

TM 9-1005-222-12

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

**OPERATOR AND ORGANIZATIONAL
MAINTENANCE MANUAL
INCLUDING
REPAIR PARTS AND SPECIAL
TOOLS LIST**

**RIFLE, CALIBER .30: M1, W/E
(1005-674-1425)**

**RIFLE, CALIBER .30: M1C (SNIPER'S) W/E
(1005-674-1430)**

**RIFLE, CALIBER .30: M1D (SNIPER'S) W/E
(1005-674-1431)**



HEADQUARTERS, DEPARTMENT OF THE ARMY

1969

WARNING

DANGEROUS SOLUTIONS

Avoid contact of P-C-111 with skin. If contact does occur, wash compound off thoroughly with running water. A good lanolin base cream is helpful if applied after washing off compound. Recommend use of gloves and protective equipment.

WARNING

DANGEROUS CONDITIONS

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 insure that it is empty, and check to see that no ammunition is in position to be introduced.

TECHNICAL MANUAL

No. 9-1005-222-12

HEADQUARTERS,
DEPARTMENT OF THE ARMY
WASHINGTON, D. C., 17 March 1969

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This manual is current as of 2 December 1968

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CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1. Scope

These instructions are for use by the operator and organizational maintenance personnel. They apply to Caliber .30 Rifles, M1, M1C (Sniper's) and M1D (Sniper's).

1-2. Forms and Records

a. *General.* Refer to TM 38-750 (Army Equipment Records Procedure) for forms and records required.

b. *Recommendations for Maintenance Manual Improvements.* Report of errors, omissions,

and recommendations for improving this publication by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to DA Publications) and forwarded direct to:

Commanding General
U.S. Army Weapons Command
ATTN: AMSWE-SMM-P
Rock Island, Illinois 61201

1-3. Administrative Storage

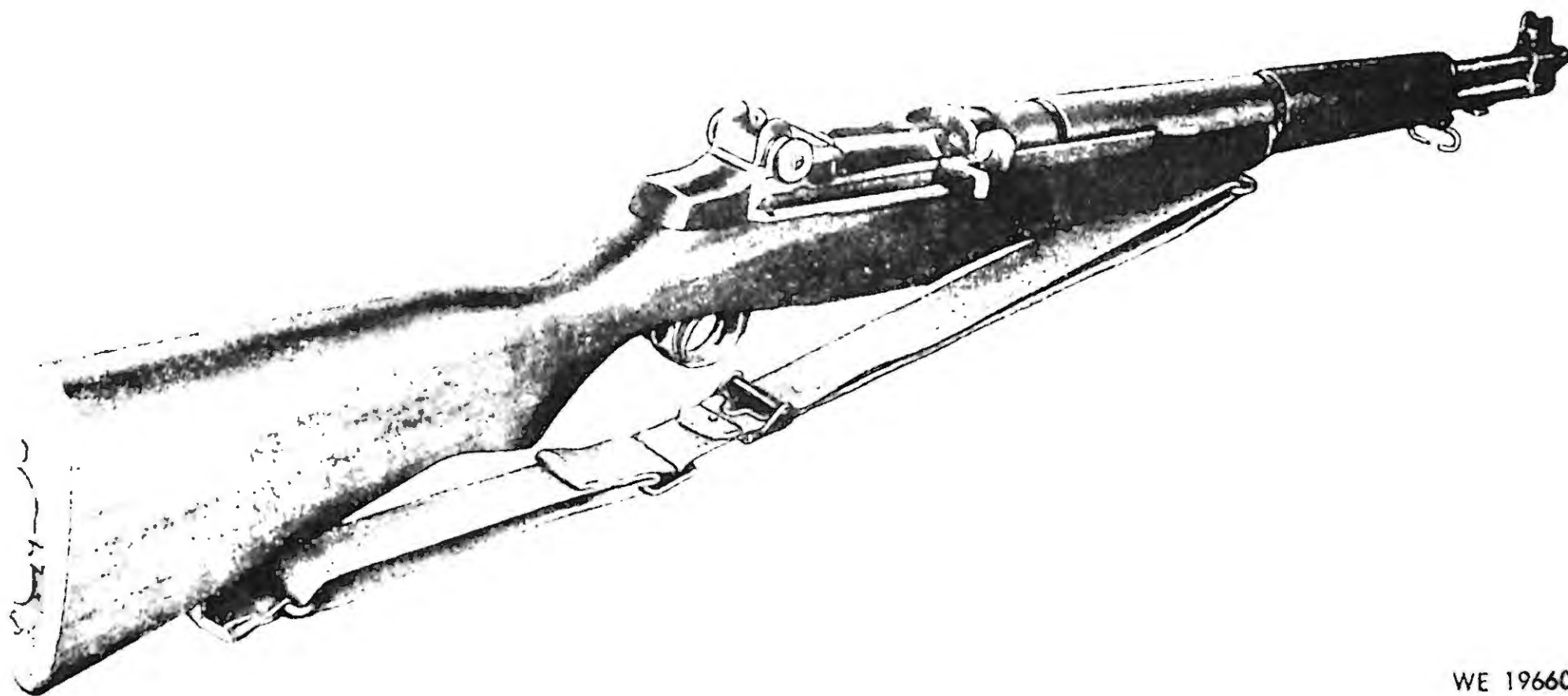
Refer to TM 740-90-1 for administrative storage.

Section II. DESCRIPTION AND DATA

1-4. Description

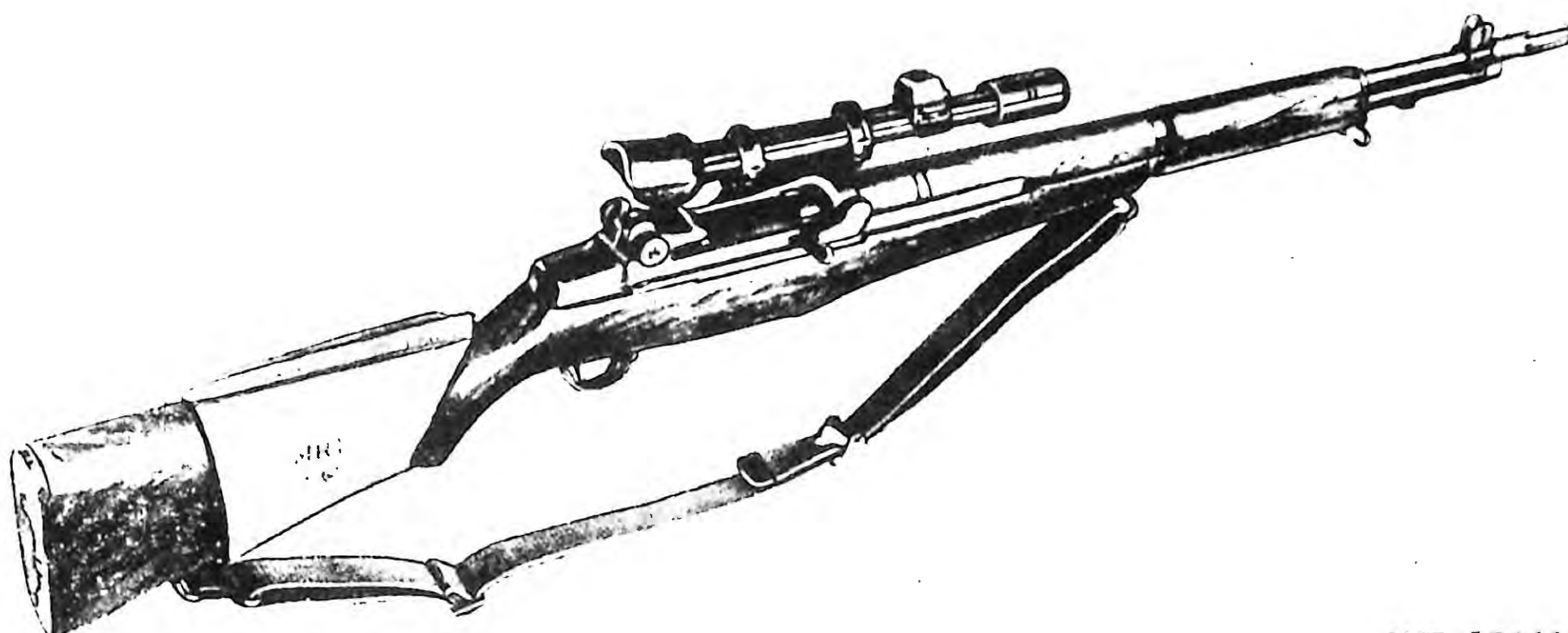
a. *General.* The Rifles, M1, M1C (Sniper's)

and M1D (Sniper's) (figs. 1-1 thru 1-3) are clip-fed, gas-operated, air-cooled, semiautomatic shoulder weapons.



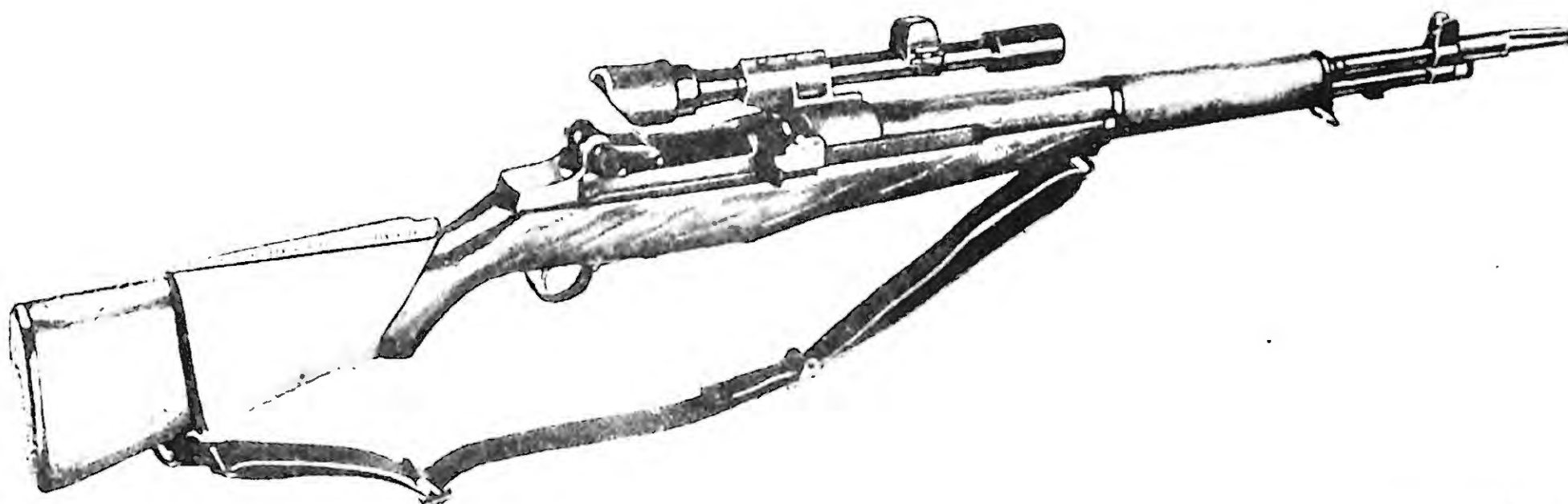
WE 19660

Figure 1-1. Caliber .30 Rifle, M1 — right rear view.



WE 19661

Figure 1-2. Caliber .30 Rifle, M1C — right rear view.



WE 19662

Figure 1-3. Caliber .30 Rifle, M1D — right rear view.

b. *Differences in Models.*

(1) The M1C has a telescope mounted to the receiver.

(2) The M1D has a telescope mounted to the barrel.

(3) The M1C and M1D also require a flash hider and a cheek pad.

1-5. **Tabulated Data**

a. *Rifle, M1.*

Weight of rifle w/o equipment -- 9.5 lb approx

Weight of rifle w/bayonet ---- 10.5 lb approx

Length of rifle ----- 43 in

Length of barrel ----- 24 in

*Muzzle velocity ----- 2,750—2,800 fps

*Maximum effective range ----- 500 yd

*Maximum effective rate of fire (aimed rounds per minute) ----- 16—24

*Number of cartridges in clip ----- 8

*Types of ammunition ----	Ball, armor-piercing-incendiary, tracer, blank, rifle grenade cartridge and dummy	b. <i>Rifles, M1C (Sniper's) and M1D (Sniper's).</i>
		Weight w/equipment (telescope, flash hider, gun sling, and cheek pad) ----- 11.75 lb approx
		Length of rifle w/flash hider ---- 46-1/8 in

*This information also applies to the M1C and M1D Rifles.

CHAPTER 2

OPERATING INSTRUCTIONS

Section I. CONTROLS

2-1. General

This section describes, locates, illustrates, and furnishes the operator with essential information pertaining to the various controls provided to properly operate the materiel.

2-2. Controls

Refer to table 2-1.

Table 2-1. Controls

Item	Description/ location	Purpose
Safety	Fig 2-1	To prevent accidental firing.
Trigger	Fig 2-1	To release hammer to effect firing.
Windage knob	Fig 2-1	To adjust lateral movement of rear sight.
Elevating pinion	Fig 2-1	To adjust elevation of aperture.
Clip latch	Fig 2-1	To hold clip in receiver until last round is fired.

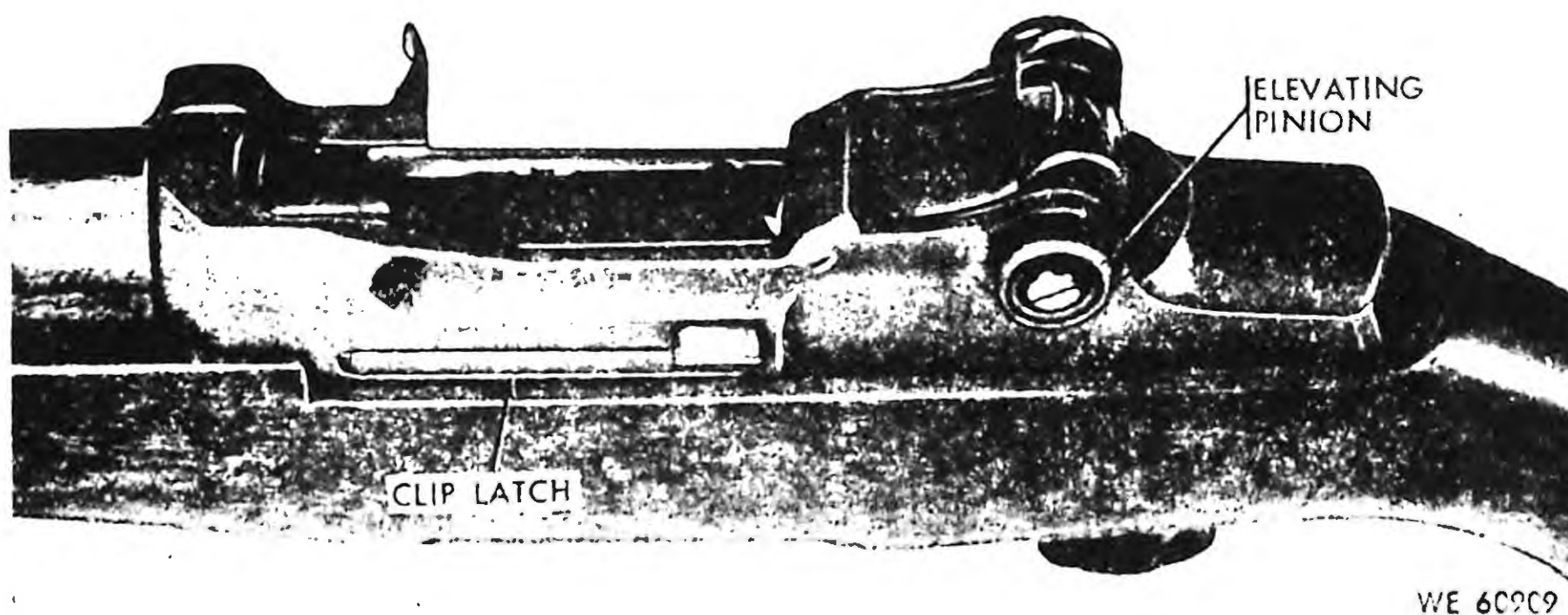
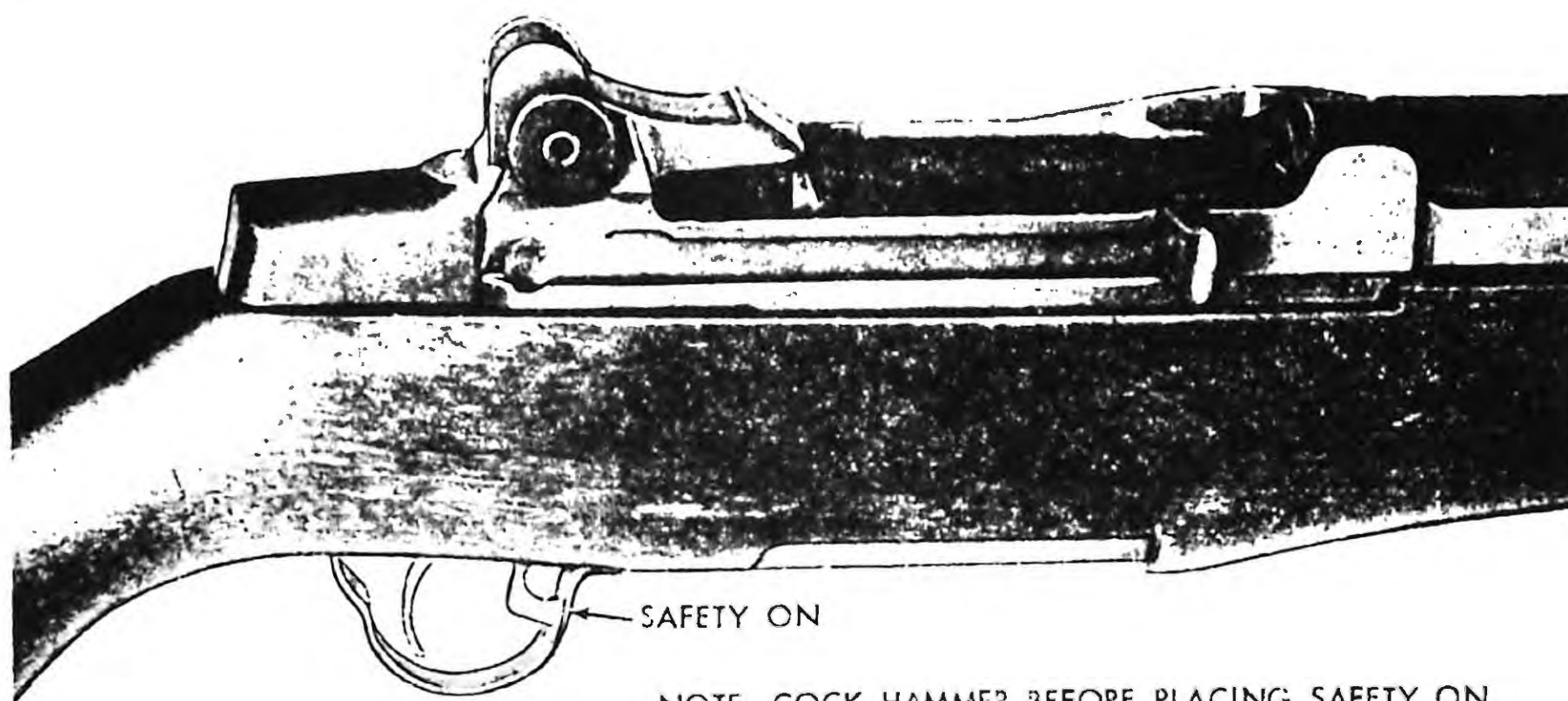
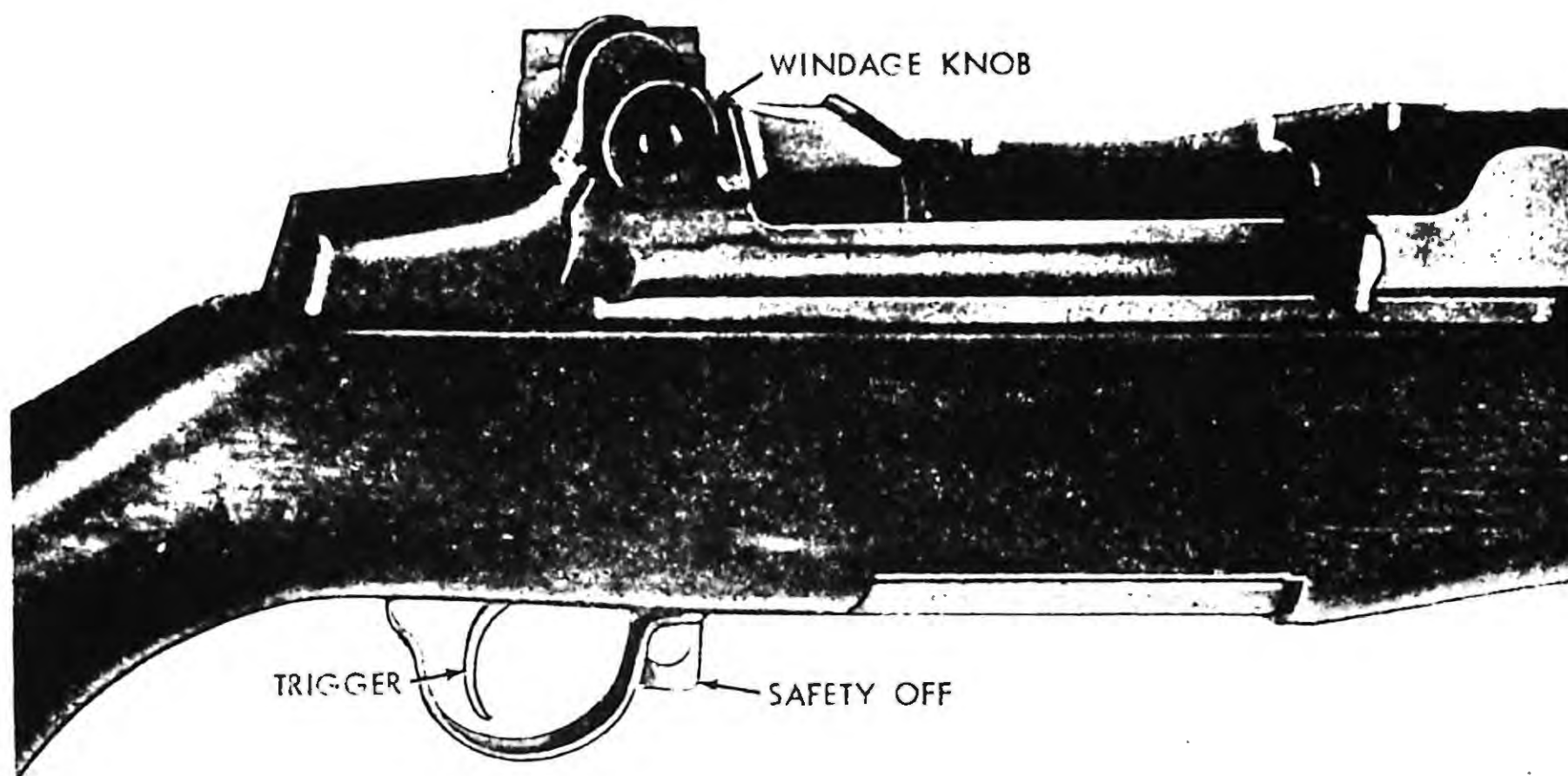


Figure 2-1 Controls.

Section II. OPERATION UNDER USUAL CONDITIONS

2-3. General

This section contains instructions for the operation of the rifles under conditions of moderate temperatures and humidity. Instructions for operation under unusual conditions are covered in section IV.

2-4. Preparation for Firing

a. Examine bore, make certain it is free of powder fouling or corrosion.

b. Check gas cylinder lock screw for secure installation.

c. Check ammunition, make certain it is clean and that it is of the proper type and grade.

d. Cock the rifle and place the safety in safe position (fig. 2-1).

2-5. Service Before Firing

Perform the before firing operations as indicated in table 3-3.

2-6. Loading

Refer to FM 23-5.

2-7. Zeroing

Refer to FM 23-5.

2-8. Misfire, Hangfire, and Cook-off

Refer to FM 23-5 and paragraph 2-9b, below.

2-9. Procedures for Removing a Round in Case of Failure to Fire

a. *General.* After failure to fire, due to misfire, the following general precautions, as applicable, will be observed until the round has been removed from the weapon and the cause of failure determined.

(1) Keep the weapon trained on the target and see that all personnel are clear of the muzzle.

(2) Before retracting the bolt and removing the round, see that personnel, not required for operation, are cleared from vicinity.

(3) Make certain the round, removed from the weapon, is kept separate from other rounds until it has been determined whether the round or weapon is at fault. If the weapon is determined to be at fault, the round may be reloaded.

b. *Time Intervals.* The definite time intervals for waiting, after failure of weapon to fire, are prescribed as follows: Always keep the round in the chamber for five seconds from the time a misfire occurs to insure against an explosion outside of the gun in event a hangfire develops. If the barrel is hot and a misfire stops operation of the gun, wait five seconds with the round locked in the chamber to insure against hangfire dangers (a hangfire will occur within five seconds after the primer is struck), then extract the round immediately to prevent cook-off. If the round cannot be extracted within an additional five seconds, it must remain locked in the chamber for five minutes because of the possibility of a cook-off. Also in the event the barrel is hot and a misfire occurs when attempting to resume firing after an intentional cessation of firing, the round should remain locked in the chamber for five minutes because of the possibility of a cook-off.

2-10. Service During Firing

Perform the during firing operations as described in the operators preventive-maintenance services (table 3-3).

2-11. Unloading

Refer to FM 23-5.

2-12. Service After Firing

Perform the after firing operations as described in the operator's preventive-maintenance services (table 3-3).

Section III. OPERATION OF MATERIEL USED IN CONJUNCTION WITH MAJOR ITEM

2-13. General

The following materiel is not normally used continually. Therefore, it is necessary to protect from weather and dampness in storage. Clean and lubricate materiel as required, whether in use or in storage.

2-14. Equipment

a. *Grenade Launcher, M7A3 and Grenade Launcher Sight, M15.* Refer to FM 23-30.

b. *Bayonet-Knife, M5 and M5A1 and Bayonet-Knife Scabbard, M8A1.* Keep bayonet in scabbard except when removed for training, inspections, cleaning, repair, or for use in combat or danger zones.

c. *Winter Trigger Kit.* Use the winter trigger kit only in extreme cold operation and on authority of unit commander.

Section IV. OPERATION UNDER UNUSUAL CONDITIONS

2-15. General

Report any chronic failure of materiel resulting from subjection to extreme conditions (par 1-2).

2-16. Operation in Extreme Cold

a. In climates consistently below 0°F, it is necessary to prepare the rifle for cold-weather operation. The rifle should be thoroughly cleaned with SD, dry cleaning solvent, and lubricated with LAW, weapons lubricating oil.

b. Rifles should be free of moisture and excess oil. Moisture or too much oil on the working parts will cause them to be sluggish in operation, or perhaps to fail completely.

c. Exercise moving parts through their entire range at required intervals. This movement helps prevent parts from freezing in place and reduces effort required to operate them.

d. Materiel not in use and stored outside must be protected with proper cover.

Note. Transferring weapon from cold to warm air may cause moisture to collect. If the weapon is brought into a warm room, allow it to reach room temperature before cleaning and lubricating as required.

2-17. Operation in Extreme Heat

a. *Hot, Dry Climates.*

(1) The film of oil necessary for operation and preservation dissipates quickly in hot climates. Inspect the rifle, paying particular

attention to all hidden surfaces such as bolt and lug, operating rod and recess, cam surfaces and bolt locking recess in receiver, where corrosion might occur and not be quickly noticed.

(2) Perspiration from the hands contributes to rusting because it contains acids and salts. After handling materiel, clean, wipe dry, and restore the oil film using PL special, general purpose lubricating oil.

(3) Clean and oil the bore more frequently than usual.

(4) Apply linseed oil to wooden parts to prevent drying.

b. *Hot, Damp, and Salty Atmosphere.*

(1) See a(1) and (2) above under hot, dry climates.

(2) Inspect materiel frequently because of increased possibility of rust.

(3) When materiel is active, clean and lubricate the bore and exposed metal surfaces more frequently than prescribed for normal service.

(4) Moist and salty atmosphere tend to emulsify oils and greases and destroy their rust-preventive qualities. Inspect all parts frequently for corrosion.

(5) When materiel is inactive, cover metal surfaces with a film of PL special, general purpose lubricating oil.

(6) Apply linseed oil to wooden parts to keep out moisture.

2-18. Operation in Dusty or Sandy Areas

a. Clean and lubricate the materiel more frequently in sandy or dusty areas. Exercise particular care to keep sand out of mechanisms when carrying out inspecting and lubricating operations. Shield parts from flying sand with tarpaulins during disassembly and assembly operations.

b. Before operating in sandy areas, remove lubricant from bolt, barrel and receiver, operating rod, and trigger housing assembly, as they will pick up sand and from an abrasive which will cause rapid wear. Dry surfaces wear less than surfaces coated with lubricants contaminated with sand. Clean and lubricate all exposed parts after action is over.

2-19. Hand-Carried Fording

a. No special lubrication is required before fording.

b. Protect from water splashes.

c. If immersion does occur, proceed as directed in paragraph 2-20.

2-20. Maintenance After Immersion

a. *General.* During hand-carried fording, water seepage into bolt, trigger housing, receiver, and operating rod assembly will usually occur. It is advisable, therefore, that the service outlined below be accomplished on all weapons submerged in water as soon as practical to prevent damage to the weapon.

b. *Procedures.*

(1) After submersion in salt water, wash in clear water to remove corrosive salts.

(2) Drain all trapped moisture and wipe dry.

(3) Assemblies which require disassembly for proper lubrication must be disassembled, dried, and lubricated as soon as possible.

Note. Items not authorized for operator disassembly/assembly must be cleaned by organizational maintenance personnel.

CHAPTER 3

SERVICE AND MAINTENANCE INSTRUCTIONS

Section I. SERVICE UPON RECEIPT OF MATERIEL

3-1. General

a. When a new or reconditioned Rifle, M1, M1C (Sniper's) or M1D (Sniper's) is received, it is the responsibility of the officer in charge to determine whether the materiel has been properly prepared for service by the supplying organization and to be sure it is in condition to perform its function.

b. All basic issue items will be checked with the listing in appendix B.

c. A record will be made of all missing parts, tools, and equipment, and of any malfunctions. Corrective action should be initiated as soon as possible.

3-2. Services

Refer to table 3-1 for services performed on receipt of materiel.

Table 3-1. Service upon Receipt of Materiel

Step	Action	Reference
RIFLES		
<i>Note.</i> When new rifles are received, they are sealed in vapor proof, volatile corrosion inhibitor (VCI) bags. They are packed two in a carton and five cartons in a box.		
1	Remove carton from box and rifle from carton and bags.	App B, Sec II
2	Check for missing items. <i>Note.</i> Items must agree with Basic issue items list.	
3	Clean and lubricate bore and chamber.	Par 3-11a and 3-6
4	Field strip and inspect for missing parts and proper assembly.	FM 23-5
5	Clean and lubricate the following: Locking lugs of bolt Bolt guides Camming surfaces of operating rod	Par 3-11a and 3-6
6	Perform "before operation" preventive maintenance checks and services.	Table 3-3

Section II. REPAIR PARTS, SPECIAL TOOLS AND EQUIPMENT

3-3. Tools and Equipment

Tools and equipment issued with the Caliber .30 Rifles, M1, M1C (Sniper's) and M1D (Sniper's) are listed in the basic issue items list, appendix B.

3-4. Special Tools and Equipment

Special tools and equipment are listed and illustrated in appendix B.

3-5. Maintenance Repair Parts

Organizational maintenance repair parts are listed and illustrated in appendix B.

Section III. LUBRICATION INSTRUCTIONS

3-6. General

a. Make certain all metal parts have been cleaned with SD, dry cleaning solvent. Dry thoroughly. Apply a light coat of preservative, PL special, general purpose lubricating oil, for above 0°F, and LAW, weapons lubricating oil, for below 0°F. Apply a light coat of rifle grease to the following surfaces:

- (1) Locking lugs of bolt, operating lug, and recesses.
- (2) Bolt guide.
- (3) Cams on trigger and hammer.

b. Refer to table 3-2 for a listing of lubrication and cleaning materials and stock numbers for requisitioning purposes.

c. Refer to paragraph 2-16 thru 2-20 for specific lubrication instructions under unusual conditions.

Table 3-2. Materials Required for Maintenance Functions

Federal stock number	Item
8020-244-0153	BRUSH, ARTISTS: metal, ferrule, flat, chisel edges, 7/16 lg exposed bristle

Table 3-2. Materials Required for Maintenance Functions—Continued

Federal stock number	Item
7920-205-2401	BRUSH, CLEANING, TOOL AND PARTS: rd, 100 percent tampico fiber, 1-1/16 at ferrule brush dia, 2-7/8 clear of block brush lg
6850-965-2332	CARBON REMOVING COMPOUND: (P-C-111) (5 gal pail) CLEANING COMPOUND, RIFLE BORE: (CR)
6850-224-6656	2 oz can
6850-224-6657	6 oz can
6850-224-6658	1 qt can
6850-224-6663	1 gal can
5350-221-0872	CLOTH, ABRASIVE: crocus, ferric oxide and quartz, jean-cloth-backing, closed-coating, 9 w, 11 lg, 50-sh-sleeve (CA)
6850-281-1985	DRY CLEANING SOLVENT: (SD) (1 gal can)
	LUBRICATING OIL, GENERAL PURPOSE: (PL special)
9150-273-2389	4 oz can
9150-231-6689	1 qt can
9150-754-0063	GREASE, RIFLE: (1 lb can)
8010-221-0611	LINSEED OIL, RAW: (1 gal can) (TT-L-00215)
9150-292-9689	LUBRICATING OIL, WEAPONS: (LAW) for below zero operations (1 qt can)
7920-205-1711	RAG, WIPING: cotton (50 lb bale)

Section IV. PREVENTIVE MAINTENANCE CHECKS AND SERVICES

3-7. Preventive Maintenance

a. Purpose. To assure maximum operational readiness the operator must perform certain scheduled maintenance services at designated intervals. See basic preventive maintenance procedures (1) thru (3) under b below, and table 3-3.

b. Preventive Maintenance Performed by Operator.

- (1) Rust, dirt, grit, gummed oil, and water cause rapid deterioration of outer surfaces

and internal mechanisms. Exercise care to keep all surfaces clean and properly lubricated. Exterior surfaces of the weapon (or components) are not to be cleaned or polished with treated cloths or other commercial compounds.

- (2) Tighten loose parts.

(3) Every six months check to see if all modifications have been applied. Refer to DA Pam 310-7. No alteration of modification will be made except as authorized by modification work order.

Table 3-8. Preventive Maintenance Checks and Services

Item number	Interval				B—Before operation		A—After operation	
	Operator Daily		Org.		D—During operation		W—Weekly	
	B	D			Item to be inspected		Procedure	
1	1	-	-	—	M1, M1C, M1D		Hand cycle the action to insure binding is not present.	

Table 3-3. Preventive Maintenance Checks and Services—Continued

Item number	Interval				B—Before operation D—During operation			A—After operation W—Weekly		
	Operator Daily			Org.	Item to be Inspected	Procedure	Reference			
	B	D	A					W		
2	2	—	—	—	Trigger housing assembly	Actuate safety. Safety will not engage when hammer is forward.	Fig 2-1			
3	3	—	—	—	Barrel and receiver	Actuate windage knob and elevating pinion of rear sight group for proper operation. Aperture must retain position against thumb pressure.	Fig 2-1			
4	4	—	—	—	Barrel and receiver	Check front sight for secure installation.				
5	—	5	—	—	M1, M1C, M1D	Check gas cylinder lock screw for secure installation. Note. No not tighten lock screw when weapon is hot.				
6	—	—	6	—	M1, M1C, M1D	Clean chamber, bore, and all components.	Par 3-11a			
7	—	—	7	—	M1, M1C, M1D	Lubricate.	Par 3-6			

Section V. TROUBLESHOOTING

3-8. General

Refer to table 3-4 for troubleshooting.

Table 3-4. Troubleshooting

Malfunction	Probable cause	Corrective action	
		Operator	Organizational
Failure to load	Damaged clip	Replace clip.	
	Improperly assembled receiver components	Disassemble, and reassemble correctly (refer to FM 23-5).	
Failure to feed	Weak or broken operating rod spring	-----	Replace spring (2, fig B-3).
	Binding or damaged operating rod	-----	Evacuate to direct support maintenance personnel.
Bolt fails to close	Dirty or deformed ammunition	Clean or replace ammunition.	
	Cartridge case holding bolt out of battery	Pull bolt to the rear and remove dirty or deformed cartridge.	
	Dirty chamber	Clean chamber (par 3-11a).	
	Extractor does not snap over rim of cartridge	Clean bolt assembly and extractor recess (par 3-11a).	Replace extractor (5, fig B-3).
	Frozen ejector spring and plunger	-----	Replace ejector (6, fig B-3).
	Restricted movement of or damaged operating rod	-----	Evacuate to direct support maintenance personnel.
	Weak or broken operating rod spring	-----	Replace spring (2, fig B-3).
	Damaged receiver	-----	Evacuate to direct support maintenance personnel.
Failure to fire	Bolt not in battery	See "bolt fails to close".	
	Defective ammunition	Follow procedures for misfires (refer to FM 23-5).	
	Firing pin worn, damaged, or movement restricted	-----	Replace firing pin (8, fig B-3).
	Inadequate firing pin protrusion	-----	Evacuate to direct support maintenance personnel.
	Weak or broken hammer spring	-----	Replace hammer spring (4, fig B-2).
	Hammer damaged or broken	-----	Evacuate to direct support maintenance personnel.
Short recoil	Gas cylinder lock screw loose	Tighten lock screw (15, fig B-3).	Replace if necessary (15, fig B-3).
	Gas cylinder lock not fully seated	Tighten gas cylinder lock (16, fig B-3).	
	Carbon or foreign matter in gas cylinder or barrel port	Clean (par 3-11a).	
	Defective operating rod spring	-----	Replace spring (2 fig B-3).
	Gas cylinder not fully seated	-----	Remove and properly install gas cylinder (fig 3-5).

Table 3-4. Troubleshooting—Continued

Malfunction	Probable cause	Corrective action	
		Operator	Organizational
Short recoil — continued	Improper lubrication in cold weather	Clean and lubricate properly (par 2-16).	Evacuate to direct support maintenance personnel. Evacuate to direct support maintenance personnel.
	Unserviceable gas cylinder	-----	
	Unserviceable gas piston	-----	
Failure to extract	Cartridge seized in chamber	Remove cartridge and clean chamber (par 3-11a).	Replace extractor (5, fig B-3). Remove cartridge case (fig 3-1).
	Damaged or deformed extractor	-----	
Failure to eject	Ruptured cartridge case	-----	Replace ejector (6, fig B-3).
	Short recoil	See "short recoil".	
	Weak, frozen or distorted ejector spring and plunger	-----	
Failure of bolt to be held rearward after last round is fired	Insufficient rearward movement of bolt	See "short recoil".	Evacuate to direct support maintenance personnel. Evacuate to direct support maintenance personnel.
	Defective or broken operating rod catch	-----	
	Defective operating rod.	-----	
Failure of clip to eject	Broken or deformed latch spring	-----	Replace latch spring (27, fig B-3).

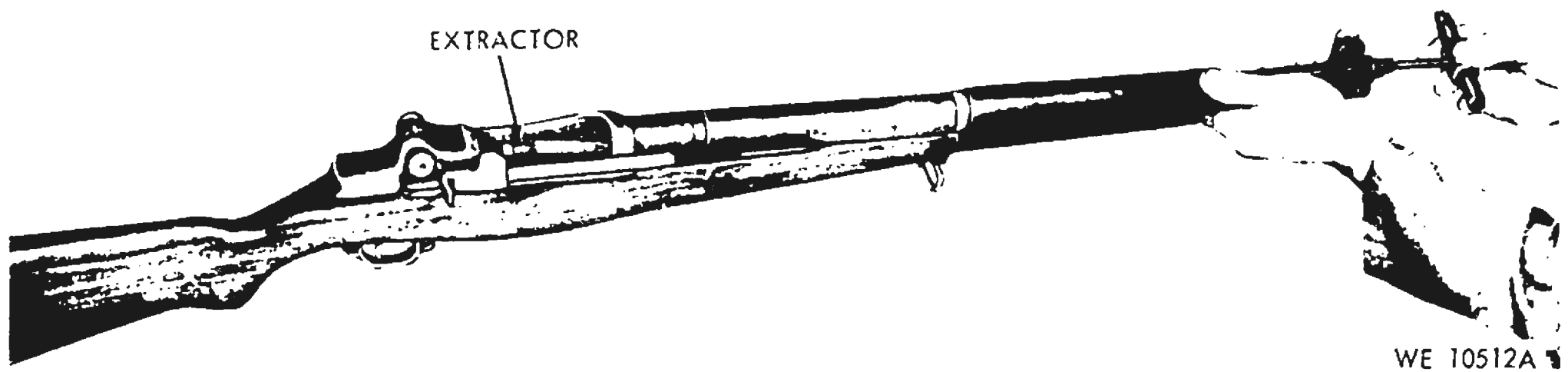


Figure 3-1. Removal of ruptured cartridge case.

Section VI. OPERATORS MAINTENANCE PROCEDURES

3-9. Removal/Installation of Major Groups and Assemblies

Refer to FM 23-5.

3-10. Disassembly/Assembly Barrel and Receiver Group

Refer to FM 23-5.

3-11. Cleaning, Inspection, and Repair

a. Cleaning.

(1) General.

(a) Immediately after firing, thoroughly clean bore with a bore brush saturated with CR, rifle bore cleaning compound.

(b) After cleaning with CR, run dry swabs thru the bore until the swabs are clean. Make certain that no trace of burned powder or other foreign substances are left in bore. Then apply a light coat of PL special, general purpose lubricating oil.

(c) Clean the chamber with a cleaning brush dipped in CR.

(d) Clean all surfaces exposed to powder fouling (bolt face, chamber, piston area of operating rod assembly and gas cylinder lock screw) with CR.

Note. This compound is not a lubricant. Wipe dry and oil all parts which require lubrication.

Caution. The use of abrasives, steel wool, wire brushes, or scrapers on the piston area of the operating rod assembly will

change critical dimensions that may cause the weapon to malfunction and is therefore prohibited. The application of lubricants to this area is also prohibited.

(e) For general usage, SD, dry cleaning solvent, may be used to clean or wash grease and oil from all parts of the rifle.

(2) General precautions in cleaning.

(a) SD, dry cleaning solvent, is flammable and should not be used near an open flame. Have fire extinguishers available when using this material. This solvent evaporates quickly and has a drying effect on the skin. If used without gloves it may cause cracks in the skin; in some individuals, mild irritation or inflammation may develop. Use only in well-ventilated areas.

(b) The use of gasoline, kerosene, benzene (benzol) or high-pressure water, steam, or air, for cleaning the weapon is prohibited.

(c) Do not dilute CR, rifle bore cleaning compound. Do not add antifreeze. Store cleaner in a warm place. Shake CR well before using.

(3) *Cleaning of sling and scabbard.* Clean mildewed canvas by scrubbing with a dry brush. If water is necessary to remove dirt, it must not be used until mildew has been removed. Oil and grease may be removed by scrubbing with issue soap and water. Rinse well with water and dry.

Caution. At no time is gasoline or any solvent to be used to remove oil or grease from canvas.

To prevent mildew, air canvas items frequently.

(4) *Cleaning.* Clean with a dry cloth. Periodically rub raw linseed oil on wooden components to prevent drying or the absorption of moisture.

Caution. Do not apply linseed oil to those surfaces next to the barrel. Application

of oil to these surfaces creates heavy smoking when the barrel is hot. This smoke will obscure the operator's vision. Portions which swell due to high moisture content should be dried before applying the linseed oil. Do not allow linseed oil to contact or remain on metal parts.

b. *Inspection.* Refer to paragraph 3-7.

c. *Repair.* Turn rifle into organizational maintenance personnel for any necessary repair.

Section VII. ORGANIZATIONAL MAINTENANCE PROCEDURES

3-12. Removal/Installation of Major Groups and Assemblies

Refer to FM 23-5.

3-13. Disassembly/Assembly of Major Group and Assemblies

Refer to figures 3-2 thru 3-8, B-2, and B-3.

Note. White arrows indicate disassembly, and black arrows indicate assembly.

3-14. Cleaning, Inspection, and Repair

a. *Cleaning.*

(1) *General.* Refer to paragraph 3-11a for general cleaning procedures.

(2) *Removing carbon.* On component parts which have a hard carbon residue it may be necessary to clean these parts with P-C-111, carbon removing compound. Observe the following procedures when using P-C-111.

Warning. Avoid contact of P-C-111 with skin. If contact does occur, wash compound off thoroughly with running water. A

good lanolin base cream is helpful if applied after washing off compound. Recommend use of gloves and protective equipment.

(a) Using a suitable container, fill with fresh compound.

(b) Before soaking a component in compound, remove all grease, dirt and oil as indicated in paragraph 3-11a. Place parts to be cleaned in a container and make certain they are completely immersed.

(c) Soak for 2 to 16 hours as necessary. Remove parts and drain. Rinse with water or solvent. To effectively remove carbon, brush with a stiff bristle brush (not wire) under running water.

(d) Wipe parts dry and lubricate (par 3-6).

b. *Inspection and Repair.*

Refer to table 3-5.

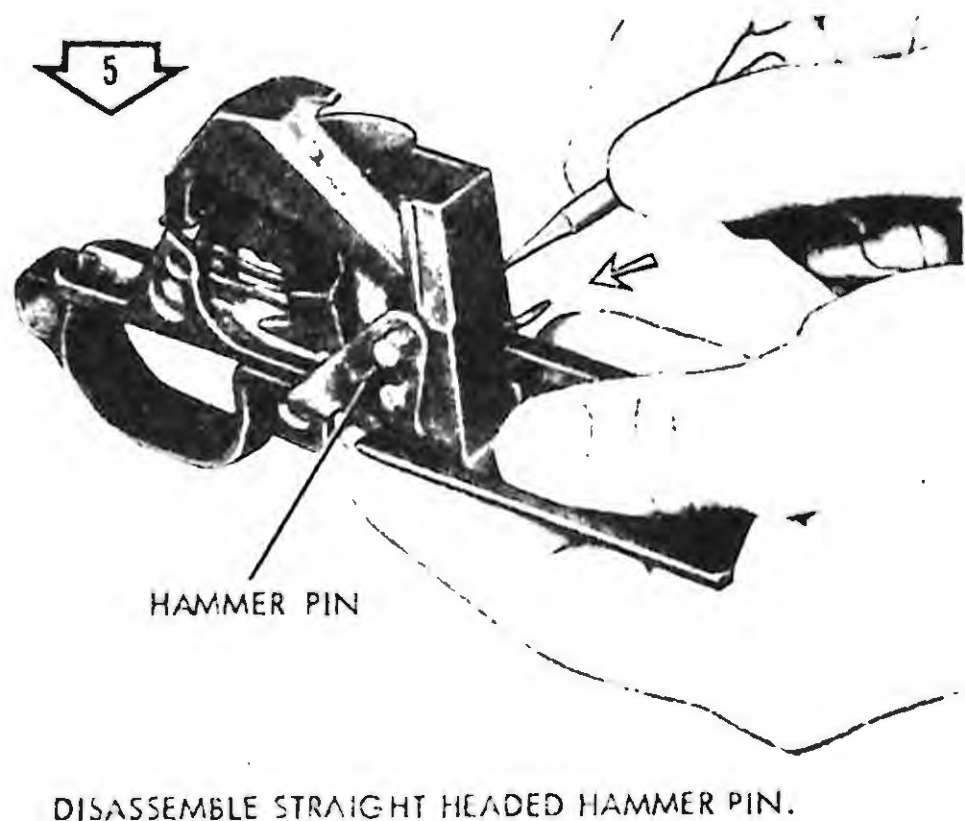
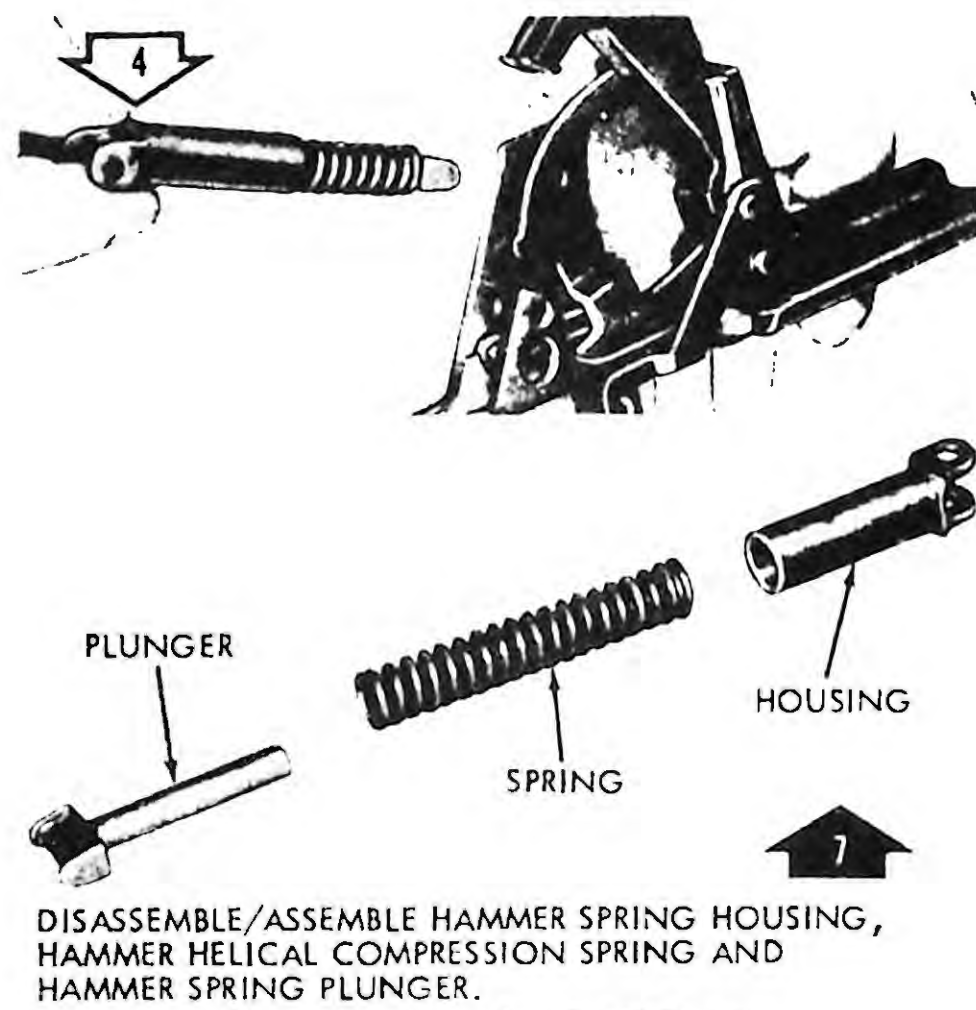
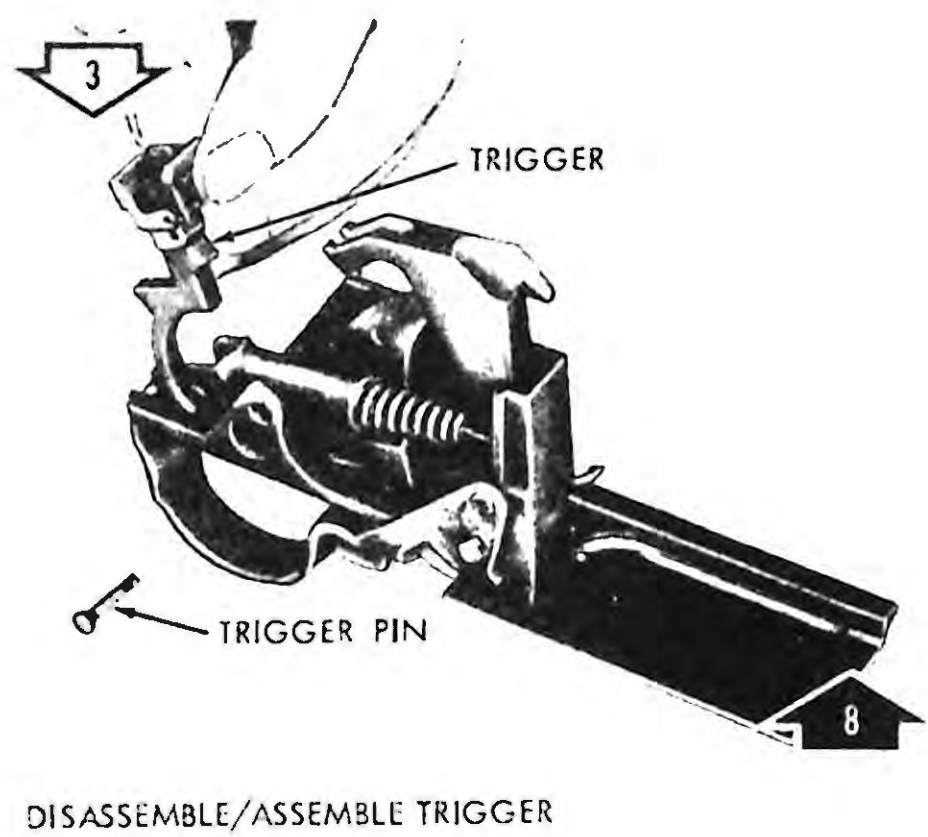
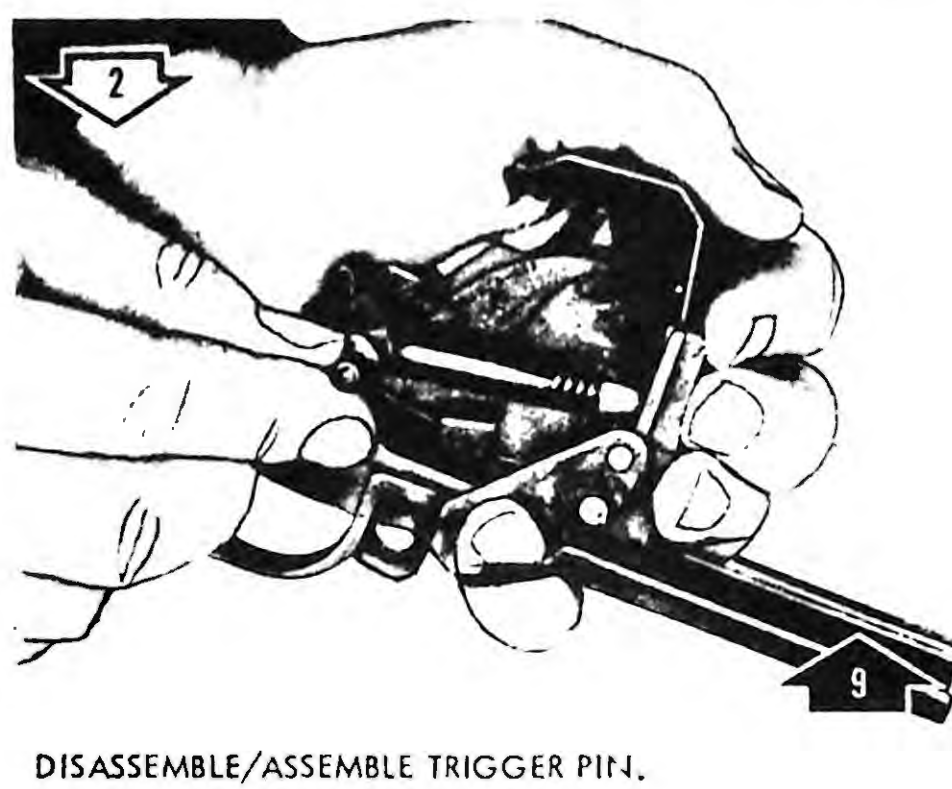
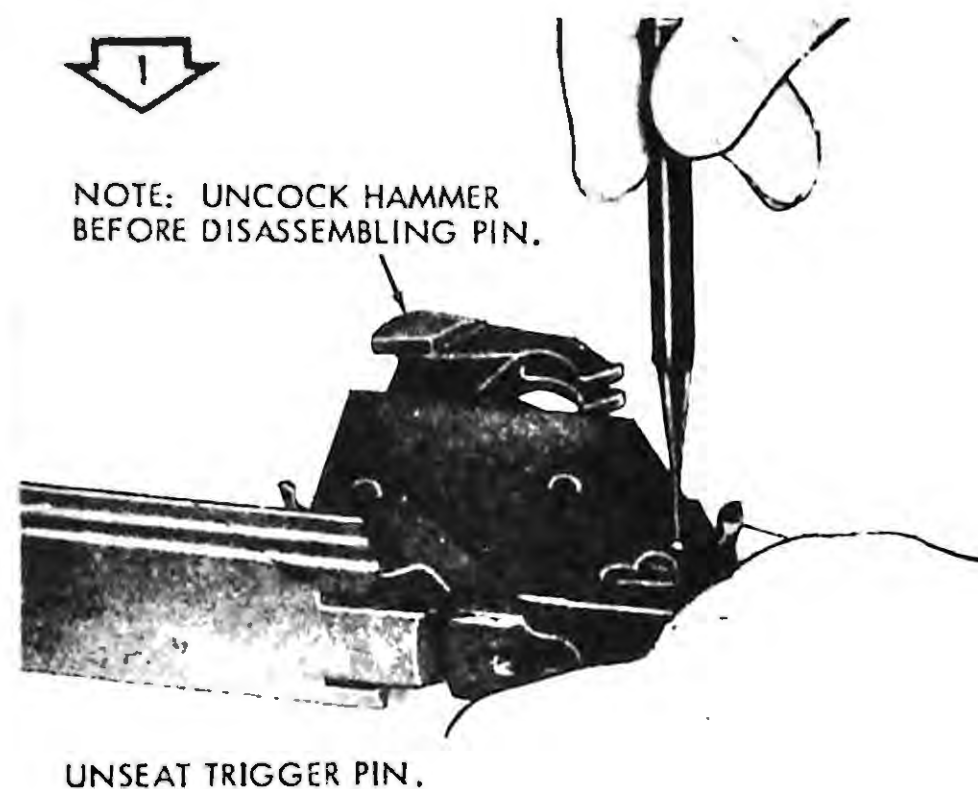
Note. For items not authorized at organizational maintenance level, evacuate to direct support maintenance personnel.

Table 3-5. Organizational Maintenance Functions

Item	Inspection and repair	Reference
Trigger housing assembly	Warning: Before starting an inspection, be sure to clean the weapon. Do not actuate the trigger until the weapon has been cleared. Inspect the chamber to insure that it is empty, and check to see that no ammunition is in position to be introduced.	
	Inspect for and remove burs.	
	Replace items 1, 2, 4, 6, 8, and 10, fig B-2, if worn or damaged.	

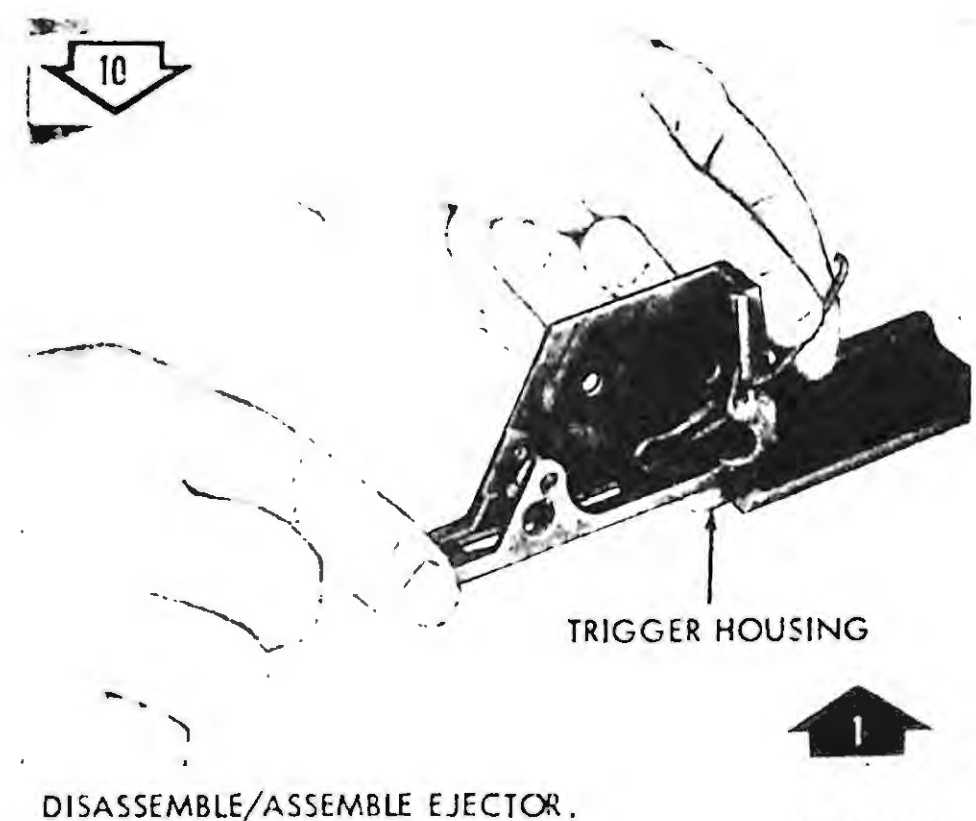
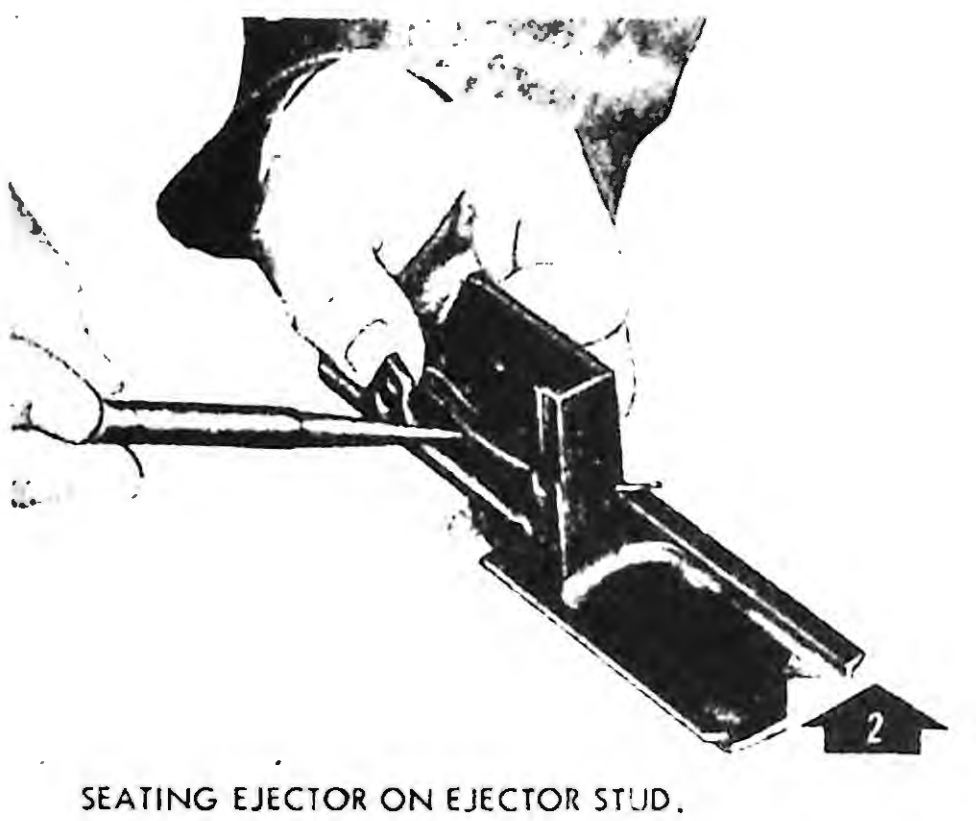
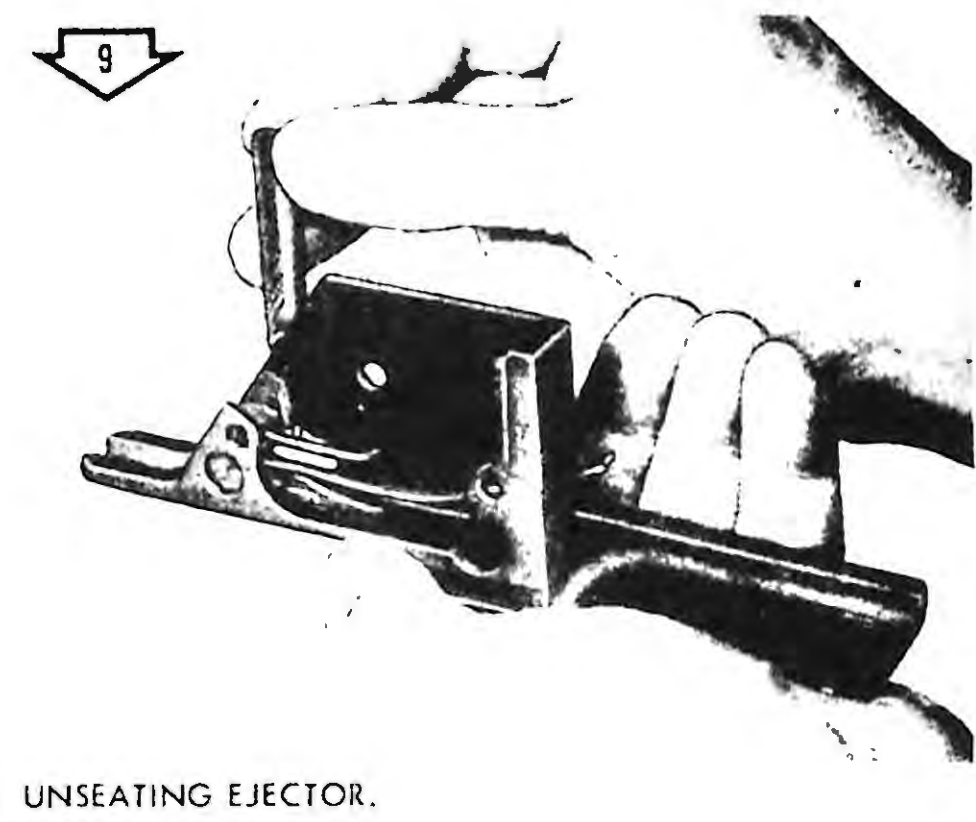
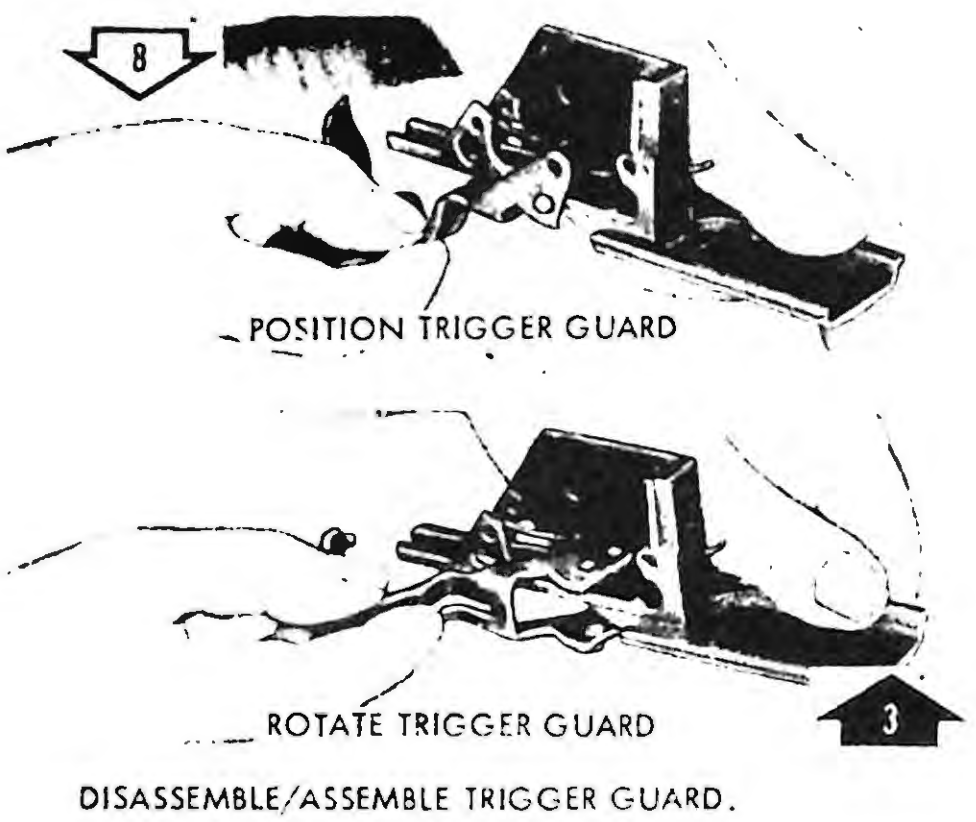
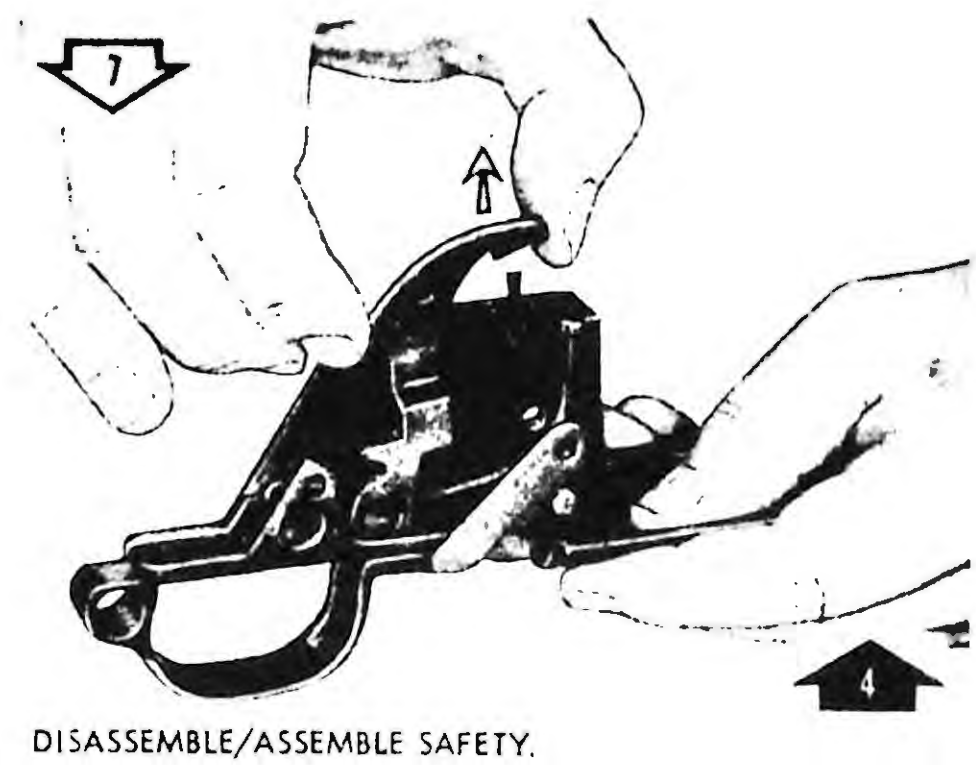
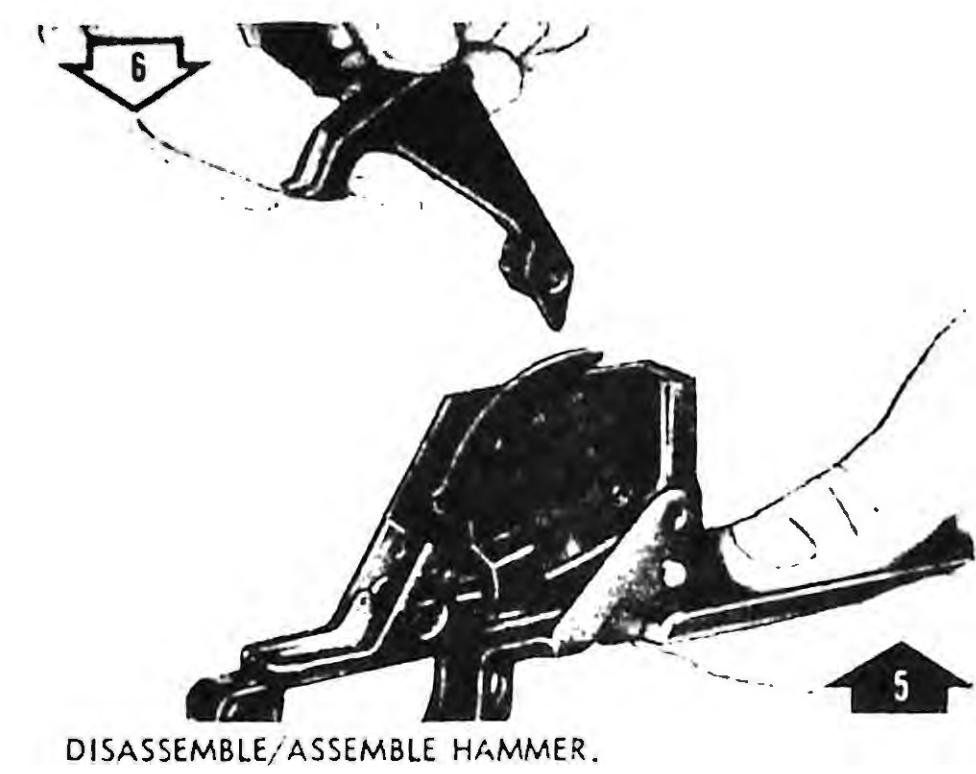
Table 3-5. Organizational Maintenance Functions—Continued

Item	Inspection and repair	Reference
Stock assembly	Inspect for cracks, breakage, or damage that would weaken the stock. Evacuate to direct support maintenance personnel. Check for dry, unoiled areas of wood. Oil with raw linseed oil only. Do not oil inside of stock. Make certain that the butt plate assembly is secure to the stock.	Fig 3-1
Barrel and receiver group	Inspect barrel for rust or obstructions in bore, and remove. Inspect for and remove burs. Inspect chamber for ruptured cartridge. Remove with the ruptured cartridge case extractor.	
Operating rod assembly group	Inspect for damage that may restrict movement of operating rod assembly. Replace item 2, fig B-3, if weak, broken, or kinked.	
Bolt assembly	Inspect for and remove burs. Inspect firing pin. If chips or cracks are present in tip area, or if badly worn, replace. Inspect ejector and spring assembly hole for distortion, burs or rust that would hinder free movement of the ejector assembly. Replace items 5, 6, 7, and 8, fig. B-3, if worn or damaged.	
Follower group	Replace item 10, fig B-3, if worn or damaged.	
Gas cylinder group	Inspect front sight. Make sure it is secure. Inspect gas cylinder lock screw. Make sure it is tight, but not "frozen" or cross-threaded in gas cylinder. Replace items 15, 18, and 19, fig B-3, if worn or damaged.	
Handguard group	Inspect for cracks that would impair serviceability. Replace items 20, 21, and 22, fig B-3, if damaged. <i>Note.</i> Evacuate damaged handguards to direct support maintenance personnel for repair. Inspect for damaged parts. Replace item 27, fig B-3, if worn or damaged.	
Rear sight group	Inspect for damaged parts. Inspect windage knob and pinion for binding. Replace items 28, 29, and 30, fig B-3, if worn or damaged. Raise the aperture to full height and reduce by four clicks. Grasp the rifle at the small of the stock with the thumb on the aperture. Press down on aperture. Aperture should not move under thumb pressure.	
Assembled rifle	Hand operate to assure proper functioning.	



WE 10525

Figure 3-2. Disassembly/assembly of trigger housing assembly. (1 of 2)



WE 10526

Figure 3-3. Disassembly/assembly of trigger housing assembly. (2 of 2)

1

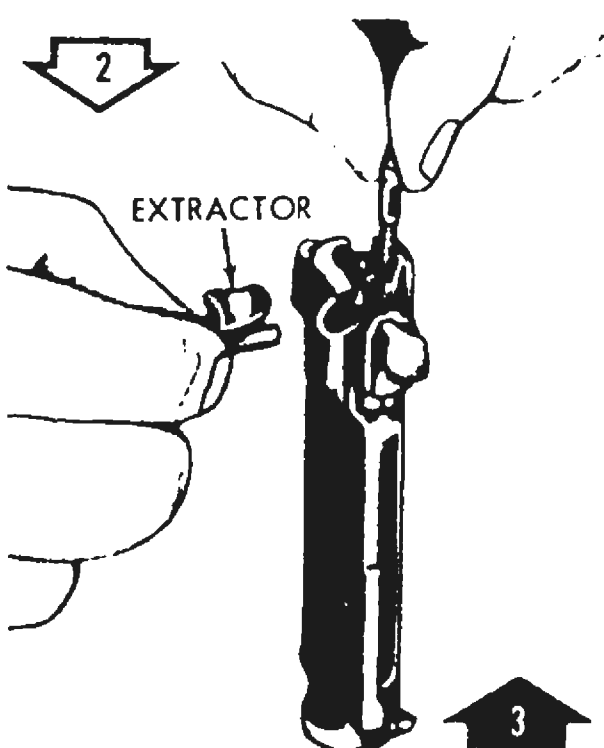
DISASSEMBLY: PLACE TOOL IN BOLT AS SHOWN, APPLY PRESSURE AND TURN CLOCKWISE TO REMOVE EXTRACTOR.
NOTE: BE CAREFUL TO PREVENT SPRING AND PLUNGER ASSEMBLIES FROM FLYING.

ASSEMBLY: HOLD BOLT IN HAND WITH THUMB ON EXTRACTOR, PLACE TOOL SO GROOVE IS OVER EJECTOR AND COMPRESS EJECTOR AND SPRING INTO BOLT, PUSH EXTRACTOR IN PLACE WITH THUMB.

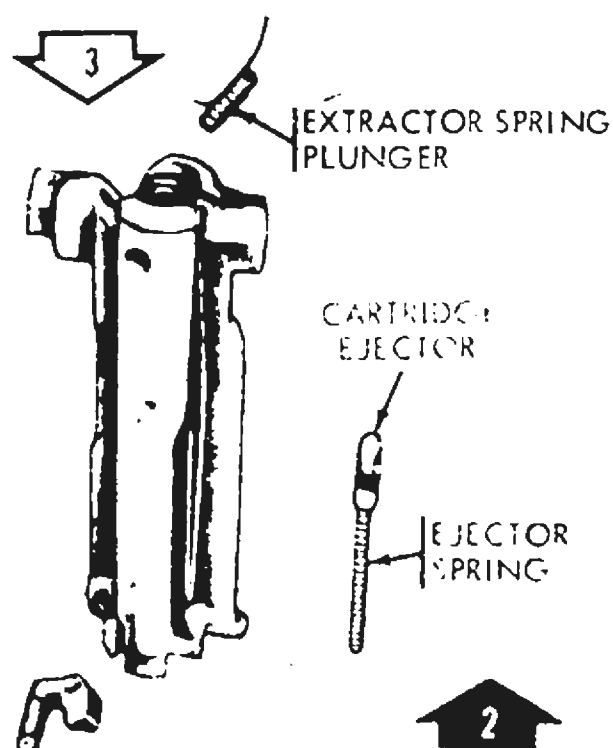


4

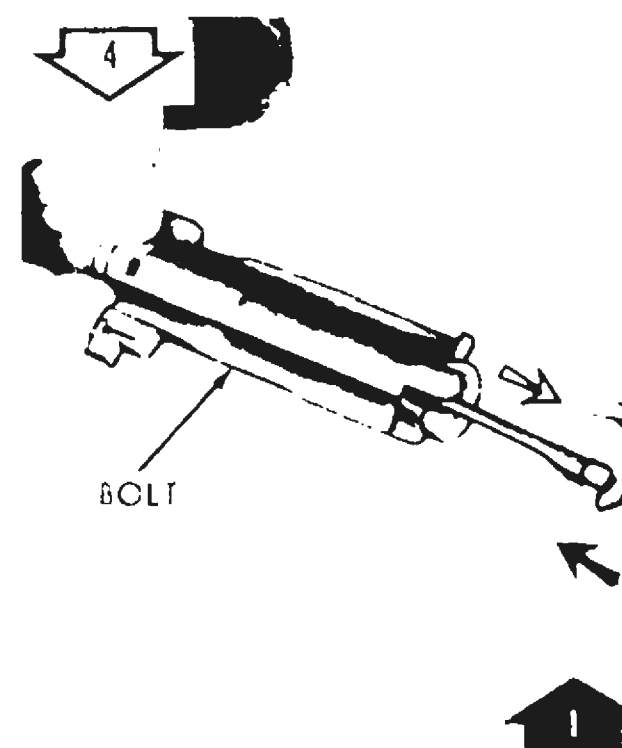
DISASSEMBLE/ASSEMBLE EXTRACTOR WITH COMBINATION TOOL.



DISASSEMBLE/ASSEMBLE EXTRACTOR AND CARTRIDGE EJECTOR.



DISASSEMBLE/ASSEMBLE EXTRACTOR SPRING PLUNGER.



DISASSEMBLE/ASSEMBLE FIRING PIN

WE 60910

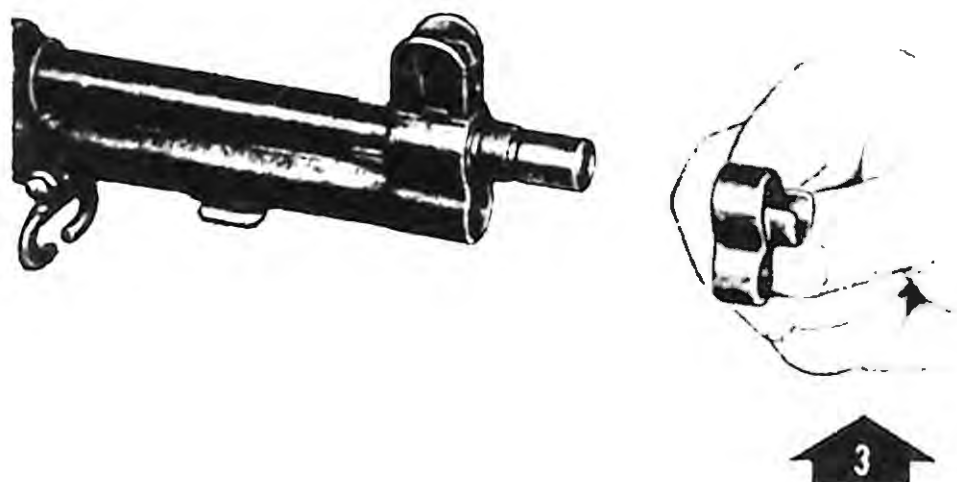
Figure 3-4. Disassembly/assembly of bolt assembly.

1 NOTE: USE COMBINATION TOOL TO LOOSEN GAS CYLINDER LOCK SCREW.

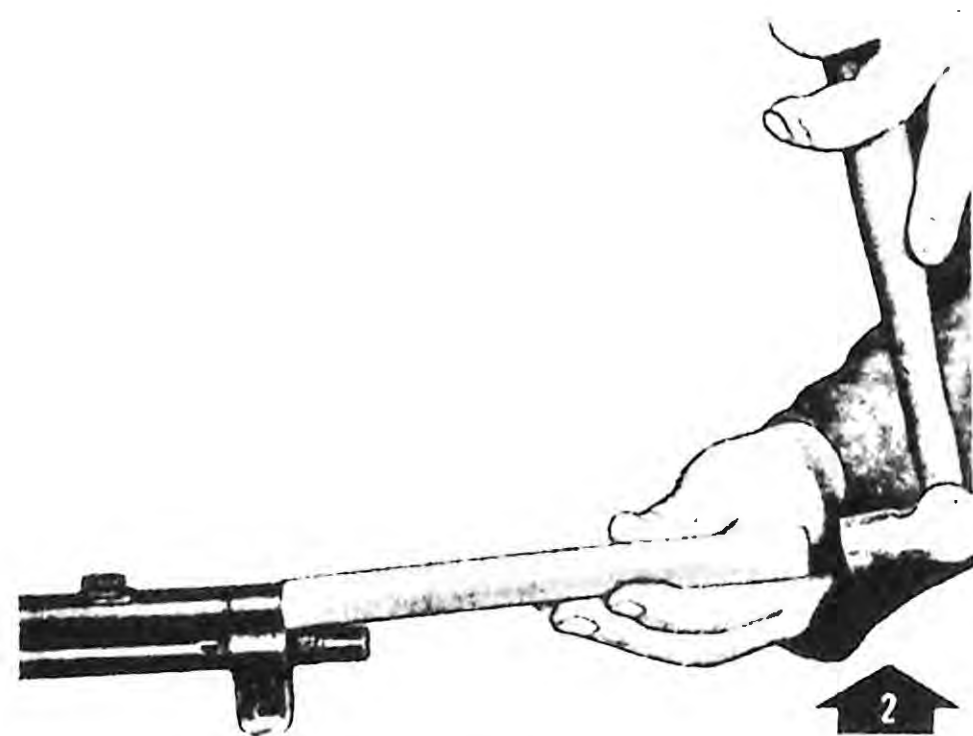


DISASSEMBLE/ASSEMBLE GAS CYLINDER LOCK SCREW.

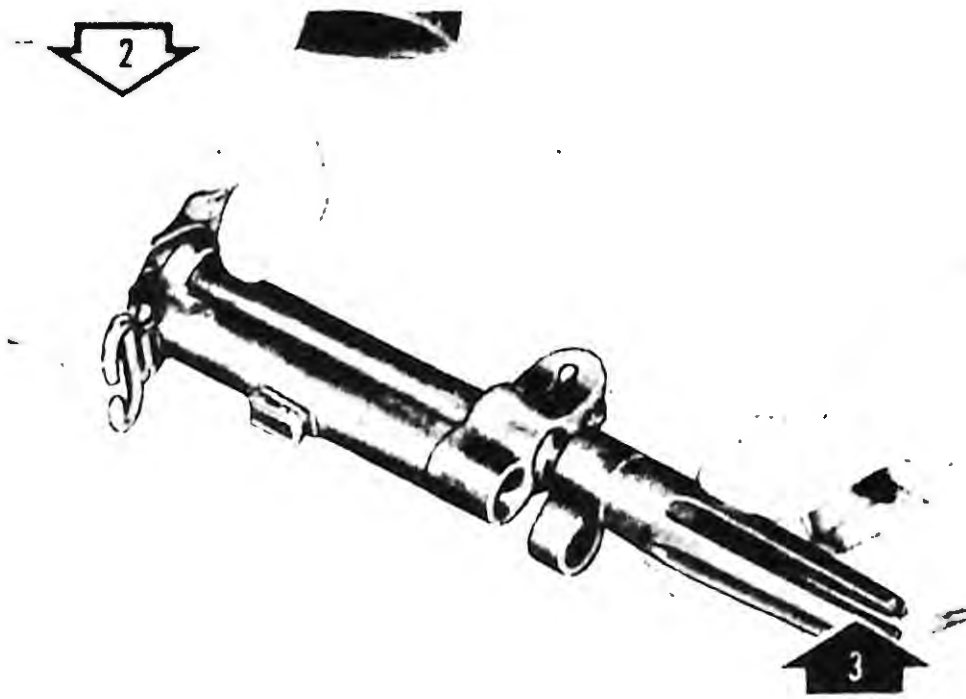
2



DISASSEMBLE/ASSEMBLE GAS CYLINDER LOCK.

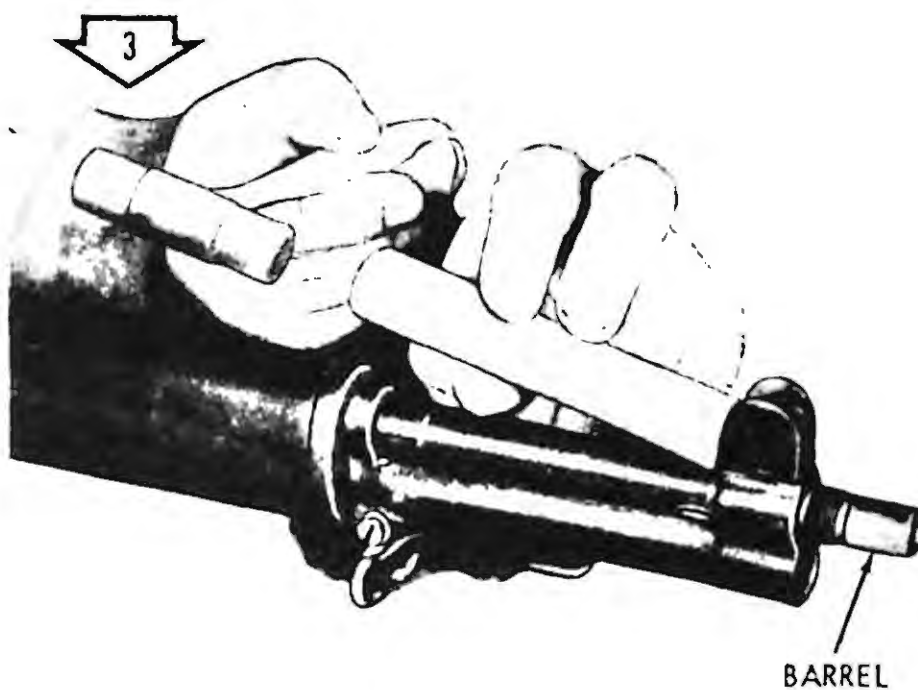


SECURE GAS CYLINDER ASSEMBLY TO BARREL.



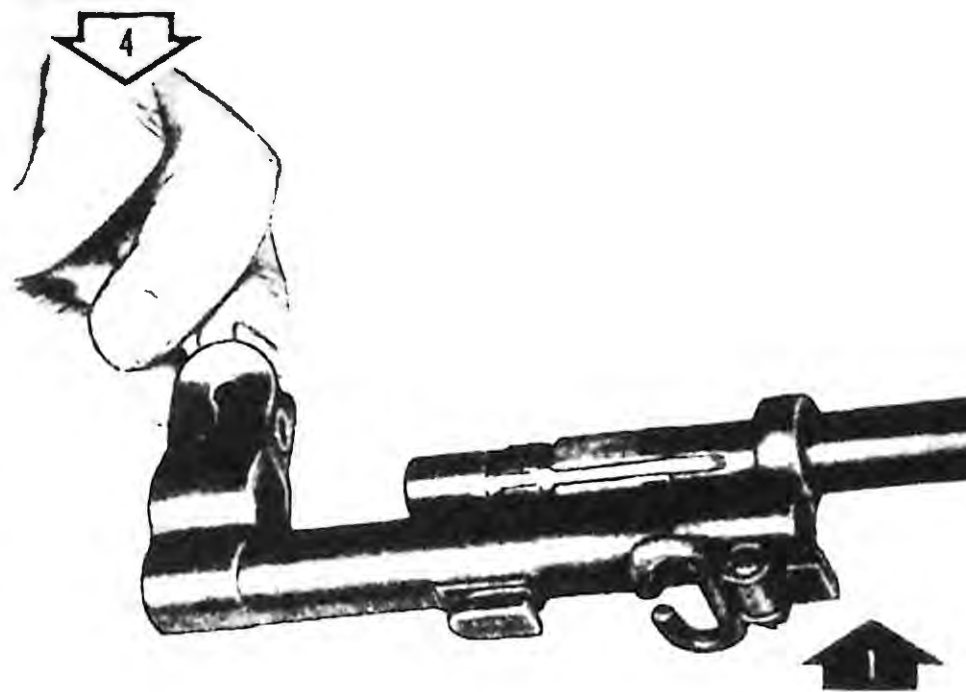
DISASSEMBLE/ASSEMBLE FLASH HIDER T37 FROM RIFLE MIC, MID.

3



LOOSEN GAS CYLINDER ASSEMBLY FROM BARREL.

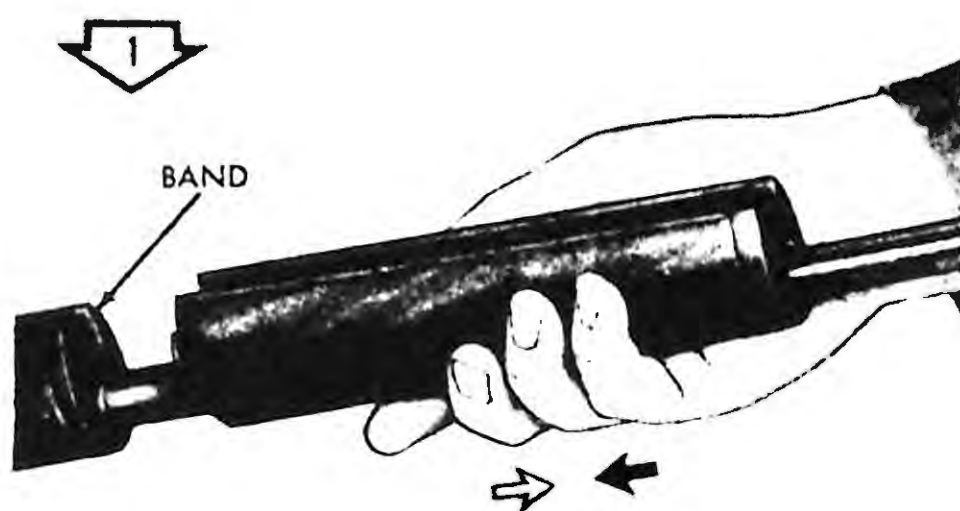
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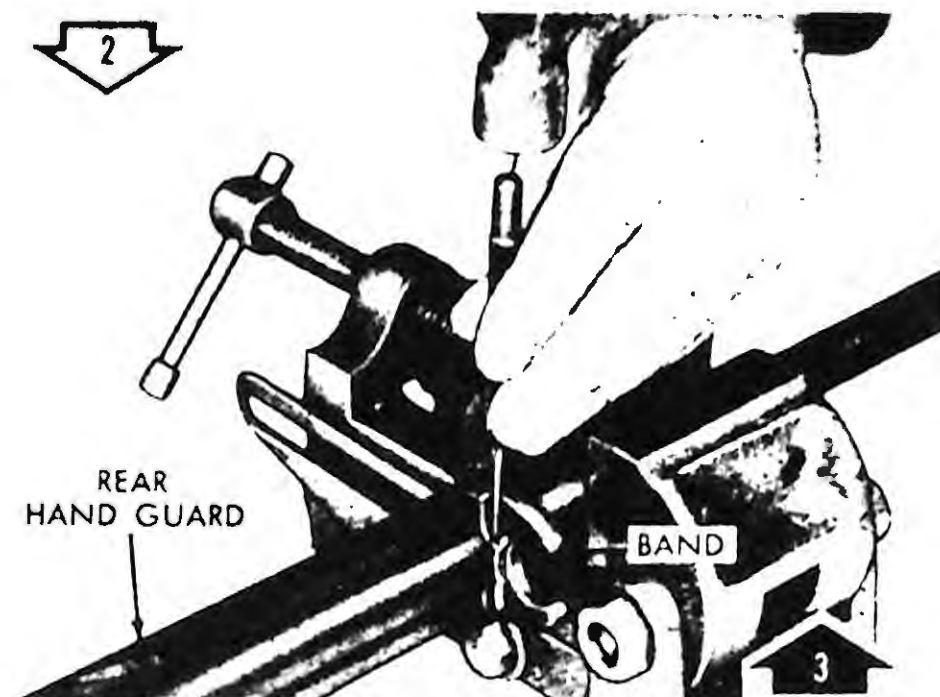
REMOVE/INSTALL GAS CYLINDER ASSEMBLY.

WE 1C444A

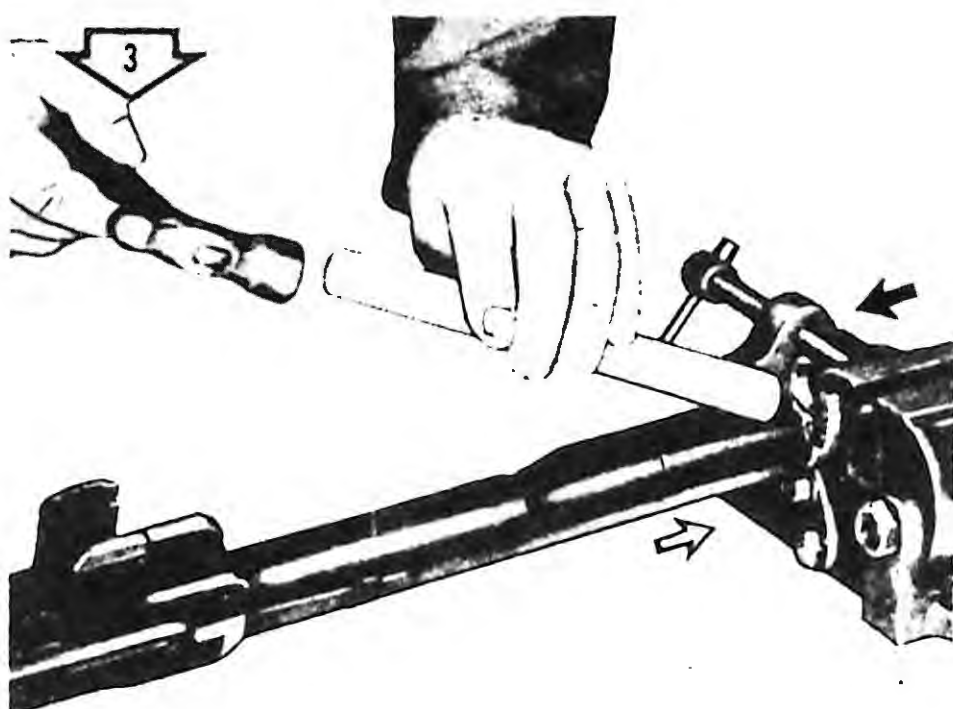
Figure 3-5. Disassembly/assembly of gas cylinder group.



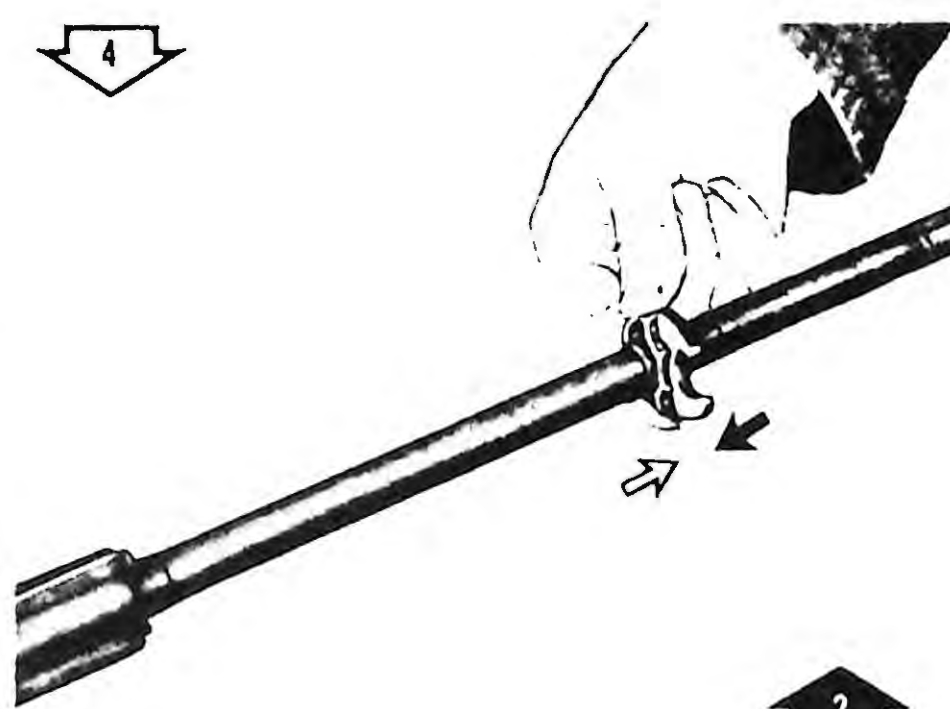
DISASSEMBLE/ASSEMBLE FRONT HAND GUARD



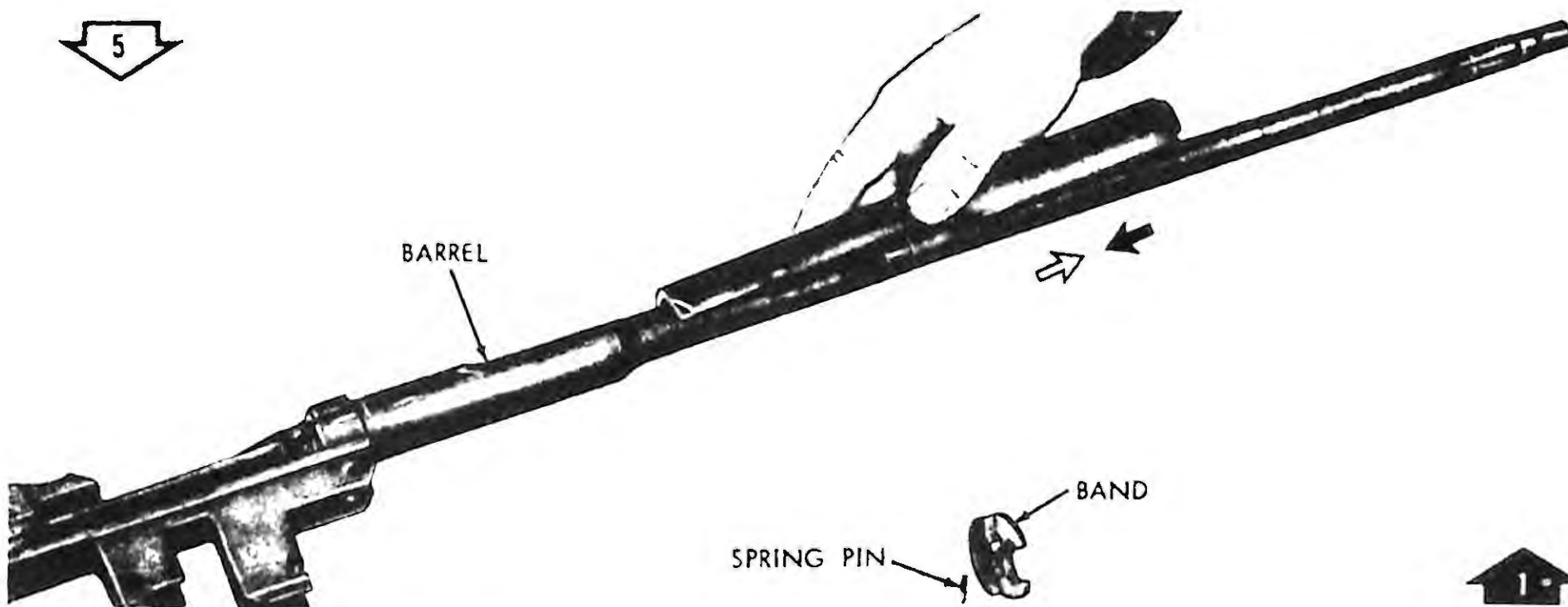
DISASSEMBLE/ASSEMBLE SPRING PIN.



LOOSEN/TIGHTEN BAND



DISASSEMBLE/ASSEMBLE BAND

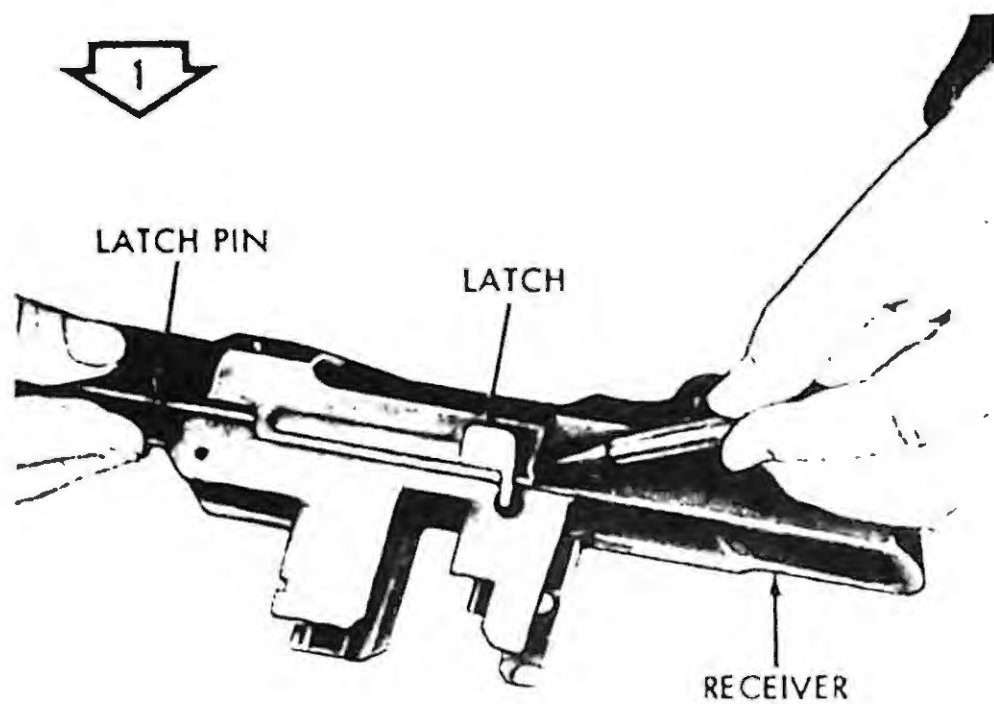


DISASSEMBLE/ASSEMBLE REAR HAND GUARD.

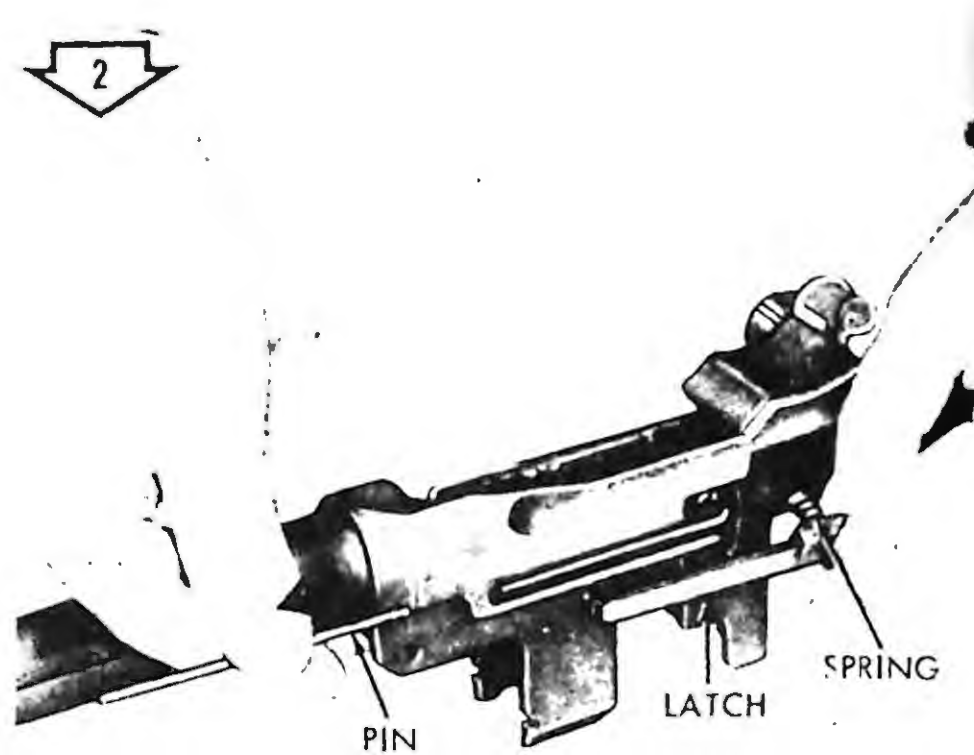


WE 10447A

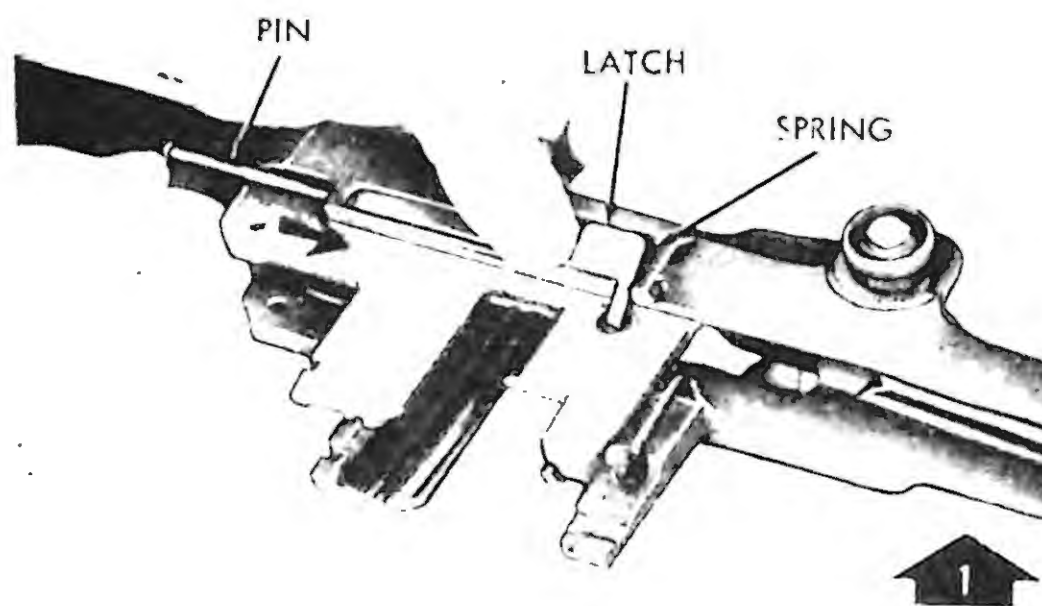
Figure 3-6. Disassembly/assembly of handguard group.



UNSEAT STRAIGHT HEADED LATCH PIN.



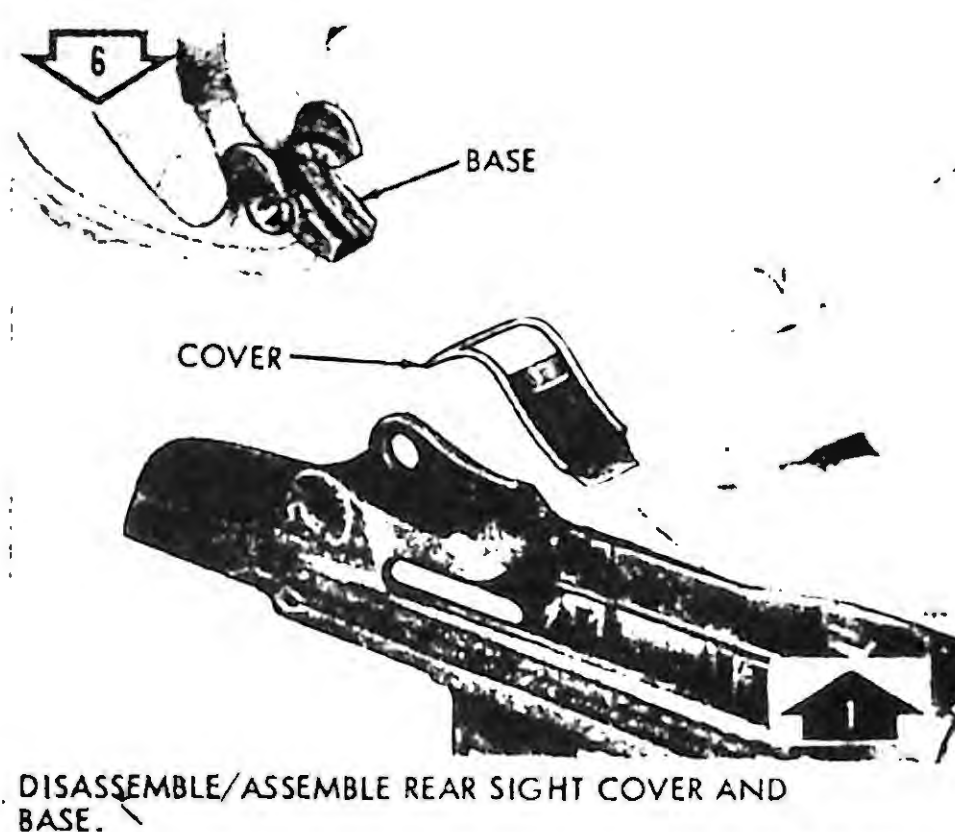
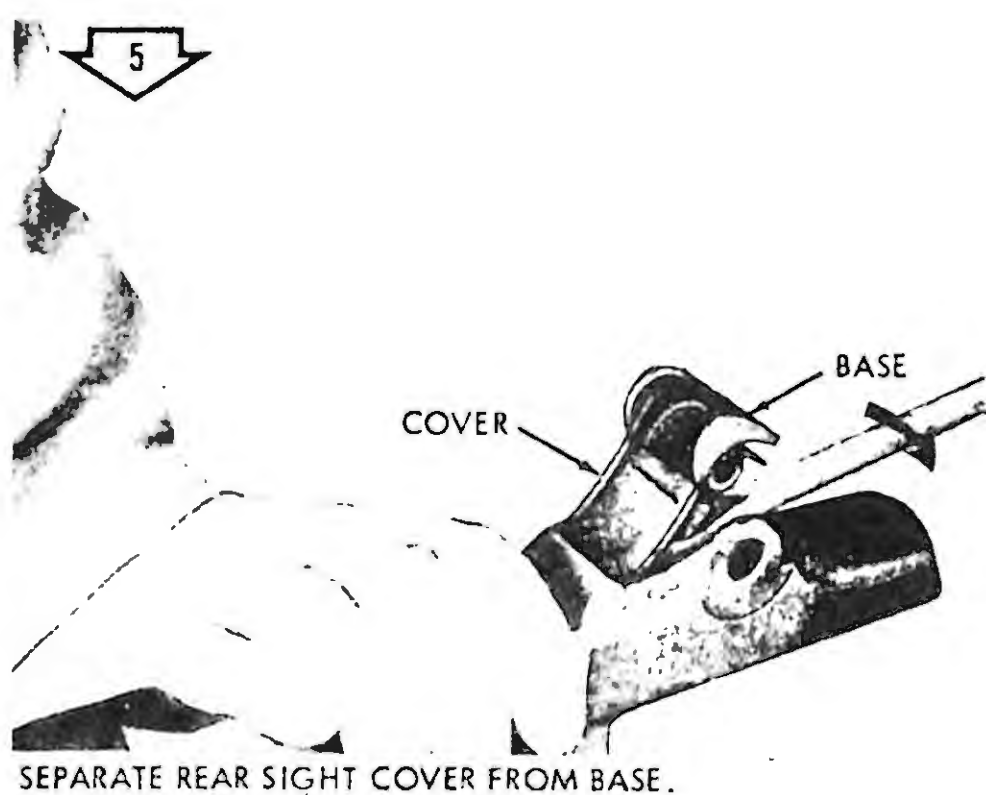
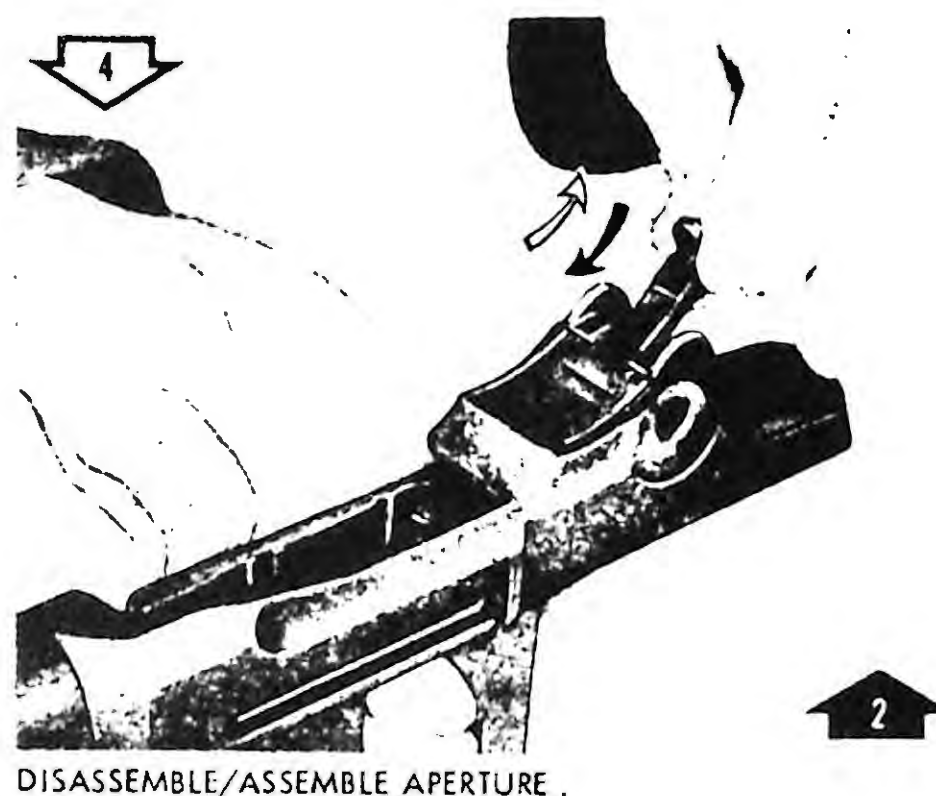
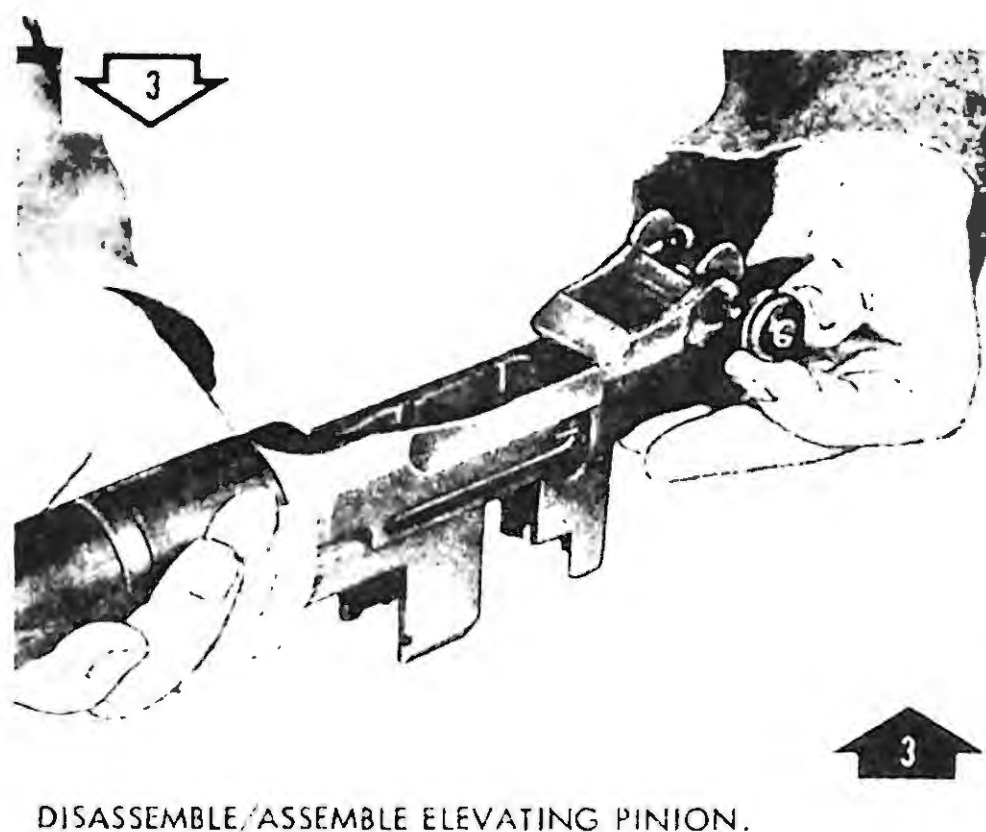
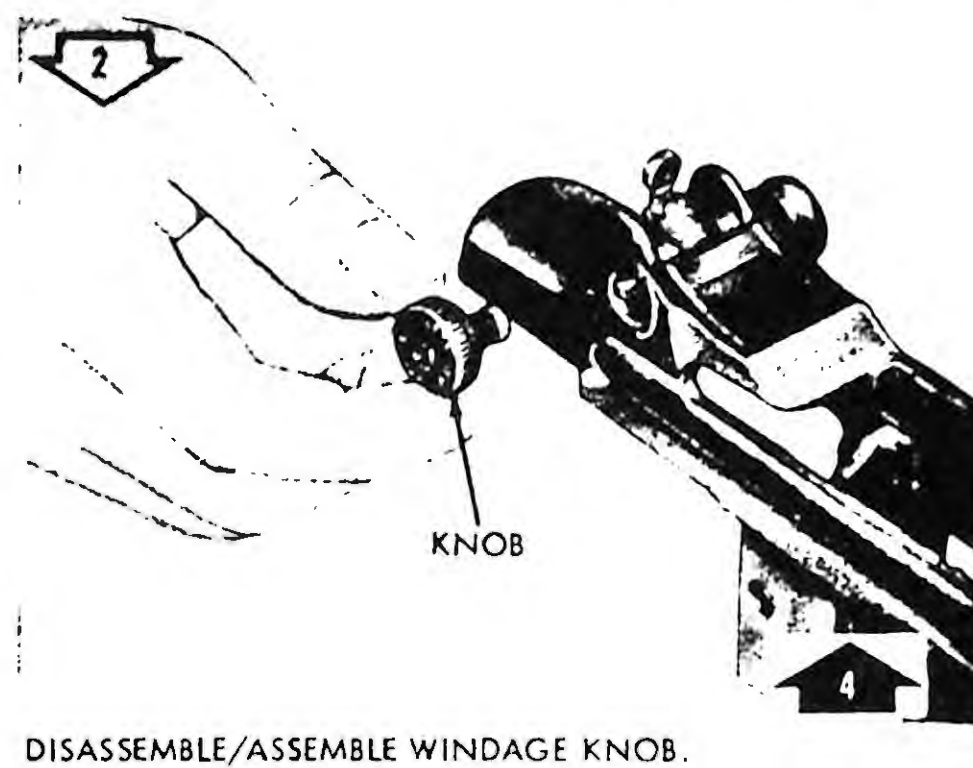
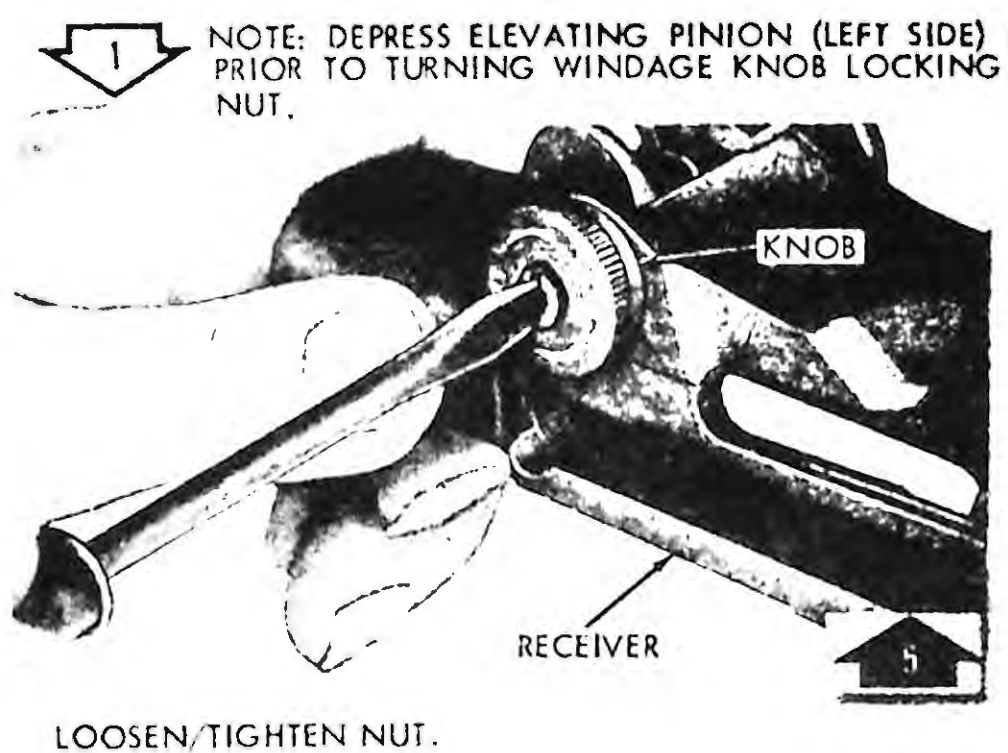
REMOVE LATCH PIN, LATCH AND HELICAL COMPRESSION SPRING.



INSTALL LATCH PIN, LATCH AND SPRING.

WE 10445

Figure 3-7. Disassembly/assembly of latch group.



WE 10519A

Figure 3-8. Disassembly/assembly of rear sight group.

CHAPTER 4

**MAINTENANCE OF MATERIEL USED IN CONJUNCTION
WITH MAJOR ITEM**

4-1. General

Refer to table 4-1.

Table 4-1. Maintenance of Equipment

Item	Maintenance function	
	Operator's maintenance	Organizational maintenance
Grenade Launcher, M7A3	Remove/install (fig 4-1). Clean/lubricate.	Repair/replace. Refer to TM 9-1005-234-14P for authorized parts.
Grenade Launcher Sight, M15	Remove/install (fig 4-1). Clean/lubricate.	Repair/replace. Refer to TM 9-1005-234-14P for authorized parts.
Bayonet-Knife, M5 and M5A1	Remove/install (fig 4-1). Clean/lubricate.	Repair/replace. Refer to TM 9-1005-237-15P for authorized parts.
Scabbard, M8A1	Clean.	Repair/replace. Refer to TM 9-1005-237-15P for authorized parts.
Winter trigger kit	Clean/lubricate.	Repair/replace. Adjust trigger bar. Refer to appendix B for authorized parts.

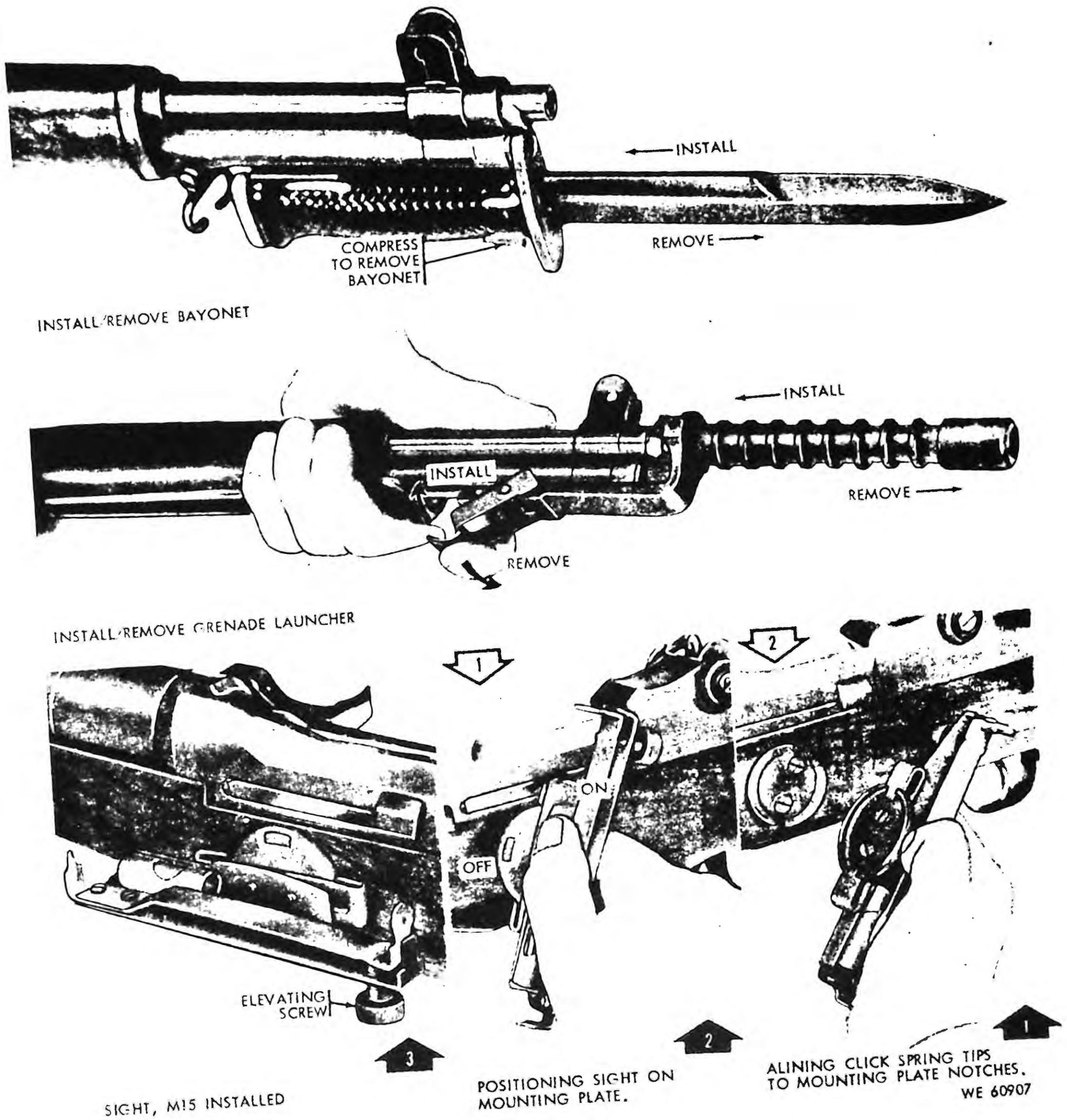


Figure 4-1. Material used in conjunction with major item.

CHAPTER 5

AMMUNITION

5-1. Types

Refer to SC 1305/30 IL for identification of various types of ammunition.

5-2. Care, Handling, Preservation, and Destruction

Refer to TM 9-1300-206.

CHAPTER 6

DESTRUCTION OF MATERIEL TO PREVENT ENEMY USE

6-1. General

a. Destruction of the rifle when subject to capture or abandonment in the combat zone, will be undertaken only when in the judgment of the commander concerned such action is necessary. If destruction is resorted to, the equipment must be so badly damaged that it cannot be restored to a usable condition in the combat zone either by repair or cannibaliza-

tion. The reporting of the destruction of equipment is to be through regular channels.

b. Priorities for destruction of repair parts are:

- (1) Firing pin
- (2) Extractor
- (3) Ejector
- (4) Hammer spring
- (5) Trigger
- (6) Safety

APPENDIX A

REFERENCES

A-1. Publication Indexes

Consult the following publication indexes frequently for the latest changes or revisions of references and for new publications relating to material covered in this manual.

Index of Administrative Publications	DA Pam 310-1
Index of Army Films, Transparencies, GTA Charts, and Recordings	DA Pam 108-1
Index of Blank Forms	DA Pam 310-2
Index of Doctrinal, Training, and Organizational Publications	DA Pam 310-3
U. S. Army Equipment Index of Modification Work Orders	DA Pam 310-7
Index of Supply Catalogs and Supply Manuals (excluding types 7, 8, and 9)	DA Pam 310-6
Index of Technical Manuals, Technical Bulletins, Supply Manuals (types 7, 8, and 9) Supply Bulletins, and Lubrication Orders	DA Pam 310-4

A-2. Forms

DA Form 2028, Recommended Changes to DA Publications
 DA Form 2407, Maintenance Request
 DD Form 6, Report of Damaged or Improper Shipment
 DA Form 9-79, Parts Requisition

A-3. Other Publications

The following explanatory publications pertain to this material.

a. General

Accident Reporting and Records	AR 385-40
Administrative Storage of Equipment	TM 740-90-1
Army Equipment Record Procedures	TM 38-750
Authorized Abbreviations and Brevity Codes	AR 320-50
Dictionary of United States Army Terms	AR 320-5
Military Symbols	FM 21-30

b. Ammunition.

Ammunition, General	TM 9-1900
Care, Handling, Preservation, and Destruction of Ammunition	TM 9-1300-206
Disposal of Supplies and Equipment: Ammunition	AR 755-140-1
Explosives and Demolitions	FM 5-25
Malfunctions Involving Ammunition and Explosives	AR 700-1300-8

c. Inspection and Maintenance.

Cleaning of Ordnance Materiel	TM 9-208-1
Grenades and Pyrotechnics	FM 23-30

Operator, Organizational, DS and GS Maintenance Repair Parts and
Special Tool Lists for Launchers, Grenade, M7A3 and M76 -----TM 9-1005-234-14P

Organizational, DS, GS and Depot Maintenance Repair Parts and Special
Tools List: Bayonet-Knife, M4, M5, M5A1, M6 and M7, with Bayo-
net-Knife Scabbard M8A1 -----TM 9-1005-237-15P

U. S. Rifle Caliber .30, M1 -----FM 23-5

d. *Training.*

Military Training Management -----FM 21-5

Techniques of Military Instruction -----FM 21-6

APPENDIX B

ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST

Section I. INTRODUCTION

B-1. Scope

This appendix lists basic issue items, repair parts, and special tools required for the performance of organizational maintenance of the Rifles M1, M1C (Sniper's) and M1D (Sniper's).

B-2. General

The Basic Issue Items, Repair Parts, and Special Tools List is divided into the following sections:

a. *Basic Issue Items List—Section II.* A list of items which accompany the rifle and are required by the operator/crew for installation, operation, or maintenance.

b. *Maintenance and Operating Supplies—Section III.* A listing of maintenance and operating supplies required for initial operation.

c. *Prescribed Load Allowance (PLA)—Section IV.* A composite listing of repair parts, special tools, test and support equipment having quantitative allowances for initial stockage at the organizational level.

d. *Repair Parts—Section V.* A list of repair parts authorized for the performance of maintenance at the organizational level in figure and item number sequence.

e. *Special Tools, Test and Support Equipment—Section VI.* A list of special tools, test and support equipment authorized for the performance of maintenance at the organizational level.

f. *Federal Stock Number and Reference Number Index—Section VII.* A list of Federal stock numbers in ascending numerical sequence, followed by a list of reference num-

bers, appearing in all the listings, in ascending alpha-numeric sequence, cross-referenced to the illustration figure number and item number.

B-3. Explanation of Columns

The following provides an explanation of columns in the tabular lists in Sections II through VI.

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

(1) *Source Code.* Indicates the selection status and source for the listed item. Source codes used are:

Code	Explanation
P-----	Repair parts which are stocked in or supplied from the GSA/DSA, or Army supply system, and authorized for use at indicated maintenance categories.
P2-----	Repair parts which are procured and stocked for insurance purposes because the combat or military essentiality of the end item dictates that a minimum quantity be available in the supply system.
M-----	Repair parts which are not procured or stocked but are to be manufactured in indicated maintenance levels.
A-----	Assemblies which are not procured or stocked as such but are made up of two or more units. Such component units carry individual FSN's and descriptions, are procured and stocked separately and can be assembled to form the required assembly at indicated maintenance categories.
X-----	Parts and assemblies which are not procured or stocked and the mortality of which is normally below that of the applicable end item or component. The failure of such part or assembly should result in retirement of the end item from the supply system.

Code	Explanation
X1-----	Repair parts which are not procured or stocked. The requirement for such items will be filled by use of the next higher assembly or component.
X2-----	Repair parts which are not stocked. The indicated maintenance category requiring such repair parts will attempt to obtain through cannibalization; if not obtainable through cannibalization, such repair parts will be requisitioned with supporting justification through normal supply channels.
G-----	Major assemblies that are procured with PEMA funds for issue initial only to be used as exchange assemblies at DSU and GSU level. These assemblies will not be stocked above DSU and GSU level or returned to Depot supply level.

(2) *Maintenance Code*. Indicates the lowest category of maintenance authorized to install the item. The maintenance level codes are:

Code	Explanation
C-----	Crew or operator
O-----	Organizational
F-----	Direct Support
H-----	General Support
D-----	Depot

(3) *Recoverability Code*. Indicates whether unserviceable items should be returned for recovery or salvage. Items not coded are expendable. The recoverability code is:

Code	Explanation
R-----	Repair parts and assemblies which are economically repairable at DSU and GSU activities and are normally furnished by supply on an exchange basis.
S-----	Repair parts and assemblies which are economically repairable at DSU and GSU activities and normally are furnished by supply on an exchange basis. When items are determined by a GSU to be uneconomically repairable, they will be evacuated to a depot for evaluation and analysis before final disposition.
T-----	High dollar value recoverable repair parts which are subject to special handling and are issued on an exchange basis. Such repair parts are normally repaired or overhauled at depot maintenance activities.
U-----	Repair parts specifically selected for salvage by reclamation units because of precious metal content, critical materials, high dollar value reusable casings, or castings.

No Code
indicate 1-Part will be considered expendable.

b. *Federal Stock Number*. Indicates the Federal stock number assigned to the item and will be used for requisitioning purposes.

c. *Description*. Indicates the Federal item name and any additional description of the item required. The abbreviation "w/e" when used as a part of the nomenclature, indicates the Federal stock number includes all armament, equipment, accessories, and repair parts issued with the item. A part number or other reference number is followed by the applicable five-digit Federal supply code for manufacturers in parentheses.

d. *Unit of Measure (U/M)*. A 2 character alphabetic abbreviation indicating the amount or quantity of the item upon which the allowances are based, e.g., ft, ea, pr, etc.

e. *Quantity Incorporated in Unit*. Indicates the quantity of the item used in the functional group or assembly. A "V" appearing in this column in lieu of a quantity indicates that a definite quantity cannot be indicated (e.g., shims, spacers, etc.).

f. *Quantity Furnished with Equipment*. Indicates the quantity of an item furnished with the equipment (BIIL only).

g. *Component Application*. Identifies the component application of each maintenance or operating supply item (M&O supplies only).

h. *Quantity Required for Initial Operation*. Indicates the quantity of each maintenance or operating supply item required for initial operation of the equipment (M&O supplies only).

i. *Quantity Required for 8 Hours Operation*. Indicates the estimated quantities required for an average 8 hours of operation (M&O supplies only).

j. *Notes*. Indicates informative notes keyed to data appearing in a preceding column (M&O supplies only).

k. *15-Day Organizational Maintenance Allowances*.

(1) The allowance columns are divided into four subcolumns. Indicated in each subcolumn opposite the first appearance of each item is the total quantity of items authorized for the number of equipments supported. Subsequent appearances of the same item will have the letters "REF" in the allowance columns. Items authorized for use as required but

not for initial stockage are identified with an asterisk in the allowance column.

(2) The quantitative allowances for organizational level of maintenance represents one initial prescribed load for a 15-day period for the number of equipments supported. Units and organizations authorized additional prescribed loads will multiply the number of prescribed loads authorized by the quantity of repair parts reflected in the appropriate density column to obtain the total quantity of repair parts authorized.

(3) Organizational units providing maintenance for more than 100 of these equipments shall determine the total quantity of parts required by converting the equipment quantity to a decimal factor by placing a decimal point before the next to last digit of the number to indicate hundredths, and multiplying the decimal factor by the parts quantity authorized in the 51-100 allowance column. Example, authorized allowance for 51-100 equipments is 12; for 140 equipments multiply 12 by 1.40 or 16.80 rounded off to 17 parts required.

(4) Subsequent changes to allowances will be limited as follows: No change in the range of items is authorized. If additional items are considered necessary, recommendations should be forwarded to Commanding General, Headquarters, U.S. Army Weapons Command, ATTN: AMSWE-SMM-SA, Rock Island, Illinois 61201, for exception or revision to the allowance list. Revisions to the range of items authorized will be made by the U.S. Army Weapons Command based upon engineering experience, demand data, or TAERS information.

1. Illustration.

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

(2) *Item Number.* Indicates the callout number used to reference the item in the illustration.

Note. Items called-out on illustration, but not listed, are for disassembly purposes only.

B-4. Special Information

Identification of the usable on codes of this publication are:

Code	Used on
No Code	M1, M1C, and M1D
A	M1
B	M1C
C	M1D
D	M1 and M1C
E	M1 and M1D
F	M1C and M1D

B-5. How to Locate Repair Parts

a. When Federal stock number or reference number is unknown:

(1) *First.* Using the table of contents determine the functional group or assembly, within which the repair part belongs. This is necessary since illustrations are prepared for functional groups and assemblies, and listings are divided into the same groups.

(2) *Second.* Find the illustration covering the functional group or assembly to which the repair part belongs.

(3) *Third.* Identify the repair part on the illustration and note the illustration figure and item number of the repair part.

(4) *Fourth.* Using the Repair Parts Listing, find the functional group or assembly to which the repair part belongs and locate the illustration figure and item number noted in the illustration.

b. When Federal stock number or reference number is known:

(1) *First.* Using the Index of Federal Stock Numbers and Reference Numbers find the pertinent Federal stock number or reference number. This index is in ascending FSN sequence followed by a list of reference numbers in alpha-numeric sequence, cross-referenced to the illustration figure number and item number.

(2) *Second.* Using the Repair Part Listing, find the functional group or assembly of the repair part and the illustration figure number and item number referenced in the Index of Federal Stock Numbers and Reference Numbers.

B-6. Federal Supply Codes for Manufacturers

Code	Manufacturer
19200	Frankford Arsenal
19204	Rock Island Arsenal
19205	Springfield Armory

Section II. BASIC ISSUE ITEMS LIST

(1) Source, maint. and recov. code			(2) Federal stock No.	(3) Description Reference Number & Mfr Code	(4) Unit of issue	(5) Qty. inc. in unit	(6) Qty. furn. with equip.	(7) Illustration	
(a) Source	(b) Maint.	(c) Recov.						(a) Fig. No.	(b) Item No.
				RIFLES, CALIBER .30, M1, M1C (SNIPER'S) AND M1D (SNI- PER'S)					
				REPAIR PARTS: NONE AUTHORIZED					
				TOOLS AND EQUIPMENT					
			1005-556-4174	BRUSH, CLEANING, SMALL ARMS: BORE 5564174 (19205)	EA	--	1	B-1	1
			1005-691-1381	BRUSH, CLEANING, SMALL ARMS: CHAMBER 7790582 (19205)	EA	--	1	B-1	2
			1005-694-1662	BUFFER, CLEANING ROD: 7268275 (19205)	EA	--	1	B-1	4
			1240-763-1596	CASE, TELESCOPE: M84 7631596 (19200)	EA	--	1	B-1	7
			1005-791-3377	CASE, LUBRICANT: 7790995 (19205)	EA	--	1	B-1	9
			1005-650-4510	CASE, SMALL ARMS CLEANING ROD: 7267754 (19204)	EA	--	1	B-1	8
			1005-793-6761	HANDLE ASSEMBLY: CLEAN- ING ROD: 7266115 (19204)	EA	--	1	B-1	3
			1005-726-6109	ROD SECTION, CLEANING, SMALL ARMS: 7266109 (19205)	EA	--	4	B-1	5
			1005-654-4058	SLING, SMALL ARMS: 6544058 (19205)	EA	--	1	B-1	10
			1005-726-6110	SWAB HOLDER SECTION, SMALL ARMS CLEANING ROD: 7266110 (19204)	EA	--	1	B-1	6

Section III. MAINTENANCE AND OPERATING SUPPLIES

(1) Component application	(2) Federal stock number	(3) Description	(4) Qty. required for initial operation	(5) Qty. required for 8 hours operation	(6) Notes
CALIBER .30 RIFLES M1, M1C (SNIPER'S) AND M1D (SNIPER'S)	1005-288-3565	SWAB, SMALL ARMS CLEANING: COTTON, 2-1/2 sq (1,000 IN PKG) 5019316 (19204)	*		

Section IV. PRESCRIBED LOAD ALLOWANCE

(1) Federal stock No.	(2) Description Unable on code	(3) Qty. Inc. in unit pack	(4) 15-day organizational maint. allowance			
			(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100
	REPAIR PARTS:					
1005-313-9441	SCREW	----	--	2	2	2
1005-501-3667	PIN, SHOULDER, HEADED	----	--	--	2	2
1005-554-6015	SAFETY, SMALL ARMS	----	--	--	2	2
1005-554-6018	EJECTOR	----	--	--	--	2
1005-554-6024	GUARD, HAND, GUN D	----	--	--	2	2
1005-554-6026	TRIGGER	----	--	--	--	2
1005-556-4245	GUARD, HAND GUN	----	--	2	2	2
1005-600-8616	EJECTOR, CARTRIDGE	----	--	--	2	2
1005-600-6818	PLUNGER, EXTRACTOR SPRING	----	--	2	2	2
1005-600-8868	APERTURE, SIGHT	----	--	2	2	2
1005-600-8879	PIN, FIRING	----	--	--	2	2
1005-600-8885	SPRING, HELICAL, COMPRESSION	----	--	--	2	2
1005-600-8887	SPRING, HELICAL, COMPRESSION	----	--	2	2	2
1005-600-8891	SWIVEL, STACKING	----	--	2	2	2
1005-614-7568	SPRING, HELICAL, COMPRESSION	----	--	--	2	2
1005-731-2556	GUARD, HAND, GUN C	----	--	2	2	2
1005-731-2737	KNOB	----	--	2	2	2
1005-819-4501	PIN, TRIGGER	----	--	2	2	3
1005-953-9504	EXTRACTOR, CARTRIDGE	----	--	2	2	2
1005-999-3400	PINION	----	--	2	2	3
5305-501-3678	SCREW, MACHINE	----	--	--	2	2
5315-501-3668	PIN, STRAIGHT, HEADED	----	--	2	2	3
	TOOLS AND EQUIPMENT					
1005-288-3565	SWAB, SMALL ARMS CLEANING	----	--	2	2	2
1005-556-4174	BRUSH, CLEANING, SMALL ARMS	----	--	2	3	6
1005-650-4510	CASE, SMALL ARMS CLEANING ROD	----	--	2	2	2
1005-654-4058	SLING, SMALL ARMS	----	--	2	2	3
1005-691-1381	BRUSH CLEANING, SMALL ARMS	----	--	2	2	3
1005-694-1662	BUFFER, CLEANING ROD	----	--	2	2	3
1005-726-6109	ROD SECTION, CLEANING, SMALL ARMS	----	--	2	2	2
1005-726-6110	SWAB HOLDER SECTION, SMALL ARMS CLEANING ROD	----	--	2	2	3
1005-791-3377	CASE, LUBRICANT	----	--	2	2	2
1005-793-6761	HANDLE ASSEMBLY	----	--	2	2	2
1240-763-1596	CASE, TELESCOPE	----	--	--	2	2

Section V. REPAIR PARTS LIST

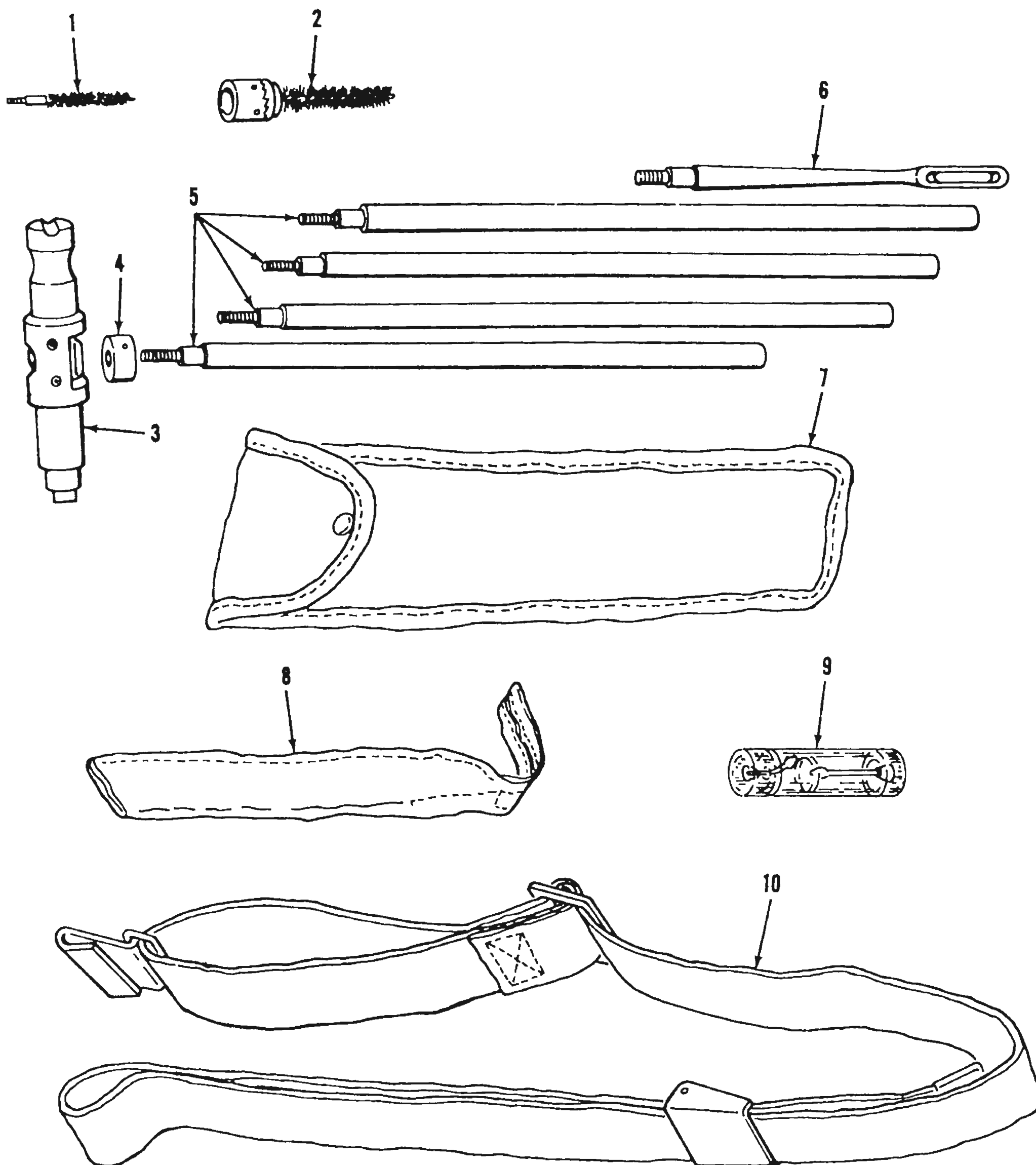
(1) Source maint and recov code			(2) Federal stock No.	(8) Description Reference Number & Mfr Code Usable on Code	(4) Unit of meas	(5) Qty inc in unit	(6) 15 day organizational maintenance alw				(7) Illustration	
(a)	(b)	(c)					(a)	(b)	(c)	(d)	(a)	(b)
Source	Maint	Recov					1-5	6-20	21-50	51-100	Figure No.	Item No.
P	O	—	1005-819-4501	REPAIR PARTS FOR: RIFLES, CALIBER .30, M1 M1C (SNIPER'S) AND M1D (SNIPER'S) TRIGGER HOUSING ASSEMBLY PIN, TRIGGER: 7791367 (19205)	EA	1	*	1	2	3	B-2	1
P	O	—	1005-554-6026	TRIGGER: TRIGGER HOUSING 5546026 (19205)	EA	1	*	*	*	2	B-2	2
P	O	—	1005-600-8887	SPRING, HELICAL, COMPRESSION: 20 COILS, HAMMER 6008887 (19205)	EA	1	*	2	2	2	B-2	4
P	O	—	5315-501-3668	PIN, STRAIGHT, HEADED: S, FL-FIL-HD, 0.187 MAX DIA SHANK, 3/4 NOM LG UNDER 5013668 (19204)	EA	1	*	2	2	3	B-2	6
P	O	—	1005-554-6015	SAFETY, SMALL ARMS: TRIGGER HOUSING 5546015 (19205)	EA	1	*	*	2	2	B-2	8
P	O	—	1005-554-6018	EJECTOR: TRIGGER HOUSING CLIP 5546018 (19205)	EA	1	*	*	*	2	B-2	10
P	O	—	1005-614-7568	BARREL AND RECEIVER GROUP SPRING, HELICAL, COMPRESSION: 200 TOTAL COILS, OPERATING ROD 6147568 (19205)	EA	1	*	*	2	2	B-3	2
A	—	—	-----	BOLT ASSEMBLY 5546023	---	---	---	---	---	---	B-3	4
P	O	—	1005-953-9504	EXTRACTOR, CARTRIDGE: 7791578 (19205)	EA	1	*	2	2	2	B-3	5
P	O	—	1005-600-8616	EJECTOR, CARTRIDGE: 6008616 (19205)	EA	1	*	*	2	2	B-3	6
P	O	—	1005-600-8618	PLUNGER, EXTRACTOR SPRING: 6008618 (19205)	EA	1	*	2	2	2	B-3	7
P	O	—	1005-600-8879	PIN, FIRING: BOLT ASSY 6008879 (19205)	EA	1	*	*	2	2	B-3	8
P	O	—	1005-501-3667	PIN, SHOULDER, HEADED: FOLLOWER ARM 5013667 (19204)	EA	1	*	*	2	2	B-3	10

(1) Source maint and recov code			(2) Federal stock No.	(3) Description Reference Number & Mfr Code Usable on Code	(4) Unit of meas	(5) Qty inc in unit	(6) 15 day organizational maintenance alw				(7) Illustration	
(a)	(b)	(c)					(a)	(b)	(c)	(d)	(a)	(b)
Source	Maint	Recov					1-5	6-20	21-50	51-100	Figure No.	Item No.
P	O	--	1005-313-9441	SCREW: GAS CYLINDER LOCK 7267797 (19205)	EA	1	*	2	2	2	B-3	15
P	O	--	5305-501-3678	SCREW, MACHINE: S, FIL-HD, NO. 10(0.190) -32NF-2 X 0.700 MAX LG (STACKING SWIVEL) 5013678 (19204)	EA	1	*	*	2	2	B-3	18
P	O	--	1005-600-8891	SWIVEL, STACKING: GAS CYLINDER 6008891 (19205)	EA	1	*	2	2	2	B-3	19
P	O	R	1005-556-4245	GUARD, HAND, GUN: FRONT 5564245 (19205)	EA	1	*	2	2	2	B-3	20
P	O	R	1005-554-6024	GUARD, HAND, GUN: REAR 5546024 (19205)	EA	1	*	*	2	2	B-3	23
P	O	R	1005-731-2556	GUARD, HAND, GUN: REAR 7312556 (19205)	EA	1	*	2	2	2	B-3	24
P	O	--	1005-600-8885	SPRING, HELICAL, COMPRESSION: 6-7/8 COILS (LATCH) 6008885 (19205)	EA	1	*	*	2	2	B-3	27
P	O	--	1005-731-2737	KNOB: WINDAGE 7312737 (19205)	EA	1	*	2	2	2	B-3	28
P	O	--	1005-999-3400	PINION: ELEVATING 11010364 (19204)	EA	1	*	2	2	3	B-3	29
P	O	--	1005-600-8868	APERTURE, SIGHT: 6008868 (19204)	EA	1	*	2	2	2	B-3	30
				TELESCOPE, M84	---	--	--	--	--	--	B-4	1
P	O	--	1240-766-7454	EYESHIELD: 7667454 (19200)	EA	1	*	*	*	*	B-4	2
				KIT, WINTER TRIGGER								
P	O	--	1005-775-0364	TRIGGER ASSEMBLY, WINTER: M5 7790808 (19205)	EA	1	*	*	*	*	B-5	1
P	O	--	5305-990-6435	SCREW, TAPPING, THREAD FORMING: 7791415 (19205)	EA	2	*	*	*	*	B-5	2
P	O	--	1005-010-5022	WASHER, HINGE RETAINING: TRIGGER ASSEMBLY 7791237 (19205)	EA	1	*	*	*	*	B-5	3
P	O	--	1005-778-0580	SAFETY, WINTER: 7790903 (19205)	EA	1	*	*	*	*	B-5	5

(1) Source maint and recov code			(2) Federal stock No.	(3) Description Reference Number & Mfr Code Usable on Code	(4) Unit of meas	(5) Qty inc in unit	(6) 15 day organizational maintenance alw				(7) Illustration	
(a) Source	(b) Maint	(c) Recov					(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(a) Figure No.	(b) Item No.
--	R	--	1005-777-1369	MATERIAL REQUIRED FOR COLD WEATHER CLIMATES THE FOLLOWING ITEM IS ISSUED OR REQUISITIONED ONLY BY SPECIAL AUTHORIZATION OF AREA COMMANDER. KIT, WINTER TRIGGER: FOR ARCTIC HAND-WEAR 5910520 (19204) NOTE. INSTALLATION WILL BE PERFORMED BY DIRECT SUPPORT MAINTENANCE PERSONNEL.	EA							

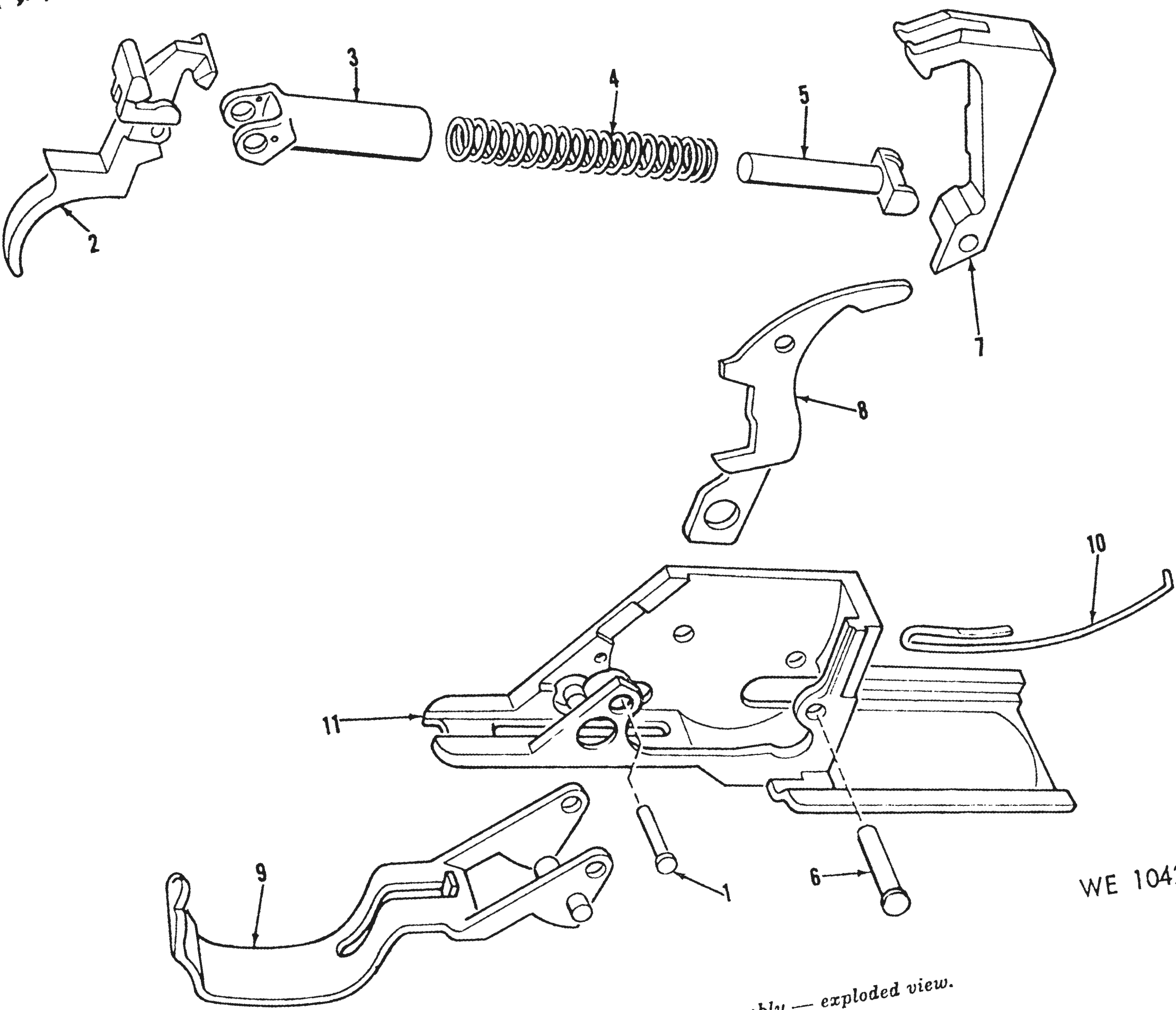
Section VI. SPECIAL TOOLS, TEST AND SUPPORT EQUIPMENT

(1) Source maint and recov code			(2) Federal stock No.	(8) Description Reference Number & Mfr Code Usable on Code	(4) Unit of meas	(5) Qty inc in unit	(6) 15 day organizational maintenance alw				(7) Illustration	
(a)	(b)	(c)					(a)	(b)	(c)	(d)	(a)	(b)
Source	Maint	Recov					1-5	6-20	21-50	51-100	Figure No.	Item No.
				TOOLS AND EQUIPMENT								
				TOOLS AND EQUIPMENT AUTHORIZED FOR UNIT REPLACEMENT								
--	C	--	1005-288-3565	SWAB, SMALL ARMS CLEANING: COTTON, 2-1/2 SQ (1,000 IN PG) 5019316 (19204)	PG	--	*	2	2	2		
--	C	--	1005-556-4174	BRUSH, CLEANING, SMALL ARMS: BORE 5564174 (19205)	EA	--	*	2	3	6	B-1	1
--	C	--	1005-650-4510	CASE, SMALL ARMS CLEANING ROD: 7267754 (19205)	EA	--	*	2	2	2	B-1	8
--	C	--	1005-654-4058	SLING, SMALL ARMS: 6544058 (19205)	EA	--	*	2	2	3	B-1	10
--	C	--	1005-691-1381	BRUSH, CLEANING, SMALL ARMS: CHAMBER 7790582 (19205)	EA	--	*	2	2	3	B-1	2
--	C	--	1005-694-1662	BUFFER, CLEANING ROD: 7268275 (19205)	EA	--	*	2	2	3	B-1	4
--	C	--	1005-726-6109	ROD SECTION, CLEANING, SMALL ARMS: 7266109 (19205)	EA	--	*	2	2	2	B-1	5
--	C	--	1005-726-6110	SWAB HOLDER SECTION, SMALL ARMS CLEANING ROD: 7266110 (19204)	EA	--	*	2	2	3	B-1	6
--	C	--	1005-791-3377	CASE, LUBRICANT: 7790995 (19205)	EA	--	*	2	2	2	B-1	9
--	C	--	1005-793-6761	HANDLE ASSEMBLY: CLEANING ROD 7266115 (19204)	EA	--	*	2	2	2	B-1	3
--	C	--	1240-763-1596	CASE, TELESCOPE: M84 7631596 (19200)	EA	--	*	*	2	2	B-1	7
				ORGANIZATIONAL MAINTENANCE TOOLS AND EQUIPMENT (FOR ARMORERS USE)								
				THE 15-DAY LEVEL IS NOT APPLICABLE.								
--	O	--	1005-722-8907	ENVELOPE: FABRIC, 2 - BUTTON, 3H X 4-7/8 W 7228907 (19205)	EA	--	1	--	--	--	B-6	1
--	O	--	4933-628-9700	REFLECTOR, GUN BARREL: 7790138 (19205)	EA	--	1	--	--	--	B-6	2
--	O	--	4933-652-9950	EXTRACTOR, RUPTURED CARTRIDGE CASE: 7790352 (19205)	EA	--	1	--	--	--	B-6	3



WE 19663

Figure B-1. Basic issue items.



WE 10426A

Figure B-2. Trigger housing assembly — exploded view.

WE 60908

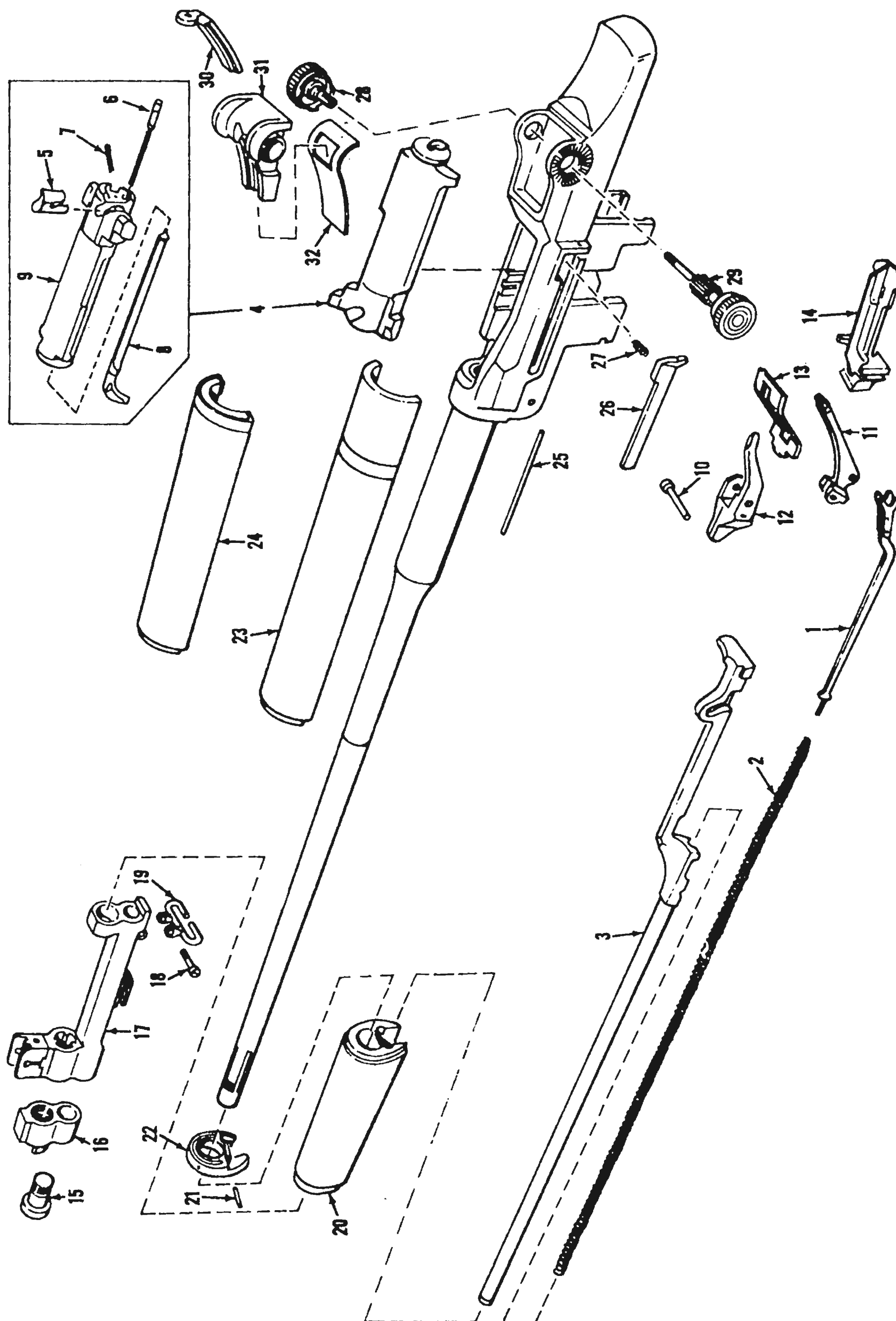


Figure B-3. Barrel and receiver group — exploded view.

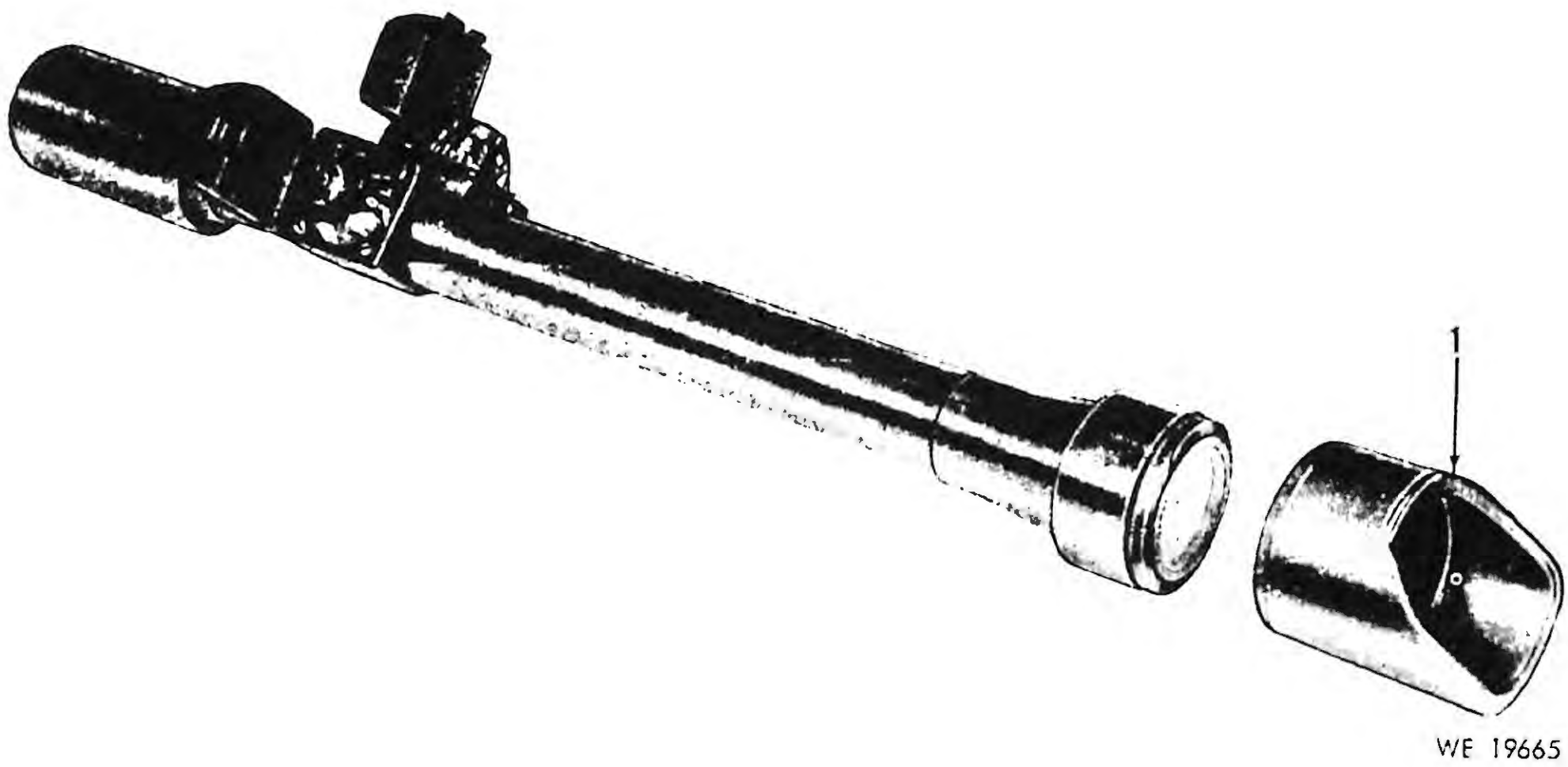


Figure B-4. Telescope, M84.

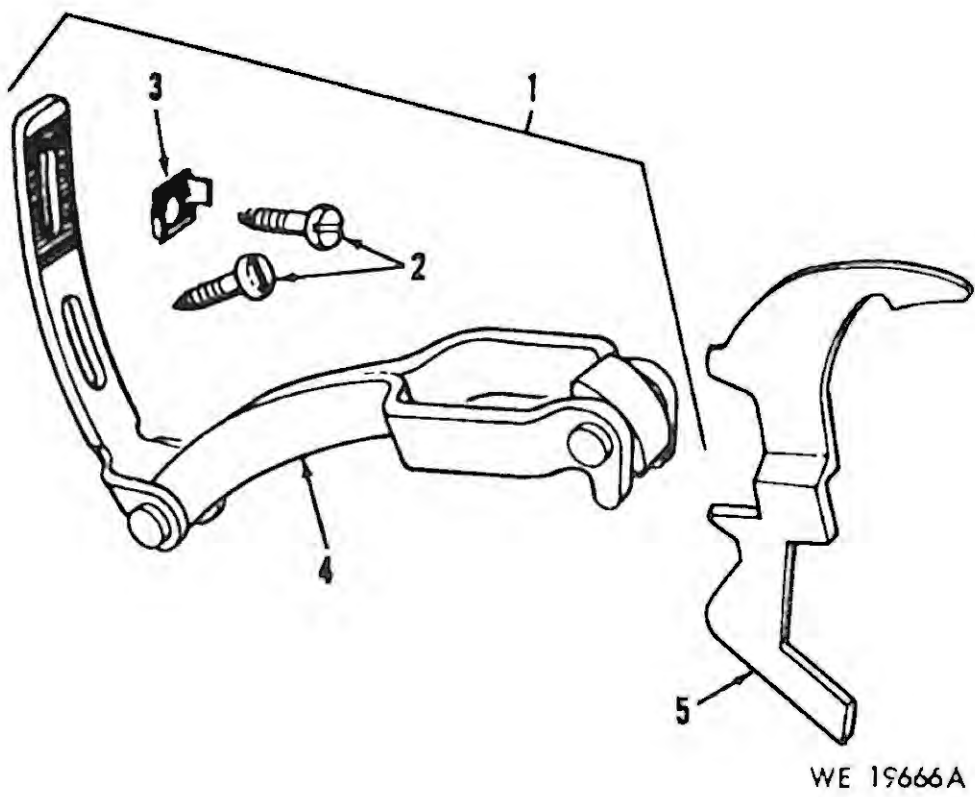


Figure B-5. Winter trigger kit — exploded view.

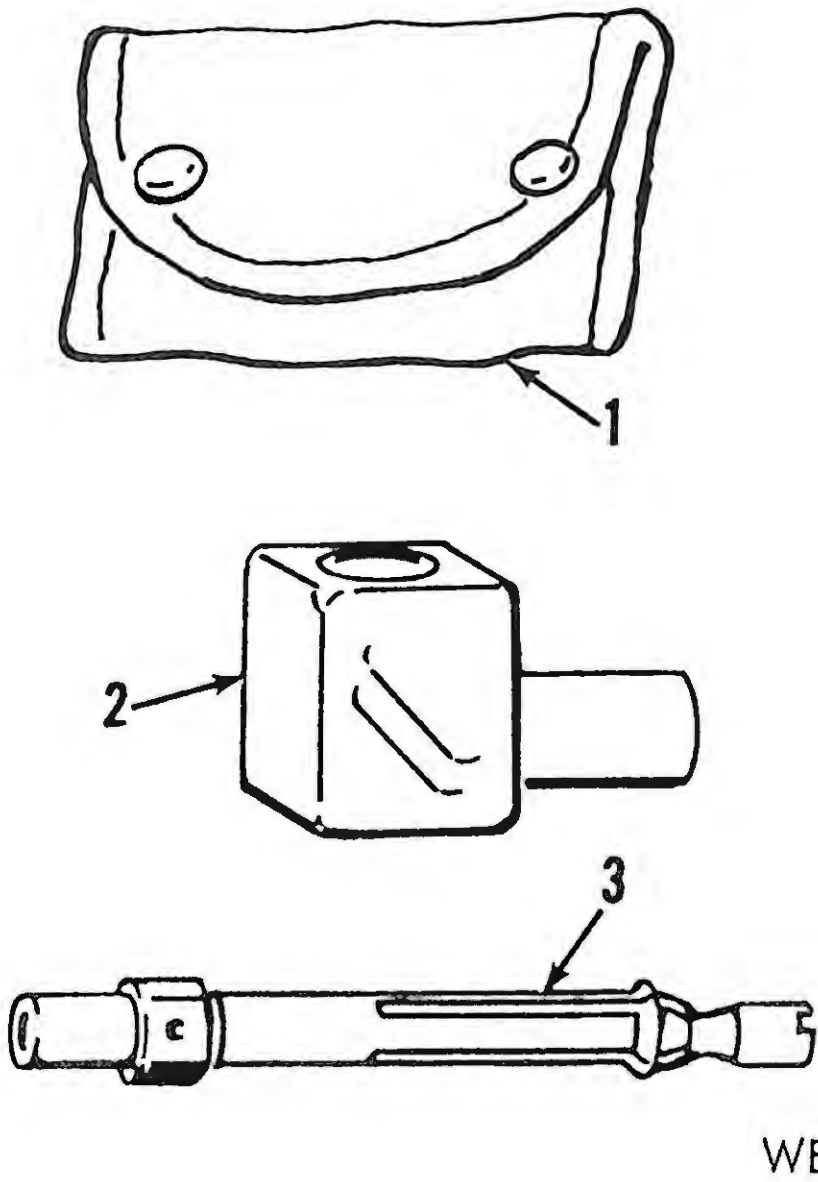


Figure B-6. Tools and equipment.

Section VII. FEDERAL STOCK NUMBER AND REFERENCE NUMBER CROSS REFERENCE TO FIGURE AND ITEM NUMBER

Stock number	Figure No.	Item No.	Stock number	Figure No.	Item No.
1005-010-5022	B-5	3	1005-694-1662	B-1	4
1005-313-9441	B-3	15	1005-722-8907	B-6	1
1005-501-3667	B-3	10	1005-726-6109	B-1	5
1005-554-6015	B-2	8	1005-726-6110	B-1	6
1005-554-6018	B-2	10	1005-731-2556	B-3	24
1005-554-6024	B-3	23	1005-731-2737	B-3	28
1005-554-6026	B-2	2	1005-775-0364	B-5	1
1005-556-4174	B-1	1	1005-778-0580	B-5	5
1005-556-4245	B-3	20	1005-791-3377	B-1	9
1005-600-8616	B-3	6	1005-793-6761	B-1	2
1005-600-8618	B-3	7	1005-819-4501	B-2	1
1005-600-8868	B-3	30	1005-953-9504	B-3	5
1005-600-8879	B-3	8	1005-999-3400	B-3	29
1005-600-8885	B-3	27	1240-763-1596	B-1	7
1005-600-8887	B-2	4	1240-766-7454	B-4	2
1005-600-8891	B-3	19	4933-628-9700	B-6	2
1005-614-7568	B-3	2	4933-652-9950	B-6	3
1005-650-4510	B-1	8	5305-501-3678	B-3	18
1005-654-4058	B-1	10	5305-990-6435	B-5	2
1005-691-1381	B-1	2	5315-501-3668	B-2	6

Reference No.	Mfg Code	Fig No.	Item No.	Reference No.	Mfg Code	Fig No.	Item No.
5013667	10204	B-3	10	7266110	19204	B-1	6
5013668	19204	B-2	6	7266115	19204	B-1	3
5013678	19204	B-3	18	7267754	19205	B-1	8
5546015	19205	B-2	8	7267797	19205	B-3	15
5546018	19205	B-2	10	7268275	19205	B-1	4
5546024	19205	B-3	23	7312556	19205	B-3	24
5546026	19205	B-2	2	7312737	19205	B-3	28
5564174	19205	B-1	1	7631596	19200	B-1	7
5564254	19205	B-3	20	7667454	19200	B-4	2
6008616	19205	B-3	6	7790138	19205	B-6	2
6008618	19205	B-3	7	7790352	19205	B-6	3
6008868	19204	B-3	30	7790582	19205	B-1	2
6008879	19205	B-3	8	7790808	19205	B-5	1
6008885	19205	B-3	27	7790903	19205	B-5	5
6008887	19205	B-2	4	7790995	19205	B-1	9
6008891	19205	B-3	19	7791237	19205	B-5	3
6147568	19205	B-3	2	7791367	19205	B-2	1
6544058	19205	B-1	10	7791415	19205	B-5	2
7228907	19205	B-6	1	7791578	19205	B-3	5
7266109	19205	B-1	5	11010364	19204	B-3	29

APPENDIX C

MAINTENANCE ALLOCATION CHART

Section I. INTRODUCTION

C-1. General

The maintenance allocation chart indicates specific maintenance operations performed at proper maintenance levels. Deviation from maintenance operations allocated in the chart is authorized only upon approval of the Commanding Officer.

C-2. Maintenance Functions

The maintenance allocation chart designates overall responsibility for the maintenance function of an end item or assembly. Maintenance functions will be limited to and defined as follows:

INSPECT To determine serviceability of an item by comparing its physical, mechanical, and electrical characteristics with established standards.

TEST To verify serviceability and to detect electrical or mechanical failure by use of test equipment.

SERVICE To clean, to preserve, to charge, and to add fuel, lubricants, cooling agents, and air.

ADJUST To rectify to the extent necessary to bring into proper operating range.

ALIGN To adjust specified variable elements of an item to bring to optimum performance.

CALIBRATE

To determine the corrections to be made in the readings of instruments or test equipment used in precise measurement. Consists of the comparison 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 with the certified standard.

INSTALL

To set up for use in an operational environment such as an emplacement, site, or vehicle.

REPLACE

To replace unserviceable items with serviceable assemblies, subassemblies, or parts.

REPAIR

To restore an item to serviceable condition. This includes, but is not limited to, inspection, cleaning, preserving, adjusting, replacing, welding, riveting, and strengthening.

OVERHAUL

To restore an item to a completely serviceable condition as prescribed by maintenance serviceability standards using the Inspect and Repair Only as Necessary (IROAN) technique.

REBUILD To restore an item to a standard as nearly as possible to original or new condition in appearance, performance, and life expectancy. This is accomplished through complete disassembly of the item, inspection of all parts or components, repair or replacement of worn or unserviceable elements (items) using original manufacturing tolerances and specifications, and subsequent reassembly of the item.

b. *Column 2, Functional Group.* Lists the noun names of groups and assemblies on which maintenance is authorized.

c. *Column 3, Maintenance Functions.* Lists the various categories of maintenance to be performed on the weapon.

d. *Use of Codes.* Explanation of the use of codes in maintenance function, column 3, is as follows:

Code	Explanation
C-----	Operator/crew
O-----	Organizational
F-----	Direct Support
H-----	General Support
D-----	Depot

e. *Column 4, Tools and Equipment.* This column will be used to specify those tools and test equipment required to perform the designated function.

f. *Column 5, Remarks.* Self-explanatory.

Note. Columns not utilized are considered not applicable.

C-3. Explanation of Format

Purpose and use of the format are as follows:

a. *Column 1, Group Number.* Lists group numbers, to identify components and assemblies.

Section II. MAINTENANCE ALLOCATION CHART FOR RIFLE, CALIBER .30, M1, M1C (SNIPER'S), AND M1D (SNIPER'S)

(1) Group number	(2) Functional group	(3) Maintenance function											(4) Tool and equipment	(5) Remarks
		Inspect	Test	Service	Adjust	Align	Calibrate	Install	Replace	Repair	Overhaul	Rebuild		
1	TRIGGER HOUSING ASSEMBLY	C	--	C	--	--	--	C	--	O	D	--		
2	STOCK ASSEMBLY	C	--	C	--	--	--	C	--	F	D	--		
3	BARREL AND RECEIVER GROUP	C	--	C	--	--	--	--	--	O	D	--		
4	TELESCOPE, M84	C	--	C	--	--	--	--	H	--	D	--		
5	TELESCOPE, W/BRACKET	C	--	C	--	--	--	C	--	O	--	--		
6	MOUNT ASSEMBLY, M1C	C	--	C	--	--	--	F	--	F	D	--		
7	MOUNTING BRACKET ASSEMBLY M1D	C	--	C	--	--	--	F	--	F	D	--		
8	CHEEK PAD ASSEMBLY, M1C AND M1D	C	--	C	--	--	--	F	F	--	D	--		

By Order of the Secretary of the Army:

W. C. WESTMORELAND,
General, United States Army,
Chief of Staff.

Official:

KENNETH G. WICKHAM,
Major General, United States Army,
The Adjutant General.

DISTRIBUTION:

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