEED RETURN HOUSING ASSEMBLY (17). Remove.

12 TWO SPRINGS (18) AND TWO STRAIGHT PINS (19). Remove from feed guide (16).

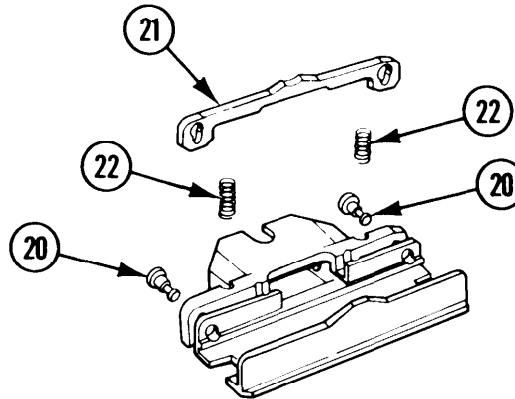


**3-16. COVER ASSEMBLY-MAINTENANCE INSTRUCTIONS. (cont)****DISASSEMBLY (cont)**

**13** TWO HEADED PINS (20). Remove, pressing the stripper (21) to align large diameter holes with diameters of headed pins.

**14** STRIPPER (21). Remove.

**15** TWO SPRINGS (22). Remove.

**REPAIR/REPLACEMENT****COVER ASSEMBLY.**

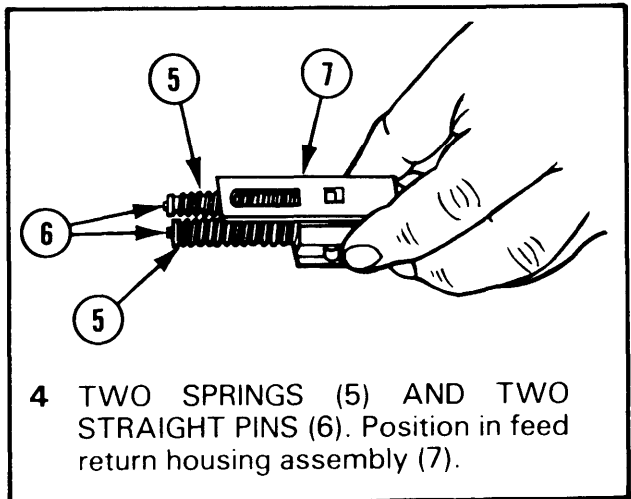
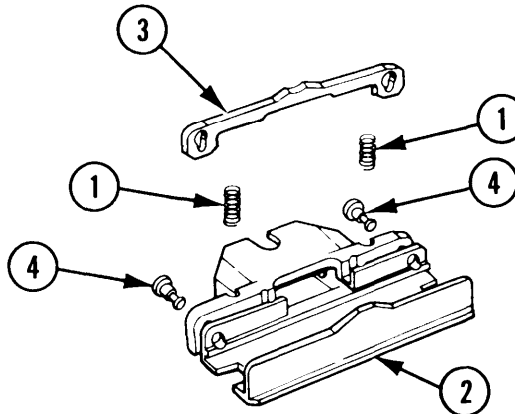
- a. Replace all parts that are cracked, deformed, or missing.
- b. Repair is by replacement of authorized parts (app C).

**REASSEMBLY**

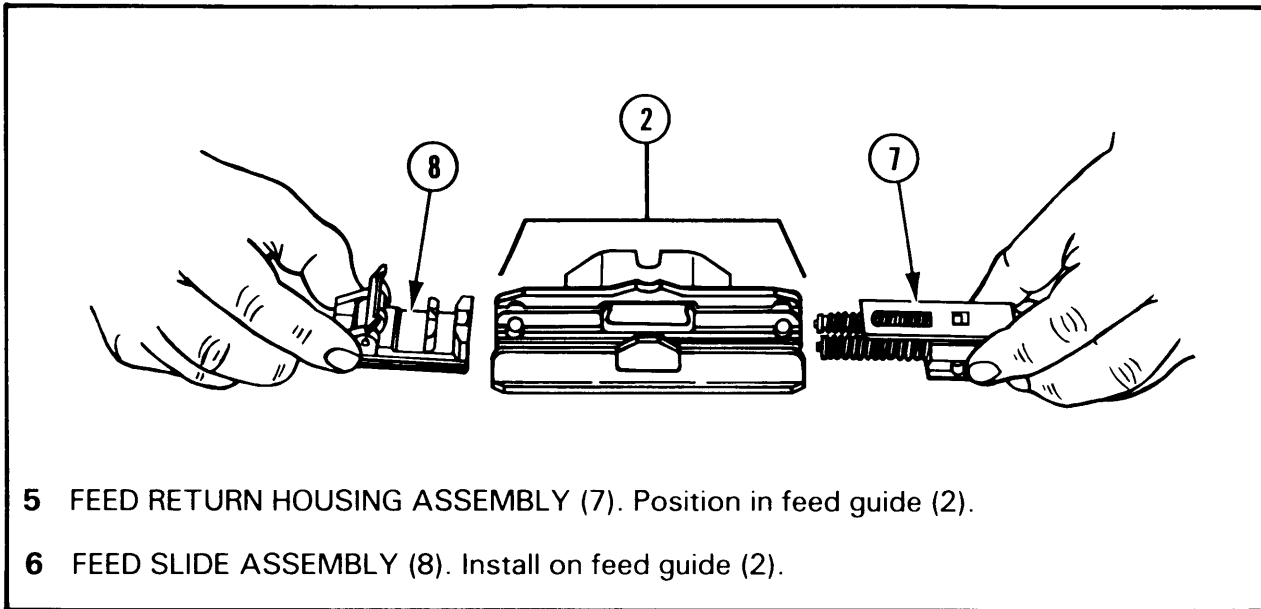
**1** TWO SPRINGS (1). Position on feed guide (2).

**2** STRIPPER (3). Position over springs (1).

**3** TWO HEADED PINS (4). Insert, while applying pressure to stripper (3).

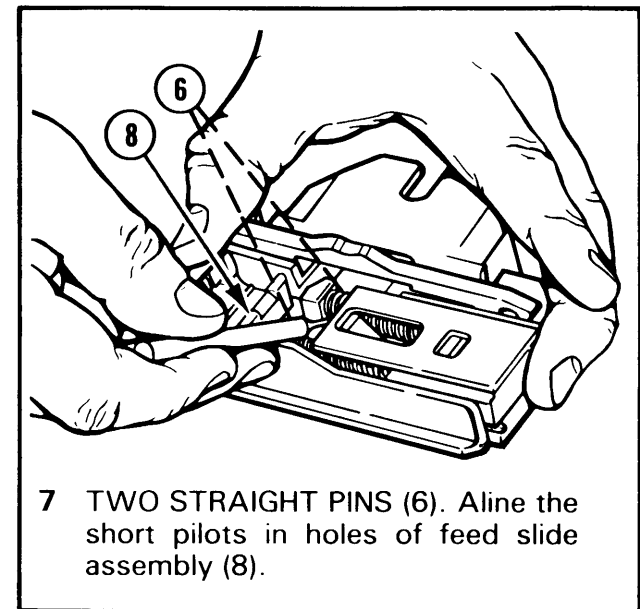


**4** TWO SPRINGS (5) AND TWO STRAIGHT PINS (6). Position in feed return housing assembly (7).

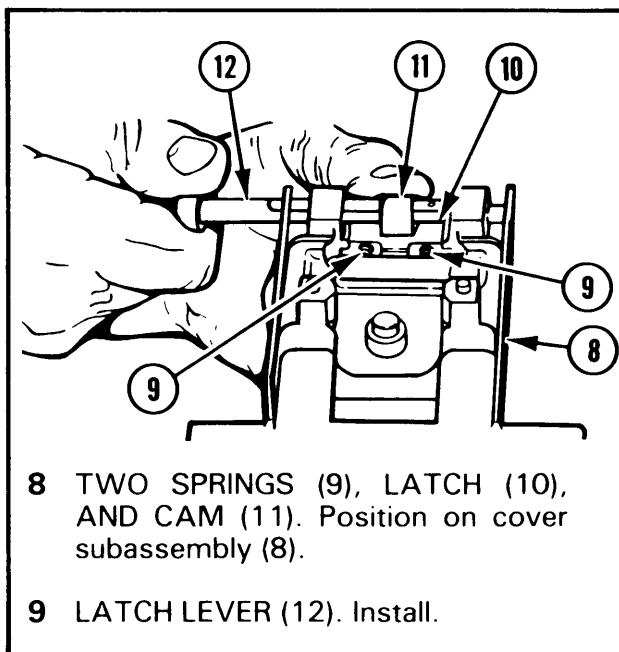


**5** FEED RETURN HOUSING ASSEMBLY (7). Position in feed guide (2).

**6** FEED SLIDE ASSEMBLY (8). Install on feed guide (2).

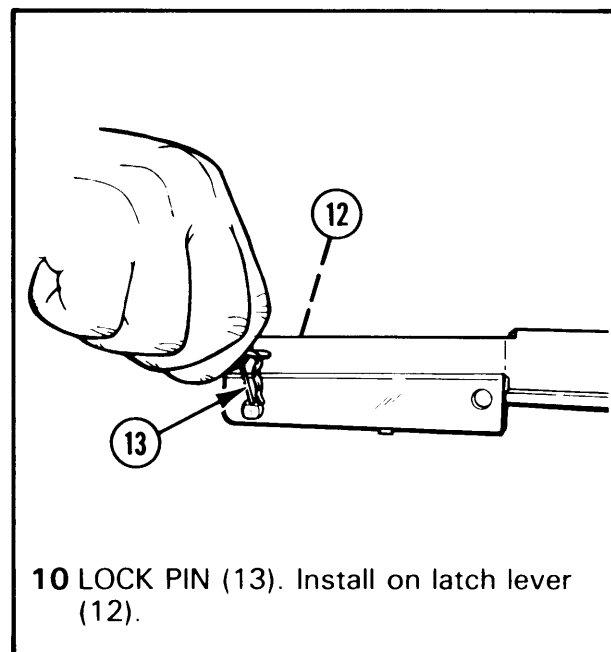


**7** TWO STRAIGHT PINS (6). Align the short pilots in holes of feed slide assembly (8).

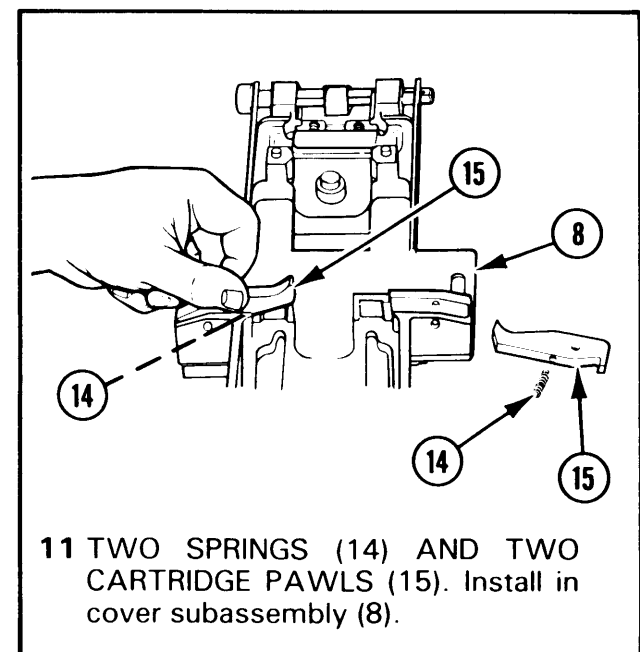


**8** TWO SPRINGS (9), LATCH (10), AND CAM (11). Position on cover subassembly (8).

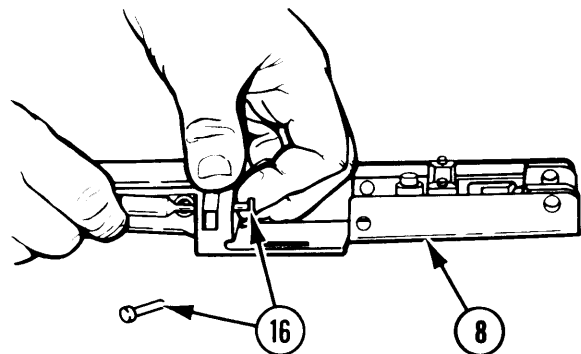
**9** LATCH LEVER (12). Install.



**10** LOCK PIN (13). Install on latch lever (12).



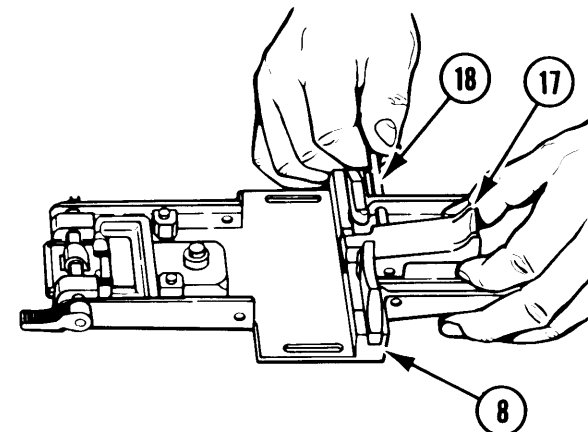
**11** TWO SPRINGS (14) AND TWO CARTRIDGE PAWLS (15). Install in cover subassembly (8).

**3-16. COVER ASSEMBLY-MAINTENANCE INSTRUCTIONS. (cont)****REASSEMBLY (cont)**

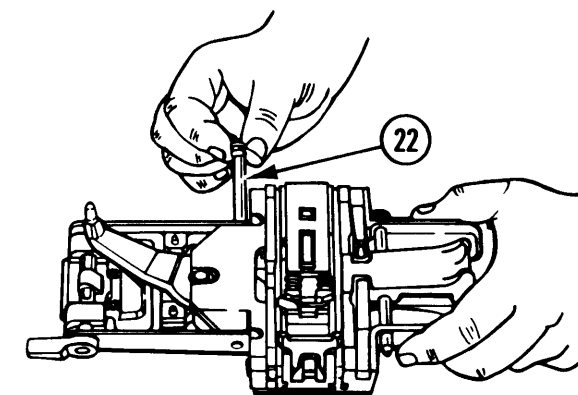
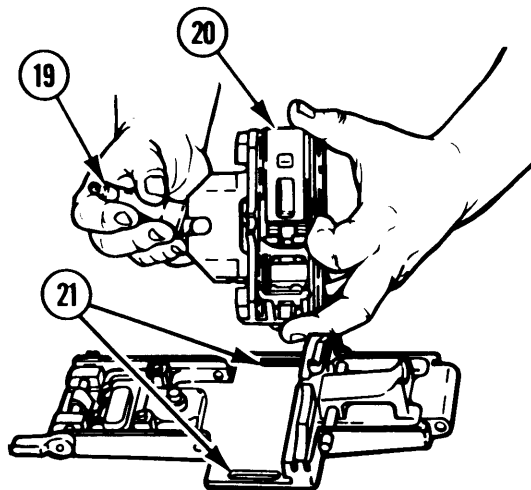
**12 STRAIGHT PINS (16).** Install in cover subassembly (8).

**13 GUIDE RAMP (17).** Position on cover subassembly (8).

**14 QUICK RELEASE PIN (18).** Install.



**15 BELT FEED LEVER (19) AND FEED GUIDE WITH ATTACHED PARTS (20).** Position simultaneously; squeeze and hold feed guide with attached parts (20) until it is seated in cover subassembly recess slots (21).



**16 QUICK RELEASE PIN (22).** Install.

### 3-17. FEED SLIDE ASSEMBLY-MAINTENANCE INSTRUCTIONS.

#### THIS TASK COVERS:

- a. Disassembly
- b. Cleaning/lubrication
- c. Repair/replacement
- d. Reassembly

#### INITIAL SETUP

##### Tools and Special Tools

Field maintenance, basic less power, small arms shop set (app B)  
Field maintenance, post, camp, and station, set D, small arms shop sets (app B)

##### Materials/Parts

CLP (item 5, app D)  
Wiping rag (item 14, app D)

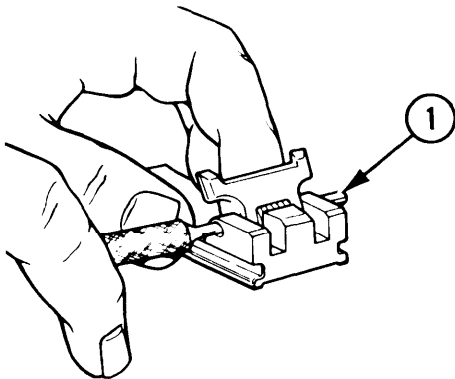
##### References

Appendix B  
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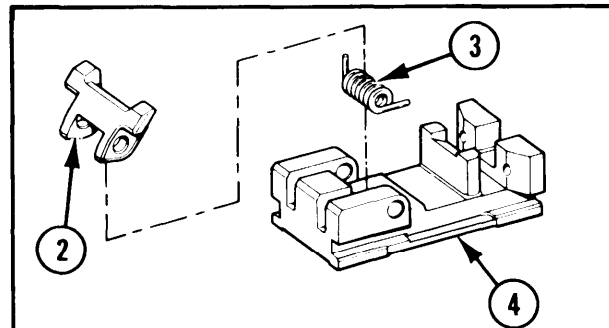
##### Equipment Conditions

3-55 Feed slide assembly removed

#### DISASSEMBLY



1 HEADLESS PIN (1). Push out.



2 FEED PAWL (2) AND TORSION SPRING (3). Remove from feed slide (4).

#### CLEANING/LUBRICATION

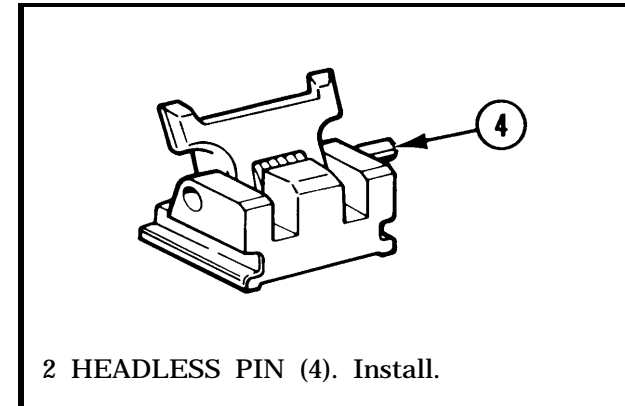
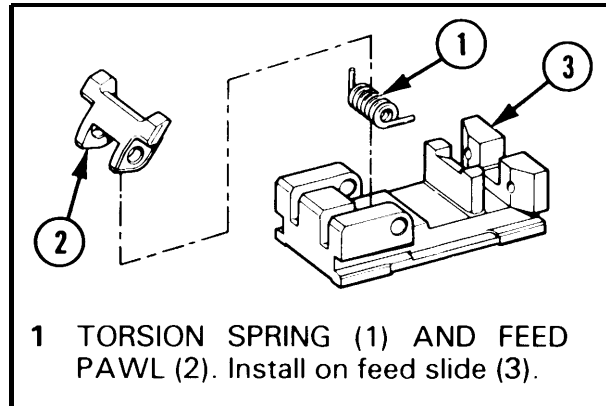
Clean metal parts with CLP (item 5, app D) and dry with wiping rag (item 14, app D). Lubricate as required (TM 9-1005-231-10).

### 3-17. FEED SLIDE ASSEMBLY-MAINTENANCE INSTRUCTIONS. (cont)

#### REPAIR/REPLACEMENT

Repair is by replacement of authorized parts (app C) as needed.

#### REASSEMBLY



### 3-18. FEED RETURN HOUSING ASSEMBLY-MAINTENANCE INSTRUCTIONS.

#### THIS TASK COVERS:

- |                         |                       |
|-------------------------|-----------------------|
| a. Disassembly          | c. Repair/replacement |
| b. Cleaning/lubrication | d. Reassembly         |

#### INITIAL SETUP

##### Tools and Special Tools

Field maintenance, basic less power, small arms shop set (app B)

##### Materials/Parts

CLP (item 5, app D)  
Wiping rag (item 14, app

##### References

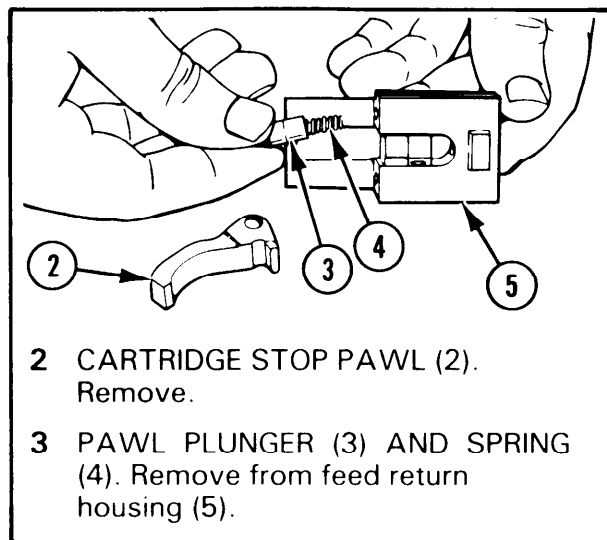
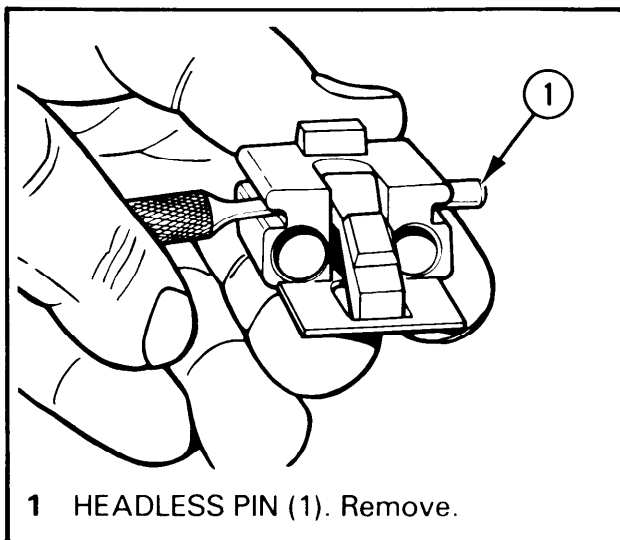
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##### Equipment Conditions

3-55 Feed return housing assembly removed



## DISASSEMBLY



## CLEANING/LUBRICATION

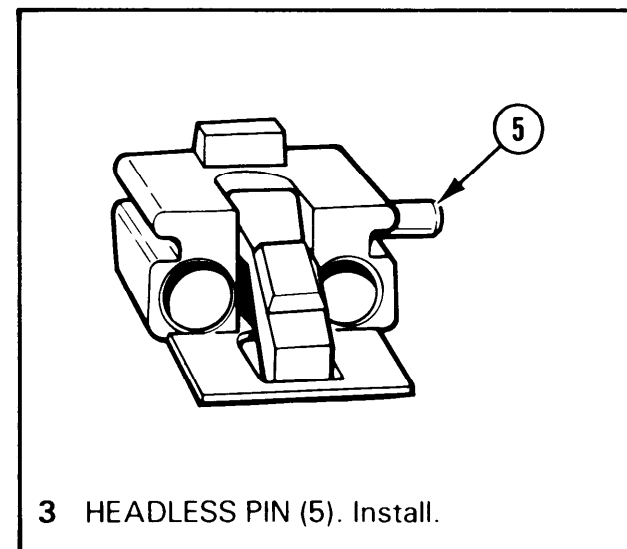
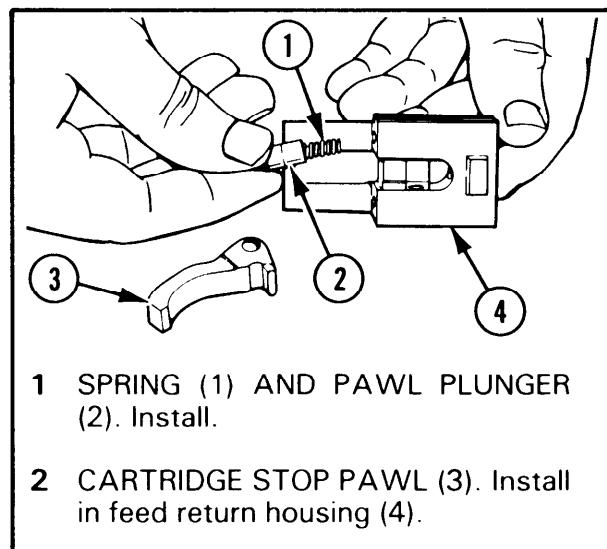
Clean metal parts with CLP (item 5, app D) and dry with wiping rag (item 14, app D). Lubricate as required (TM 9-1005-231-10).

## REPAIR/REPLACEMENT

### FEED RETURN HOUSING ASSEMBLY.

- a. Repair is by replacement of authorized parts (app C) as needed.
- b. Replace feed return housing assembly if repair procedures do not correct maintenance problem.

## REASSEMBLY



### 3-19. FEED TRAY ASSEMBLY-MAINTENANCE INSTRUCTIONS.

#### THIS TASK COVERS:

- |                         |                       |
|-------------------------|-----------------------|
| a. Inspection           | e. Repair/replacement |
| b. Removal              | f. Reassembly         |
| c. Disassembly          | g. Installation       |
| d. Cleaning/lubrication |                       |

#### INITIAL SETUP

##### Tools and Special Tools

Field maintenance, basic less power, small arms shop set (app B)  
Field maintenance, post, camp, and station, set D, small arms shop sets (app B)

##### Materials/Parts

CLP (item 5, app D)  
inspection penetrant kit (item 10, app D)  
Wiping rag (item 14, app D)

##### References

Appendix B  
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##### Equipment Conditions

3-34 Feed and ejector assembly removed

#### INSPECTION

##### FEED TRAY ASSEMBLY.

- Check alinement when installed.
- Check feed tray for twisting and cracks in the metal, using inspection penetrant kit (item 10, app D).
- Check spring pressure of link guide plunger.

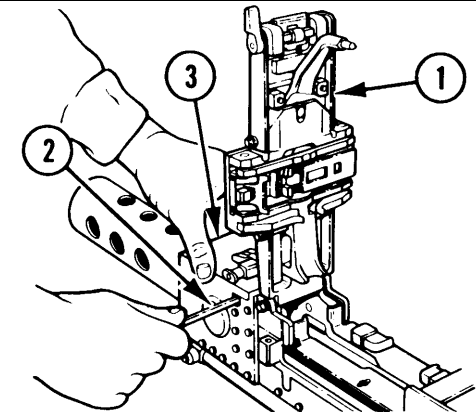
#### REMOVAL

- COVER ASSEMBLY (1). Open.
- (ACCELERATOR) QUICK RELEASE PIN (2). Remove.

##### NOTE

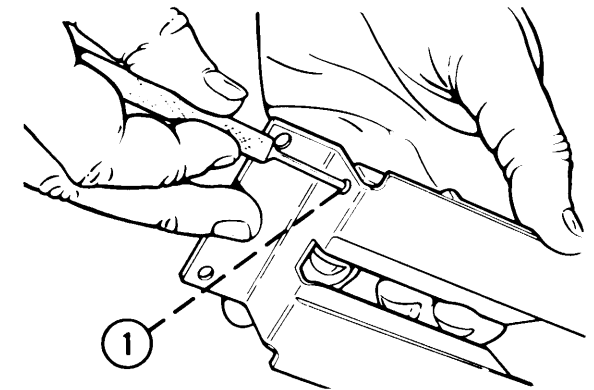
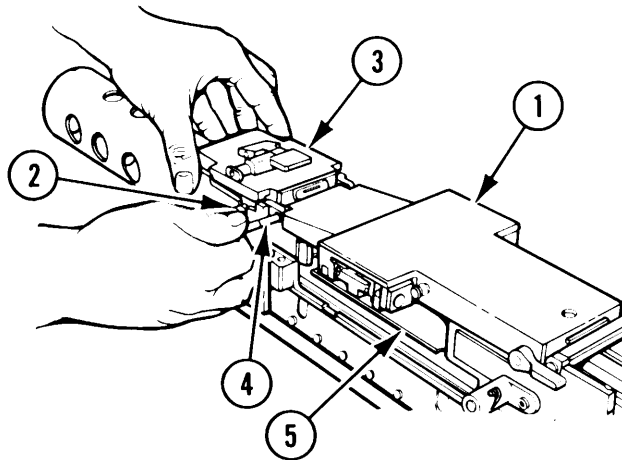
Accelerator assembly should raise slightly when cover assembly is lowered.

- COVER ASSEMBLY (1). Lower, releasing tension from accelerator assembly (3).



## DISASSEMBLY

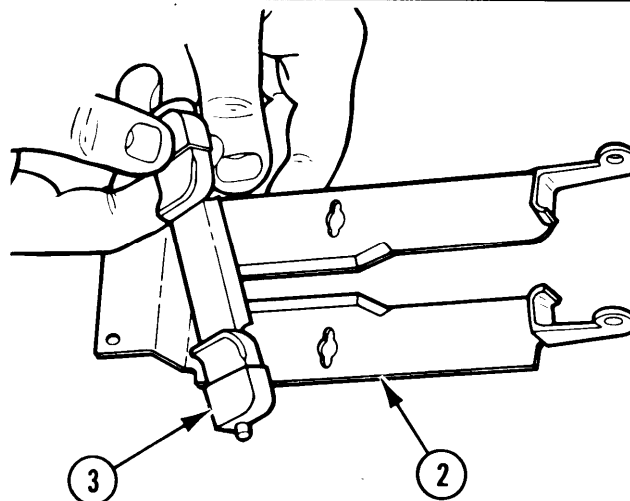
- 4 ACCELERATOR ASSEMBLY (3). Lift and partially insert (accelerator) quick release pin (2) to hold accelerator assembly up.
- 5 (COVER) QUICK RELEASE PIN (4). Remove.
- 6 COVER ASSEMBLY (1) AND FEED TRAY ASSEMBLY (5). Remove.



- 1 LINK GUIDE PLUNGER (1). Press.

## CLEANING/LUBRICATION

- 2 FEED TRAY (2). Rotate 90 degrees.
- 3 LINK TRAY GUIDE (3). Lift from feed tray (2).



Clean metal parts with CLP (item 5, app D) and dry with wiping rag (item 14, app D). Lubricate as required (TM 9-1005-231-10).

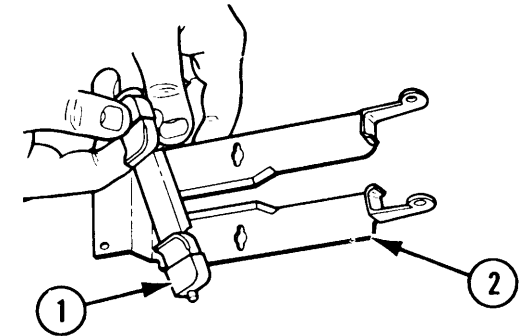
### 3-19. FEED TRAY ASSEMBLY-MAINTENANCE INSTRUCTIONS. (cont)

#### REPAIR/REPLACEMENT

##### FEED TRAY ASSEMBLY.

- a. Replace all parts that are cracked, deformed, or missing.
- b. Repair is by replacement of authorized parts (app C).

#### REASSEMBLY



LINK TRAY GUIDE (1). Position in feed tray (2) and rotate 90 degrees to lock in place.

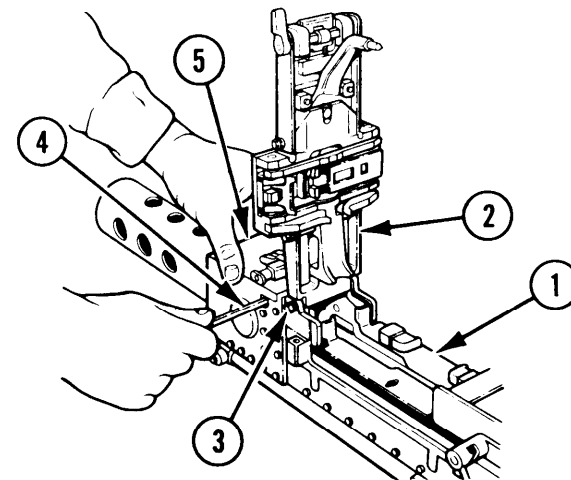
#### INSTALLATION

##### 1 FEED TRAY ASSEMBLY (1) AND COVER ASSEMBLY (2).

- a. Position.
- b. Install (cover) quick release pin (3).

##### 2 (ACCELERATOR) QUICK RELEASE PIN (4).

- a. Remove; push accelerator assembly (5) down and hold.
- b. Install.



### 3-20. LINK TRAY GUIDE-MAINTENANCE INSTRUCTIONS.

#### THIS TASK COVERS:

- a. Disassembly
- b. Cleaning/lubrication
- c. Repair/replacement
- d. Reassembly

#### INITIAL SETUP

##### Tools and Special Tools

Field maintenance, basic less power, small arms shop set (app B)

##### Materials/Parts

CLP (item 5, app D)  
Spring pin (2) (MS39086-53)  
Wiping rag (item 14, app D)

##### References

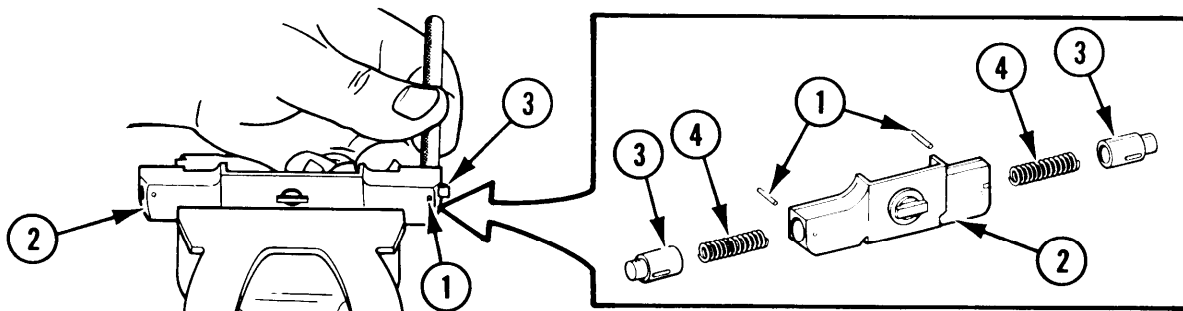
Appendix B  
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##### Equipment Conditions

3-63 Link tray guide removed

#### DISASSEMBLY

#### CLEANING/LUBRICATION



- 1 TWO SPRING PINS (1). Drive out of link guide (2). Discard spring pins.
- 2 TWO LINK GUIDE PLUNGERS (3) AND TWO SPRINGS (4). Remove from link guide (2).

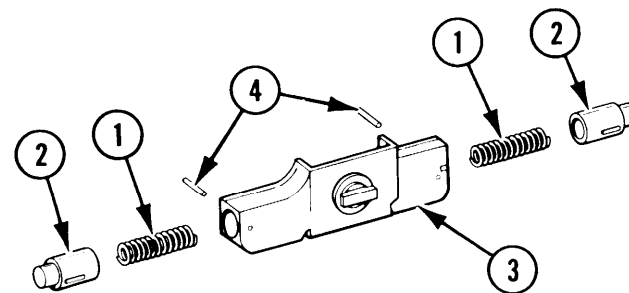
Clean metal parts with CLP (item 5, app D) and dry with wiping rag (item 14, app D). Lubricate as required (TM 9-1005-231 -10).

**3-20. LINK TRAY GUIDE-MAINTENANCE INSTRUCTIONS. (cont)****REPAIR/REPLACEMENT****LINK TRAY GUIDE.**

- a. Repair is by replacement of authorized parts (app C) as needed.
- b. Replace link tray guide if repair procedures do not correct maintenance problem.

**REASSEMBLY**

- 1 TWO SPRINGS (1) AND TWO LINK GUIDE PLUNGERS (2). Install in link guide (3).
- 2 TWO SPRING PINS (4). Install new spring pins.

**3-21. ACCELERATOR ASSEMBLY-MAINTENANCE INSTRUCTIONS.****THIS TASK COVERS:**

- |  |   |
|--|---|
| <ol style="list-style-type: none"> <li>a. Removal</li> <li>b. Disassembly</li> <li>c. Cleaning/lubrication</li> <li>d. Inspection</li> </ol> | <ol style="list-style-type: none"> <li>e. Repair/replacement</li> <li>f. Reassembly</li> <li>g. Installation</li> </ol> |
|--|---|

**INITIAL SETUP****Tools and Special Tools**

Field maintenance, basic less power, small arms shop set (app B)

**Materials/Parts**

CLP (item 5, app D)  
 Spring pin (MS39086-77)  
 Spring pin (MS39086-91)  
 Wiping rag (item 14, app D)

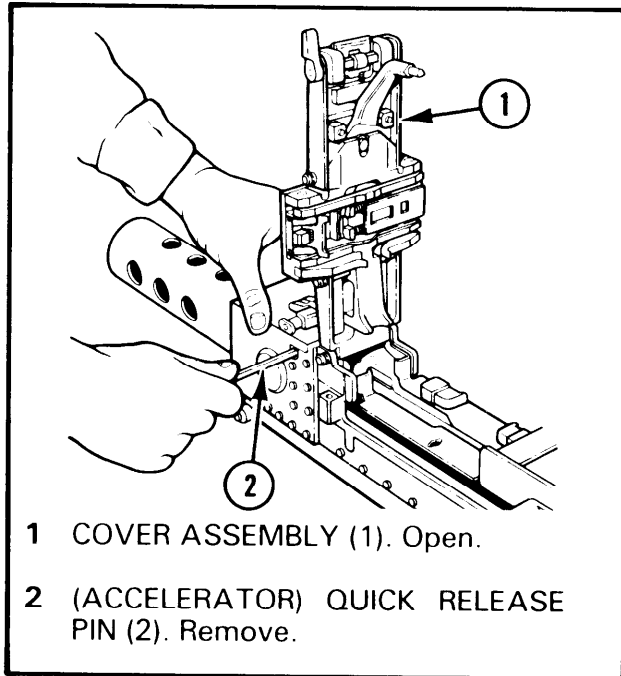
**References**

Appendix B  
 Appendix C  
 Appendix D  
 3-72 Barrel latch removal  
 TM 9-1005-231-10

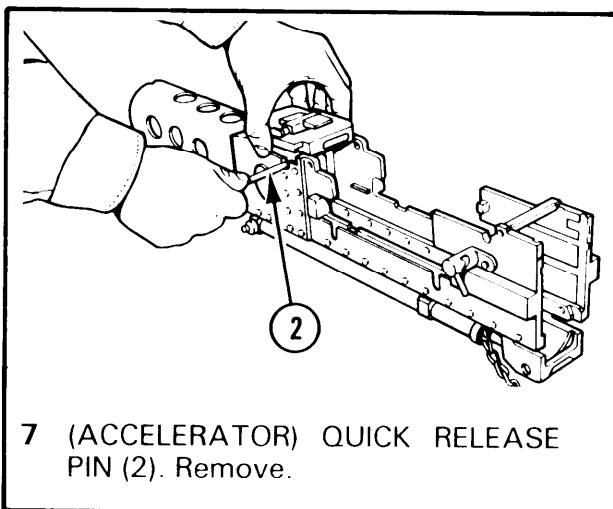
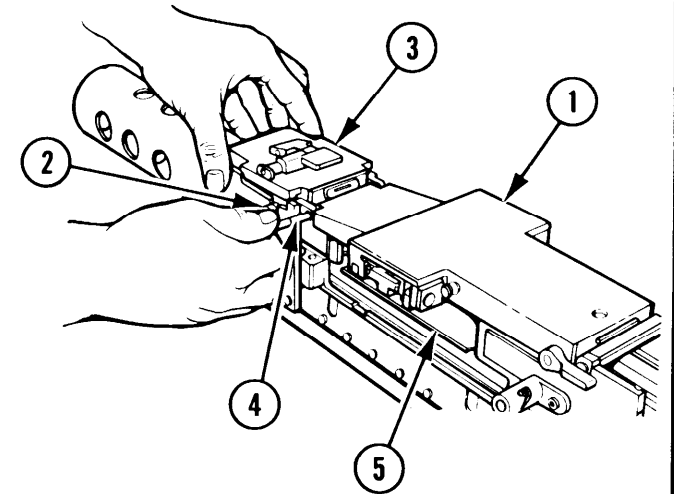
**Equipment Conditions**

3-34 Feed and ejector assembly removed

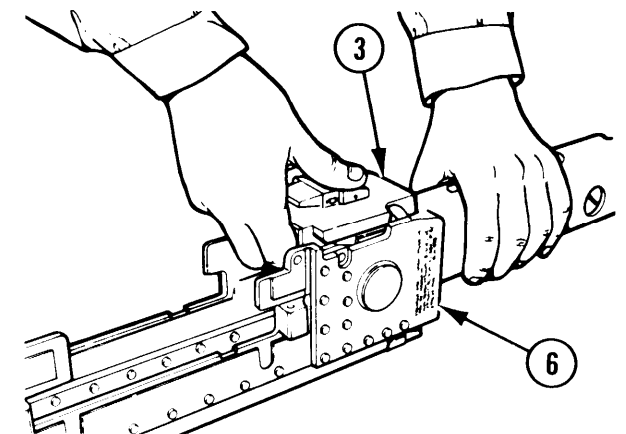
## REMOVAL

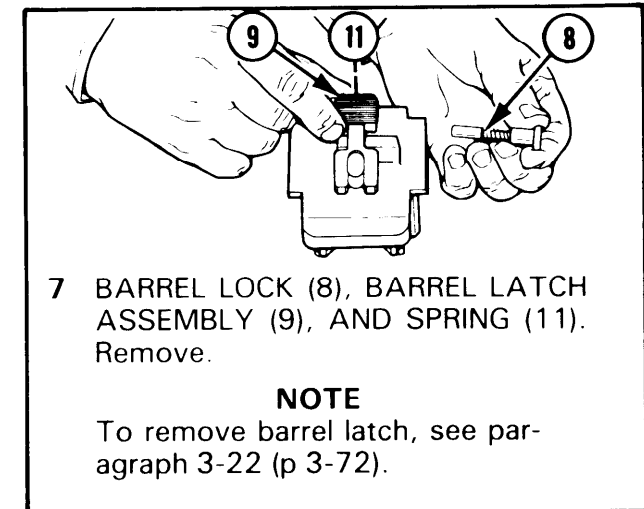
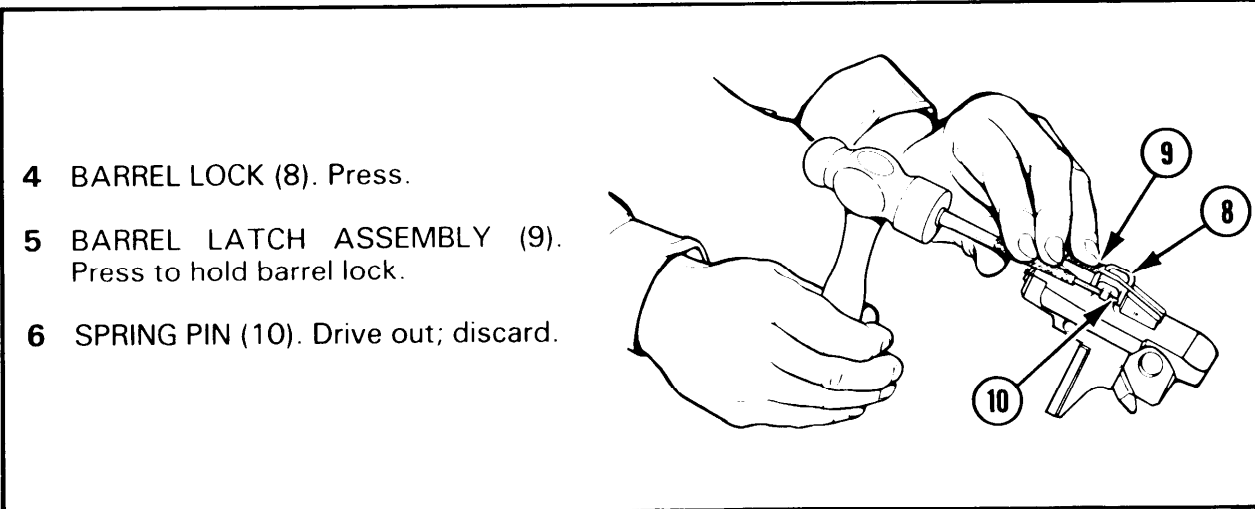
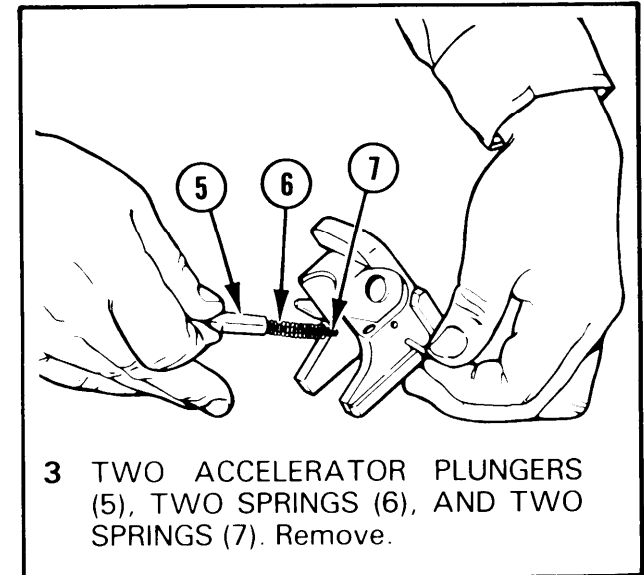
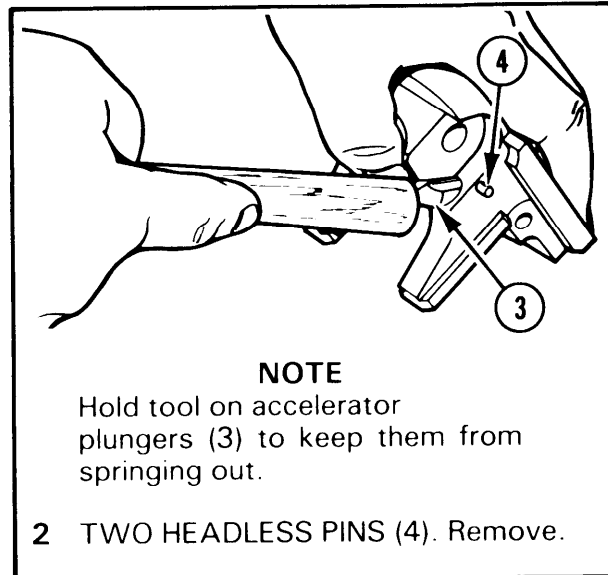
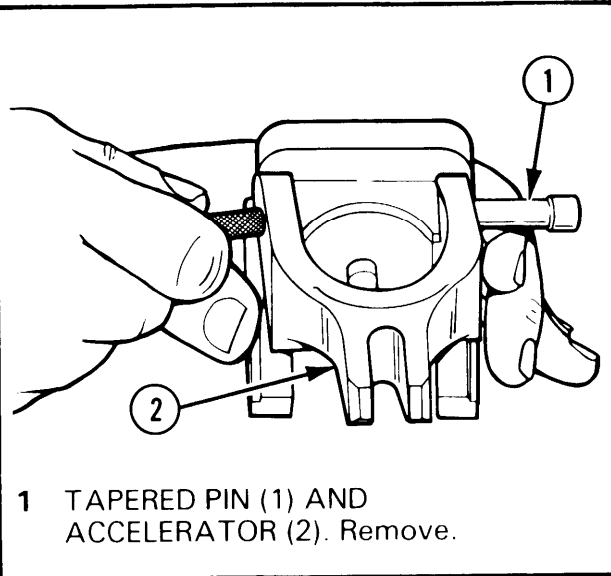


- NOTE**  
Accelerator assembly should raise slightly when cover assembly is lowered.
- 3 COVER ASSEMBLY (1). Lower, releasing tension from accelerator assembly (3).
- 4 ACCELERATOR ASSEMBLY (3). Lift and partially insert (accelerator) quick release pin (2) to hold accelerator assembly up.
- 5 (COVER) QUICK RELEASE PIN (4). Remove.
- 6 COVER ASSEMBLY (1) AND FEED TRAY ASSEMBLY (5). Remove.



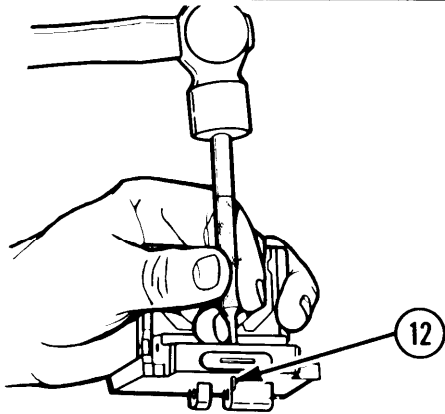
- NOTE**  
Removing accelerator assembly requires effort. Be careful not to lose plunger retaining pins when removing accelerator assembly.
- 8 ACCELERATOR ASSEMBLY (3). Lift up and remove from receiver assembly (6).



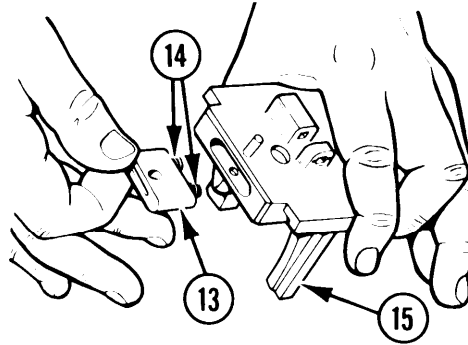
**3-21. ACCELERATOR ASSEMBLY-MAINTENANCE INSTRUCTIONS. (cont)****DISASSEMBLY**



## CLEANING/LUBRICATION



8 SPRING PIN (12). Drive out; discard.



9 COVER DETENT (13) AND TWO SPRINGS (14). Remove from accelerator housing (15).

Clean metal parts with CLP (item 5, app D) and dry with wiping rag (item 14, app D). Lubricate as required (TM 9-1005-231-10).

## INSPECTION

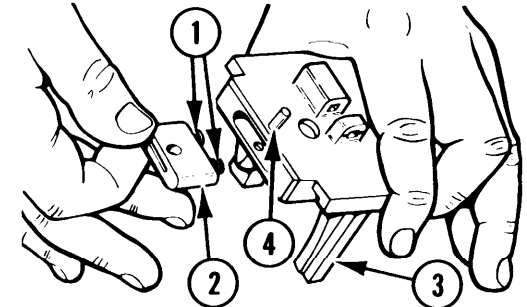
Check for rust, corrosion, burrs, and wear.

## REPAIR/REPLACEMENT

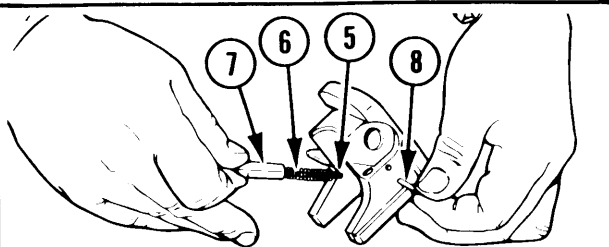
### ACCELERATOR ASSEMBLY.

- a. Replace all parts that are cracked, deformed, or missing.
- b. Repair is by replacement of authorized parts (app C).

## REASSEMBLY

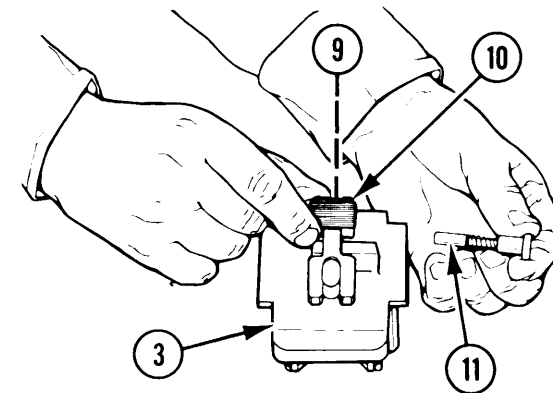


- 1 TWO SPRINGS (1). Install in cover detent (2).
- 2 COVER DETENT (2). Install in accelerator housing (3).
- 3 SPRING PIN (4). Install new spring pin.

**3-21. ACCELERATOR ASSEMBLY-MAINTENANCE INSTRUCTIONS. (cont)****REASSEMBLY (cont)**

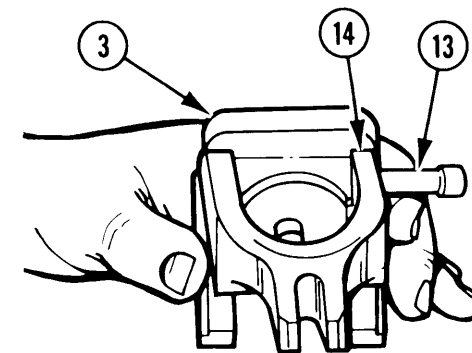
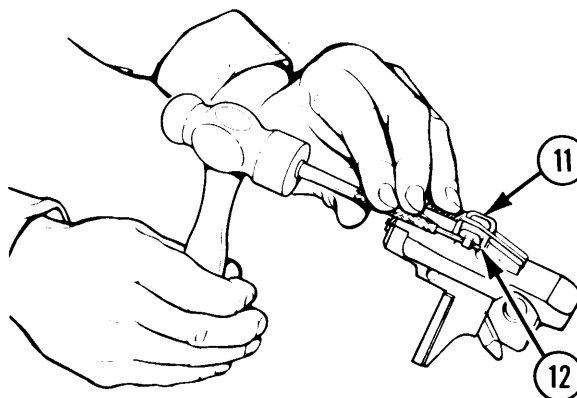
- 4** TWO SPRINGS (5), TWO SPRINGS (6), AND TWO ACCELERATOR PLUNGERS (7). Install.
- 5** TWO ACCELERATOR PLUNGERS (7). Press.
- 6** TWO HEADLESS PINS (8). Install.

- 7** SPRING (9). Install.
- 8** BARREL LATCH ASSEMBLY (10).
- a. Install.
- b. Press to hold barrel lock.
- 9** BARREL LOCK (11). Install through accelerator housing (3) and barrel latch assembly (10).



**10** BARREL LOCK (11). Press.

**11** SPRING PIN (12). Install new spring pin so that it protrudes same length on each side.



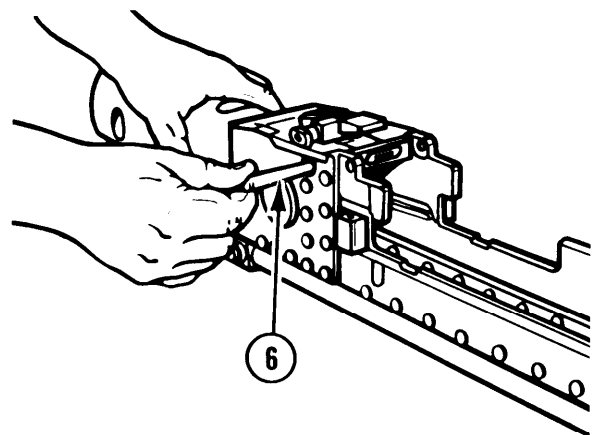
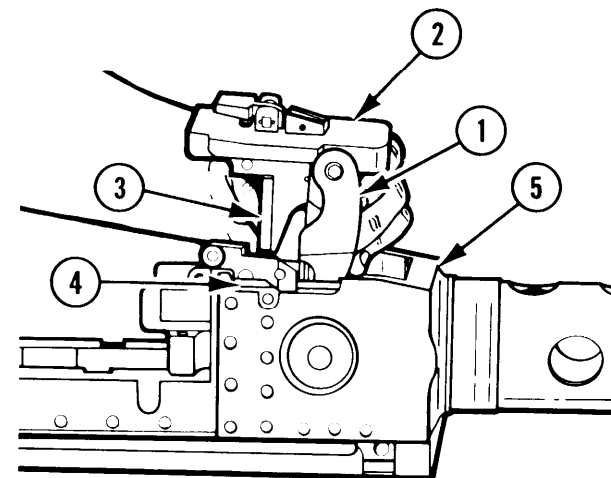
**12** TAPERED PIN (13). Install in accelerator (14) and accelerator housing (3).

## INSTALLATION

### WARNING

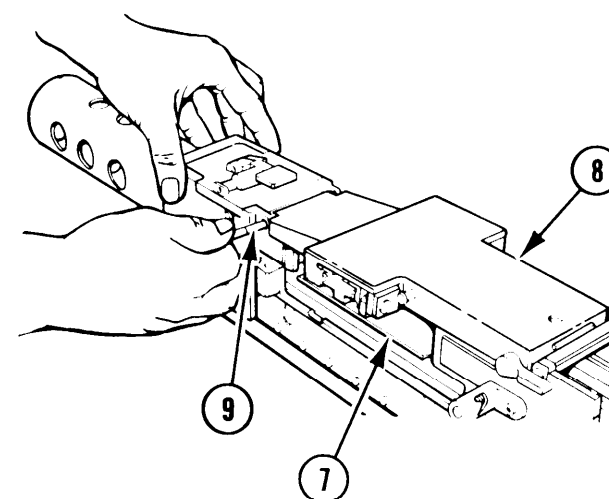
Do not pinch fingers while installing accelerator assembly.

- 1 ACCELERATOR (1). Press.
- 2 ACCELERATOR ASSEMBLY (2).
- a. Aline rails (3) with grooves (4) in receiver assembly (5).
- b. Push down.



- 3 (ACCELERATOR) QUICK RELEASE PIN (6). Install.

- 4 FEED TRAY ASSEMBLY (7) AND COVER ASSEMBLY (8). Install.
- 5 (COVER) QUICK RELEASE PIN (9). Install.



**3-22. BARREL LATCH ASSEMBLY-MAINTENANCE INSTRUCTIONS.**

**THIS TASK COVERS:**

- a. Disassembly
- b. Cleaning/lubrication
- c. Repair/replacement
- d. Reassembly

**INITIAL SETUP**

**Tools and Special Tools**

Field maintenance, basic less power, small arms shop set (app B)

**Materials/Parts**

Dry cleaning solvent (item 8, app D)  
 Spring pin (MS39086-96)  
 Wiping rag (item 14, app D)

**References**

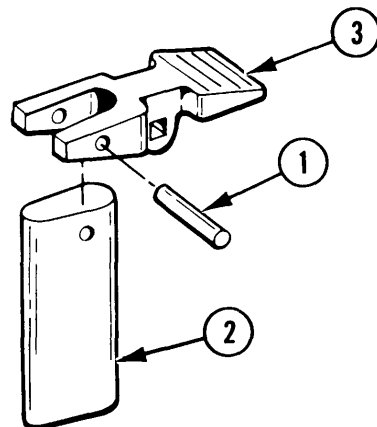
Appendix B  
 Appendix C  
 Appendix D  
 TM 9-1005-231-10

**Equipment Conditions**

3-68 Barrel latch assembly removed

**DISASSEMBLY**

- 1 SPRING PIN (1). Drive out; discard.
- 2 LATCH BLOCK (2). Remove from barrel latch (3).



**CLEANING/LUBRICATION**

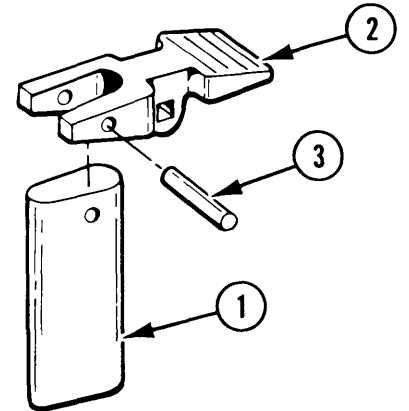
Clean parts with dry cleaning solvent (item 8, app D) and dry with wiping rag (item 14, app D). Lubricate as required (TM 9-1005-231-10).

## REPAIR/REPLACEMENT

Repair is by replacement of authorized parts (app C) as needed.

## REASSEMBLY

- 1 LATCH BLOCK (1). Install in barrel latch (2).
- 2 SPRING PIN (3). Instal new spring pin.



### **3-23. TRIGGER EXTENSION ASSEMBLY-MAINTENANCE INSTRUCTIONS.**

#### **THIS TASK COVERS:**

- |                         |                        |
|-------------------------|------------------------|
| a. Removal              | d. Repair/replacement  |
| b. Disassembly          | e. Reassembly          |
| c. Cleaning/lubrication | <b>f. Installation</b> |

#### **INITIAL SETUP**

##### Tools and Special Tools

Field maintenance, basic less power, small arms shop set (app B)

##### Materials/Parts

Wiping rag (item 14, app D)

##### References

Appendix B

Appendix C

Appendix D

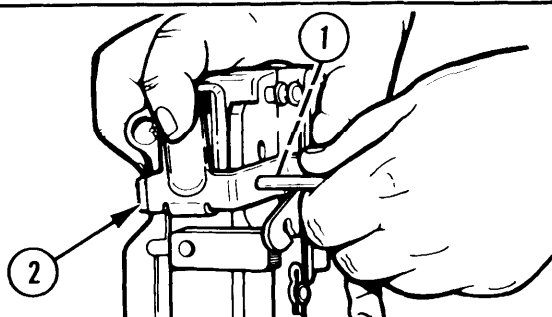
TM 9-1005-231-10

##### Equipment Conditions

2-31 Back plate assembly removed

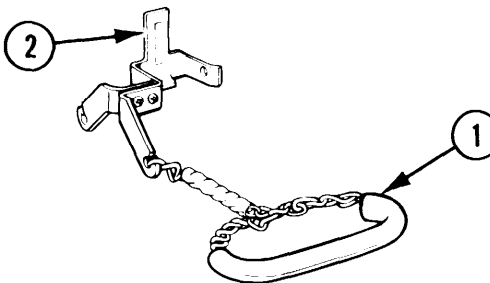
### 3-23. TRIGGER EXTENSION ASSEMBLY-MAINTENANCE INSTRUCTIONS. (cont)

#### REMOVAL



- 1 QUICK RELEASE PIN (1). Push out.
- 2 TRIGGER EXTENSION ASSEMBLY (2). Remove.

#### DISASSEMBLY



- TRIGGER EXTENSION HANDLE ASSEMBLY (1). Disconnect chain from trigger extension (2).

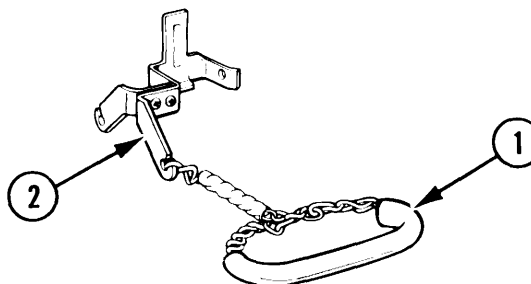
#### CLEANING/LUBRICATION

Use wiping rag (item 14, app D) to clean parts. Lubricate metal parts as required (TM 9-1005-231-10).

#### REPAIR/REPLACEMENT

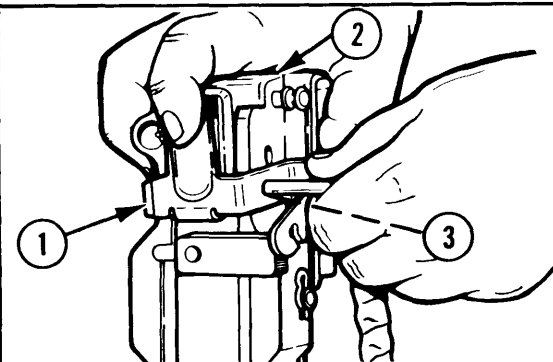
Repair is by replacement of authorized parts (app C) as needed

#### REASSEMBLY



- 1 TRIGGER EXTENSION HANDLE ASSEMBLY (1). Put in trigger extension hole.
- 2 TRIGGER EXTENSION (2). Secure to chain of trigger extension handle assembly (1).

#### INSTALLATION



- 1 TRIGGER EXTENSION ASSEMBLY (1). Install on back plate assembly (2).
- 2 QUICK RELEASE PIN (3). Install.

### 3-24. HAND CHARGER ASSEMBLY-MAINTENANCE INSTRUCTIONS.

#### THIS TASK COVERS:

- a. Removal
- b. Disassembly
- c. Cleaning
- d. Inspection
- e. Repair/replacement
- f. Reassembly
- g. Installation

#### INITIAL SETUP

##### Tools and Special Tools

Field maintenance, basic less power, small arms shop set (app B)

##### Materials/Parts

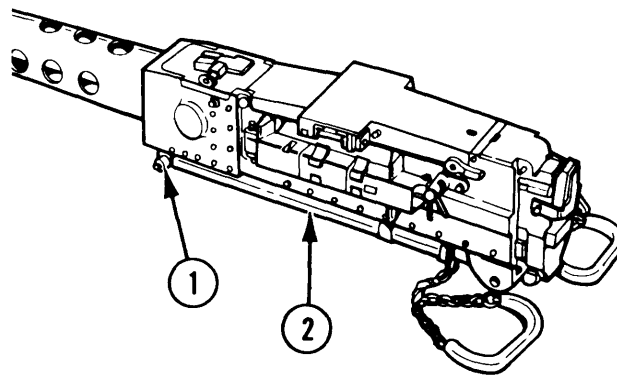
Dry cleaning solvent (item 8, app D)  
Inspection penetrant kit (item 10, app D)  
Wiping rag (item 14, app D)

##### References

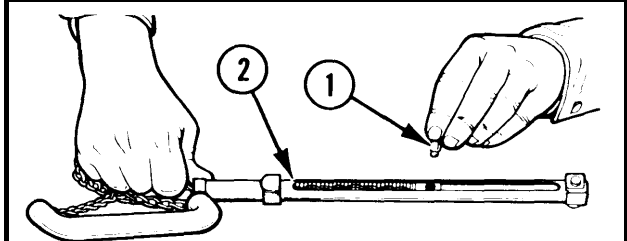
Appendix B  
Appendix C  
Appendix D

#### REMOVAL

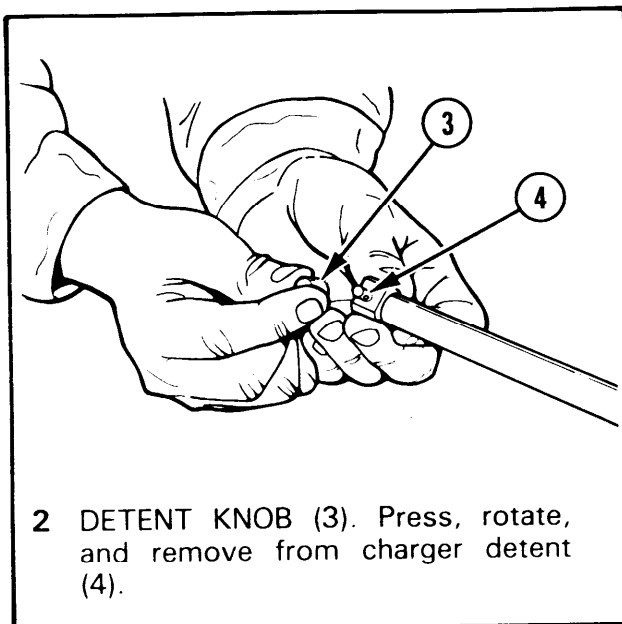
- 1 DETENT KNOB (1). pull out.
- 2 HAND CHARGER ASSEMBLY (2). Push forward, pull up, and remove.



#### DISASSEMBLY

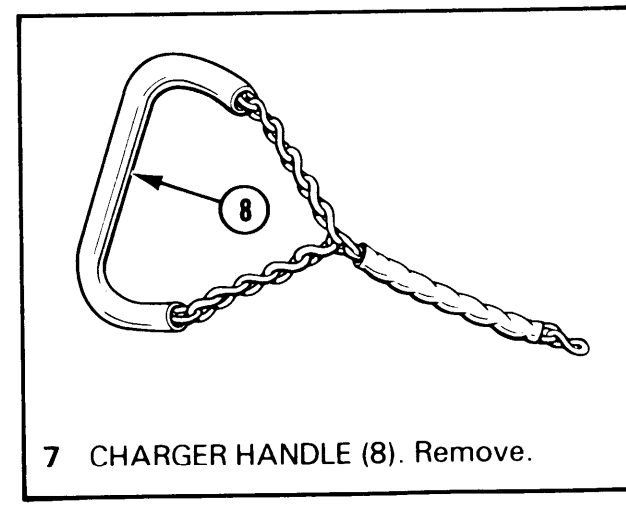
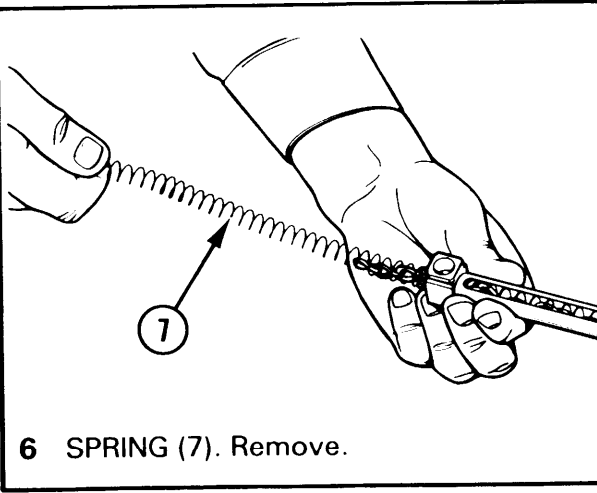
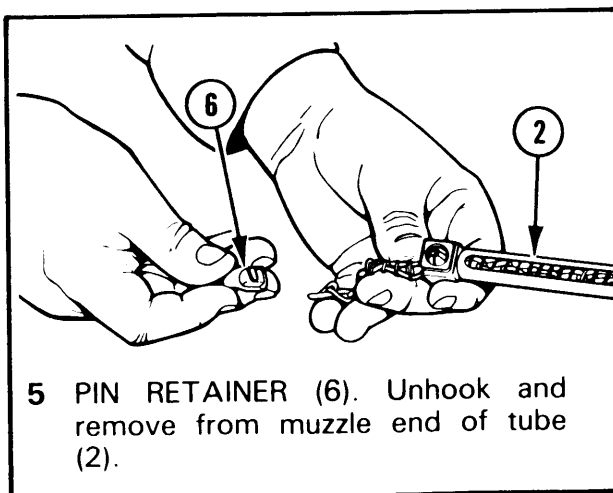
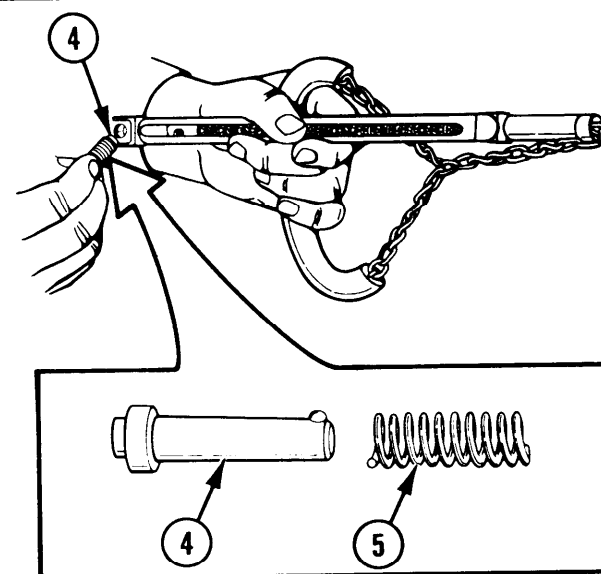


- 1 SHOULDER PIN (1).
  - a. Aline with slot in tube (2)
  - b. Remove.

**3-24. HAND CHARGER ASSEMBLY-MAINTENANCE INSTRUCTIONS. (cont)****DISASSEMBLY (cont)**

3 CHARGER DETENT (4). Remove.

4 SPRING (5). Unscrew and remove from charger detent (4).





## CLEANING

Clean parts with dry cleaning solvent (item 8, app D) and dry with wiping rag (item 14, app D).

## INSPECTION

### HAND CHARGER ASSEMBLY.

- a. Check for dirt, dents, or distortion.
- b. Using inspection penetrant kit (item 10, app D), check that shoulder pin is not cracked or bent.

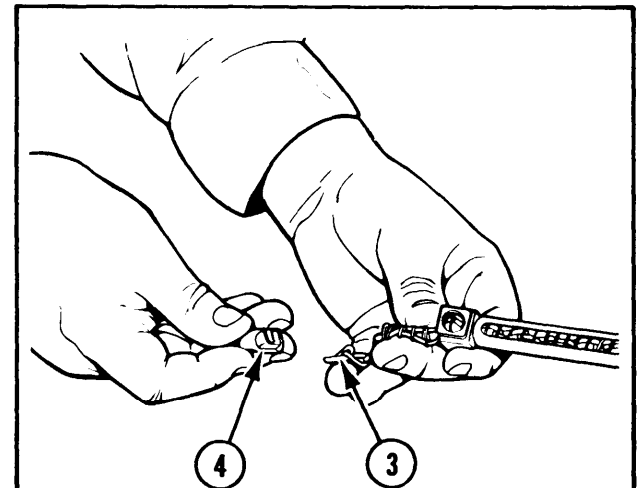
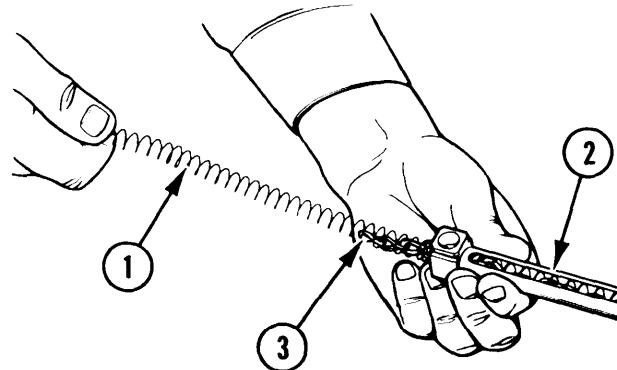
## REPAIR/REPLACEMENT

### HAND CHARGER ASSEMBLY

- a. Replace all parts that are cracked, deformed, or missing
- b. Repair is by replacement of authorized parts (app C)

## REASSEMBLY

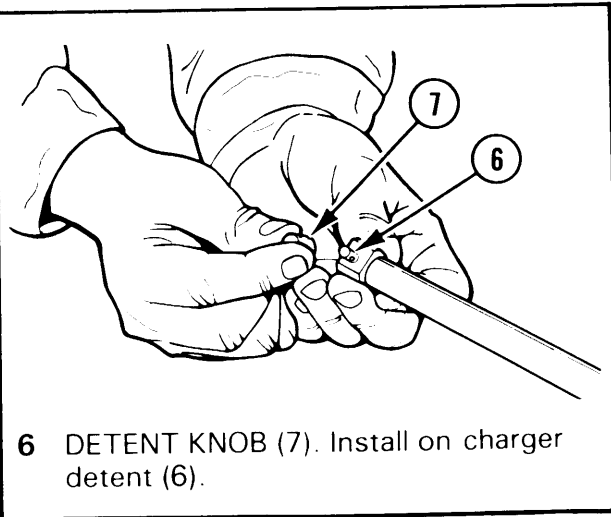
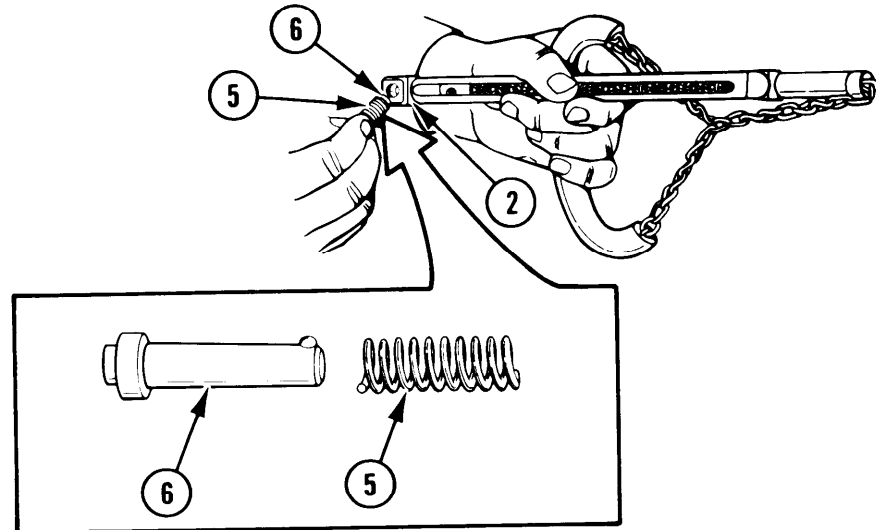
- 1 SPRING (1). Install in tube (2).
- 2 CHARGER HANDLE (3). Install through spring (1).



- 3 PIN RETAINER (4). Install on breech end of charger handle (3).

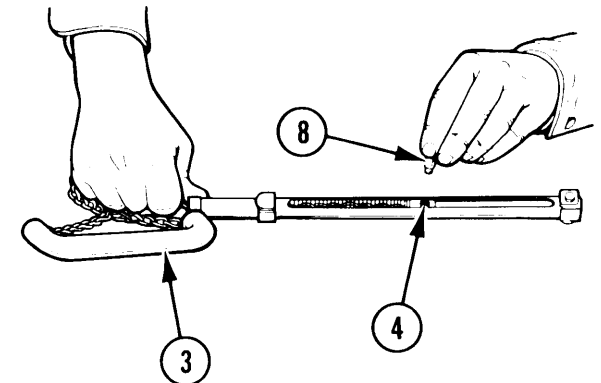
**3-24. HAND CHARGER ASSEMBLY-MAINTENANCE INSTRUCTIONS. (cont)****REASSEMBLY (cont)**

- 4** SPRING (5). Screw on charger detent (6).
- 5** CHARGER DETENT (6). Install in tube (2).



- 6** DETENT KNOB (7). Install on charger detent (6).

- 7** CHARGER HANDLE (3). Pull back until hole in pin retainer (4) aligns with hole in slot.
- 8** SHOULDER PIN (8). Install.
- 9** CHARGER HANDLE (3). Slowly allow to go forward.



## INSTALLATION

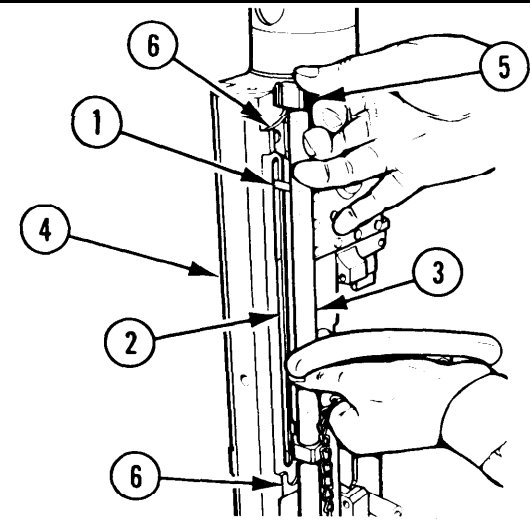
1 SHOULDER (1). Seat in tube (2).

### NOTE

Be careful when pushing plunger into detent knob. Detent knob could come off.

2 HAND CHARGER ASSEMBLY (3).

- a. Press against receiver assembly (4) and pull out on detent knob (5) at the same time.
- b. Aline with T-slots (6).
- c. Slide down through T-slots (6), releasing detent knob (5).



### 3-25. SAFETY ASSEMBLY-MAINTENANCE INSTRUCTIONS.

#### THIS TASK COVERS:

- a. Removal
- b. Disassembly
- c. Cleaning/lubrication
- d. Inspection
- e. Repair/replacement
- f. Reassembly
- g. Installation

#### INITIAL SETUP

##### Tools and Special Tools

Field maintenance, basic less power, small arms shop set (app B)

##### Materials/Parts

Dry cleaning solvent (item 8, app D)  
Inspection penetrant kit (item 10, app D)  
Wiping rag (item 14, app D)

##### References

Appendix B  
Appendix C  
Appendix D  
TM 9-1005-231-10

### 3-25. SAFETY ASSEMBLY-MAINTENANCE INSTRUCTIONS. (cont)

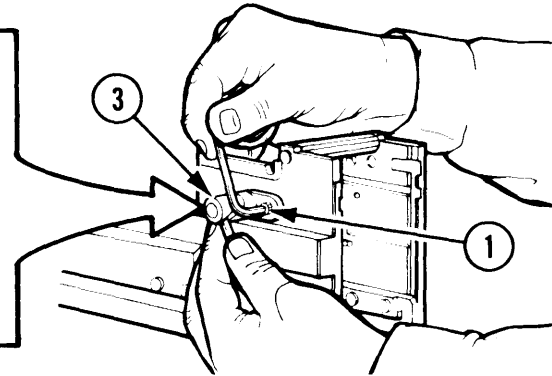
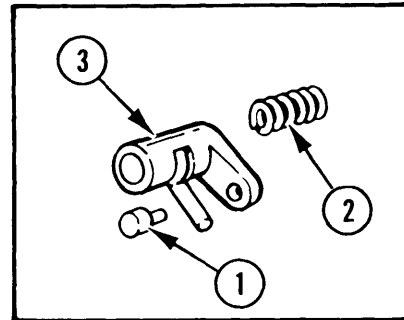
#### REMOVAL

- 1 SCREW (1). Remove.

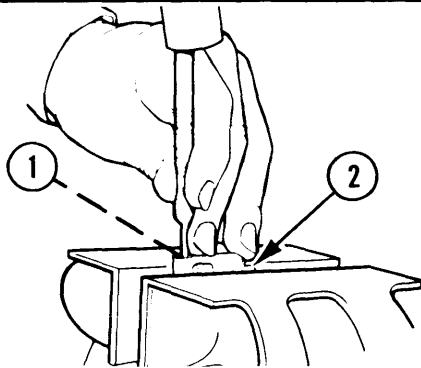
**NOTE**

Spring (2) may come out with safety assembly.

- 2 SAFETY ASSEMBLY (3). Remove.



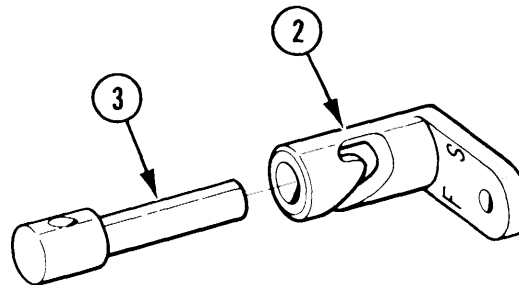
#### DISASSEMBLY



**NOTE**

Headless pin may be difficult to remove.

- 1 HEADLESS PIN (1). Drive out of safety housing (2).



- 2 SAFETY PLUNGER (3). Remove from safety housing (2).

#### CLEANING/LUBRICATION

Clean parts with dry cleaning solvent (item 8, app D) and dry with wiping rag (item 14, app D). Lubricate as required (TM 9-1005-23 1-10).

## INSPECTION

### SAFETY ASSEMBLY.

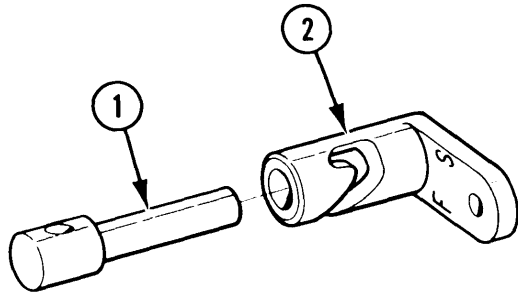
- a. Check for rust, burrs, and corrosion.
- b. Use inspection penetrant kit (item 10, app D) to check for cracks.

## REPAIR/REPLACEMENT

### SAFETY ASSEMBLY.

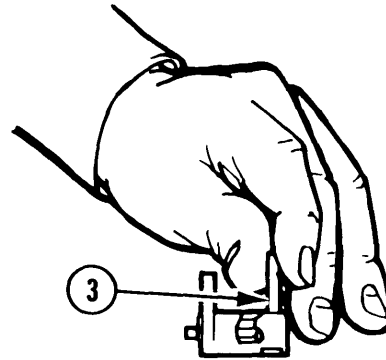
- a. Replace all parts that are cracked, deformed, missing, or have damaged threads.
- b. Repair is by replacement of authorized parts (app C).
- c. Replace safety assembly if repair procedures do not correct maintenance problem.

## REASSEMBLY



1 SAFETY PLUNGER (1). Install in safety housing (2).

## INSTALLATION



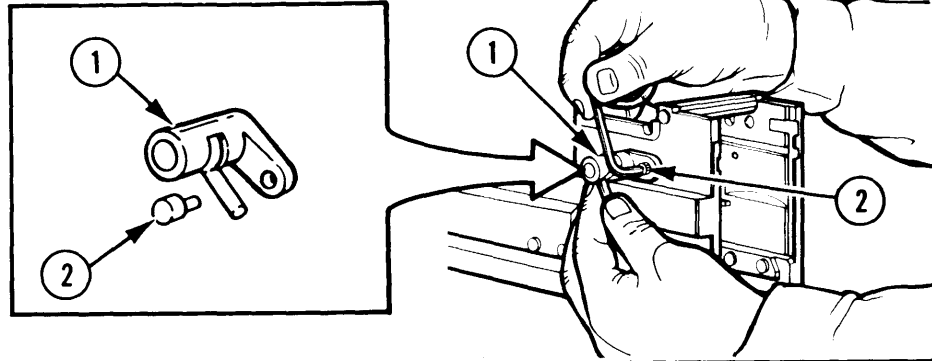
2 HEADLESS PIN (3). Install.

NOTE  
Be sure spring is in place before installing safety assembly.

### 3-25. SAFETY ASSEMBLY-MAINTENANCE INSTRUCTIONS. (cont)

#### INSTALLATION (cont)

- 1 SAFETY ASSEMBLY (1). Install.  
2 SCREW (2). Install.



### 3-26. RECEIVER ASSEMBLY-MAINTENANCE INSTRUCTIONS.

#### THIS TASK COVERS:

- a. Inspection
- b. Test for loose rivets
- c. Repair

#### INITIAL SETUP

##### Tools and Special Tools

Field maintenance, basic less power, small arms shop set (app B)  
Improvised riveting fixture (app E)

##### Materials/Parts

Crocus cloth (item 6, app D)

##### References

Appendix B  
Appendix D  
Appendix E  
TM 9-1005-231-10

##### Equipment Conditions

Receiver assembly disassembled (TM 9-1005-231-10)

## INSPECTION

### RECEIVER ASSEMBLY

- aa. Check receiver assembly for serviceability. Number of rounds fired is not to be used to justify rejection or serviceability.
- b. Check for missing rivets.
- c. Check to see that serial number is legible.
- d. Check grooves and sliding surfaces for burrs and wear.
- e. Check for loose rivets by using leaf-type feeler gage. (See following test.)

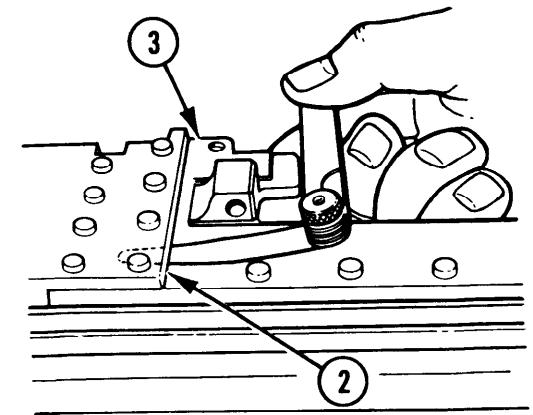
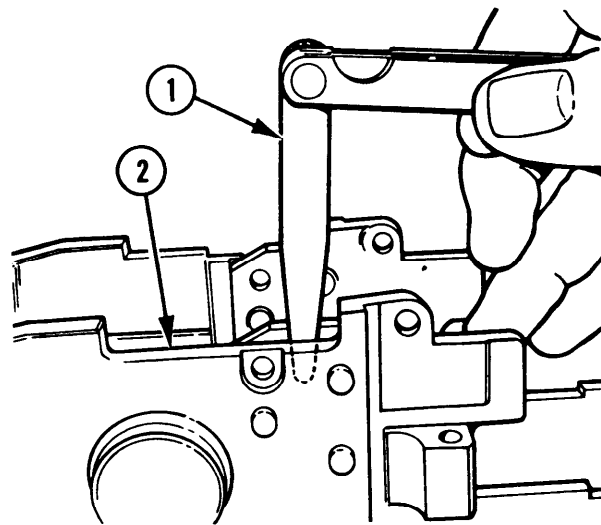
### TEST FOR LOOSE RIVETS

#### NOTE

The leaf-type feeler gage must be 0.005 inch (0.127 mm) thick. If it can be inserted to a depth of 1 inch (2.54 cm) at any point, the rivets should be tightened.

#### 1 LEAF-TYPE FEELER GAGE (1).

- a. Try inserting between upper barrel support (2) and sideplate (3).

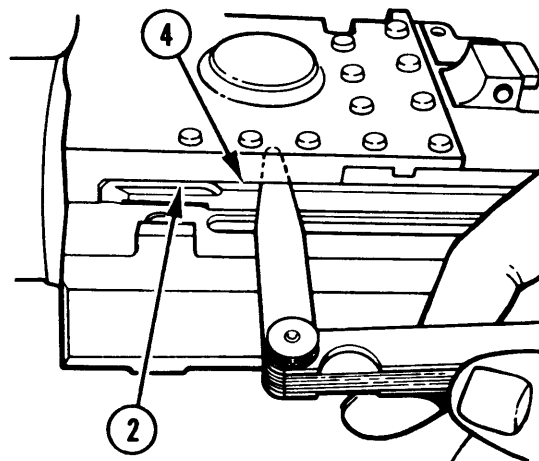


- b. Try inserting between rear end of barrel support (2) and sideplate (3).

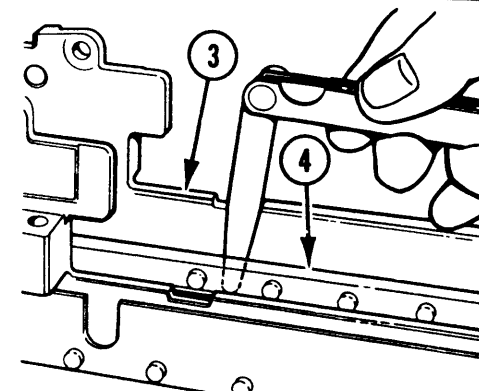
### 3-26. RECEIVER ASSEMBLY-MAINTENANCE INSTRUCTIONS. (cont)

#### TEST FOR LOOSE RIVETS (cont)

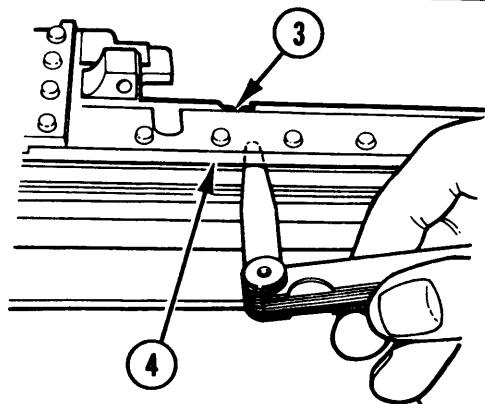
- c. Try inserting between lower end of barrel support (2) and receiver base (4).



- d. Try inserting between side-plate (3) and receiver base (4) from the top.

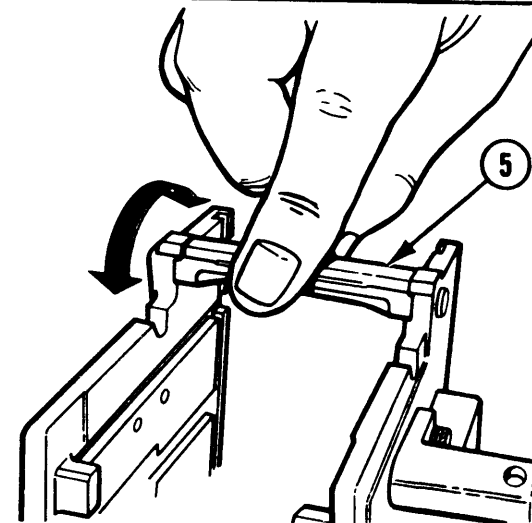


- e. Try inserting between sideplate (3) and receiver base (4) from the bottom.



#### 2 RECEIVER SPACER (5).

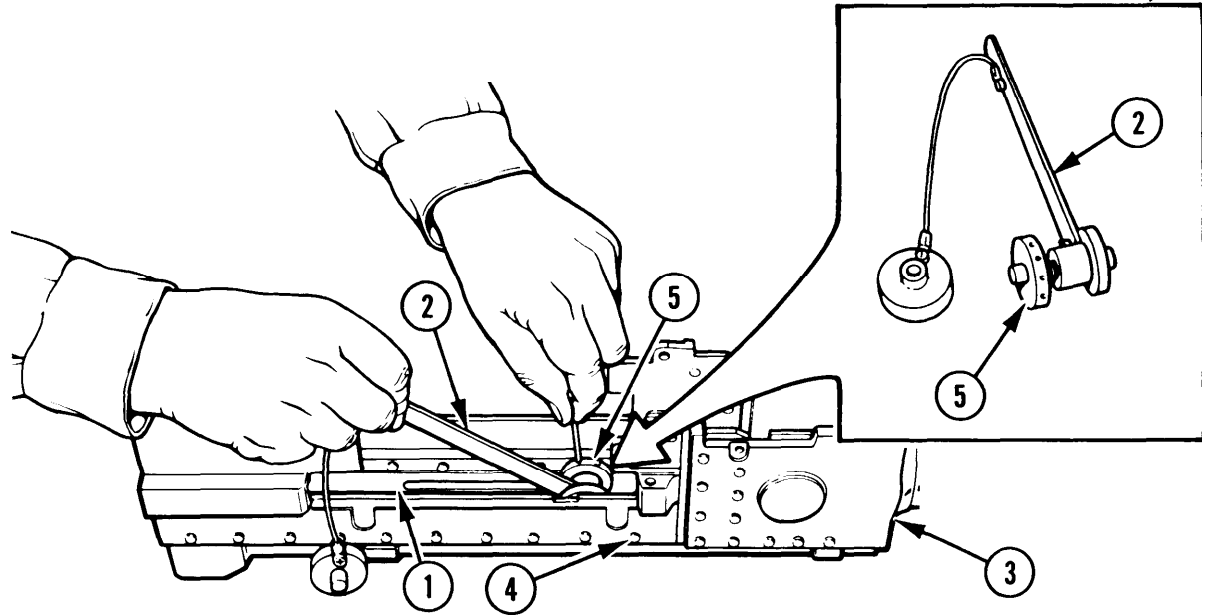
- Try rotating back and forth with finger movement.
- If loose, tighten it.



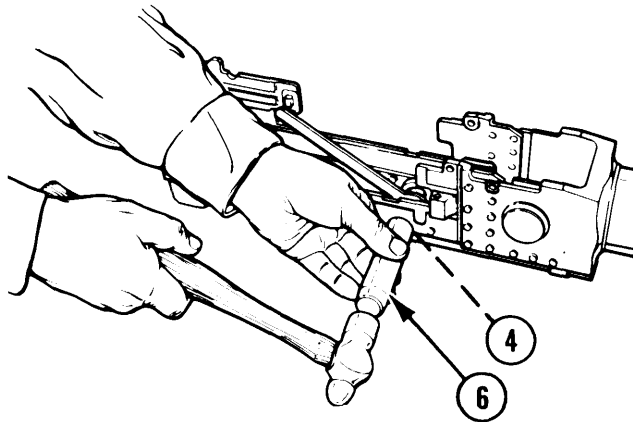


## REPAIR

- 1 RAILS (1). Remove burrs with crocus cloth (item 6, app D) or fine stone.
- 2 RIVETING FIXTURE (2). Position in base of receiver assembly (3); each end against a rivet (4).
  - a. Insert a 1/8-in. punch in hole on wheel (5) and unscrew until riveting fixture is secure against rivets.
  - b. Remove 1/8-in. punch.



- 3 PEENING TOOL (6). Position against rivet (4) and strike sharply with hammer until rivet is secure. Repeat steps 1 thru 3 for remaining loose rivets.



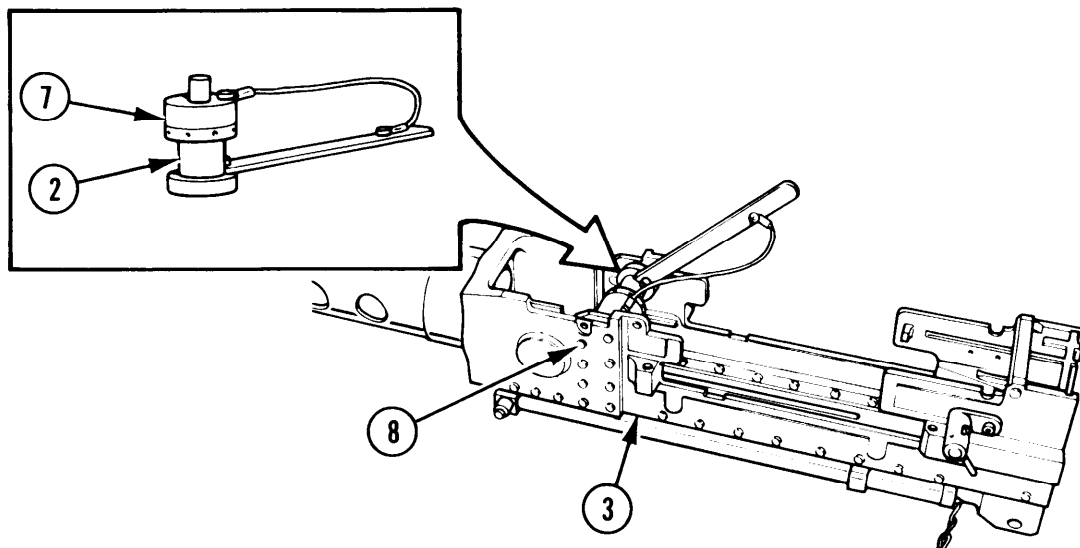
### NOTE

The following steps are for tightening vertical rivets in upper barrel support.

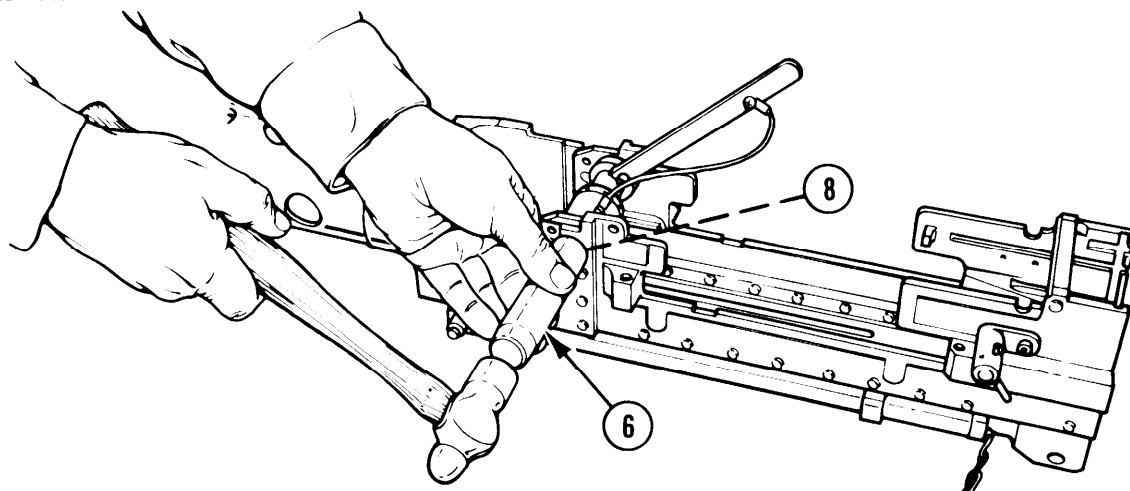
If rivets cannot be tightened and the leaf-type feeler gage can be installed to a depth of 1 inch (2.54 cm) at any point, the weapon should be turned in to depot maintenance for overhaul.

**3-26. RECEIVER ASSEMBLY-MAINTENANCE INSTRUCTIONS. (cont)****REPAIR (cont)**

- 4 RIVETING FIXTURE (2).** Attach extender (7) and position in upper barrel support of receiver assembly (3). Extend riveting fixture by unscrewing until each end is against a rivet (8).



- 5 PEENING TOOL (6).** Position against rivet (8) and strike sharply with hammer until rivet is secure. Repeat steps 4 and 5 for remaining vertical rivets.



### 3-27. FINAL INSPECTION.

#### THIS TASK COVERS:

- a. Barrel assembly test
- b. Adjustment of time delay mechanism
- c. Back plate assembly test
- d. Test for firing pin in bolt assembly
- e. Test for bolt locking space
- f. Final test and inspection

#### INITIAL SETUP

##### Tools and Special Tools

Field maintenance, basic less power, small arms shop set (app B)

Bolt locking space (feeler type) gage (app B)

Firing pin protrusion gage (app B)

##### References

TM 9-1005-231-10

##### Equipment Conditions

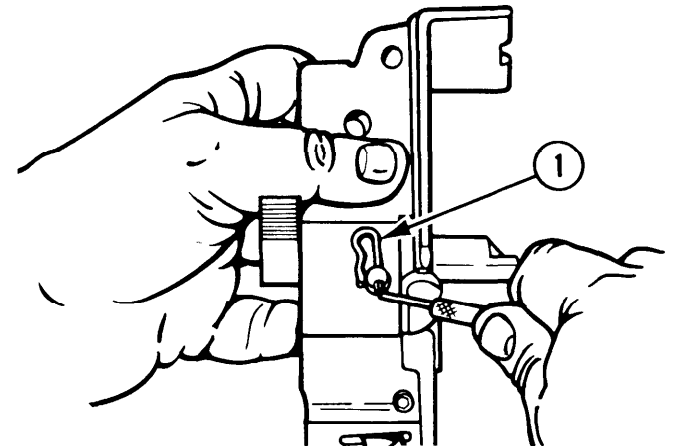
- 2-34 Back plate assembly removed
- 2-39 Barrel extension assembly removed
- 2-39 Bolt assembly removed
- 3-19 Solenoid removed
- 3-19 Trigger assembly removed
- 3-74 Trigger extension assembly removed

#### BARREL ASSEMBLY TEST

Erratic bullet patterns during test firing are cause for rejection of barrel assembly.

#### ADJUSTMENT OF TIME DELAY MECHANISM

- 1 LOCK PIN (1). Remove.

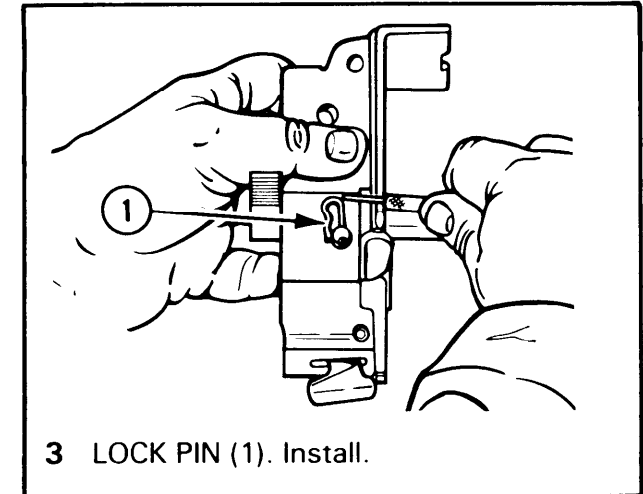
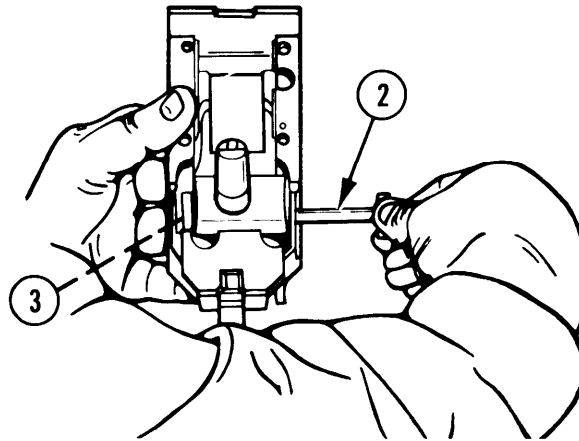


### 3-27. FINAL INSPECTION. (cont)

#### ADJUSTMENT OF TIME DELAY MECHANISM (cont)

##### 2 SHAFT (2).

- Back off until head of shaft is clear of stop surface.
- Rotate counterclockwise 1/2 turn to preload torsion spring (3).
- Push in until it seats and is retained in position by the stop surface on back plate.



#### BACK PLATE ASSEMBLY TEST

Install M85 machine gun on armored vehicle and connect solenoid. Turn on electrical power to gun and actuate solenoid.

##### NOTE

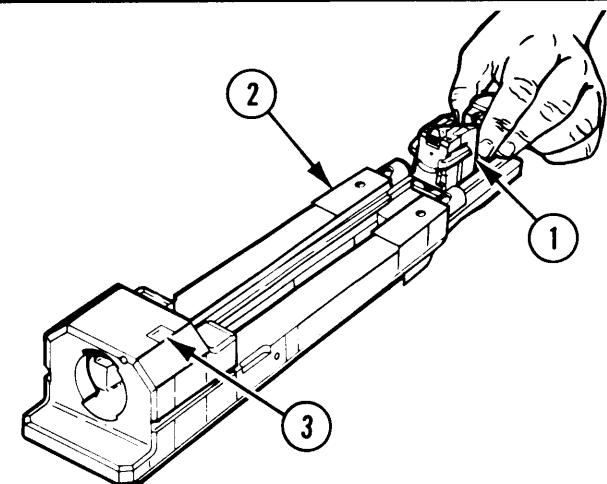
There should be a clicking noise as the solenoid actuates the striker.

#### TEST FOR FIRING PIN PROTRUSION IN BOLT ASSEMBLY

- BOLT ASSEMBLY (1). Install in barrel extension assembly (2).

##### NOTE

Be sure to release the interlock (3) so bolt assembly will be positioned fully forward within barrel extension assembly.



- 2 BOLT ASSEMBLY (1). Position forward in battery position.
- 3 BARREL EXTENSION ASSEMBLY (2). Raise to upright position, maintaining pressure on rear of bolt assembly (1), and hold securely in battery position.

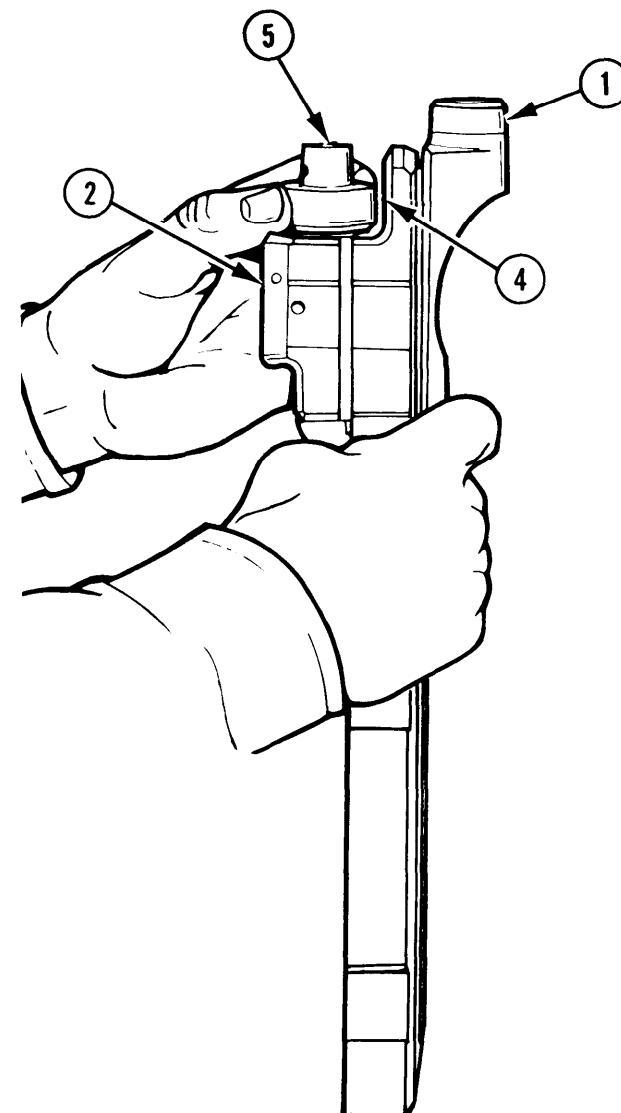
**NOTE**

The flush pin of the firing pin protrusion gage should be lined up vertically, over and in contact with the firing pin. Maximum measurement of firing pin protrusion gage is 0.043 inch (0.109 cm) and minimum is 0.022 inch (0.056 cm).

- 4 FIRING PIN PROTRUSION GAGE (4).
  - a. Insert into barrel socket of barrel extension assembly (2), making sure that it is fully seated.
  - b. Press down firmly on upper surface while maintaining pressure upward on rear of bolt assembly (1).

**NOTE**

Firing pin protrusion should be 0.023 to 0.043 inch (0.058 to 0.109 cm) when assembled with barrel extension assembly having mean stop and locking surfaces. The upper end of the flush pin (5) should be positioned above the lower step just below the upper step of the firing pin protrusion gage. Position of the flush pin can be determined either visually or by feeling. If end of flush pin remains below lower step, the firing pin protrusion is insufficient and could result in a failure to fire. If flush pin extends above upper step, firing pin protrusion is excessive and could result in pierced primers.

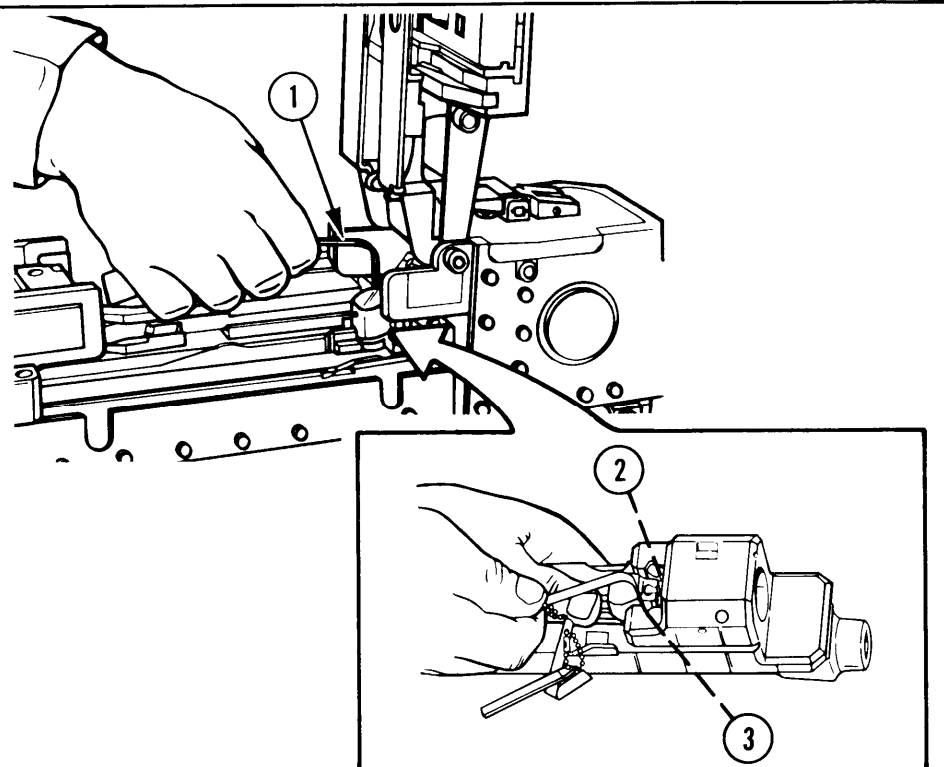


**3-27. FINAL INSPECTION.** (cont)**TEST FOR BOLT LOCKING SPACE****NOTE**

The feeler type gage to be used in the hands of troops is 0.034 inch (0.086 cm) and the feeler type gage to accompany troops overseas is 0.027 inch (0.069 cm).

FEELER TYPE GAGE (1). Attempt to insert appropriate leaf between rh and lh bolt locks (2 and 3) and barrel extension recesses.

- a. If it enters to a depth of less than 1 in. (2.54 cm), the spacing is acceptable.
- b. If it enters to a depth of more than 1 in. (2.54 cm), the spacing is too great and corrective action must be taken through selective replacement of authorized parts and/or assemblies. Components ordinarily subject to the most wear are (in order) the bolt locks, bolt block, and the barrel extension.

**FINAL TEST AND INSPECTION****NOTE**

Make sure weapon is not shiny and does not reflect light.

Refer to TM 9-1005-231-10 for safety/functional test.

## Section III. PREPARATION FOR STORAGE OR SHIPMENT

### **3-28. SECURITY.**

Security of the M85 machine gun is as defined in AR 190-11 and AR 190-13. Weapons will be stored in suitable containers to prevent theft, and as stated by the above security regulations. The storage area must be covered and as moisture-free as possible.

### **3-29. CLEANING AND PRESERVATION.**

a. Disassemble the M85 machine gun as necessary to accomplish cleaning and lubrication.

#### **CAUTION**

Avoid contaminating the solenoid, plain and buffer disks, and spring inserts with CLP (item 5, app D).

b. Clean all metallic surfaces of the M85 machine gun and Bll items with CLP (item 5, app D) and dry with clean, dry wiping rags (item 14, app D). Clean nonmetallic surfaces with clean, dry wiping rags.

c. Preserve all metallic surfaces with general purpose lubricating oil (item 12, app D).

d. Reassemble weapon except for barrel assembly.

### **3-30. UNIT PACK.**

a. Wrap the barrel assembly, rest of weapon, and Bll items with VCI treated material (item 13, app D) with the treated side next to weapon. Secure wrap with pressure sensitive tape (item 17, app D).

b. Place wrapped M85 machine gun and Bll items in fiberboard box (item 1, app D). Use cushioning material (item 7, app D) as required to immobilize items within container. Serial numbers must be listed on the packing list. Place packing list in fiberboard box. Secure fiberboard box with tape (item 18, app D).

### **3-31. PACKING AND MARKING.**

a. Apply the following markings on each fiberboard box:

NATIONAL STOCK NUMBER  
FEDERAL ITEM NAME  
1 EACH  
DATE (MONTH, YEAR)  
WEIGHT:            CUBE:

b. Place a quantity of packaged M85 machine guns into a wooden box (item 2 or 3, app D) according to the weight limitations of either wooden box used.

c. Use blocking as required to immobilize packaged M85 machine guns within wooden box.

d. Nail top to wooden box.

e. Secure wooden box with strapping (item 15, app D).

f. Apply only the following markings by stencil or label to exterior of wooden box.

ADDRESS OF DESTINATION  
WEIGHT AND CUBE

## **Section IV. PREEMBARKATION INSPECTION OF MATERIEL IN UNITS ALERTED FOR OVERSEAS MOVEMENT**

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### **3-32. PREEMBARKATION INSPECTION.**

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For preembarkation inspection of materiel in units alerted for overseas movement, refer to TB 9-1000-247-34.



# **CHAPTER 4**

## **GENERAL SUPPORT MAINTENANCE INSTRUCTIONS**

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**There are no general support maintenance procedures at this time.**



# APPENDIX A

## REFERENCES

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### A-1. TECHNICAL MANUALS (TM).

Ammunition and Explosives Standards. . . . . TM 9-1300-206  
Direct Support and General Support  
Maintenance Manual: Kits, Barrel  
Erosion Gage, M8 and M6A1. . . . . TM 9-4933-208-34  
Operator's Manual, Machine Gun, Caliber  
.50, Fixed, M85 . . . . . TM 9-1005-231-10  
Procedures for Destruction of Equipment in  
Federal Supply Classifications 1000, 1005,  
1010, 1015, 1020, 1025, 1030, 1055,  
1090 and 1095 to Prevent Enemy Use . . . . . TM 750-244-7

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### A-2. DEPARTMENT OF THE ARMY (DA) FORMS.

Equipment Inspection and Maintenance  
Worksheet . . . . . DA Form 2404  
Recommended Changes to Equipment  
Technical Publications . . . . . DA Form 2028-2  
Recommended Changes to Publications and  
Blank Forms . . . . . DA Form 2028

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### A-3. SUPPLY CATALOGS (SC).

Shop Set, Small Arms: Field Maintenance  
Post, Camp and Station. . . . . SC 4933-95-CL-A11  
Shop Set, Small Arms: Field Maintenance  
Post, Camp and Station, Set D . . . . . SC 4933-95-CL-A04  
Tool Kit, Small Arms Repairman . . . . . SC 5180-95-CL-A07

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### A-4. ARMY REGULATIONS (AR).

The Army Physical Security Program . . . . . AR 190-13  
Physical Security of Arms, Ammunition  
and Explosives . . . . . AR 190-11

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### A-5. STANDARD FORMS (SF).

Quality Deficiency Report . . . . . SF 368  
Report of Discrepancy (ROD) . . . . . SF 364

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### A-6. MISCELLANEOUS PUBLICATIONS.

The Army Maintenance Management  
System (TAMMS) . . . . . DA PAM 738-750  
Army Medical Department Expendable/  
Durable Items . . . . . CTA8-100  
Expendable/Durable Items (Except Medical,  
Class V, Repair Parts and Heraldic  
Items) . . . . . CTA 50-970  
Federal Supply Code for Manufacturers  
(excluding United States and Canada)  
Name to Code/Code to Name . . . . . SB 708-42  
First Aid for Soldiers. . . . . FM 21-11 (TEST)  
Standards for Overseas Shipment or Domestic  
Issue of Small Arms, Aircraft Armament,  
Towed Howitzers, Mortars, Recoilless  
Rifles, Rocket Launchers and Associated  
Fire Control Equipment . . . . . TB 9-1000-247-34



# APPENDIX B

## MAINTENANCE ALLOCATION CHART

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### Section I. INTRODUCTION

#### **B-1. GENERAL.**

a. This section provides a general explanation of all maintenance and repair functions authorized at various maintenance categories.

b. The Maintenance Allocation Chart (MAC) in section II designates overall authority and responsibility for the performance of maintenance functions on the identified end item or component. The application of maintenance functions to the end item or component will be consistent with the capacities and capabilities of the designated maintenance categories.

c. Section III lists the tools and test equipment (both special tools and common tool sets) required for each maintenance function as referenced from section II.

d. Section IV contains supplemental instructions and explanatory notes for a particular maintenance function.

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<sup>1</sup>Exception is authorized for ammunition MAC to permit the redesignation/redefinition of maintenance function headings to more adequately identify ammunition maintenance functions. The heading designations and definitions will be included in the appropriate technical manual for each category of ammunition.

#### **B-2. MAINTENANCE FUNCTIONS.**

Maintenance functions will be limited to and defined as follows: (except for ammunition MAC<sup>1</sup>)

**a. Inspect.** To determine the serviceability of an item by comparing its physical, mechanical, and/or electrical characteristics with established standards through examination (e.g., by sight, sound, or feel).

**b. Test.** To verify serviceability by measuring the mechanical, pneumatic, hydraulic, or electrical characteristics of an item and comparing those characteristics with prescribed standards.

**c. Service.** Operations required periodically to keep an item in proper operating condition, i.e., to clean (includes decontaminate, when required), to preserve, to drain, to paint, or to replenish fuel, lubricants, chemical fluids, or gases.

**d. Adjust.** To maintain or regulate, within prescribed limits, by bringing into proper or exact position, or by setting the operating characteristics to specified parameters.

**e. Aline.** To adjust specified variable elements of an item to bring about optimum or desired performance.

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## B-2. MAINTENANCE FUNCTIONS (cont)

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**f. Calibrate.** To determine and cause corrections to be made or to be adjusted on instruments or test, measuring, and diagnostic equipments used in precision measurement. Consists of comparisons of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.

**g. Remove/Install.** To remove and install the same item when required to perform service or other maintenance functions. Install may be the act of emplacing, seating, or fixing into position a spare, repair part, or module (component or assembly) in a manner to allow the proper functioning of an equipment or system.

**h. Replace.** To remove an unserviceable item and install a serviceable counterpart in its place. "Replace" is authorized by the MAC and is shown as the 3d position code of the SMR code.

**i. Repair.** The application of maintenance services<sup>2</sup>, including fault location/troubleshooting<sup>3</sup>, removal/installation, and disassembly/assembly<sup>4</sup> procedures, and maintenance

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<sup>2</sup>Services—inspect, test, service, adjust, align, calibrate, and/or replace.

<sup>3</sup>Fault locate/troubleshoot—The process of investigating and detecting the cause of equipment malfunctioning; the act of isolating a fault within a system or unit under test (UUT).

<sup>4</sup>Disassemble/assemble—Encompasses the step-by-step taking apart (or breakdown) of a spare/functional group coded item to the level of its least component identified as maintenance significant (i. e., assigned an SMR code) for the category of maintenance under consideration.

<sup>5</sup>Actions—Welding, grinding, riveting, straightening, facing, remachining, and/or resurfacing.

actions<sup>5</sup> to identify troubles and restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), end item, or system.

**j. Overhaul.** That maintenance effort (service/action) prescribed to restore an item to a completely serviceable/operational condition as required by maintenance standards in appropriate technical publications (i.e., DMWR). Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.

**k. Rebuild.** Consists of those services/actions necessary for the restoration of unserviceable equipment to a like new condition in accordance with original manufacturing standards. Rebuild is the highest degree of materiel maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (hours/miles, etc. ) considered in classifying Army equipment/components.

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## B-3. EXPLANATION OF COLUMNS IN THE MAC, SECTION II.

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**a. Column 1, Group Number.** Column 1 lists functional group code numbers, the purpose of which is to identify maintenance significant components, assemblies, subassemblies, and modules with the next higher assembly. End item group number shall be "OO."

**b. Column 2, Component/Assembly.** Column 2 contains the names of components, assemblies, subassemblies, and modules for which maintenance is authorized.

**c. Column 3, Maintenance Function.** Column 3 lists the functions to be performed on the item listed in column 2. (For detailed explanation of these functions, see paragraph B-2.)

**d. Column 4, Maintenance Category.** Column 4 specifies, by the listing of a work time figure in the appropriate subcolumn(s), the category of maintenance authorized to perform the function listed in column 3. This figure represents the active time required to perform that maintenance function at the indicated category of maintenance. If the number or complexity of the tasks within the listed maintenance function vary at different maintenance categories, appropriate work time figures will be shown for each category. The work time figure represents the average time required to restore an item (assembly, subassembly, component, module, end item, or system) to a serviceable condition under typical field operating conditions. This time includes preparation time (including any necessary disassembly/assembly time), troubleshooting/fault location time, and quality assurance/quality control time in addition to the time required to perform the specific tasks identified for the maintenance functions authorized in the maintenance allocation chart. The symbol designations for the various maintenance categories are as follows:

C . . . . . Operator or Crew  
 O . . . . . Organizational Maintenance  
 F . . . . . Direct Support Maintenance  
 H . . . . . General Support Maintenance  
 L . . . . . Specialized Repair Activity (SRA)<sup>6</sup>  
 D . . . . . Depot Maintenance

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<sup>6</sup>This maintenance category is not included in section II, column (4) of the maintenance allocation chart. To identify functions to this category of maintenance, enter a work time figure in the "H" column of section II, column (4), and use an associated reference code in the remarks column (6). Key the code to section IV, Remarks, and explain the SRA complete repair application there. The explanatory remark(s) shall reference the specific repair parts and special tools list (RPSTL) TM which contains additional SRA criteria and the authorized spare/repair parts.

**e. Column 5, Tools and Equipment.** Column 5 specifies, by code, those common tool sets (not individual tools) and special tools, TM DE, and support equipment required to perform the designated function.

**f. Column 6, Remarks.** This column shall, when applicable, contain a letter code, in alphabetic order, which shall be keyed to the remarks contained in section IV.

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**B-4. EXPLANATION OF COLUMNS IN TOOL AND TEST EQUIPMENT REQUIREMENTS, SECTION III.**

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**a. Column 1, Reference Code.** The tool and test equipment reference code correlates with a code used in the MAC, section II, column 5.

**b. Column 2, Maintenance Category.** The lowest category of maintenance authorized to use the tool or test equipment.

**c. Column 3, Nomenclature.** Name or identification of the tool or test equipment.

**d. Column 4, National Stock Number.** The National stock number of the tool or test equipment.

**e. Column 5, Tool Number.** The manufacturer's part number.

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**B-5. EXPLANATION OF COLUMNS IN REMARKS, SECTION IV.**

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**a. Column 1, Reference code.** The code recorded in column 6, section II.

**b. Column 2, Remarks.** This column lists information pertinent to the maintenance function being performed as indicated in the MAC, section II.

**Section II. MAINTENANCE ALLOCATION CHART  
FOR  
M85 MACHINE GUN**

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE CATEGORY					(5) TOOLS AND EQPT	(6) REMARKS
			C	O	F	H	D		
00 (12002938)	MACHINE GUN, M85	Inspect Test Service Repair	0.1  0.2	0.2  0.3 0.3	0.2 0.3 0.5			15.0	1, 2
01 (8448439)	GUN BARREL ASSEMBLY	Inspect Test Replace Repair	0.1	0.1	0.1 0.1 0.1				3 2 1
02 (7793072)	PLATE ASSEMBLY, BACK	Inspect Test Replace Repair	0.1	0.1	0.1 0.3 0.1 0.5				2, 4 1, 2, 4
0201 (7791361)	STRIKER ASSEMBLY	Inspect Replace Repair		0.1	0.3 0.3				2, 4 2, 4
0202 (11010179)	TRIGGER ASSEMBLY, SOLENOID ACTUATING	Inspect Replace Repair		0.1	0.1 0.1 0.1				2, 4 2, 4
03 (7793208)	SEAR ASSEMBLY	Inspect Replace Repair		0.1	0.1 0.1 0.5				2 2



04 (7793095)	FEED AND EJECTOR ASSEMBLY	Inspect Replace Repair		0.2 0.1	0.1 0.1 0.2			2 1, 2
0401 (7793098)	ACTUATOR, FEED ASSEMBLY	Inspect Replace Repair			0.1 0.2 0.2			2, 4 2, 4
05 (7791384)	BOLT ASSEMBLY	Inspect Test Replace Repair		0.1 0.3 0.3	0.1 0.3 0.1 0.5			5, 6 2 1, 2
06 (7791369)	EXTENSION ASSEMBLY, BARREL	Inspect Test Replace Repair		0.1	0.1 0.2 0.1 0.5			2 2
0601 (7793129)	ROD ASSEMBLY, RETURN	Inspect Replace Repair			0.1 0.1 0.5			2 2
0602 (7791371)	EXTENSION SUB- ASSEMBLY, BARREL	Inspect Replace Repair			0.1 0.1 0.5			2 2
07 (7793227)	COVER ASSEMBLY	Inspect Replace Repair	0.1	0.2 0.2	0.1 0.1 0.5			2, 4 1, 2, 4
0701 (7793110)	SLIDE ASSEMBLY, FEED	Inspect Replace Repair			0.1 0.1 0.5			2, 4 2, 4
0702 (7793221)	HOUSING ASSEMBLY, FEED RETURN	Inspect Replace Repair			0.1 0.1 0.3			2 2
08 (7793050)	TRAY ASSEMBLY, FEED	Inspect Replace Repair	0.1	0.1	0.1 0.1 0.1			2, 4 2, 4

**MAINTENANCE ALLOCATION CHART  
FOR  
M85 MACHINE GUN (cont)**

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE CATEGORY					(5) TOOLS AND EQPT	(6) REMARKS
			C	O	F	H	D		
0801 (11010134)	GUIDE ASSEMBLY, LINK TRAY	Inspect Replace Repair	0.1	0.1	0.1 0.1 0.1			2 2	
09 (7790980)	ACCELERATOR ASSEMBLY	Inspect Replace Repair		0.1	0.1 0.1 0.5			2 2	
0901 (7790984)	LATCH ASSEMBLY, BARREL	Inspect Replace Repair		0.1	0.2 0.5			2 2	
10 (12006363)	EXTENSION ASSEMBLY, TRIGGER	Inspect Replace Repair			0.1 0.1 0.1			2 2	
11 (11686374)	CHARGER ASSEMBLY, HAND	Inspect Replace Repair	0.1	0.1	0.1 0.1 0.3			2 2	
12 (7793258)	SAFETY ASSEMBLY	Inspect Replace Repair	0.1	0.1	0.1 0.2 0.2			2 2	
13 (7793062)	RECEIVER ASSEMBLY	Inspect Repair		0.2	0.1 0.5		2.0	2 2	A, B B

## SECTION III

SECTION III TOOLS AND TEST EQUIPMENT REQUIREMENTS  
FOR  
M85 MACHINE GUN

TOOL OR TEST EQUIPMENT REF CODE	MAINTENANCE CATEGORY	NOMENCLATURE	NATIONAL/ NATO STOCK NUMBER	TOOL NUMBER
1	O	TOOL KIT, SMALL ARMS REPAIR MAN	5180-00-357-7770	SC 5180-95-CL-A07
2	F	SHOP SET, SMALL ARMS: FIELD MAINTENANCE, BASIC LESS POWER	4933-00-754-0664	SC 4933-95-CL-A11
3	F	GAGE KIT, SMALL ARMS BARREL EROSION GAGE, M6A1		5910287
4	F	SHOP SETS, SMALL ARMS: FIELD MAINTENANCE, POST, CAMP, AND STATION, SET D	4933-00-348-7396	SC 4933-95-CL-A04
5	F	GAGE, FIRING PIN PROTRUSION	4933-00-078-3770	7799730
6	F	GAGE, BOLT LOCKING SPACER (FEELER TYPE)	4933-00-986-3159	7799708

**Section IV. REMARKS**

<b>REFERENCE CODE</b>	<b>REMARKS</b>
A	The "A" in the fifth position of the SMR code indicates special handling. The item meets security requirements and is serialized for accountability purposes.
B	For improvised riveting fixture, see appendix E.

# APPENDIX C

## ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST (INCLUDING DEPOT MAINTENANCE REPAIR PARTS)

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### Section I INTRODUCTION

#### C-1. SCOPE.

This appendix lists spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE); and other special support equipment required for performance of organizational, direct support, general support, and depot maintenance of the M85 machine gun. It authorizes the requisitioning and issue of spares and repair parts as indicated by the source and maintenance codes.

#### C-2. GENERAL.

This repair parts and special tools list is divided into the following sections:

**a. Section II. Repair Parts List.** A list of spares and repair parts authorized for use in the performance of maintenance.

The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in numeric sequence, with the parts in each group listed in figure and item number sequence. Bulk materials are listed in NSN sequence.

**b. Section III. Special Tools List.** A list of special tools, special TMDE, and other special support equipment authorized for the performance of maintenance.

**c. Section IV. National Stock Number and Part Number Index.** A list, in National item identification number (NIIN) sequence, of all National stock numbers (NSN) appearing in the listings, followed by a list in alphameric sequence of all part numbers appearing in the listings. National stock numbers and part numbers are cross-referenced to each illustration figure and item number appearance. This index is followed by a cross-reference list of reference designators to figure and item numbers.

### **C-3. EXPLANATION OF COLUMNS.**

**a. Illustration.** This column is divided as follows:

(1) **Figure Number.** Indicates the figure number of the illustration on which the item is shown.

(2) **Item Number.** The number used to identify item called out in the illustration.

**b. Source, Maintenance, and Recoverability (SMR) Codes.**

(1) **Source Code.** Source codes indicate the manner of acquiring support items for maintenance, repair, or overhaul of end items. Source codes are entered in the first and second positions of the Uniform SMR Code format as follows:

Code	Definition
PA . . . . .	Item procured and stocked for anticipated or known usage.
PB . . . . .	Item procured and stocked for insurance purpose because essentiality dictates that a minimum quantity be available in the supply system.
PC . . . . .	Item procured and stocked and which otherwise would be coded PA except that it is deteriorative in nature.
PD . . . . .	Support item, excluding support equipment, procured for initial issue or outfitting and stocked only for subsequent or additional initial issues or outfitting. Not subject to automatic replenishment.
PE . . . . .	Support equipment procured and stocked for initial issue or outfitting to specified maintenance repair activities.

Code	Definition
PF . . . . .	Support equipment which will not be stocked but which will be centrally procured on demand.
PG . . . . .	Item procured and stocked to provide for sustained support for the life of the equipment. It is applied to an item peculiar to the equipment which, because of probable discontinuance or shutdown of production facilities, would prove uneconomical to reproduce at a later time.
KD . . . . .	An item of a depot overhaul/repair kit and not purchased separately. Depot kit defined as a kit that provides items required at the time of overhaul or repair.
KF . . . . .	An item of a maintenance kit and not purchased separately. Maintenance kit defined as a kit that provides an item that can be replaced at organizational or intermediate levels of maintenance.
KB . . . . .	Item included in both a depot overhaul/repair kit and a maintenance kit.
MO . . . . .	Item to be manufactured or fabricated at organizational level.
MF . . . . .	Item to be manufactured or fabricated at the direct support maintenance level.
MH . . . . .	Item to be manufactured or fabricated at the general support maintenance level.
MD . . . . .	Item to be manufactured or fabricated at the depot maintenance level.

<b>Code</b>	<b>Definition</b>
AO . . . . .	Item to be assembled at organizational level.
AF . . . . .	Item to be assembled at direct support maintenance level.
AH . . . . .	Item to be assembled at general support maintenance level.
AD . . . . .	Item to be assembled at depot maintenance level.
XA . . . . .	Item is not procured or stocked because the requirements for the item will result in the replacement of the next higher assembly.
XB . . . . .	Item is not procured or stocked. If not available through salvage, requisition.
XC . . . . .	Installation drawing, diagram, instruction sheet, field service drawing, that is identified by manufacturer's part number.
XD . . . . .	A support item that is not stocked. When required, item will be procured through normal supply channels.

**NOTE**

Cannibalization or salvage may be used as a source of supply for any items coded above except those coded XA.

(2) Maintenance Code. Maintenance codes are assigned to indicate the levels of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the Uniform SMR Code format as follows:

(a) The maintenance code entered in the third position will indicate the lowest maintenance level authorized to remove, replace, and use the support item. The maintenance

code entered in the third position will indicate one of the following levels of maintenance:

<b>Code</b>	<b>Application/Explanation</b>
C . . . . .	Crew or operator maintenance performed within organizational maintenance.
O . . . . .	Support item is removed, replaced, used at the organizational level.
F . . . . .	Support item is removed, replaced, used at the direct support level.
H . . . . .	Support item is removed, replaced, used at the general support level.
D . . . . .	Support items that are removed, replaced, used at depot, mobile depot, or specialized repair activity only.

(b) The maintenance code entered in the fourth position indicates whether the item is to be repaired and identifies the lowest maintenance level with the capability to perform complete repair (i.e., all authorized maintenance functions). This position will contain one of the following maintenance codes:

<b>Code</b>	<b>Application/Explanation</b>
O . . . . .	The lowest maintenance level capable of complete repair of the support item is the organizational level.
F . . . . .	The lowest maintenance level capable of complete repair of the support item is the direct support level.

**C-3. EXPLANATION OF COLUMNS. (cont)**

<b>Code</b>	<b>Application/Explanation</b>
H . . . . .	The lowest maintenance level capable of complete repair of the support item is the general support level.
D . . . . .	The lowest maintenance level capable of complete repair of the support item is the depot level.
L . . . . .	Repair restricted to the applicable designated specialized repair activity.
Z . . . . .	Nonreparable. No repair is authorized.
B . . . . .	No repair is authorized. The item may be reconditioned by adjusting, lubricating, etc., at the user level. No parts or special tools are procured for the maintenance of this item.

(3) Recoverability Code. Recoverability codes are assigned to support items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the Uniform SMR Code format as follows:

<b>Recoverability Codes</b>	<b>Definition</b>
Z . . . . .	Nonreparable item. When unserviceable, condemn and dispose at the level indicated in position 3.
0 . . . . .	Reparable item. When uneconomically repairable, condemn and dispose at organizational level.
F . . . . .	Reparable item. When uneconomically repairable, condemn and dispose at the direct support level.

**Recoverability Codes****Definition**

H . . . . .	Reparable item. When uneconomically repairable, condemn and dispose at the general support level.
D . . . . .	Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal not authorized below depot level.
L . . . . .	Reparable item. Repair, condemnation, and disposal not authorized below depot/specialized repair activity level.
A . . . . .	Item requires special handling or condemnation procedures because of specific reasons (i. e., precious metal content, high dollar value, critical material, or hazardous material). Refer to appropriate manuals/directives for specific instructions.

**c. National Stock Number.** Indicates the National stock number assigned to the item and which will be used for requisitioning.

**d. Federal Supply Code for Manufacturer (FSCM).** The FSCM is a 5-digit numeric code listed in SB 708-42 which is used to identify the manufacture, distributor, or Government agency, etc.

**e. Part Number.** Indicates the primary number used by the manufacturer (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items.

**NOTE**

When a stock numbered item is requisitioned, the item received may have a different part number than the part being replaced.



**f. Description.** Indicates the Federal item name and, if required, a minimum description to identify the item. The physical security classification of the item is indicated by the parenthetical entry of the applicable physical security classification abbreviation, e.g., Phy Sec Cl (C) - Confidential, Phy Sec Cl (S) - Secret, Phy Sec Cl (T) - Top Secret. Items that are included in kits and sets are listed below the name of the kit or set with the quantity of each item and the kit or set indicated in the quantity incorporated in unit column. When the part to be used differs between serial numbers of the same model, the effective serial numbers are shown as the last line of the description. In the special tools list, the initial basis of issue (BOI) appears as the last line in the entry for each special tool, special TMDE, and other special support equipment. When density of equipments supported exceeds density spread indicated in the basis of issue, the total authorization is increased accordingly.

**g. Unit of Measure (UM).** Indicates the standard of the basic quantity of the listed item as used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in., pr, etc). When the unit of measure differs from the unit of issue, the lowest unit of issue that will satisfy the required units of measure will be requisitioned.

**h. Quantity Incorporated in Unit.** Indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly. A "V" appearing in this column in lieu of a quantity indicates that no specific quantity is applicable (e.g., shims, spacers, etc).

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#### **C-4. SPECIAL INFORMATION.**

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a. Detailed manufacturing instructions for items source coded to be manufactured or fabricated are found in appendix E of this manual.

b. Detailed assembly instructions for items source coded to be assembled are found in the applicable maintenance paragraphs of this manual.

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#### **C-5. HOW TO LOCATE REPAIR PARTS.**

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a. When National Stock Number or Part Number is Unknown:

(1) First. Using the table of contents, determine the functional group or subgroup within which the item belongs. This is necessary since illustrations are prepared for functional groups or subgroups and listings are divided into the same groups.

(2) Second. Find the illustration covering the functional group or subgroup to which the item belongs.

(3) Third. Identify the item on the illustration and note the illustration figure and item number of the item.

(4) Fourth. Using the repair parts list, find the figure and item number noted on the illustration.

b. When National Stock Number or Part Number is Known:

(1) First. Using the Index of National Stock Numbers and Part Numbers, find the pertinent National stock number or part number. This index is in NIIN sequence followed by a list of part numbers in alphameric sequence, cross-referenced to the illustration figure number and item number.

(2) Second. After finding the figure and item number, locate the figure and item number in the repair parts list.

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#### **C-6. ABBREVIATIONS.**

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Not applicable.

## Section II. REPAIR PARTS LIST

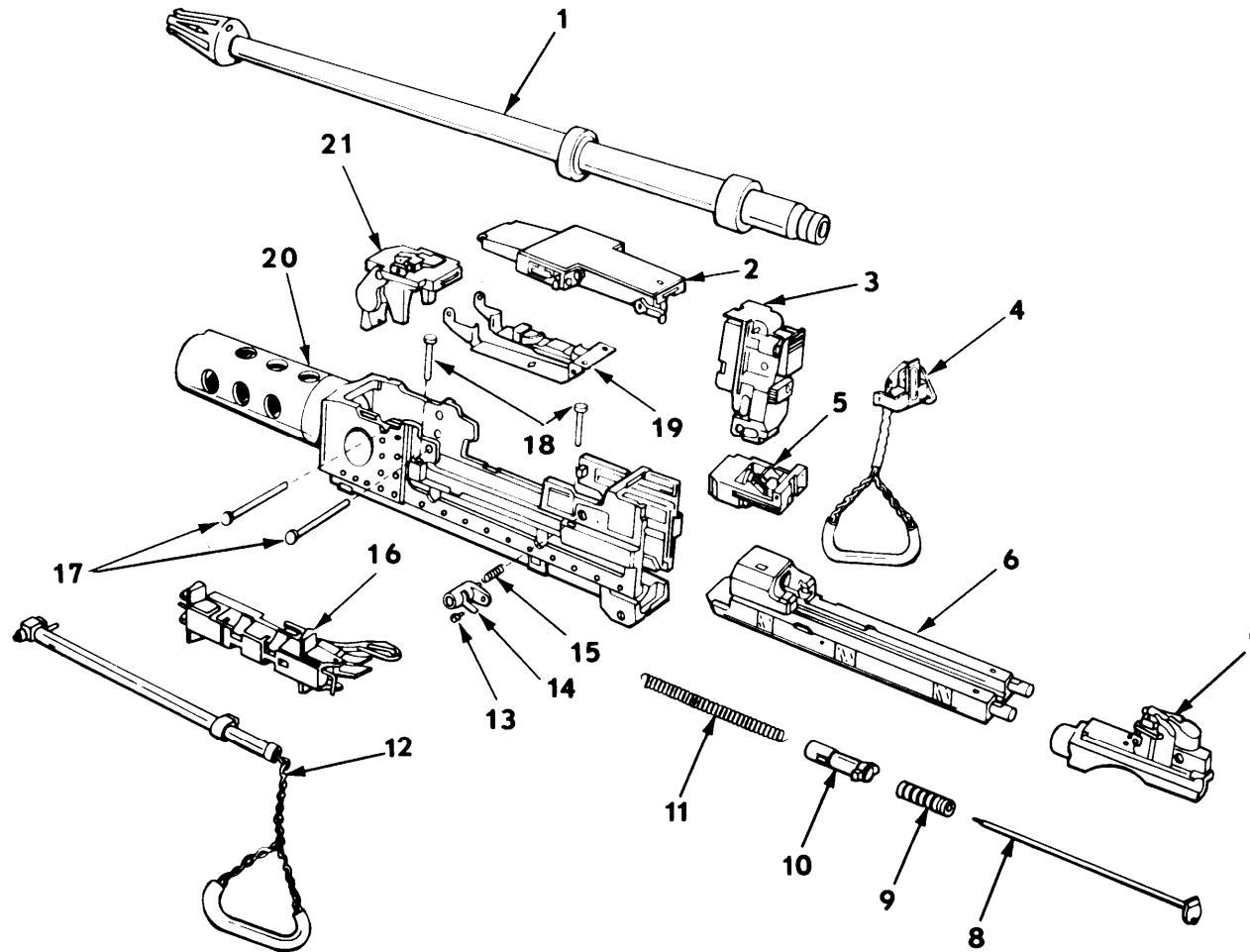


Figure C-1. Machine gun, caliber .50: fixed, M85 12002938.

(1) ILLUSTRATION (a) FIG NO	(b) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) FSCM	(5) PART NUMBER	TM9-1005-231-24&P (6) DESCRIPTION  USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 00 MACHINE GUN, CALIBER .50: FIXED, M85 12002938		
C-1	1	PAFFF	1005-00-463-4616	19204	8448439	BARREL ASSEMBLY, GUN (SEE GROUP 01)	EA	1
C-1	2	AFFFF		19204	7793227	COVER ASSEMBLY (SEE GROUP 07)	EA	1
C-1	3	AFFFF		19204	7793072	PLATE ASSEMBLY, BACK (SEE GROUP 02)	EA	1
C-1	4	AFFFF		19204	12006363	EXTENSION ASSEMBLY, TRIGGER (SEE GROUP 10)	EA	1
C-1	5	AFFFF		19204	7793208	SEAR ASSEMBLY (SEE GROUP 03)	EA	1
C-1	6	AFFFF		19204	7791369	EXTENSION ASSEMBLY, BARREL (SEE GROUP 06)	EA	1
C-1	7	AFFFF		19204	7791384	BOLT ASSEMBLY (SEE GROUP 05)	EA	1
C-1	8	PAOZZ	1005-00-973-1244	19204	7791467	ROD, GUIDE	EA	1
C-1	9	PAOZZ	5360-00-897-4695	19205	7790739	SPRING, HELICAL, COMPRESSION	EA	1
C-1	10	PAOZZ	1005-00-897-4702	19204	7791185	SLEEVE, BUFFER	EA	1
C-1	11	PAOZZ	5360-00-870-2116	19205	7791254	SPRING, HELICAL, COMPRESSION	EA	1
C-1	12	AFFFF		19204	11686374	CHARGER ASSEMBLY, HAND (SEE GROUP 11)	EA	1
C-1	13	PAFZZ	5305-00-849-1362	19205	7793257	SCREW, SELF-LOCKING	EA	1
C-1	14	PAFFF	1005-00-786-2937	19205	7793258	SAFETY ASSEMBLY (SEE GROUP 12)	EA	1
C-1	15	PAFZZ	5360-00-711-1775	19205	7793047	SPRING, HELICAL, COMPRESSION	EA	1
C-1	16	AFFFF		19204	7793095	FEED AND EJECTOR ASSEMBLY (SEE GROUP 04)	EA	1
C-1	17	PAOZZ	5340-00-768-8576	19207	7793046	PIN, QUICK RELEASE	EA	2
C-1	18	PAOZZ	5340-00-768-8575	19205	7793045	PIN, QUICK RELEASE	EA	2



(1) ILLUSTRATION (a) FIG NO	(2) (b) ITEM NO	(3) SMR CODE	(4) NATIONAL STOCK NUMBER	(5) PART NUMBER	(6) DESCRIPTION	(7) USABLE ON CODE	(8) QTY INC IN UNIT
C-1	19	AFFFF	19204	7793050	TRAY ASSEMBLY, FEED (SEE GROUP 08)	EA	1
C-1	20	XAFDA	19204	7793062	RECEIVER ASSEMBLY (SEE GROUP 13)	EA	1
C-1	21	AFFFF	19204	7790980	ACCELERATOR ASSEMBLY (SEE GROUP 09)	EA	1

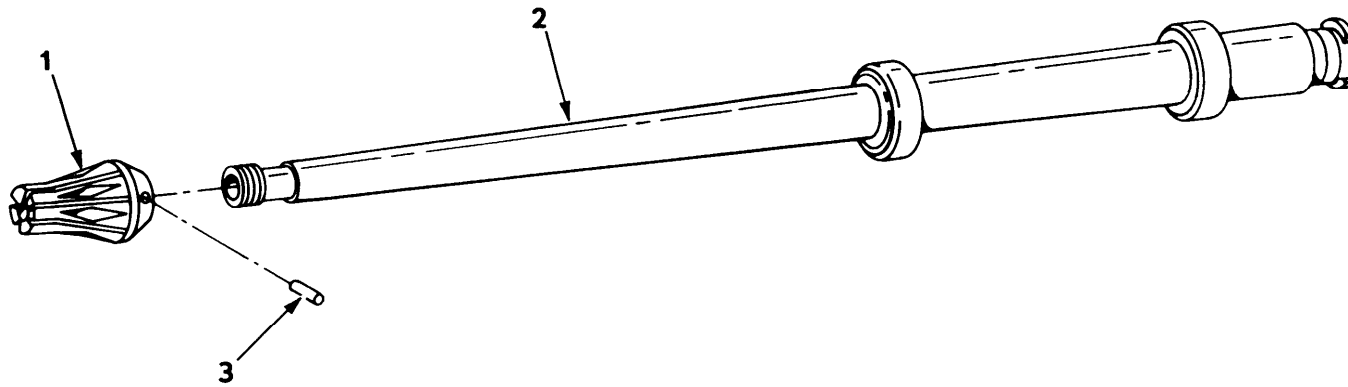


Figure C-2. Barrel assembly, gun 8448439.

(1) ILLUSTRATION (a) FIG NO	(2) (b) ITEM NO	(3) SMR CODE	(4) NATIONAL STOCK NUMBER	(5) FSCM	(6) PART NUMBER	(7) DESCRIPTION USABLE ON CODE	(8) QTY INC IN UNIT
GROUP 01 BARREL ASSEMBLY, GUN 8448439							
C-2	1	PAFZZ	1005-00-123-0466	19204	7793165	SUPPRESSOR, FLASH	EA 1
C-2	2	XAFZZ		19204	8448438	BARREL	EA 1
C-2	3	PAFZZ	5315-01-172-7132	96906	MS39086-98	PIN, SPRING TUBULAR	EA 1

REPAIR PARTS LIST (cont)

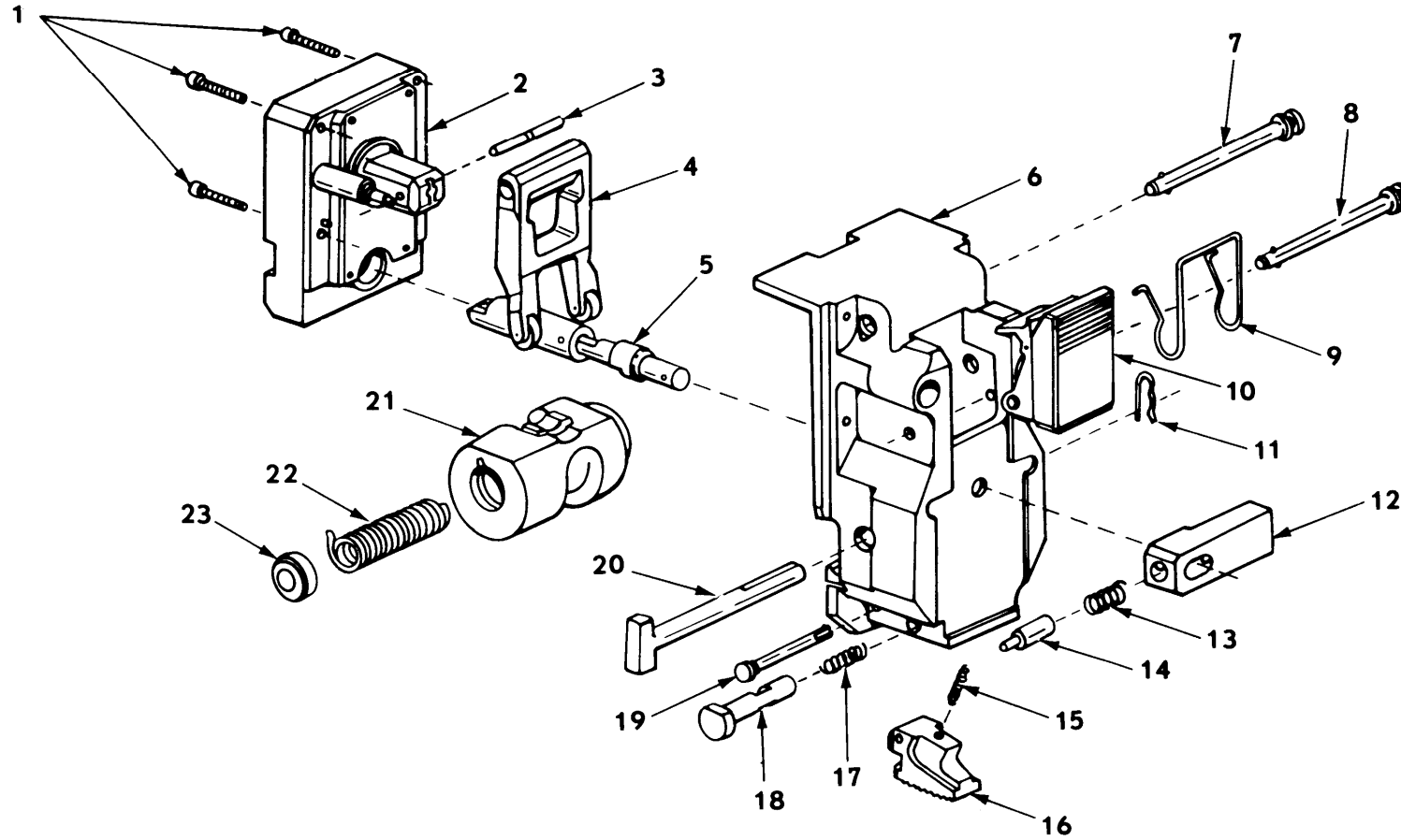


Figure C-3. Plate assembly, back 7793072.



(1) ILLUSTRATION		(2)	(3)	(4)	(5)	TM9-1005-231-24&P (6) DESCRIPTION	(7)	(8)
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 02 PLATE ASSEMBLY, BACK 7793072		
C-3	1	PAFZZ	5305-00-771-0422	96906	MS21262-43	SCREW, SELF-LOCKING	EA	4
C-3	2	PAFZZ	1005-00-871-2964	19205	7792921	SOLENOID, FIRING, ADJUSTABLE	EA	1
C-3	3	PAFZZ	5315-00-856-2562	19204	7792944	PIN, GROOVED, HEADLESS	EA	1
C-3	4	PAFZZ	1005-00-711-1791	19205	7793088	DISCONNECTOR ASSEMBLY, ARMATURE	EA	1
C-3	5	AFFFF		19204	7791361	STRIKER ASSEMBLY (SSEE GROUP 0201)	EA	1
C-3	6	PAFDA	1005-00-857-0024	19205	7791385	PLATE, BACK	EA	1
C-3	7	PAOZZ	5340-00-787-7366	19205	7790905	PIN, QUICK RELEASE	EA	1
C-3	8	PAFZZ	5340-00-768-8577	19205	7793077	PIN, QUICK RELEASE	EA	1
C-3	9	PAFZZ	5360-00-711-1787	19205	7793085	SPRING, TRIGGER RETURN	EA	1
C-3	10	PAFFF	1005-00-226-9710	19204	11010179	TRIGGER ASSEMBLY, SOLENOID ACTUATING (SEE GROUP 0202)	EA	1
C-3	11	PAOZZ	5315-00-815-4773	19205	7790883	PIN, LOCK	EA	1
C-3	12	PAFZZ	1005-00-711-4523	19205	7793074	SELECTOR, RATE	EA	1
C-3	13	PAFZZ	5360-00-064-5135	19205	7791411	SPRING, HELICAL, COMPRESSION	EA	1
C-3	14	PAFZZ	1005-00-711-4526	19205	7793078	PLUNGER, RATE SELECTOR	EA	1
C-3	15	PAFZZ	5360-00-711-1794	19205	7793092	SPRING, HELICAL, COMPRESSION	EA	1
C-3	16	PAFZZ	1005-00-809-0715	19204	8448210	LATCH, BACK PLATE	EA	1
C-3	17	PAFZZ	5360-00-710-9295	19205	7793206	SPRING, HELICAL, COMPRESSION	EA	1
C-3	18	PAFZZ	1005-00-809-0680	19204	8448209	LOCK, BACK PLATE	EA	1



(1) ILLUSTRATION		(2)	(3)	(4)	(5)	TM9-1005-231-24&P (6) DESCRIPTION	(7)	(8) QTY INC IN UNIT
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	
C-3	19	PAFZZ	5315-00-786-9251	19205	7790849	PIN, STRAIGHT, HEADED	EA	1
C-3	20	PAFZZ	1005-00-711-4527	19205	7793079	SHAFT, CYLINDER	EA	1
C-3	21	PAFZZ	1005-00-711-4525	19205	7793076	CYLINDER, TIME DELAY	EA	1
C-3	22	PAFZZ	5360-00-133-1098	19204	8448228	SPRING, HELICAL, TORSION	EA	1
C-3	23	PAFZZ	5365-00-711-4524	19205	7793075	SPACER, SLEEVE	EA	1

REPAIR PARTS LIST (cont)

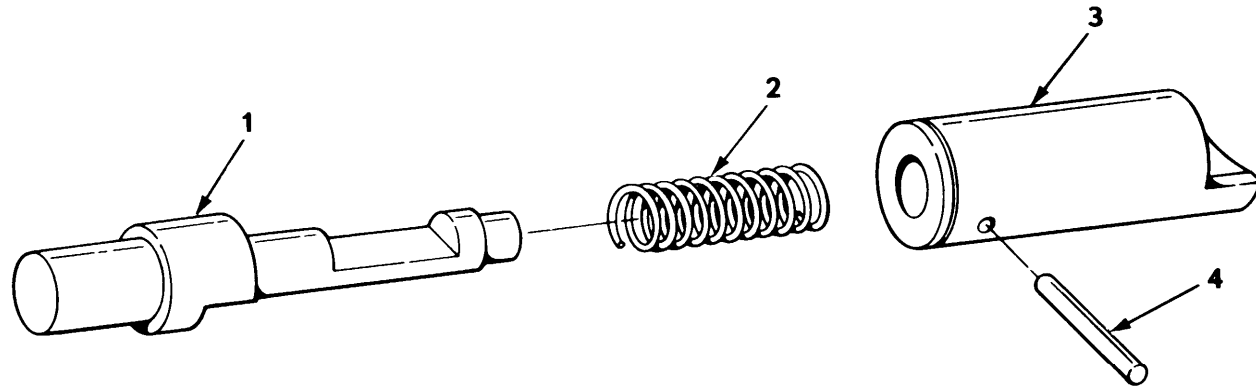


Figure C-4. Striker assembly 7791361.

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	TM9-1005-231-24&P (6) DESCRIPTION	(7)	(8)
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 0201 STRIKER ASSEMBLY 7791361		
C-4	1	PAFZZ	1005-00-897-4705	19205	7791234	STUD, STRIKER	EA	1
C-4	2	PAFZZ	5360-00-711-1778	19204	7793051	SPRING, HELICAL, COMPRESSION	EA	1
C-4	3	PAFZZ	1005-00-857-0014	19205	7791360	STRIKER, LOW RATE	EA	1
C-4	4	PAFZZ	5315-00-847-3692	19205	7791046	PIN, STRAIGHT, HEADLESS	EA	1

REPAIR PARTS LIST (cont)

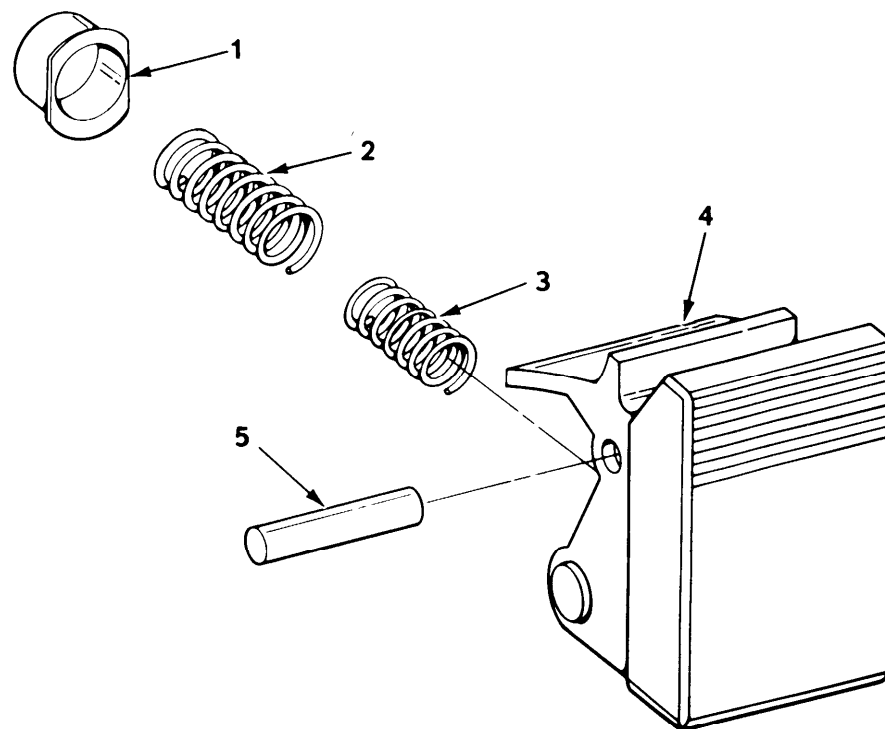


Figure C-5. Trigger assembly, solenoid actuating 11010179.

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	TM9-1005-231-24&P (6) DESCRIPTION	(7)	(8)
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 0202 TRIGGER ASSEMBLY, SOLENOID ACTUATING 11010179		
C-5	1	XAFZZ		19204	7793154	CAP, TRIGGER	EA	1
C-5	2	PAFZZ	5360-00-226-9917	19204	11010162	SPRING, HELICAL, COMPRESSION	EA	1
C-5	3	PAFZZ	5360-00-227-0313	19205	11010163	SPRING, HELICAL, COMPRESSION	EA	1
C-5	4	XAFZZ		19204	7793157	TRIGGER	EA	1
C-5	5	XAFZZ		96906	MS39086-93	PIN, SPRING	EA	1

REPAIR PARTS LIST (cont)

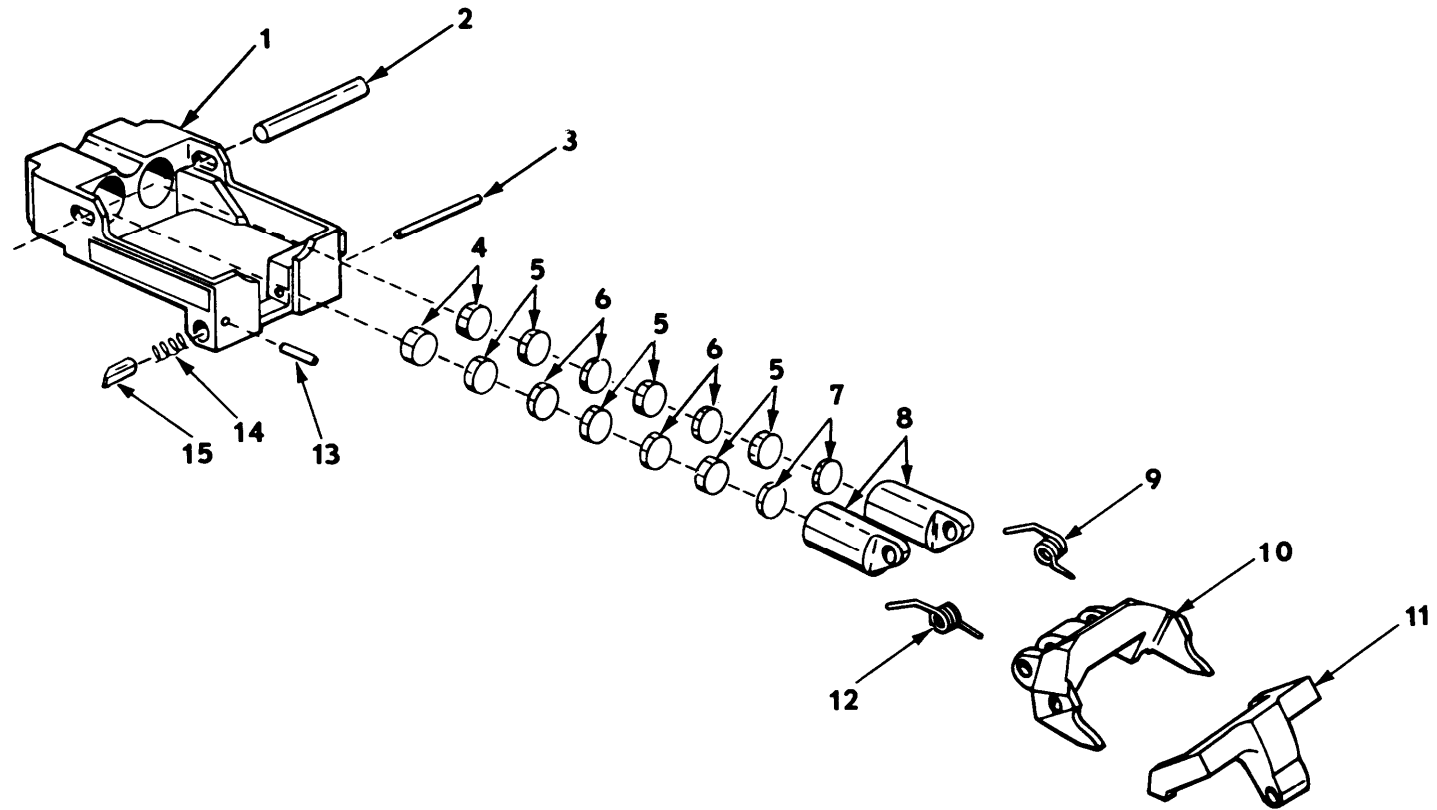


Figure C-6. Sear assembly 7793208.



(1) ILLUSTRATION		(2)	(3)	(4)	(5)	TM9-1005-231-24&P (6) DESCRIPTION	(7)	(8) QTY INC IN UNIT
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	
GROUP 03 SEAR ASSEMBLY 7793208								
C-6	1	PAFZZ	1005-00-710-9285	19205	7793194	BLOCK, SEAR	EA	1
C-6	2	PAFZZ	5315-00-682-2076	19205	7793246	PIN, STRAIGHT, HEADLESS	EA	1
C-6	3	PAFZZ	5315-00-814-5227	19205	7790894	PIN, STRAIGHT, HEADLESS	EA	1
C-6	4	PAFZZ	1005-00-712-1327	19205	7793163	DISK, SEAR BUFFER	EA	2
C-6	5	PAFZZ	1005-00-711-6214	19205	7793147	DISK, SOLID, PLAIN	EA	6
C-6	6	PAFZZ	1005-00-713-1349	19205	7793172	DISK, SEAR BUFFER	EA	4
C-6	7	PAFZZ	1005-00-710-9281	19205	7793188	DISK, SOLID, PLAIN	EA	2
C-6	8	PAFZZ	1005-00-919-7279	19205	7793248	HOUSING, SEAR BUFFER	EA	2
C-6	9	PAFZZ	5360-00-711-1803	19205	7793251	SPRING, HELICAL, TORSION	EA	1
C-6	10	PAFZZ	1005-00-711-1801	19204	7793249	SEAR, BOLT	EA	1
C-6	11	PAFZZ	1005-00-711-0515	19205	7793245	LEVER, BOLT, SEAR	EA	1
C-6	12	PAFZZ	5360-00-711-1806	19205	7793252	SPRING, HELICAL, TORSION	EA	1
C-6	13	PAFZZ	5315-00-834-0741	96906	MS39086-90	PIN, SPRING	EA	1
C-6	14	PAFZZ	5360-00-711-1802	19204	7793250	SPRING, HELICAL, COMPRESSION	EA	1
C-6	15	PAFZZ	1005-00-710-9286	19205	7793195	DETENT, SEAR BLOCK	EA	1

REPAIR PARTS LIST (cont)

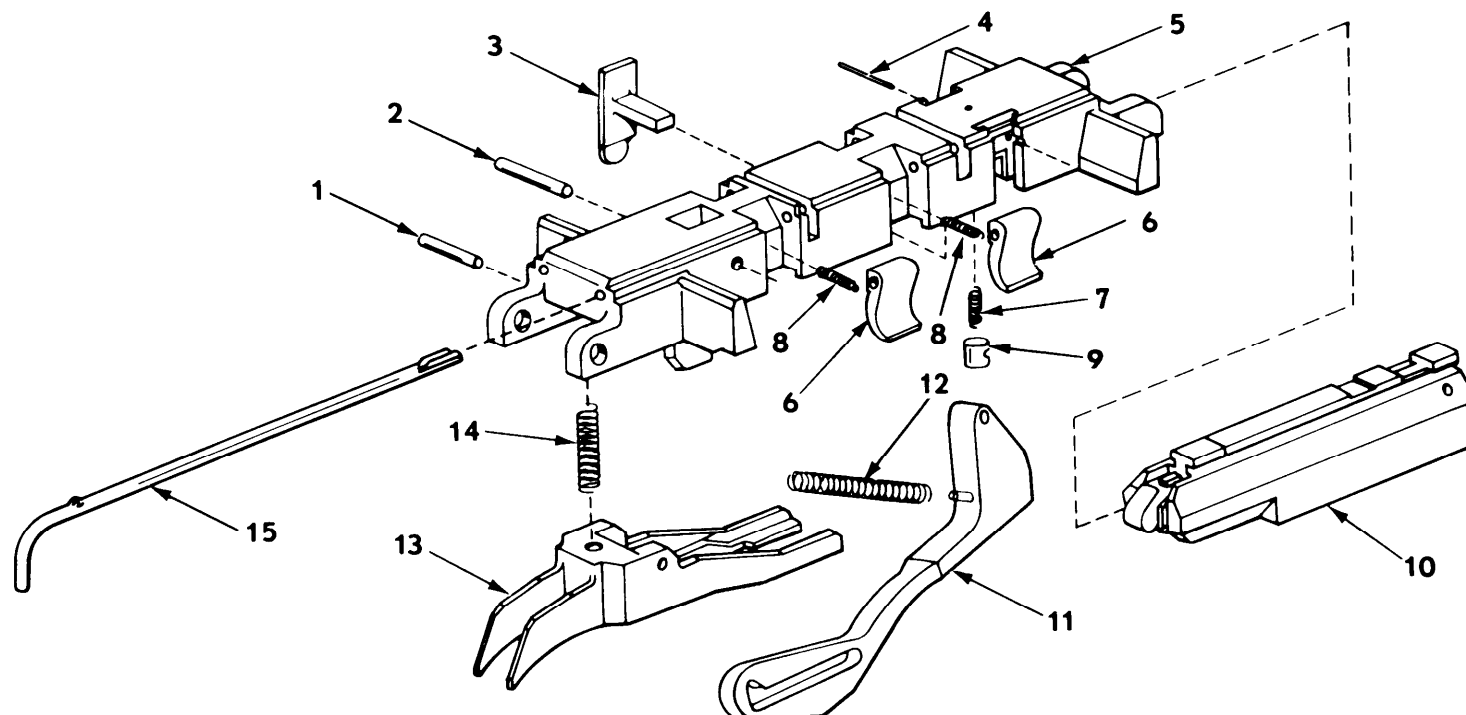


Figure C-7. Feed and ejector assembly 7793095.

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	TM9-1005-231-24&P (6) DESCRIPTION	(7)	(8)
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 04 FEED AND EJECTOR ASSEMBLY 7793095		
C-7	1	PAFZZ	5315-00-835-1241	19205	7791077	PIN, STRAIGHT, HEADLESS	EA	1
C-7	2	PAFZZ	5315-00-144-6296	19204	12003044	PIN, STRAIGHT, HEADLESS	EA	1
C-7	3	PAOZZ	1005-00-711-1799	19205	7793099	RETAINER, FEED ACTUATOR	EA	1
C-7	4	PAFZZ	5315-00-836-0644	96906	MS39086-59	PIN, SPRING	EA	1
C-7	5	PAFZZ	1005-00-711-4533	19205	7793109	SUPPORT, FEED AND EJECTOR	EA	1
C-7	6	PAOZZ	1005-00-133-1097	19204	8448226	PAWL, BELT RETAINING	EA	2
C-7	7	PAFZZ	5360-00-711-4532	19205	7793108	SPRING, HELICAL, COMPRESSION	EA	1
C-7	8	PAOZZ	5360-00-711-6208	19205	7793105	SPRING, HELICAL, COMPRESSION	EA	2
C-7	9	PAFZZ	1005-00-711-6206	19205	7793104	PLUNGER, RETAINER	EA	1
C-7	10	PAFFF	1005-00-711-1798	19205	7793098	ACTUATOR, FEED ASSEMBLY (SEE GROUP 0401)	EA	1
C-7	11	PAFZZ	1005-00-086-7452	19205	7791450	LEVER ASSEMBLY	EA	1
C-7	12	PAFZZ	5360-00-857-0012	19205	7791351	SPRING, HELICAL, COMPRESSION	EA	1
C-7	13	PAFZZ	1005-00-857-0019	19205	7791375	EJECTOR, CARTRIDGE	EA	1
C-7	14	PAFZZ	5360-00-711-4530	19204	7793106	SPRING, HELICAL, COMPRESSION	EA	1
C-7	15	PAOZZ	5315-00-711-4529	19205	7793102	PIN, RETAINING	EA	1

REPAIR PARTS LIST (cont)

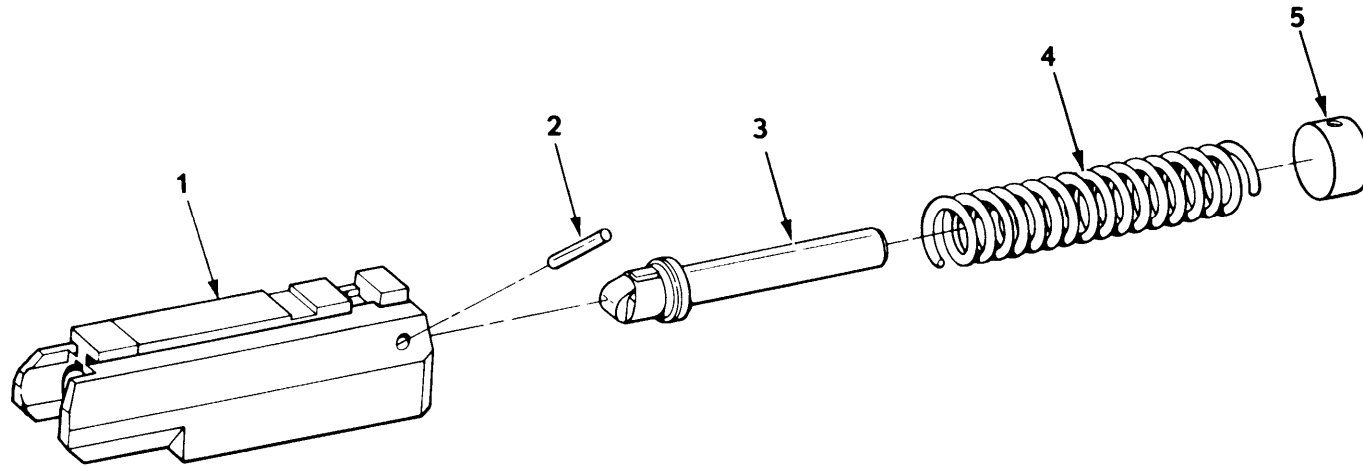


Figure C-8. Actuator, feed assembly 7793098

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	TM9-1005-231-24&P (6) DESCRIPTION	(7)	(8)
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 0401 ACTUATOR, FEED ASSEMBLY 7793098		
C-8	1	XAFZZ		19204	7793209	HOUSING, PLUNGER	EA	1
C-8	2	PAFZZ	5315-00-839-0902	96906	MS39086-206	PIN, SPRING	EA	1
C-8	3	PAFZZ	1005-00-711-4537	19205	7793115	PLUNGER, FEED, ACTUATOR	EA	1
C-8	4	PAFZZ	5360-00-710-9296	19205	7793212	SPRING, HELICAL, COMPRESSION	EA	1
C-8	5	XAFZZ		19204	7793210	PLUG, HOUSING	EA	1

## REPAIR PARTS LIST (cont)

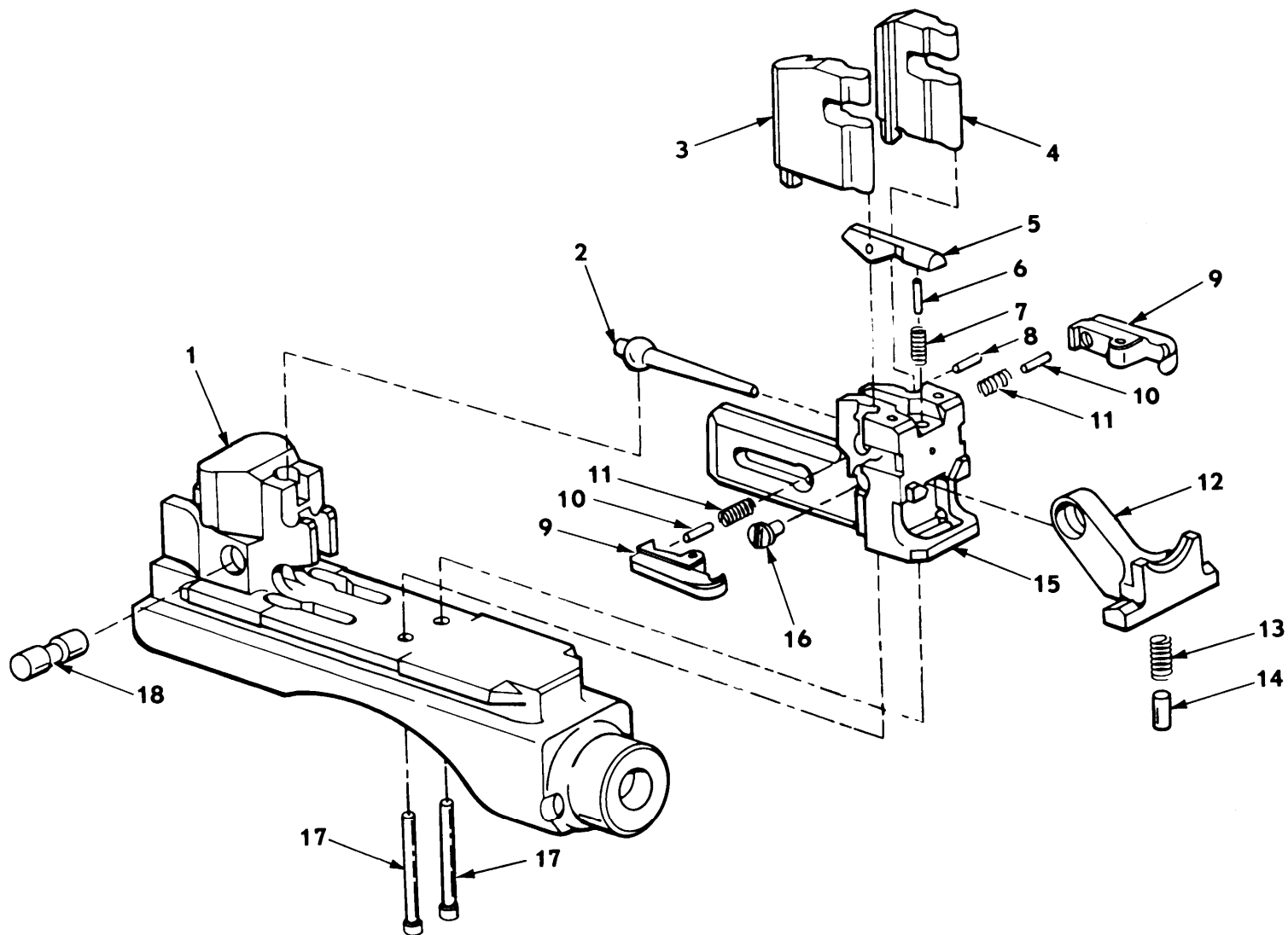


Figure C-9. Bolt assembly 7791384.

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	TM9-1005-231-24&P (6) DESCRIPTION	(7)	(8)
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 05 BOLT ASSEMBLY 7791384		
C-9	1	PAFZZ	1005-00-857-0022	19205	7791383	SLIDE, BOLT	EA	1
C-9	2	PAFZZ	1005-00-870-2115	19204	7791243	PIN, FIRING	EA	1
C-9	3	PAFZZ	1005-00-897-4700	19205	7791182	LOCK, BOLT RH	EA	1
C-9	4	PAFZZ	1005-00-897-4699	19205	7791181	LOCK, BOLT LH	EA	1
C-9	5	PAFZZ	1005-00-857-0018	19205	7791374	RAMMER, CARTRIDGE	EA	1
C-9	6	PAFZZ	1005-00-751-9110	19205	7791109-2	INSERT, SPRING	EA	1
C-9	7	PAFZZ	5360-00-710-9291	19205	7793203	SPRING, HELICAL, COMPRESSION	EA	1
C-9	8	PAFZZ	5315-00-847-3693	19200	7791183	PIN, STRAIGHT, HEADLESS	EA	1
C-9	9	PAFZZ	1005-00-857-0020	19205	7791378	RETAINER, CARTRIDGE CASE	EA	2
C-9	10	PAFZZ	1005-00-740-6166	19205	7791109-1	INSERT, SPRING	EA	2
C-9	11	PAFZZ	5360-00-710-9294	19205	7793205	SPRING, HELICAL, COMPRESSION	EA	2
C-9	12	PAFZZ	1005-00-710-9284	19205	7793193	EXTRACTOR, CARTRIDGE	EA	1
C-9	13	PAFZZ	5360-00-710-9295	19205	7793206	SPRING, HELICAL, COMPRESSION	EA	1
C-9	14	PAFZZ	1005-00-740-6167	19205	7791109-3	INSERT, SPRING	EA	1
C-9	15	PAFZZ	1005-00-857-0021	19205	7791382	BLOCK, BOLT	EA	1
C-9	16	PAFZZ	5315-00-897-4706	19205	7791239	PIN, STRAIGHT, HEADED	EA	1
C-9	17	PAFZZ	5315-00-682-2072	19205	7793196	PIN, STRAIGHT, HEADED	EA	2
C-9	18	PAOZZ	5315-00-591-2082	19205	7791057	PIN, GROOVED, HEADLESS RETAINING	EA	1

REPAIR PARTS LIST (cont)

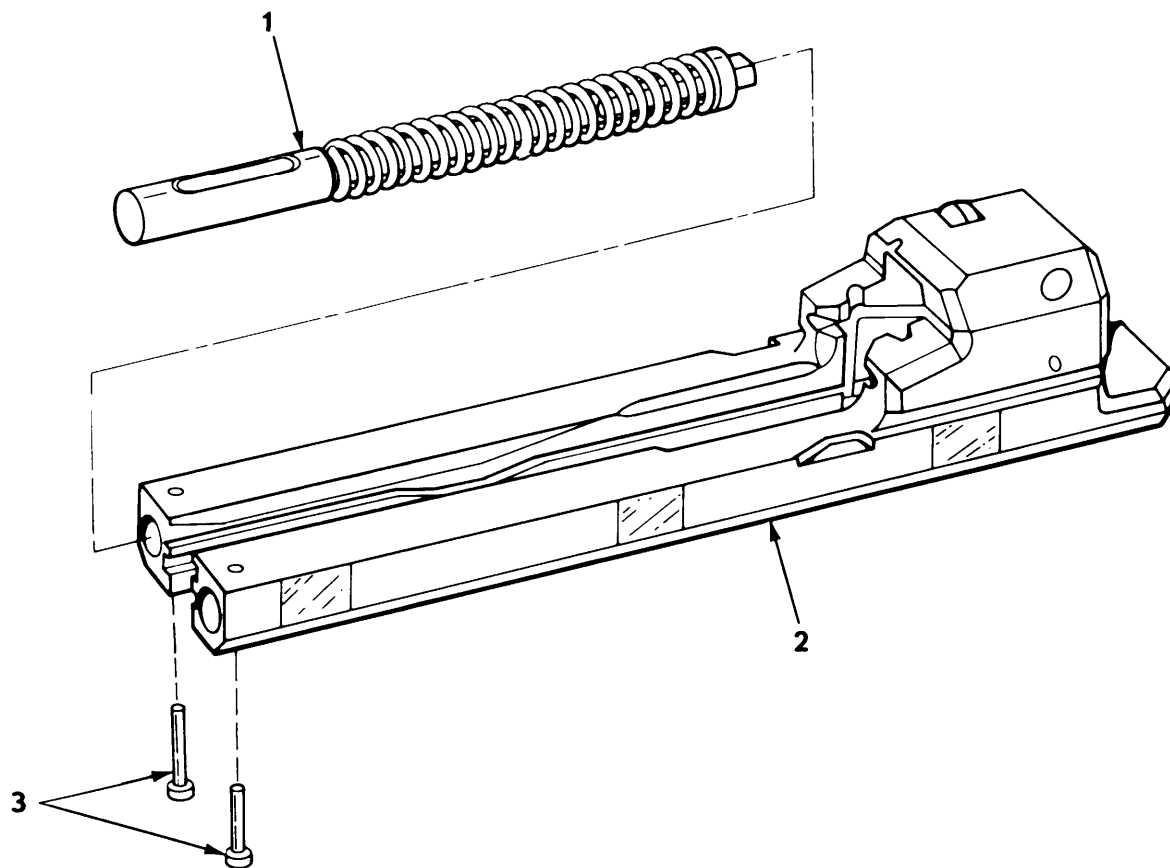


Figure C-10. Extension assembly, barrel 7791369.



(1) ILLUSTRATION		(2)	(3)	(4)	(5)	TM9-1005-231-24&P (6) DESCRIPTION	(7)	(8) QTY INC IN UNIT
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	
						GROUP 06 EXTENSION ASSEMBLY, BARREL 7791369		
C-10	1	AFFFF		19204	7793129	ROD ASSEMBLY, RETURN (SEE GROUP 0601)	EA	1
C-10	2	PAFFF	1005-00-857-0017	19205	7791371	EXTENSION SUBASSEMBLY, BARREL (SEE GROUP 0602)	EA	1
C-10	3	PAFZZ	5315-00-857-0011	19204	7791350	PIN, STRAIGHT, HEADED RETAINING	EA	2

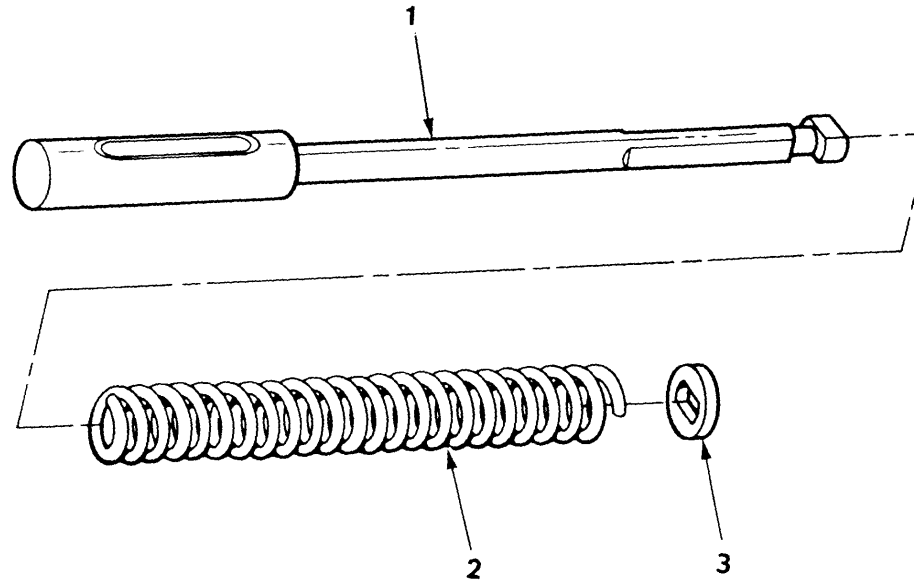


Figure C-11. Rod assembly, return 7793129.

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	TM9-1005-231-24&P (6) DESCRIPTION	(7)	(8)
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 0601 ROD ASSEMBLY, RETURN 7793129		
C-11	1	PAFZZ	1005-00-857-0016	19205	7791370	ROD, GUIDE	EA	1
C-11	2	PAFZZ	5360-00-710-9298	19205	7793215	SPRING, HELICAL, COMPRESSION	EA	1
C-11	3	PAFZZ	5310-00-711-0496	19205	7793216	WASHER, FLAT THRUST	EA	1

## REPAIR PARTS LIST (cont)

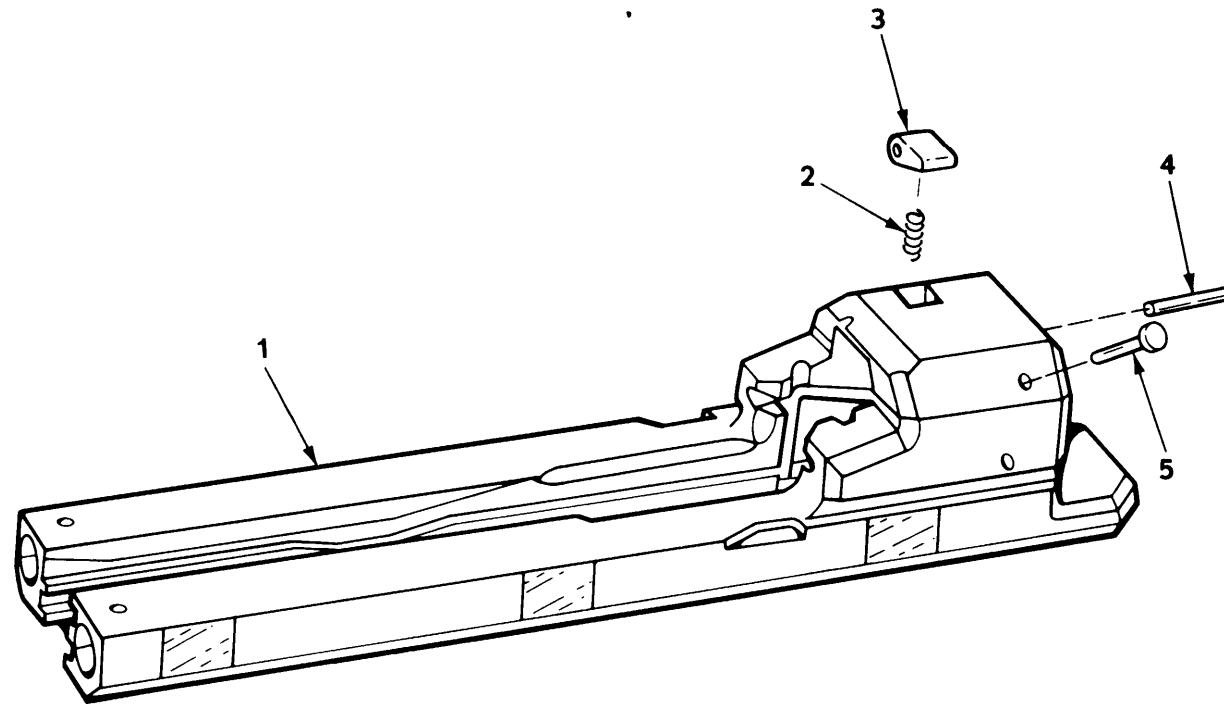


Figure C-12. Extension subassembly, barrel 7791371.

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	TM9-1005-231-24&P (6) DESCRIPTION	(7)	(8)
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 0602 EXTENSION SUBASSEMBLY, BARREL 7791371		
C-12	1	XAFZZ		19204	7791379	EXTENSION, BARREL	EA	1
C-12	2	PAFZZ	5360-00-870-2117	19204	7791265	SPRING, HELICAL, COMPRESSION	EA	1
C-12	3	PAFZZ	1005-00-856-2109	19205	7791278	INTERLOCK, BARREL EXTENSION	EA	1
C-12	4	PAFZZ	5315-00-826-5200	96906	MS39086-210	PIN, SPRING	EA	1
C-12	5	PAFZZ	5315-00-234-7552	19204	7793162	PIN, STRAIGHT, HEADED	EA	1

REPAIR PARTS LIST (cont)

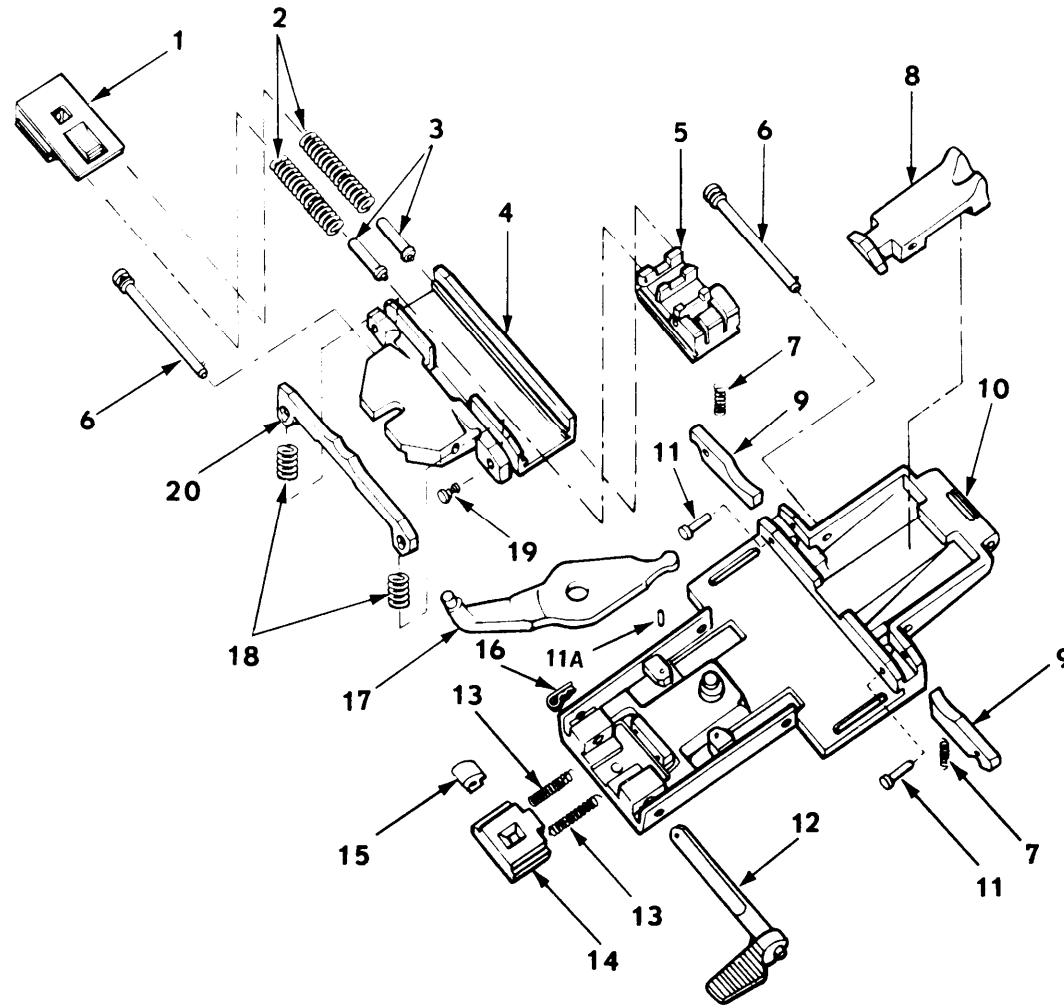


Figure C-13. Cover assembly 7793227.

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	TM9-1005-231-24&P (6) DESCRIPTION	(7)	(8)
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 07 COVER ASSEMBLY 7793227		
C-13	1	AFFFF		19204	7793221	HOUSING ASSEMBLY, FEED RETURN (SEE GROUP 0702)	EA	1
C-13	2	PAFZZ	5360-00-711-0509	19205	7793238	SPRING, HELICAL, COMPRESSION	EA	2
C-13	3	PAFZZ	5315-00-711-0510	19204	7793239	PIN, STRAIGHT, HEADED	EA	2
C-13	4	PAFZZ	1005-00-786-2936	19205	7793233	GUIDE, FEED, SLIDE	EA	1
C-13	5	AFFFF		19204	7793110	SLIDE ASSEMBLY, FEED (SEE GROUP 0701)	EA	1
C-13	6	PAOZZ	5340-00-768-8576	19207	7793046	PIN, QUICK RELEASE	EA	2
C-13	7	PAFZZ	5360-00-711-0513	19205	7793242	SPRING, HELICAL, COMPRESSION	EA	2
C-13	8	PAFZZ	1005-00-711-0504	19205	7793232	RAMP, GUIDE, CARTRIDGE	EA	1
C-13	9	PAFZZ	1005-00-711-0514	19205	7793244	PAWL, CARTRIDGE	EA	2
C-13	10	PAFZZ	1005-00-711-6215	19205	7793150	COVER, SUBASSEMBLY	EA	1
C-13	11	PAFZZ	5315-00-682-2212	19205	7793243	PIN, STRAIGHT, HEADED	EA	2
C-13	11A	PAFZZ	5315-00-811-6495	96906	MS16555-40	PIN, STRAIGHT, HEADLESS	EA	2
C-13	12	PAFZZ	1005-00-711-6230	19205	7793211	LEVER, COVER LATCH	EA	1
C-13	13	PAFZZ	5360-00-711-0501	19205	7793228	SPRING, HELICAL, COMPRESSION	EA	2
C-13	14	PAFZZ	1005-00-711-0503	19205	7793230	LATCH, COVER	EA	1
C-13	15	PAFZZ	1005-00-711-1785	19205	7793083	CAM, LATCH	EA	1
C-13	16	PAOZZ	5315-00-815-4773	19205	7790883	PIN, LOCK	EA	1
C-13	17	PAFZZ	1005-00-133-1101	19204	8448225	LEVER, BELT FEED	EA	1





(1) ILLUSTRATION		(2)	(3)	(4)	(5)	TM9-1005-231-24&P (6) DESCRIPTION	(7)	(8) QTY INC IN UNIT
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	
C-13	18	PAFZZ	5360-00-711-0506	19205	7793235	SPRING, HELICAL, COMPRESSION	EA	2
C-13	19	PAFZZ	5315-00-711-0507	19204	7793236	PIN, GROOVED, HEADED	EA	2
C-13	20	PAFZZ	1005-00-711-0505	19205	7793234	STRIPPER, CARTRIDGE LINK	EA	1

REPAIR PARTS LIST (cont)

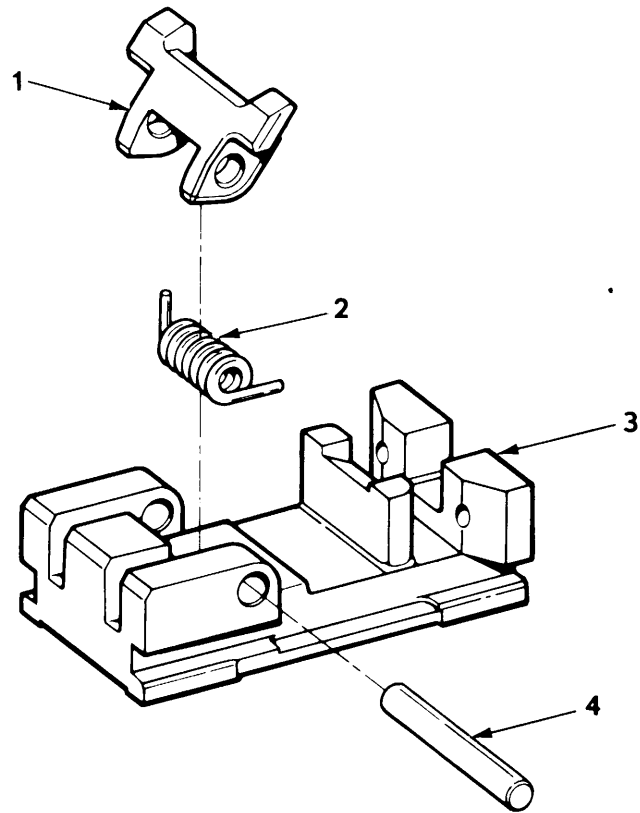


Figure C-14. Slide assembly, feed 7793110.

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	TM9-1005-231-24&P (6) DESCRIPTION	(7)	(8)
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 0701 SLIDE ASSEMBLY, FEED 7793110		
C-14	1	PAFZZ	1005-00-220-2049	19204	8448235	PAWL	EA	1
C-14	2	PAFZZ	5360-00-711-4536	19205	7793114	SPRING, HELICAL, TORSION	EA	1
C-14	3	PAFZZ	1005-00-133-1100	19204	8448227	SLIDE, BELT FEED	EA	1
C-14	4	PAFZZ	5315-00-682-2074	19205	7793112	PIN, STRAIGHT, HEADLESS	EA	1

REPAIR PARTS LIST (cont)

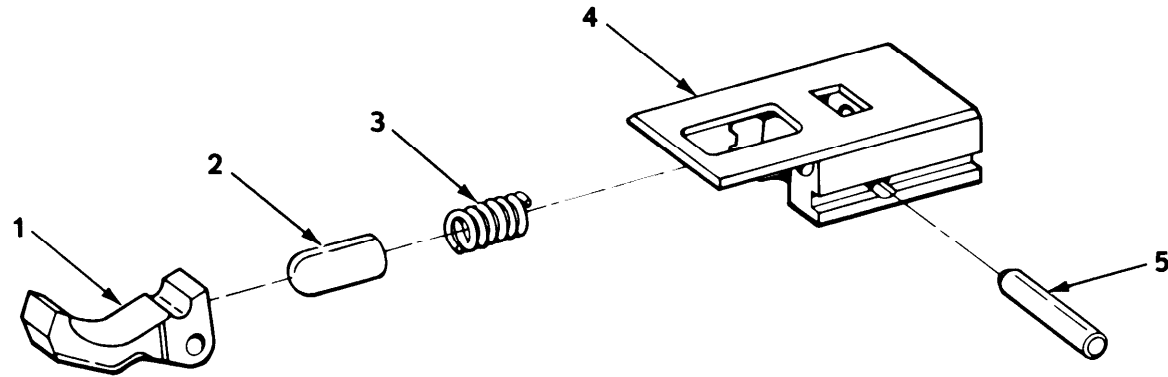


Figure C-15. Housing assembly, feed return 7793221.

(1) ILLUSTRATION (a) FIG NO	(b) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) FSCM	(5) PART NUMBER	(6) DESCRIPTION  USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 0702 HOUSING ASSEMBLY, FEED RETURN 7793221		
C-15	1	PAFZZ	1005-00-711-0497	19204	7793222	PAWL	EA	1
C-15	2	PAFZZ	1005-00-711-0498	19205	7793223	PLUNGER, CARTRIDGE STOP PAWL	EA	1
C-15	3	PAFZZ	5360-00-711-0499	19205	7793224	SPRING, HELICAL, COMPRESSION	EA	1
C-15	4	PAFZZ	1005-00-711-0500	19205	7793225	HOUSING, RETURN FEED	EA	1
C-15	5	PAFZZ	5315-00-682-2073	19205	7793226	PIN, STRAIGHT, HEADLESS	EA	1

REPAIR PARTS LIST (cont)

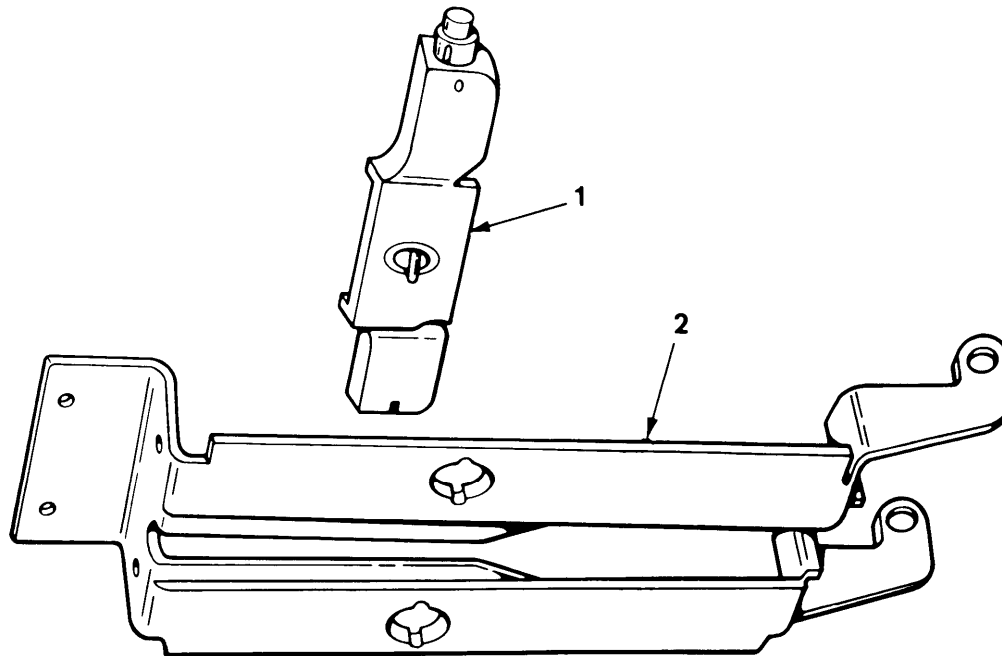


Figure C-16. Tray assembly, feed 7793050.

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	TM9-1005-231-24&P (6) DESCRIPTION	(7)	(8)
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 08 TRAY ASSEMBLY, FEED 7793050		
C-16	1	PAFFF	1005-00-955-7883	19205	11010134	GUIDE ASSEMBLY, LINK TRAY (SEE GROUP 0801)	EA	1
C-16	2	PAFZZ	1005-00-711-1777	19205	7793049	TRAY, FEED	EA	1

REPAIR PARTS LIST (cont)

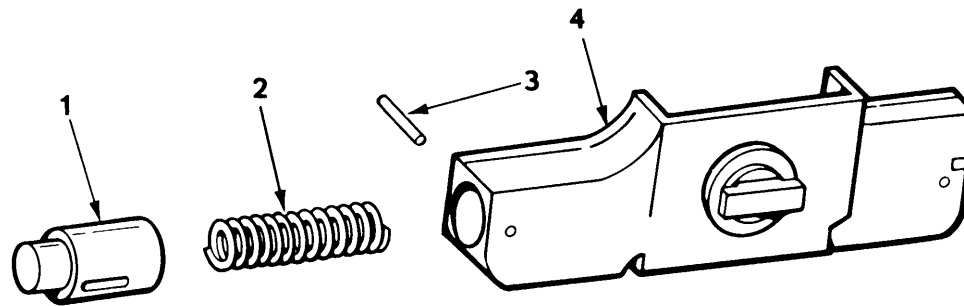


Figure C-17. Guide assembly, link tray 11010134.



(1) ILLUSTRATION		(2)	(3)	(4)	(5)	TM9-1005-231-24&P (6) DESCRIPTION	(7)	(8)
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 0801 GUIDE ASSEMBLY, LINK TRAY 11010134		
C-17	1	PAFZZ	1005-00-901-1693	19204	7790817	PLUNGER, LINK GUIDE	EA	2
C-17	2	PAFZZ	5360-00-690-0578	19205	7793518	SPRING, HELICAL, COMPRESSION	EA	2
C-17	3	PAFZZ	5315-00-824-7426	96906	MS39086-53	PIN, SPRING	EA	2
C-17	4	XAFZZ		19204	11010133	GUIDE, LINK	EA	1

## REPAIR PARTS LIST (cont)

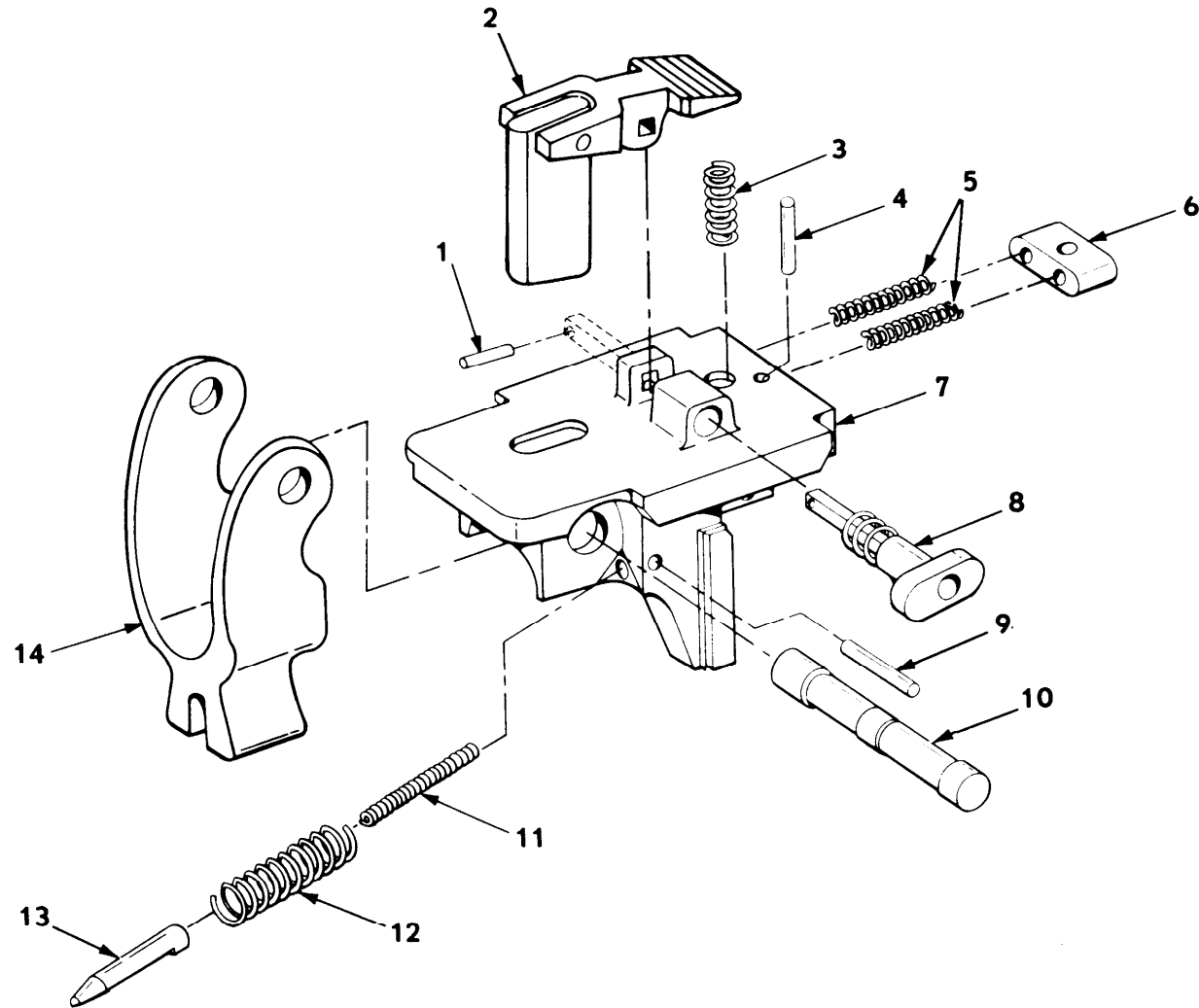


Figure C-18. Accelerator assembly 7790980.

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	TM9-1005-231-24&P (6) DESCRIPTION	(7)	(8)
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
GROUP 09 ACCELERATOR ASSEMBLY 7790980								
C-18	1	PAFZZ	5315-00-844-7819	96906	MS39086-77	PIN, SPRING	EA	1
C-18	2	AFFFF		19204	7790984	LATCH ASSEMBLY, BARREL (SEE GROUP 0901)	EA	1
C-18	3	PAFZZ	5360-00-711-6211	19205	7793126	SPRING, HELICAL, COMPRESSION	EA	1
C-18	4	PAFZZ	5315-00-812-1007	96906	MS39086-91	PIN, SPRING	EA	1
C-18	5	PAFZZ	5360-00-711-4543	19205	7793137	SPRING, HELICAL, COMPRESSION	EA	2
C-18	6	PAFZZ	1005-00-710-6603	19205	7793132	DETENT, COVER	EA	1
C-18	7	PAFZZ	1005-00-445-9905	19205	7790978	HOUSING, ACCELERATOR	EA	1
C-18	8	PAFZZ	1005-00-740-3324	19205	7791078	LOCK, BARREL LATCH	EA	1
C-18	9	PAFZZ	5315-00-834-0745	96906	MS16555-631	PIN, STRAIGHT, HEADLESS	EA	2
C-18	10	PAFZZ	5315-00-445-9906	19204	7790979	PIN, TAPPED, PLAIN	EA	1
C-18	11	PAFZZ	5360-00-445-9909	19205	7790983	SPRING, HELICAL, COMPRESSION	EA	2
C-18	12	PAFZZ	5360-00-445-9908	19205	7790982	SPRING, HELICAL, COMPRESSION	EA	2
C-18	13	PAFZZ	1005-00-445-9907	19205	7790981	PLUNGER, ACCELERATOR	EA	2
C-18	14	PAFZZ	1005-00-445-9904	19205	7790977	ACCELERATOR	EA	1

REPAIR PARTS LIST (cont)

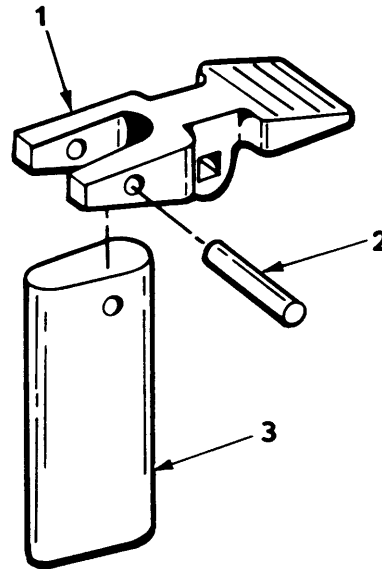


Figure C-19. Latch assembly, barrel 7790984.

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	TM9-1005-231-24&P (6) DESCRIPTION	(7)	(8)
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 0901 LATCH ASSEMBLY, BARREL 7790984		
C-19	1	PAFZZ	1005-00-445-9911	19205	7790987	LATCH, BARREL	EA	1
C-19	2	PAFZZ	5315-00-826-1426	96906	MS39086-96	PIN, SPRING	EA	1
C-19	3	PAFZZ	1005-00-445-9910	19205	7790985	BLOCK, BARREL LATCH	EA	1

REPAIR PARTS LIST (cont)

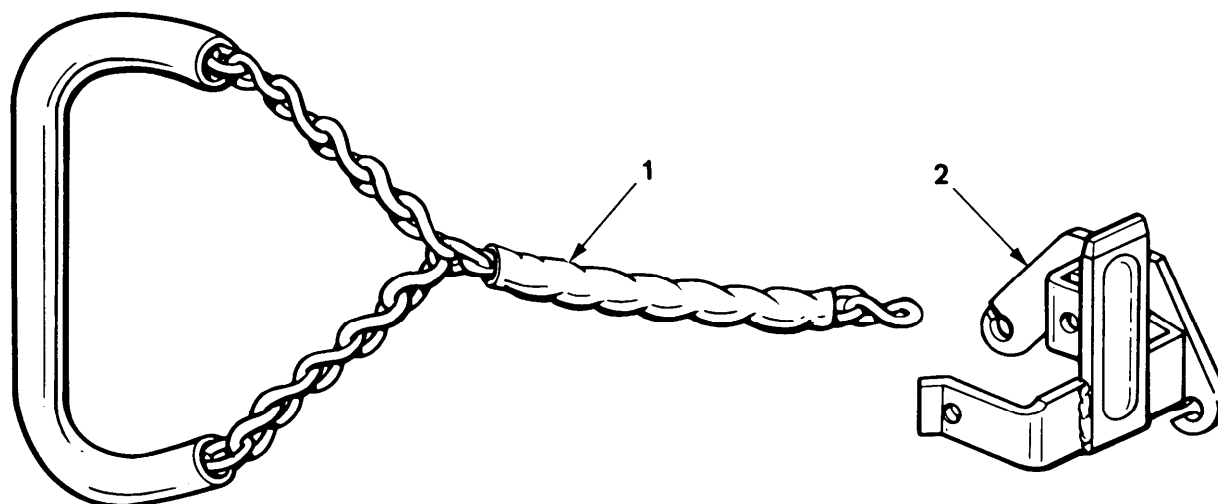


Figure C-20. Extension assembly, trigger 12006363.

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	TM9-1005-231-24&P (6) DESCRIPTION	(7)	(8)
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 10 EXTENSION ASSEMBLY, TRIGGER 12006363		
C-20	1	PAFZZ	1005-00-924-1797	19205	11010486	HANDLE ASSEMBLY, TRIGGER EXTENSION	EA	1
C-20	2	PAFZZ	1005-01-040-8836	19204	12006362	EXTENSION, TRIGGER	EA	1

## REPAIR PARTS LIST (cont)

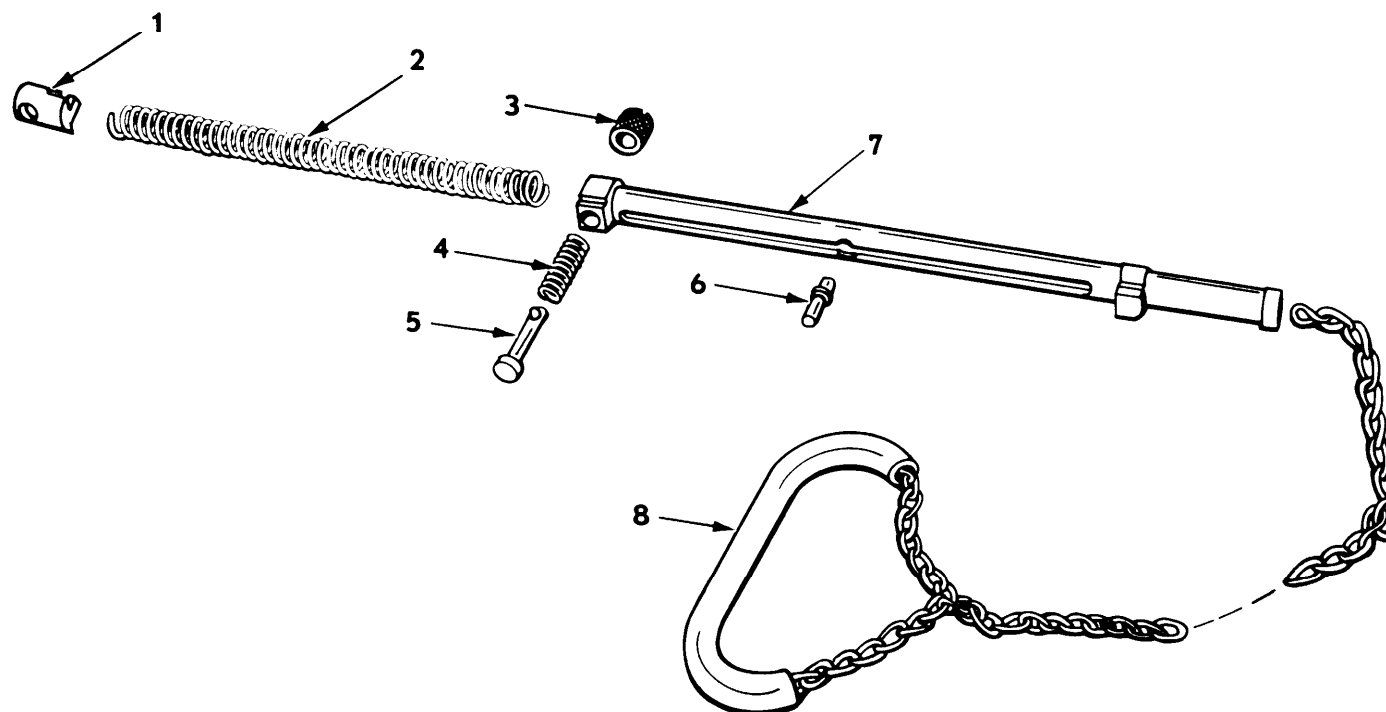


Figure C-21. Charger assembly, hand 11686374.



(1) ILLUSTRATION		(2)	(3)	(4)	(5)	TM9-1005-231-24&P (6) DESCRIPTION	(7)	(8)
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
GROUP 11 CHARGER ASSEMBLY, HAND 11686374								
C-21	1	PAFZZ	1005-00-795-7947	19205	7793031	RETAINER,BOLT RETRACTING PIN	EA	1
C-21	2	PAFZZ	5360-00-710-9278	19205	7793183	SPRING, HELICAL, COMPRESSION	EA	1
C-21	3	PAFZZ	5355-00-711-6226	19205	7793180	KNOB	EA	1
C-21	4	PAFZZ	5360-00-710-9279	19205	7793184	SPRING, HELICAL, COMPRESSION	EA	1
C-21	5	PAFZZ	1005-00-711-6225	19205	7793178	DETENT, CHARGER	EA	1
C-21	6	PAFZZ	5315-00-711-6229	19204	7793185	PIN, SHOULDER, HEADLESS, BOLT RETRACTING	EA	1
C-21	7	PAFZZ	1005-00-710-7627	19205	7793025	TUBE, CHARGER	EA	1
C-21	8	PAFZZ	1005-00-924-1798	19205	11010488	HANDLE ASSEMBLY, CHARGER	EA	1

REPAIR PARTS LIST (cont)

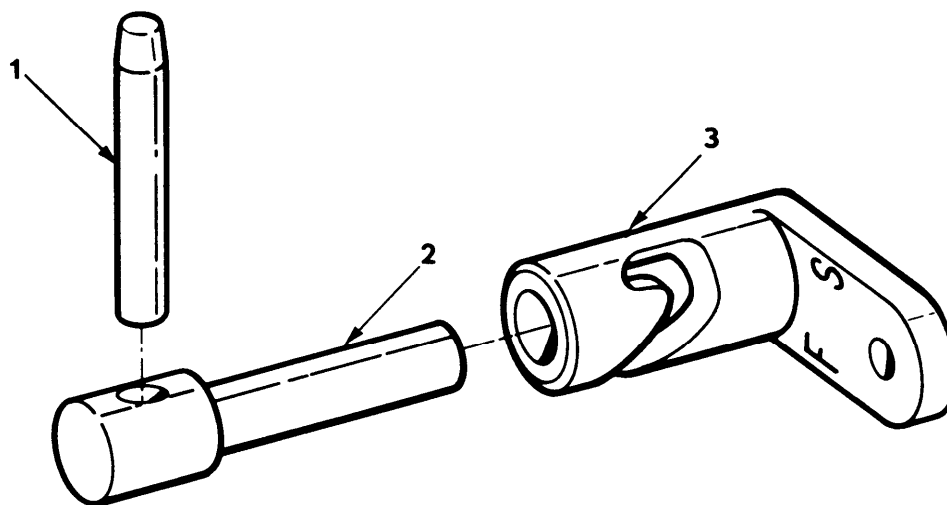


Figure C-22. Safety assembly 7793258.

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	TM9-1005-231-24&P (6) DESCRIPTION	(7)	(8)
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
GROUP 12 SAFETY ASSEMBLY 7793258								
C-22	1	PAFZZ	5315-00-811-7951	96906	MS16555-344	PIN, STRAIGHT, HEADLESS	EA	1
C-22	2	XAFZZ		19204	7793231	PLUNGER, SAFETY	EA	1
C-22	3	XAFZZ		19204	7793259	HOUSING, SAFETY	EA	1

REPAIR PARTS LIST (cont)

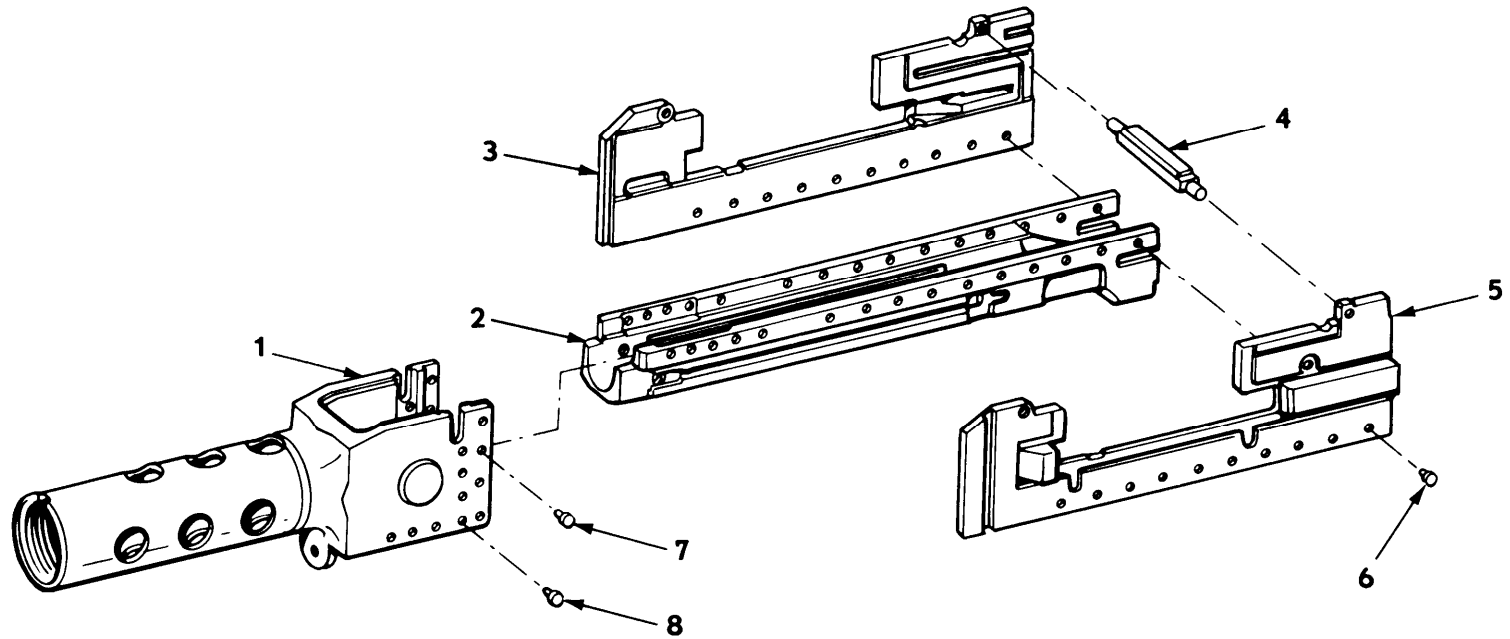


Figure C-23. Receiver assembly 7793062.

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	TM9-1005-231-24&P (6) DESCRIPTION	(7)	(8) QTY INC IN UNIT
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	UNIT
GROUP 13 RECEIVER ASSEMBLY 7793062								
C-23	1	XADZZ		19204	7793071	SUPPORT	EA	1
C-23	2	XADZZ		19204	7793063	BASE	EA	1
C-23	3	XADZZ		19204	7793064	PLATE	EA	1
C-23	4	XADZZ		19204	7793070	SPACER	EA	1
C-23	5	XADZZ		19204	7793065	PLATE	EA	1
C-23	6	PADZZ	5320-01-175-4683	19204	7793068	RIVET	EA	26
C-23	7	PADZZ	5320-01-175-4684	19204	7793069	RIVET	EA	12
C-23	8	PADZZ	5320-01-175-4682	19204	7793067	RIVET	EA	4

REPAIR PARTS LIST (cont)

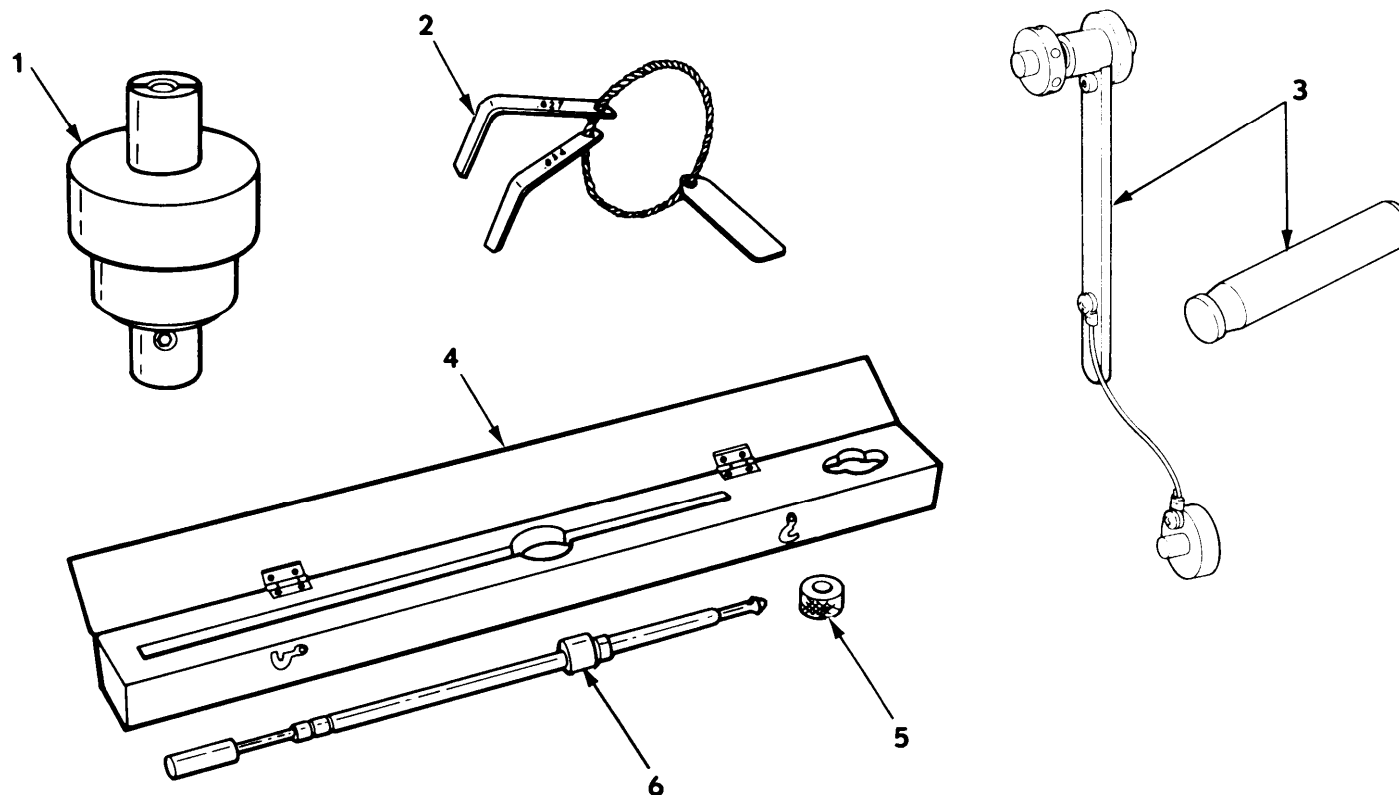


Figure C-24. Special tools.

(1) ILLUSTRATION (a) FIG NO	(2) (b) ITEM NO	(3) SMR CODE	(4) NATIONAL STOCK NUMBER	(5) FSCM	(6) PART NUMBER	TM9-1005-231-24&P (6) DESCRIPTION  USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 9500 SPECIAL TOOLS		
C-24	1	PAFZZ	4933-00-078-3770	19205	7799730	GAGE, FIRING PIN PROTRUSION BOI: 2 PER DS/GS MAINT SHOP	EA	1
C-24	2	PAFZZ	4933-00-986-3159	19205	7799708	GAGE, BOLT LOCKING SPACE (FEELER TYPE) BOI: 2 PER DS/GS MAINT SHOP	EA	1
C-24	3	AFFFF		19204	7793061-1A	FIXTURE, IMPROVISED RIVETING BOI: 2 PER DS/GS MAINT SHOP	EA	1
C-24		ADFBZ		19204	5910287	GAGE KIT, SMALL ARMS BARREL EROSION GAGE, M6A1	SE	1
C-24	4	PAFZZ	5140-00-313-9487	19205	7319997	..CASE, CARRYING, GAGE, BARREL BOI: 2 PER DS/GS MAINT SHOP	EA	1
C-24	5	PAFZZ	4933-00-317-2503	19205	7274730	..GAGE, WEAR CHECK BOI: 2 PER DS/GS MAINT SHOP	EA	1
C-24	6	PAFDD	4933-00-317-2502	19205	7274725	..GAGE, BARREL EROSION, M6A1 BOI: 2 PER DS/GS MAINT SHOP	EA	1

## Section IV. NATIONAL STOCK NUMBER AND PART NUMBER INDEX

STOCK NUMBER	FIGURE NO.	ITEM NO.	STOCK NUMBER	FIGURE NO.	ITEM NO.
5360-00-064-5135	C-3	13	5360-00-710-9295	C-3	17
4933-00-078-3770	C-24	1	5360-00-710-9295	C-9	13
1005-00-086-7452	C-7	11	5360-00-710-9296	C-8	4
1005-00-123-0466	C-2	1	5360-00-710-9298	C-11	2
1005-00-133-1097	C-7	6	5310-00-711-0496	C-11	3
5360-00-133-1098	C-3	22	1005-00-711-0497	C-15	1
1005-00-133-1100	C-14	3	1005-00-711-0498	C-15	2
1005-00-133-1101	C-13	17	5360-00-711-0499	C-15	3
5315-00-144-6296	C-7	2	1005-00-711-0500	C-15	4
1005-00-220-2049	C-14	1	5360-00-711-0501	C-13	13
1005-00-226-9710	C-3	10	1005-00-711-0503	C-13	14
5360-00-226-9917	C-5	2	1005-00-711-0504	C-13	8
5360-00-227-0313	C-5	3	1005-00-711-0505	C-13	20
5315-00-234-7552	C-12	5	5360-00-711-0506	C-13	18
5140-00-313-9487	C-24	4	5315-00-711-0507	C-13	19
4933-00-317-2502	C-24	5	5360-00-711-0509	C-13	2
4933-00-317-2503	C-24	6	5315-00-711-0510	C-13	3
1005-00-445-9904	C-18	14	5360-00-711-0513	C-13	7
1005-00-445-9905	C-18	7	1005-00-711-0514	C-13	9
5315-00-445-9906	C-18	10	1005-00-711-0515	C-6	11
1005-00-445-9907	C-18	13	5360-00-711-1775	C-1	15
5360-00-445-9908	C-18	12	1005-00-711-1777	C-16	2
5360-00-445-9909	C-18	11	5360-00-711-1778	C-4	2
1005-00-445-9910	C-19	3	1005-00-711-1785	C-13	15
1005-00-445-9911	C-19	1	5360-00-711-1787	C-3	9
1005-00-463-4616	C-1	1	1005-00-711-1791	C-3	4
5315-00-591-2082	C-9	18	5360-00-711-1794	C-3	15
5315-00-682-2072	C-9	17	1005-00-711-1798	C-7	10
5315-00-682-2073	C-15	5	1005-00-711-1799	C-7	3
5315-00-682-2074	C-14	4	1005-00-711-1801	C-6	10
5315-00-682-2076	C-6	2	5360-00-711-1802	C-6	14
5315-00-682-2212	C-13	11	5360-00-711-1803	C-6	9
5360-00-690-0578	C-17	2	5360-00-711-1806	C-6	12
1005-00-710-6603	C-18	6	1005-00-711-4523	C-3	12
1005-00-710-7627	C-21	7	5365-00-711-4524	C-3	23
5360-00-710-9278	C-21	2	1005-00-711-4525	C-3	21
5360-00-710-9279	C-21	4	1005-00-711-4526	C-3	14
1005-00-710-9281	C-6	7	1005-00-711-4527	C-3	20
1005-00-710-9284	C-9	12	5315-00-711-4529	C-7	15
1005-00-710-9285	C-6	1	5360-00-711-4530	C-7	14
1005-00-710-9286	C-6	15	5360-00-711-4532	C-7	7
5360-00-710-9291	C-9	7	1005-00-711-4533	C-7	5
5360-00-710-9294	C-9	11	5360-00-711-4536	C-14	2



STOCK NUMBER	FIGURE NO.	ITEM NO.	STOCK NUMBER	FIGURE NO.	ITEM NO.	
1005-00-711-4537	C-8	3	1005-00-856-2109	C-12	3	
5360-00-711-4543	C-18	5	5315-00-856-2562	C-3	3	
1005-00-711-6206	C-7	9	5315-00-857-0011	C-10	3	
5360-00-711-6208	C-7	8	5360-00-857-0012	C-7	12	
5360-00-711-6211	C-18	3	1005-00-857-0014	C-4	3	
1005-00-711-6214	C-6	5	1005-00-857-0016	C-11	1	
1005-00-711-6215	C-13	10	1005-00-857-0017	C-10	2	
1005-00-711-6225	C-21	5	1005-00-857-0018	C-9	5	
5355-00-711-6226	C-21	3	1005-00-857-0019	C-7	13	
5315-00-711-6229	C-21	6	1005-00-857-0020	C-9	9	
1005-00-711-6230	C-13	12	1005-00-857-0021	C-9	15	
1005-00-712-1327	C-6	4	1005-00-857-0022	C-9	1	
1005-00-713-1349	C-6	6	1005-00-857-0024	C-3	6	
1005-00-740-3324	C-18	8	1005-00-870-2115	C-9	2	
1005-00-740-6166	C-9	10	5360-00-870-2116	C-1	11	
1005-00-740-6167	C-9	14	5360-00-870-2117	C12	2	
1005-00-751-9110	C-9	6	1005-00-871-2964	C-3	2	
5340-00-768-8575	C-1	18	5360-00-897-4695	C-1	9	
5340-00-768-8576	C-1	17	1005-00-897-4699	C-9	4	
5340-00-768-8576	C-13	6	1005-00-897-4700	C-9	3	
5340-00-768-8577	C-3	8	1005-00-897-4702	C-1	10	
5305-00-771-0422	C-3	1	1005-00-897-4705	C-4	1	
1005-00-786-2936	C-13	4	5315-00-897-4706	C-9	16	
1005-00-786-2937	C-1	14	1005-00-901-1693	C-17	1	
5315-00-786-9251	C-3	19	1005-00-919-7279	C-6	8	
5340-00-787-7366	C-3	7	1005-00-924-1797	C-20	1	
1005-00-795-7947	C-21	1	1005-00-924-1798	C-21	8	
1005-00-809-0680	C-3	18	1005-00-955-7883	C-16	1	
1005-00-809-0715	C-3	16	1005-00-973-1244	C-1	8	
5315-00-811-6495	C-13	11A	4933-00-986-3159	C-24	2	
5315-00-811-7951	C-22	1	1005-01-040-8836	C-20	2	
5315-00-812-1007	C-18	4	5315-01-172-7132	C-2	3	
5315-00-814-5227	C-6	3				
5315-00-815-4773	C-3	11		FIGURE	ITEM	
5315-00-815-4773	C-13	16	FSCM	NO.	NO.	
5315-00-824-7426	C-17	3				
5315-00-826-1426	C-19	2	96906	MS16555-344	C-22	1
5315-00-826-5200	C-12	4	96906	MS16555-40	C-13	11A
5315-00-834-0741	C-6	13	96906	MS16555-631	C-18	9
5315-00-834-0745	C-18	9	96906	MS21262-43	C-3	1
5315-00-835-1241	C-7	1	96906	MS39086-206	C-8	2
5315-00-836-0644	C-7	4	96906	MS39086-210	C-12	4
5315-00-839-0902	C-8	2	96906	MS39086-53	C-17	3
5315-00-844-7819	C-18	1	96906	MS39086-59	C-7	4
5315-00-847-3692	C-4	4	96906	MS39086-77	C-18	1
5315-00-847-3693	C-9	8	96906	MS39086-90	C-6	13
5305-00-849-1362	C-1	13	96906	MS39086-91	C-18	4
			96906	MS39086-93	C-5	5

## NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONT)

FSCM	PART NUMBER	FIGURE NO.	ITEM NO.	FSCM	PART NUMBER	FIGURE NO.	ITEM NO.
96906	MS39086-96	C-19	2	19204	7791185	C-1	10
96906	MS39086-98	C-2	3	19205	7791234	C-4	1
19204	11010133	C-17	4	19205	7791239	C-9	16
19205	11010134	C-16	1	19204	7791243	C-9	2
19204	11010162	C-5	2	19205	7791254	C-1	11
19205	11010163	C-5	3	19204	7791265	C-12	2
19204	11010179	C-3	10	19205	7791278	C-12	3
19205	11010486	C-20	1	19204	7791350	C-10	3
19205	11010488	C-21	8	19205	7791351	C-7	12
19204	11686374	C-1	12	19205	7791360	C-4	3
19204	12003044	C-7	2	19204	7791361	C-3	5
19204	12006362	C-20	2	19204	7791369	C-1	6
19204	12006363	C-1	4	19205	7791370	C-11	1
19204	5910287	C-24		19205	7791371	C-10	2
19205	7274725	C-24	6	19205	7791374	C-9	5
19205	7274730	C-24	5	19205	7791375	C-7	13
19205	7319997	C-24	4	19205	7791378	C-9	9
19205	7790739	C-1	9	19204	7791379	C-12	1
19204	7790817	C-17	1	19205	7791382	C-9	15
19205	7790849	C-3	19	19205	7791383	C-9	1
19205	7790883	C-3	11	19204	7791384	C-1	7
19205	7790883	C-13	16	19205	7791385	C-3	6
19205	7790894	C-6	3	19205	7791411	C-3	13
19205	7790905	C-3	7	19205	7791450	C-7	11
19205	7790977	C-18	14	19204	7791467	C-1	8
19205	7790978	C-18	7	19205	7792921	C-3	2
19204	7790979	C-18	10	19204	7792944	C-3	3
19204	7790980	C-1	21	19205	7793025	C-21	7
19205	7790981	C-18	13	19205	7793031	C-21	1
19205	7790982	C-18	12	19205	7793045	C-1	18
19205	7790983	C-18	11	19207	7793046	C-1	17
19204	7790984	C-18	2	19207	7793046	C-13	6
19205	7790985	C-19	3	19205	7793047	C-1	15
19205	7790987	C-19	1	19205	7793049	C-16	2
19205	7791046	C-4	4	19204	7793050	C-1	19
19205	7791057	C-9	18	19204	7793051	C-4	2
19205	7791077	C-7	1	19204	7793061-1A	C-24	3
19205	7791078	C-18	8	19204	7793062	C-1	20
19205	7791109-1	C-9	10	19204	7793063	C-23	2
19205	7791109-2	C-9	6	19204	7793064	C-23	3
19205	7791109-3	C-9	14	19204	7793065	C-23	5
19205	7791181	C-9	4	19204	7793067	C-23	8
19205	7791182	C-9	3	19204	7793068	C-23	6
19200	7791183	C-9	8	19204	7793069	C-23	7

FSCM	PART NUMBER	FIGURE NO.	ITEM NO.	FSCM	PART NUMBER	FIGURE NO.	ITEM NO.
19204	7793070	C-23	4	19205	7793195	C-6	15
19204	7793071	C-23	1	19205	7793196	C-9	17
19204	7793072	C-1	3	19205	7793203	C-9	7
19205	7793074	C-3	12	19205	7793205	C-9	11
19205	7793075	C-3	23	19205	7793206	C-3	17
19205	7793076	C-3	21	19205	7793206	C-9	13
19205	7793077	C-3	8	19204	7793208	C-1	5
19205	7793078	C-3	14	19204	7793209	C-8	1
19205	7793079	C-3	20	19204	7793210	C-8	5
19205	7793083	C-13	15	19205	7793211	C-13	12
19205	7793085	C-3	9	19205	7793212	C-8	4
19205	7793088	C-3	4	19205	7793215	C-11	2
19205	7793092	C-3	15	19205	7793216	C-11	3
19204	7793095	C-1	16	19204	7793221	C-13	1
19205	7793098	C-7	10	19204	7793222	C-15	1
19205	7793099	C-7	3	19205	7793223	C-15	2
19205	7793102	C-7	15	19205	7793224	C-15	3
19205	7793104	C-7	9	19205	7793225	C-15	4
19205	7793105	C-7	8	19205	7793226	C-15	5
19204	7793106	C-7	14	19204	7793227	C-1	2
19205	7793108	C-7	7	19205	7793228	C-13	13
19205	7793109	C-7	5	19205	7793230	C-13	14
19204	7793110	C-13	5	19204	7793231	C-22	2
19205	7793112	C-14	4	19205	7793232	C-13	8
19205	7793114	C-14	2	19205	7793233	C-13	4
19205	7793115	C-8	3	19205	7793234	C-13	20
19205	7793126	C-18	3	19205	7793235	C-13	18
19204	7793129	C-10	1	19204	7793236	C-13	19
19205	7793132	C-18	6	19205	7793238	C-13	2
19205	7793137	C-18	5	19204	7793239	C-13	3
19205	7793147	C-6	5	19205	7793242	C-13	7
19205	7793150	C-13	10	19205	7793243	C-13	11
19204	7793154	C-5	1	19205	7793244	C-13	9
19204	7793157	C-5	4	19205	7793245	C-6	11
19204	7793162	C-12	5	19205	7793246	C-6	2
19205	7793163	C-6	4	19205	7793248	C-6	8
19204	7793165	C-2	1	19204	7793249	C-6	10
19205	7793172	C-6	6	19204	7793250	C-6	14
19205	7793178	C-21	5	19205	7793251	C-6	4
19205	7793180	C-21	3	19205	7793252	C-6	12
19205	7793183	C-21	2	19205	7793257	C-1	13
19205	7793184	C-21	4	19205	7793258	C-1	14
19204	7793185	C-21	6	19204	7793259	C-22	3
19205	7793188	C-6	7	19205	7793518	C-17	2
19205	7793193	C-9	12	19205	7799708	C-24	2
19205	7793194	C-6	1	19205	7799730	C-24	1

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19204	8448209	C-3	18
19204	8448210	C-3	16
19204	8448225	C-13	17
19204	8448226	C-7	6
19204	8448227	C-14	3
19204	8448228	C-3	22
19204	8448235	C-14	1
19204	8448438	C-2	2
19204	8448439	C-1	1

# APPENDIX D

## EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST

### Section I INTRODUCTION

#### D-1. SCOPE

This appendix lists expendable/durable supplies and materials you will need to operate and maintain the M85 machine gun. This listing 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.

#### D-2. EXPLANATION OF COLUMNS

a. **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 cleaning compound, item 5, app D.”).

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

C . . . . . Operator/crew  
O . . . . . Organizational Maintenance  
F . . . . . Direct Support Maintenance

c. **Column (3)–National Stock Number.** This is the National stock number assigned to the item; use it to request or requisition the item.

d. **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 Federal Supply Code for Manufacturer (FSCM) in parentheses followed by the part number.

e. **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) If the unit of measure differs from the unit of issue, requisition the lowest unit of issue that will satisfy your requirements.

SECTION II. EXPENDABLE SUPPLIES AND MATERIALS				
(1)	(2)	(3)	(4)	(5)
Item Number	Level	National Stock Number	Description	U/M
1	F	8115-00-190-5002	BOX, SHIPPING, FIBERBOARD 16 X 16 X 16 IN. (41 X 41 X 41 CM) (81343) PPP-B-636	EA
2	F	8115-00-023-0301	BOX, SHIPPING FLAPS 37-1/4 X 21-1/4 X 15-1/4 IN. (94.6 X 54.0 X 38.8 CM) (81348) PPP-B-601	EA
3	F	8115-00-019-1632	BOX, SHIPPING, NAILED 45.5 X 37-1/4 X 33-1/4 IN. (115.5 X 94.6 X 84.5 CM) (81348) PPP-B-601	EA
4	O	6850-00-965-2332	CARBON REMOVING COMPOUND 5-GAL. (18.93-I) CAN (81348) PC111	GL
5			CLEANER, LUBRICANT AND PRESERVATIVE (CLP)	
	C	9150-01-079-6124	4-OZ (118.30-ML) BTL	EA
	O	9150-01-054-6453	1-PT (0.47-L) BTL	PT
	O	9150-01-053-6688	1-GAL. (3.79-L) CONTAINER (81349) MIL-L-63460	GL
6	O	5350-00-221-0872	CLOTH, ABRASIVE (CROCUS) (81348) P-C-458	EA

7	F	8135-00-855-6969	CUSHION MATERIAL, PACKAGING 24 IN. (60.96 CM) WIDE 100-FT (30.48-M) ROLL (81348) PPP-C-843	FT
8	O	6850-00-281-1985	DRY CLEANING SOLVENT 1-GAL. (3.79-L) CAN (81348) P-D-680	GL
9	O	8415-00-823-7457	GLOVES, RUBBER, SOLVENT RESISTANT (81348) ZZ-G-381	PR
10	F	6850-00-826-0981	INSPECTION PENETRANT KIT (81349) MIL-I-25135	EA
11	O	9150-00-168-2000	LUBRICANT, SOLID FILM 16-OZ (0.47-I) CAN (81349) MIL-L-46147	OZ
12	F	9150-00-281-2007	LUBRICATING OIL, GENERAL PURPOSE 55-GAL. (208-I) DRUM (81348) VV-L-800	GL
13	F	8135-00-985-7242	PAPER, VOLATILE CORROSION 36 IN. (91.44 CM) WIDE 100-FT (30.48-M) ROLL (81349) MIL-P-3420	FT
14	O	7920-00-205-1711	RAG, WIPING 50 LB (22.68 KG) (58536) A-A-531	LB
15	F	8135-00-286-8565	STRAPPING (STEEL) 0.625 IN. (1.59 CM) WIDE 100-LB (45.36-KG) COIL (81348) QQ-S-781	IN.

SECTION II. EXPENDABLE SUPPLIES AND MATERIALS (Cont)				
(1)	(2)	(3)	(4)	(5)
Item Number	Level	National Stock Number	Description	U/M
16	C	1005-00-288-3565	SWAB, SMALL ARMS CLEANING COTTON 2-1/2-IN. (6.35-CM) SQUARE, 1000 UNITY QTY (19204) 5019316	EA
17	F	7510-00-266-5016	TAPE, PRESSURE SENSITIVE 2 IN. (5.08 CM) WIDE 60-YD (54.86-M) ROLL (81348) PPP-T-60	YD
18	F	7510-00-297-6655	TAPE, PRESSURE SENSITIVE (81348) PPP-T-76	YD



## APPENDIX E

### ILLUSTRATED LIST OF MANUFACTURED ITEMS

This appendix includes complete instructions for making items authorized to be manufactured or fabricated at direct support maintenance. All bulk materials needed for

manufacture of an item are listed by part number or specification number in the notes.

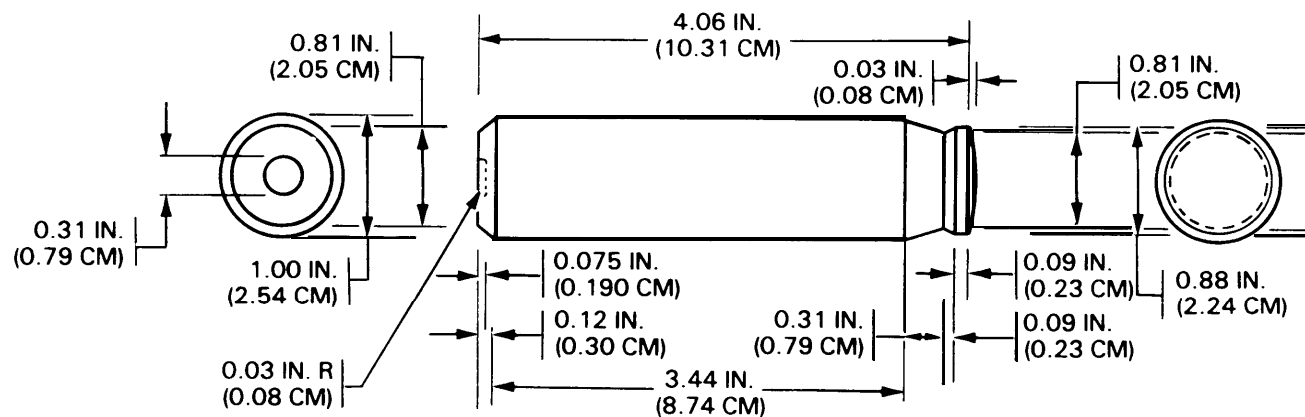


Figure E-1. Striker.

#### NOTES:

1. Fabricate from NSN 9510-00-027-0658, 4140 steel.
2. Harden to Rockwell C40-42.
3. A dimension with a 2-digit decimal has a tolerance of  $\pm 0.01$  ( $\pm 0.03$  cm) and a 3-digit decimal has a tolerance of  $\pm 0.005$  ( $\pm 0.013$  cm).
4. Break all sharp edges and deburr all threads and holes.

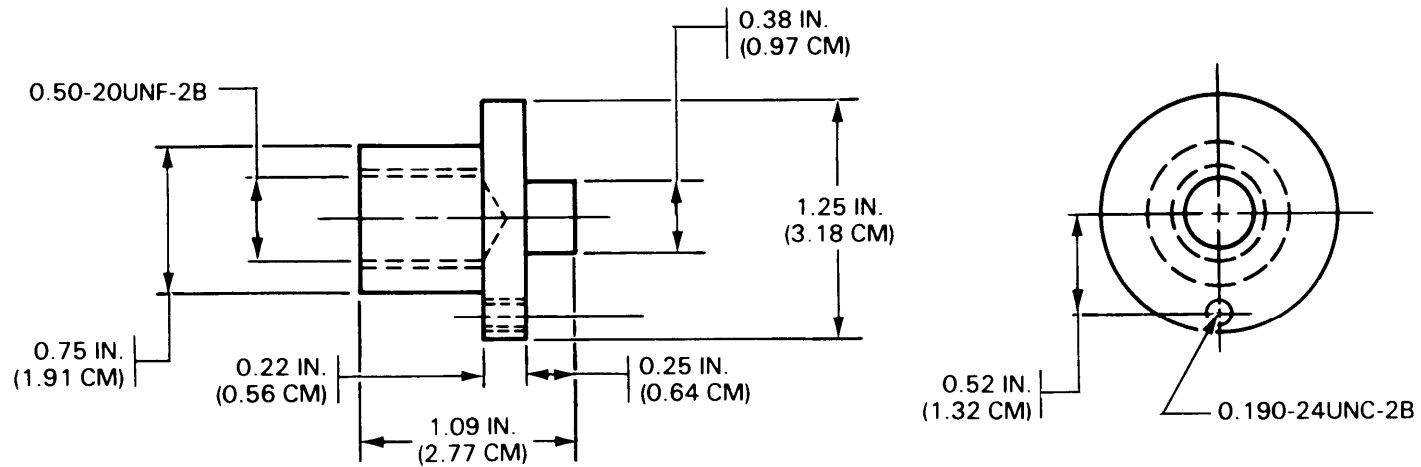


Figure E-2. Body.

**NOTES:**

1. Fabricate from NSN 9510-00-027-0658, 4140 steel.
2. Harden to Rockwell C40-42.
3. A dimension with a 2-digit decimal has a tolerance of  $\pm 0.01$  ( $\pm 0.03$  cm) and a 3-digit decimal has a tolerance of  $\pm 0.005$  ( $\pm 0.013$  cm).
4. Break all sharp edges and deburr all threads and holes.

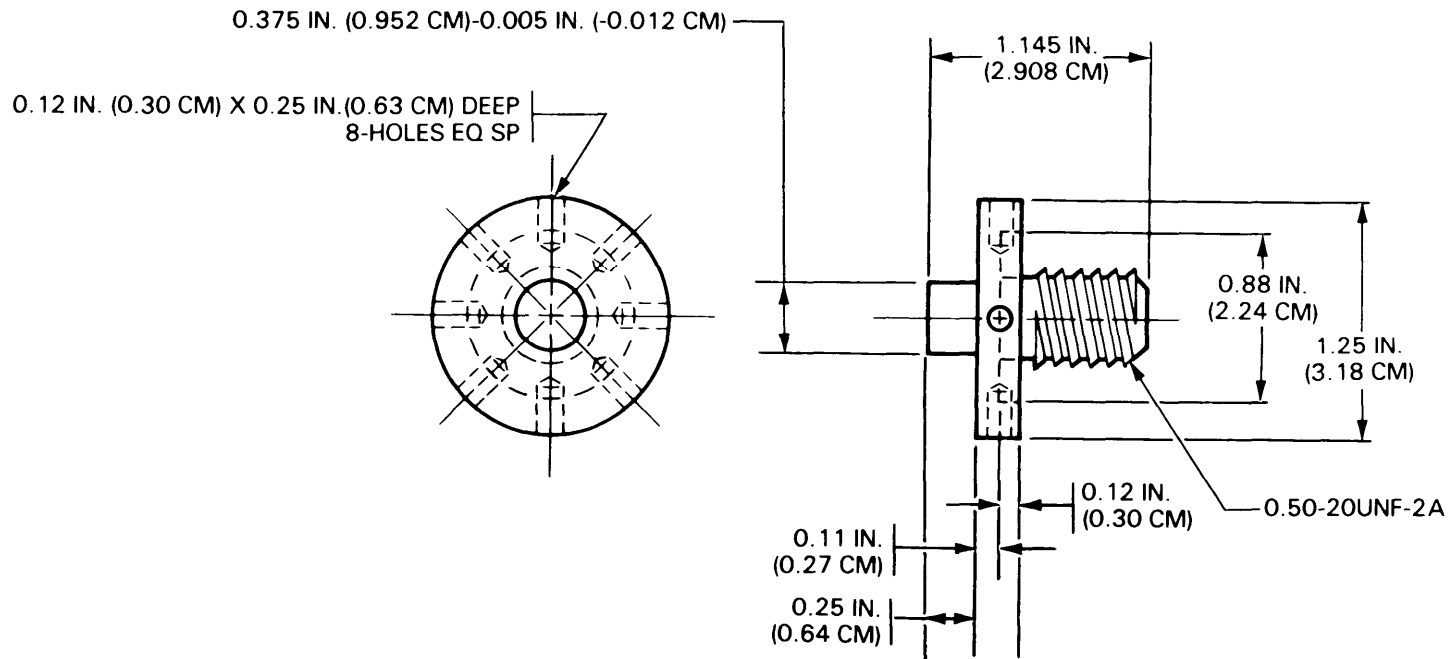


Figure E-3. Adjusting wheel.

**NOTES:**

1. Fabricate from NSN 9510-00-027-0658, 4140 steel.
2. Harden to Rockwell C40-41.
3. A dimension with a 2-digit decimal has a tolerance of  $\pm 0.01$  ( $\pm 0.03$  cm) and a 3-digit decimal has a tolerance of  $\pm 0.005$  ( $\pm 0.013$  cm).
4. Break all sharp edges and deburr all threads and holes.

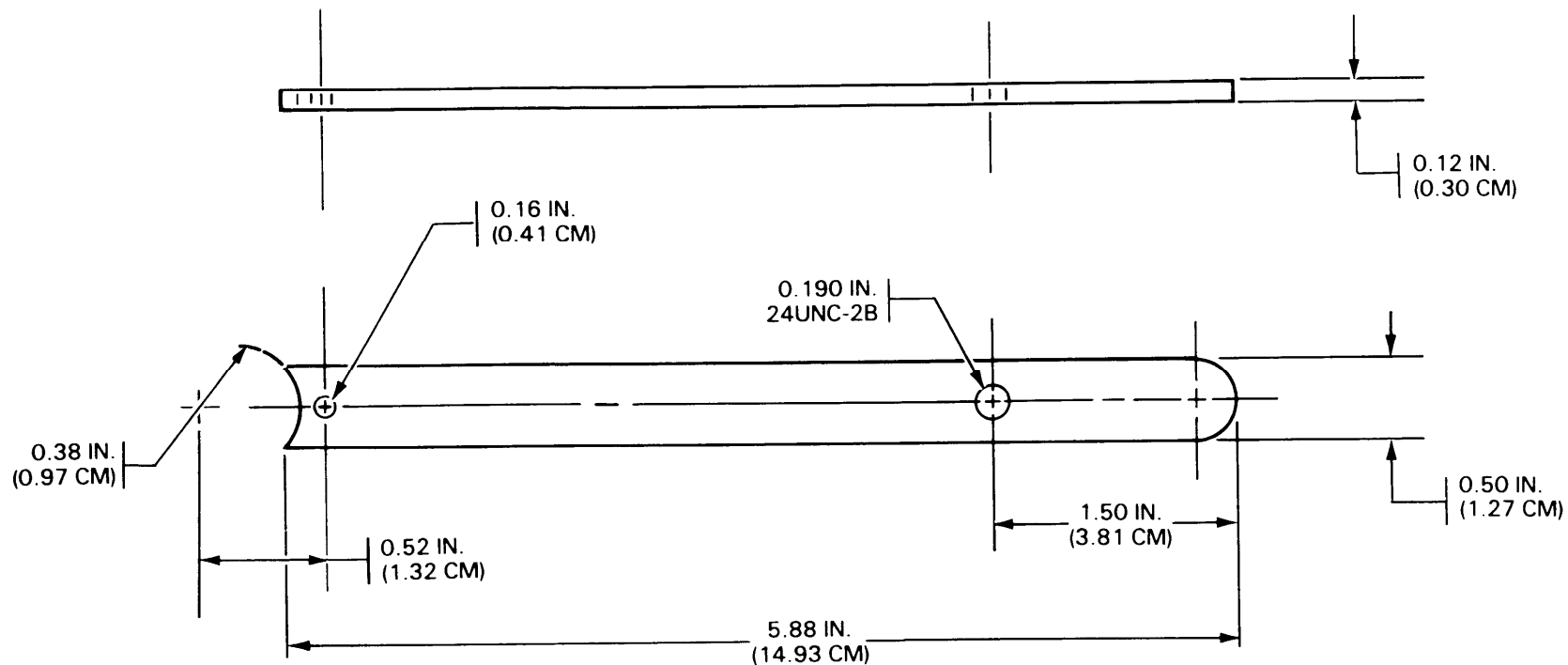


Figure E-4. Handle.

**NOTES:**

1. Fabricate from NSN 9515-00-640-4268, 1010/1020 steel.
2. A dimension with a -digit decimal has a tolerance of  $\pm 0.01$  ( $\pm 0.03$  cm) and a 3-digit decimal has a tolerance of  $\pm 0.005$  ( $\pm 0.013$  cm).
3. Break all sharp edges and deburr all threads and holes.

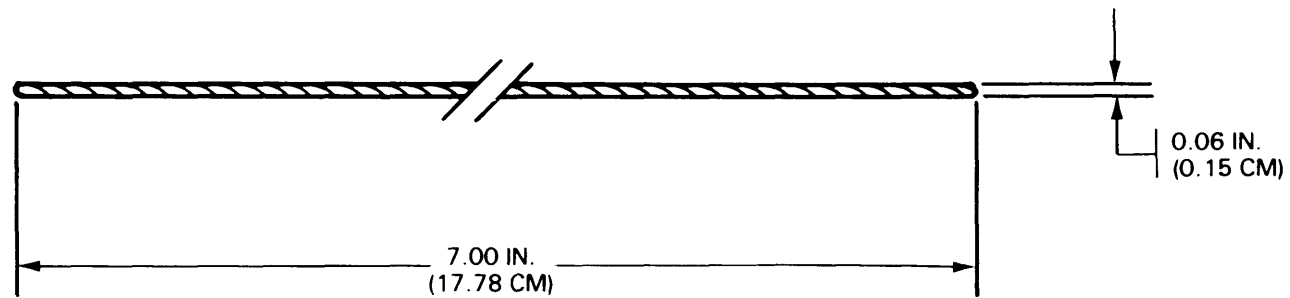


Figure E-5. Wire rope.

**NOTES:**

1. Fabricate from NSN 4010-00-929-0041.
2. A dimension with a 2-digit decimal has a tolerance of  $\pm 0.01$  ( $\pm 0.03$  cm) and a 3-digit decimal has a tolerance of  $\pm 0.005$  ( $\pm 0.013$  cm).
3. Break all sharp edges and deburr all threads and holes.

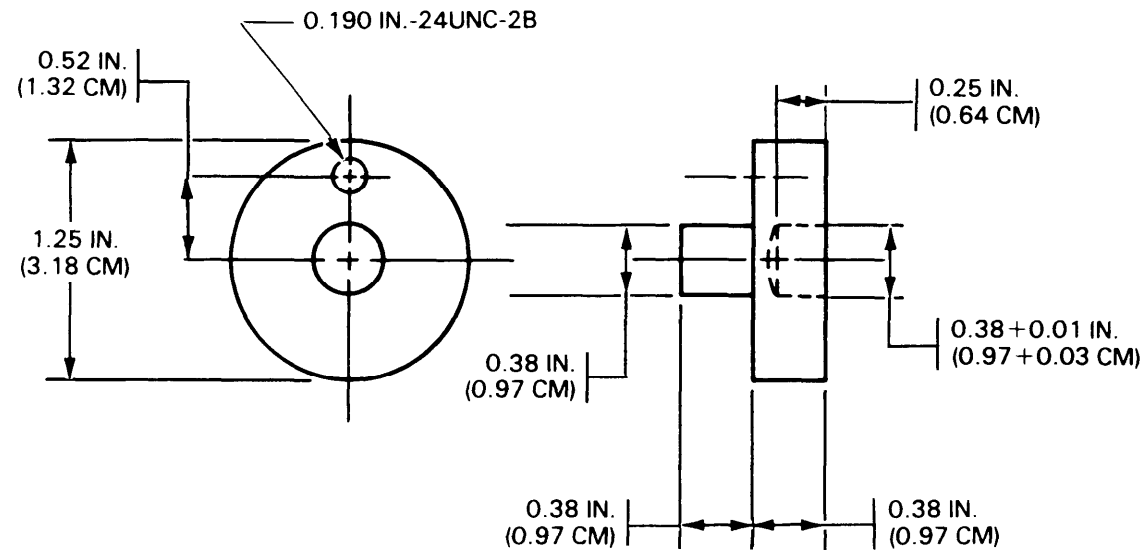


Figure E-6. Adjusting wheel extension.

**NOTES:**

1. Fabricate from NSN 9510-00-027-0658, 4140 steel.
2. Harden to Rockwell C40-42.
3. A dimension with a 2-digit decimal has a tolerance of  $\pm 0.01$  ( $\pm 0.03$  cm) and a 3-digit decimal has a tolerance of  $\pm 0.005$  ( $\pm 0.013$  cm).
4. Break all sharp edges and deburr all threads and holes.

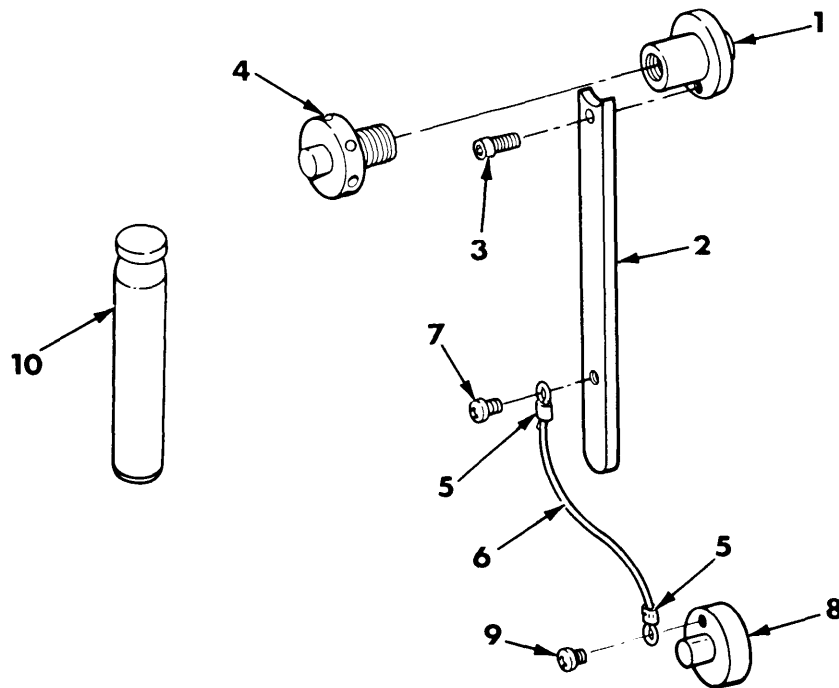


Figure E-7. Assembly of improvised riveting fixture.

**NOTES:**

1. Install body (1) on handle (2) and secure with capscrew (3).
2. Install adjusting wheel (4) on body (1).
3. Install two lug terminals (5) on both ends of wire rope (6) and crimp ends of wire rope; secure one end of wire rope to handle (2) with machine screw (7).
4. Secure adjusting wheel extension (8) to other end of wire rope (6) with machine screw (9).

**NOTE**

Striker (10) is part of the improvised riveting fixture.





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\*O- Organizational  
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