M-1 GARAND

TM 9-1005-222-12
PLUS SUPPLEMENTAL MATERIAL FROM
TM 9-1005-222-35 and FM 23-5
Department of the Army Technical Manual

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

RIFLE, CALIBER .30 M 1
RIFLE, CALIBER .30 M 1C (Sniper's)
and
RIFLE, CALIBER .30 M 1D (Sniper's)

M-1 GARAND

HEADQUARTERS, DEPARTMENT OF THE ARMY, 17 March, 1969

Assistant Editor; François Rheault

Operator and Organizational Maintenance Manual

RIFLE, CALIBER .30: M 1, M 1C (Sniper's), M 1D (Sniper's)

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	This manual is current as of 2 December 1968		
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^{*}This manual supersedes TM 9-1005-222-12P/2, 11 August 1965 in its entirety.



Figure 1. U.S. Rifle, Caliber .30, M 1

TM9-1005-222-12 Chapter 1 INTRODUCTION

Section L'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, 10 and 11) are clipfed, gas-operated, air-cooled, semiautomatic shoulder weapons.

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
Weight of rifle w/bayonet
Length of rifle
Length of barrel
*Muzzle velocity
*Maximum effective range
*Maximum effective rate of fire (aimed
rounds per minute)
*Number of cartridges in clip
*Types of ammunition Ball, armor-piercing-incendiary, tracer, blank, rifle grenade cartridge and dummy
tracer, blank, rifle grenade cartridge and dummy

b.	Rifles,	MIC	(Sniper's	and (MIL) (Sniper	's).
Waigh			+ (+0]0000	A	L Lid	- 	

gun sling, and cheek pad)	
Length of rifle w/flash hider, type T-37	 46-1/8 in.

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



Figure 10. U.S. Rifle, Caliber ,30, M 1C (Sniper's), with flash hider, M 2. From the collection of Bill Douglas.

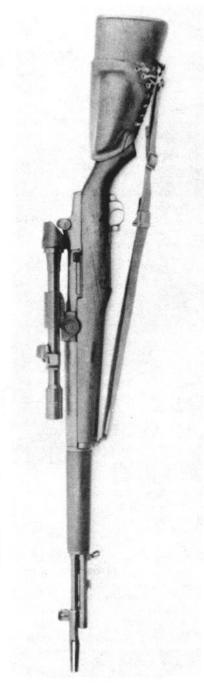


Figure 11. U.S. Rifle, Caliber .30, M 1D (Sniper's) with flash hider, T 37.

TM9-1005-222-12 Chapter 2 OPERATING INSTRUCTIONS

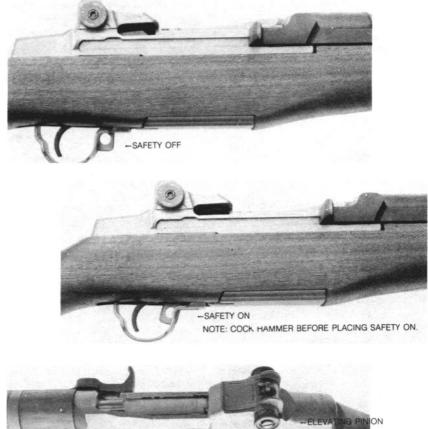
Section I. Controls

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.



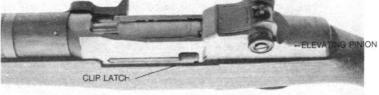


Figure 12. Controls.

Table 2-1, Controls

Item	(See fig. 12)	Purpose		
Safety	To prevent	accidental firing.		
Trigger	To release hammer to effect firing.			
Windage knob	To adjust lateral movement of rear sight.			
Elevating pinion	To adjust elevation of aperture.			
Clip latch	To hold cli	p in receiver until last round is fired.		

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. 12).

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 hang-fire 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 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 $0^{\circ}F$, it is necessary to prepare the rifle for cold-weather operation. The rifle should be thoroughly cleaned wiith 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 material 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 lubricaion 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.

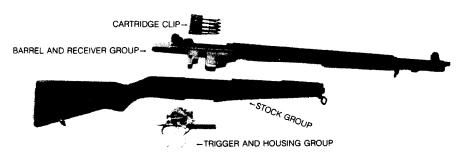


Figure 13. U.S. Rifle, Caliber .30, M 1. Major assembly group.

TM9-1005-222-12

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
	Note. 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.	
2	Check for missing items. Note. Items must agree with Basic issue items list.	App B, Sec II
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 materiels 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. materiels Required for Maintenance Functions

Federal stock number	Item
8020-244-0153	BRUSH, ARTISTS: metal, ferrule, flat, chisel edges, 7/16 lg. exposed bristle
7920-295-2491	BRUSH, CLEANING, TOOL AND PARTS: rd, 100 percent tampico fiber.
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
5350-221-0872	CLOTH, ABRASIVE: crocus, ferric oxide and quartz, jean-cloth-backing, closed-coating. (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 gt. 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 or modification will be made except as authorized by modification work order.

Table 3-3. Preventive maintenance Checks and Services

Number	<u> </u>	lnte			B—Before operation D—During operation	A—After operation W—Weekly	
Z wan		Daily	_	Ore. W	Item to be inspected	Procedure	Reference
1	1	-	_	-	M1, M1C, M1D	Hand cycle the action to insure binding is not present.	
2	2	_	_	-	Trigger housing assembly	Actuate safety. Safety will not engage when hammer is forward.	Fig. 12
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. 12
4	4	-!	_	_	Barrel and receiver	Check front sight for secure installation.	1
5	-	5	_	-	M1, M1C, M1D	Check gas cylinder lock screw for secure installation.	
						Note. Do not tighten lock screw when weapon is hot.	
6	-	_	6	-	MI, MIC, MID	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

A CHARLES IN A LANGE		CORRECTIVE ACTION	
MALFUNCTION	PROBABLE CAUSE	OPERATOR	ORGANIZATIONAL
Failure to load	Damaged clip Improperly assembled receiver components	Replace clip. Disassemble, and reassemble correctly (refer to FM 23-5).	
Failure to feed	Weak or broken operating rod	***************************************	Replace spring (2, fig. 36).
	spring Binding or damaged operating rod		Evacuate to direct support maintenance personnel.
Bolt fails to close	Dirty or deformed ammunition Cartridge case holding bolt out of battery	Clean or replace ammunition. Pull bolt to the rear and remove dirty or deformed cartridge.	
	Extractor does not snap over rim of cartridge	Clean bolt assembly and extractor recess (par 3-11a).	Replace extractor (5, fig. 36).
	Frozen ejector spring and plunger Restricted movement of or damaged operating rod		Replace ejector (6, fig. 36). Evacuate to direct support maintenance personnel. Replace spring (7, fig. 36).
	weak of officers operating for spring Damaged receiver		Evacuate to direct support
Failure to fire	Bolt not in battery Defective ammunition	See "bolt fails to close". Follow procedures for misfires (refer to FM 23-5).	
	Firing pin worn, damaged, or movement restricted		Replace firing pin (8, fig. 36).
	Inadequate firing pin protrusion		Evacuate to direct support maintenance personnel.
	Weak or broken hammer spring		Replace hammer spring (4, fig. 35).

	Replace if necessary (15, fig. 36).		Replace spring (2 fig. 36). Remove and properly install	gas cylinder (figs. 22, 23)		Evacuate to direct support maintenance personnel.	Evacuate to direct supportmaintenance personnel.		Replace extractor (5, fig. 36). Remove cartridge case fig. 14).	Replace ejector (6, fig. 36).		Evacuate to direct support	Evacuate to direct support	maintenance personnel. Replace latch spring
Evacuate to direct support maintenance personnel	Tighten lock screw (15, fig. 36). Tighten gas cylinder lock (16, fig. 36).	Clean (par 3-11a).			Clean and lubricate properly (par 2-16).			Remove cartridge and clean chamber (par 3-11a).	7	See "short recoil".	See "short recoil".	***************************************	***************************************	***************************************
Hammer damaged or broken	Gas cylinder lock screw loose Gas cylinder lock not fully seated	Carbon or foreign matter in gas cylinder or barrel port	Defective operating rod spring Gas cylinder not fully seated		Improper lubrication in cold weather	Unserviceable gas cylinder	Unserviceable gas piston	Cartridge seized in chamber	Damaged or deformed extractor Ruptured cartridge case	Short recoil Weak, frozen or distorted ejector spring and plunger	Insufficient rearward movement of bolt	Defective or broken operating	Defective operating rod.	Failure of clip to eject Broken or deformed latch spring
	Short recoil							Failure to extract		Failure to eject	Failure of bolt to be held rearward after	last round is fired		Failure of clip to eject

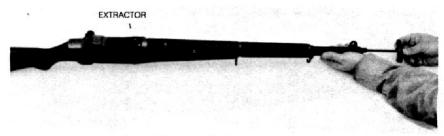


Figure 14. Removal of ruptured cartridge case.

Section VI. OPERATORS MAINTENANCE PROCEDURES

3-9. Removal/Installation of Major Groups and Assemblies Refer to FM 23-5. Also see fig. 13 and fig. 15.

3-10. Disassembly/Assembly Barrel and Receiver Group Refer to FM 23-5. Also see figs. 20 through 30.

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 bedevelop. Use only in well-ventilated areas.
- (b) The use of gasoline, kerosene, bezene (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 15 through 30, 35, 36 and 41.

NOTE. White dots indicate disassembly, and black dots 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

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.

ITEM	INSPECTION AND REPAIR
Trigger housing assembly	Inspect for and remove burs. Replace items 1, 2, 4, 6, 8, and 10, Fig. 35, if worn or damaged.
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.
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 36, 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 36, if worn or damaged.
Follower group	Replace item 10, fig 36, 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 36, if worn or damaged.
Handguard group	Inspect for cracks that would impair serviceability. Replace items 20, 21, and 22, fig 36, if damaged.
	Note. Evacuate damaged handguards to direct support maintenance personnel for repair.
	Inspect for damaged parts.
	Replace item 27, fig 36, 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 36, 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.

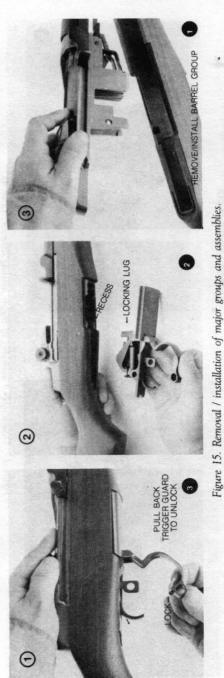




Figure 16. Disassembly / assembly of trigger housing assembly (1 of 4).







-TRIGGER PIN

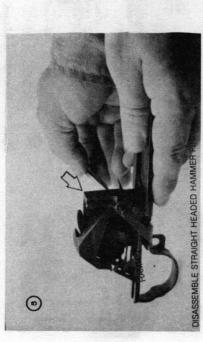
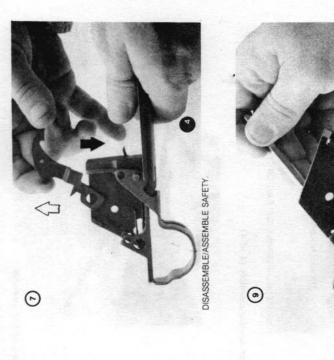


Figure 17. Disassembly / assembly of trigger housing assembly (2 of 4).



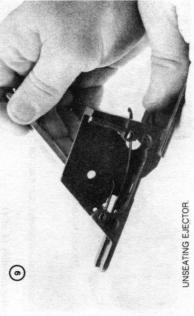




Figure 18. Disassembly / assembly of trigger housing assembly (3 of 4).

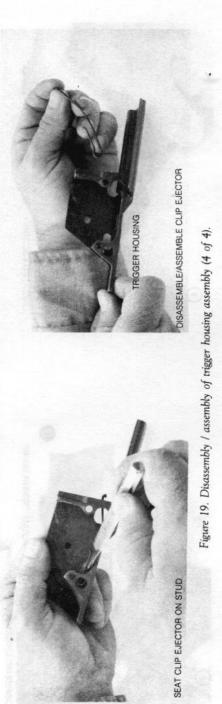






Figure 20. Removal / installation of bolt assembly.

Figure 21. Disassembly / assembly of bolt assembly.

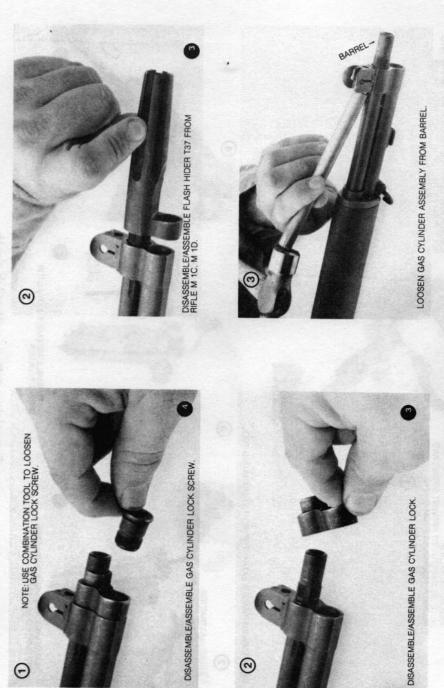
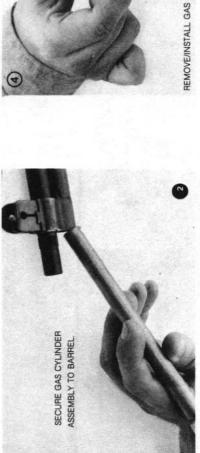


Figure 22. Disassembly / assembly of gas cylinder group (1 of 2).



REMOVE/INSTALL GAS CYLINDER ASSEMBLY.

Figure 23. Disassembly / assembly of gas cylinder group (2 of 2).



OB ONLY WHO WOOD

Figure 24. Removal / installation of operating rod assembly.

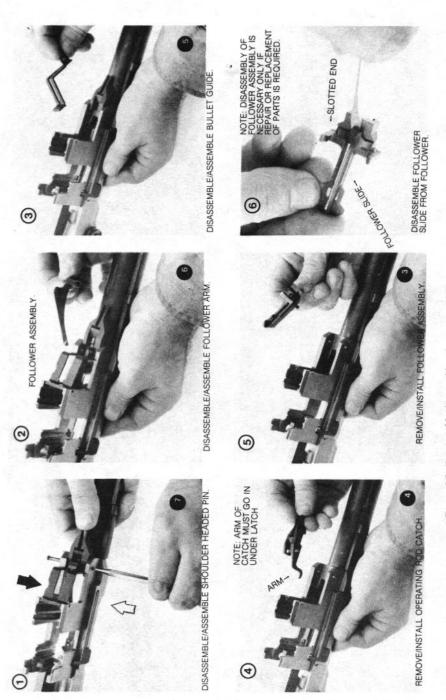


Figure 25. Disassembly / assembly of magazine follower group (1 of 2).

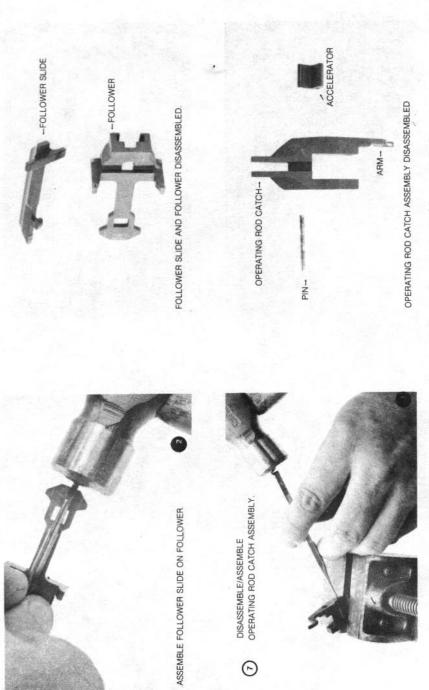
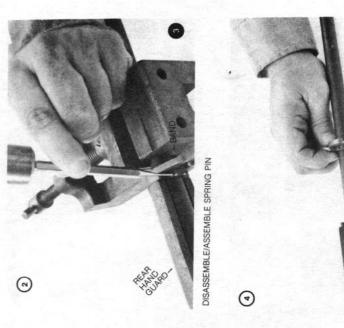
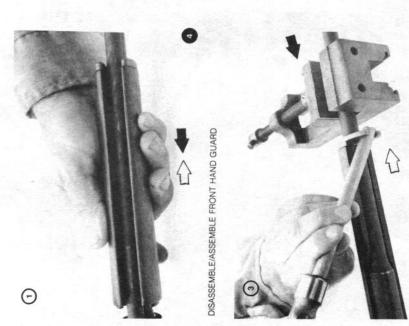


Figure 26. Disassembly / assembly of magazine follower group (2 of 2).





DISASSEMBLE/ASSEMBLE BAND



LOOSEN/TIGHTEN BAND

Figure 27. Disassembly / assembly of handguard group (1 of 2).

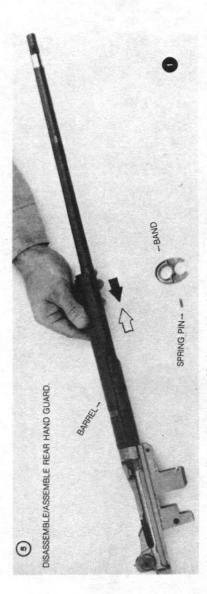
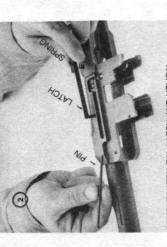
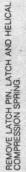


Figure 28. Disassembly / assembly of handguard group (2 of 2).





UNSEAT STRAIGHT HEADED LATCH PIN.



Figure 29. Disassembly / assembly of latch group.

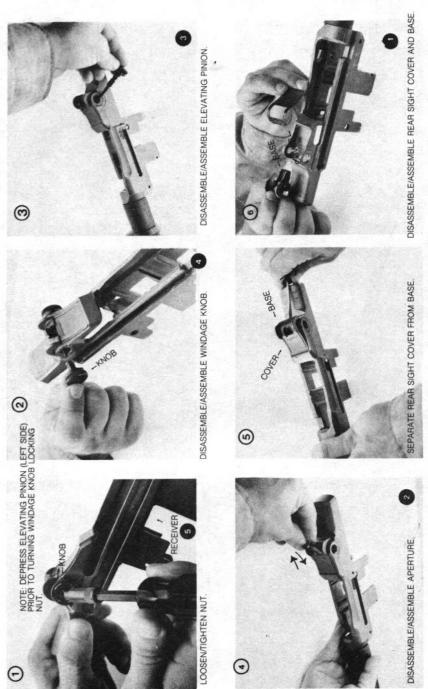


Figure 30. Disassembly / assembly of rear sight group.

TM9-1005-222-12 Chapter 4 MAINTENANCE OF MATERIEL USED IN CONJUNCTION WITH MAJOR ITEM

4-1. GeneralRefer to table 4-1.

Table 4-1. Maintenance of Equipment

	M	aintenance function
Item	Operator's maintenance	Organizational maintenance
renade Launcher, M7A3	Remove/install (fig. 31). Clean/lubricate.	Repair/replace. Refer to TM 9-1005-234-14P for authorized parts.
renade Launcher Sight, M15	Remove/install (fig. 31). Clean/lubricate.	Repair/replace. Refer to TM 9-1005-234-14P for authorized parts.
yonet-Knife, M5 and M5A1	Remove/install (fig 31). Clean/lubricate.	Repair/replace. Refer to TM 9-1005-237-15P for authorized parts.
abbard, M8A1	Clean.	Repair/replace. Refer to TM 9-1005-237-15P for authorized parts.
inter trigger kit	Clean/lubricate.	Repair/replace. Adjust trigger bar. Refer to appendix B for authorized parts.



Figure 31. Materiel used in conjunction with major items.

TM9-1005-222-12 Chapter 5 AMMUNITION

Ammunition is loaded into 8 round clips, which are inserted, en bloc, into the magazine. (see fig. 32).

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.

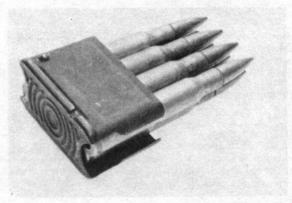


Figure 32. Cartridges and clip.

TM9-1005-222-12 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 cannibalization. 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) Tigger
 - (6) Safety

Appendix A REFERENCES

A 1 Dublington Indones
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 or 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 AR385-40 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
c. Inspection and Maintenance. Cleaning of Ordinance Materiel
d. Training.
Military Training ManagementFM 21-5Techniques of Military InstructionFM 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

Codo

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 numbers, 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

Evalenation

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 manufac-
	tured in indicated maintenance levels.
Α	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.
Χ	Parts and assemblies which are not procured or stocked and the mortality
	of which is normally below that of the applicable end item or compo-
	nent. The failure of such part or assembly should result in retirement of
	the end item from the supply system.
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 requisi-
	tioned with supporting justification through normal supply channels.
G	
	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
0	Organizational
F	Direct Support
H	General Support
D	Depot

Code

Explanation

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

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.

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.

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

indicated-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).

k. 15-Day Organizational Maintenance Allowances.

- (1) The allowance columns are divided into four subcolumns. Indicated in each sub-column 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 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.

l. 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

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

(2)	(3)	(4)	(5)	(6)	(7) Illustra	
Federal Stock No.	Description Reference Number & Mfr. Code	Unit of issue	inc. in	Qty. furn. with equip.	(a) Fig. No.	(b) Item No.
	RIFLES, CALIBER .30, M1, M1C (SNIPER'S) AND M1D (SNIPER'S) REPAIR PARTS: NONE AUTHORIZED					
	TOOLS AND EQUIPMENT					ļ
1005-556-4174	BRUSH, CLEANING, SMALL ARMS: BORE 5564174 (19205)	EA		1	33	1
1005-691-1381	BRUSH, CLEANING, SMALL ARMS: CHAMBER 7790582 (19205)	EA		1	33	2
1005-791-3377	CASE LUBRICANT: 7790995 (19205)	EA		1	33	7
1005-650-4510	CASE, SMALL ARMS CLEANING ROD: 7267754 (19204)	EA		1	33	6
1005-793-6761	HANDLE ASSEMBLY: CLEANING ROD: 7266115 (19204)	EA		1	33	3
1005-726-6109	ROD SECTION, CLEANING, SMALL ARMS: 7266109 (19205)	EA		4	33	4
1005-654-4058	SLING, SMALL ARMS: 6544058 (19205)	EA		1	34	
1005-726-6110	SWAB HOLDER SECTION, SMALL ARMS CLEANING ROD: 7266110 (19204)	EA	~~	1	33	5

Section III. MAINTENANCE AND OPERATING SUPPLIES

(1)	(2)	(3)
Component application	Federal stock number	Description
CALIBER .30 RIFLES M1, M1C (Sniper's) and M1D (Sniper's)	1005-288-3565	SWAB, SMALL ARMS CLEANING: COTTON 2½ sq (1,000 IN PKG) 5019316 (19204)

Section IV. PRESCRIBED LOAD ALLOWANCE

(1) Federal stock No.	(2) Description		(3) Qty.inc. in unit pack	15	day org	4) anization llowance	
	Usab	le on code		(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	EIECTOR						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	EIECTOR, CARTRIDGE				-	2	2
1005-600-6818	PLUNGER, EXTRACTOR SPRING				2	2	2
1005-600-8868	APERTURE, SIGHT		ا ۔۔ ا		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	С			2	2	2
1005-731-2737	KNOB		i i		2	2	2
1005-819-4501	PIN, TRIGGER				2	2	2
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 RO	OD			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,		~-		2	2	2
1005-726-6110	SMALL ARMS SWAB HOLDER SECTION, SMALL ARMS CLEANING ROD				2	2	3
1005-791-3377	CASE, LUBRICANT				2	2	2
1005-791-5577	HANDLE ASSEMBLY				2	2	2
1240-763-1596	CASE, TELESCOPE		~		ا ۔۔	2	2
1470-103-1370	CASE, TELESCOPE					۷	

Section V. REPAIR PARTS LIST

		t		SCHOIL V. MEI MIN I MIN S LIST								
	€		(2)	(3)	€	(\$)			9		6	
Sour	Source maint. recov. code	aint.	Federal stock No.	Description	 P2	Jnit Qty of inc in		day or	15 day organizational maintenance alw	onal	Illustration	L ion
(a)	æ	3			mean	means unit	ㅗ	L		1		[:
				Reference Number & Mfr Code			<u>e</u> 2.	6-20 6-20		(c) (d) 21-50 51-100	(a) (b) Figure Item No. No.	No m G
				REPAIR PARTS FOR:								
				RIFLES, CALIBER .30, M1, M1C (SNIPER'S) AND M1D (SNIPER'S)								
				TRIGGER HOUSING ASSEMBLY								
Ъ	0	ŧ	1005-819-4501	PIN, TRIGGER:	EA		*	-	7	3	35	_
				7791367 (19205)								
Д	0	ì	1005-554-6026	TRIGGER: 5546026 (19205)	EA	_	*	*	*	7	35	7
Д	0	ì	1005-600-8887	SPRING, HELICAL, COMPRESSION:	EA	_	*	7	7	7	35	4
	(20 COILS, HAMMER 6008887 (19205)			•		,	,	,	Y
Д,	0	1	5315-501-3668	PIN, STRAIGHT, HEADED: S, FL-FIL-HD, 0.187 MAX DIA SHANK 1/2 NOM 1.G UNDER	EA_		*	7	7	<u>د</u>	B-2	٥
				5013668 (19204)			_				-	
۵.	0	1	1005-554-6015	SAFETY SMALL ARMS:	EA	_	*	*	7	7	35	8/8W
۵.	0		1005-554-6018	EJECTOR: CLIP 5546018 (19205)	EA	_	*	*	*	7	35	2
				BARREL AND RECEIVER GROUP:								
Ь	0	1	1005-614-7568	SPRING, HELICAL, COMPRESSION: 200	EA		*	*	7	7	36	7
¥	1	1	***********	10.1 AL COLLS, OFERA LING ROD 614/368 (19203) BOLT ASSEMBLY 5546023	1	1	1	1	ŧ	ì	36	4
Д	0	;	1005-953-9504	EXTRACTOR, CARTRIDGE:	EA		*	7	7	7	36	5
Д	0	1	1005-600-8616	EJECTOR, CARTRIDGE:	EA		*	*	7	7	36	9
Д	0	1	1005-600-8618	PLUNGER, EXTRACTOR SPRING:	EA	_	*	7	7	7	36	2
¢	(000000000000000000000000000000000000000	6008618 (19205)	Ĺ	-	,	,	,	,	3,6	c
2. D	20	; ;	1005-600-8879	FIN, FIKING: BOLI ASST BUCKS/9 (19205) PIN SHOLLI DER HEADED: FOLLOW/FR ARM	EA FA	<u> </u>	* *	+ +	7	7 (۶ ک	∞ ⊆
-		1	10001001	1114, 317, 317, 312, 317, 317, 317, 317, 317, 317, 317, 317	<u> </u>	•			1	1	3	2
۵	0	ì	1005-313-9441	SCREW: GAS CYLINDER LOCK	EA		*	7	7	7	36	15
				(50767) (50767)	_	-	_		_	_	•	

5305-501-3678
1005-600-8891
005-556-4245
1005-534-6024 COARD, HAND, CON: REAR 1005-731-2556 GUARD, HAND, GUN: REAR
<u></u>
005-731-2737 KNOB: WINDAGE
(005-999-3400 FINION: ELEVATING 11010304 (192) (192) (192) (192) (192) (192) (192)
TELESCOPE, M84
1240-766-7454 EYESHIELD: 7667454 (19200)
KIT, WINTER TRIGGER
1005-775-0364 TRIGGER ASSEMBLY, WINTER: M5
5305-990-6435 C/80808 (19205) SCREW TAPPING, THREAD FORMING:
1005-010-5022 WASHER, HINGE RETAINING: TRIGGER
1005-778-0580 SAFETY, WINTER: 7790903 (19205)
MATERIAL REQUIRED FOR COLD WEATHER CLIMATES
THE FOLLOWING ITEM IS ISSUED OR REQ.
TION OF AREA COMMANDER
1005-777-1369 KIT, WINTER TRIGGER: FOR ARCTIC HANDWEAR 5910520 (19204)
NOTE. INSTALLATION WILL BE PERFORMED BY DIRECT SUPPORT MAINTENANCE PERSONNEL.

Section VI. SPECIAL TOOLS, TEST AND SUPPORT EQUIPMENT

1	11																								
(7) Illustration	S Iren				-				9		•	7		4		2		۷	3			_		7	
Illus	Figure No.						33		33		34	33		33		33		33	33			수		5	6
ional Ilw	(d) (a) (b) 51-100 Figure Item No. No.				7		9		7		٠	3		7		3		7	7			;		:	;
(6) 15 day organizational maintenance alw	(c) 21-50				7		~		7		7	7		7		7		7	7			ì		;	ì
5 day o	(h) 6-20	L			7		7		7		7	7		7		7		7	7			:		:	1
	(a) 1-5				*		*		*		*	*		*		*		*	*			_			-
(4) (5) Unit Qry of inc in					1		1		1		1	1		}		ł		1	1			1		ŧ	
(*) Unit of					2		EA		EA	i	EA	EA		E		EA		EA	EA			EA		EA	EA
(3) Description	Reference Number & Mfr Code Usable on Code	TOOLS AND EQUIPMENT	TOOLS AND EQUIPMENT AUTHORIZED	FOR UNIT REPLACEMENT	SWAB, SMALL ARMS CLEANING:	5019316 (19204)	BRUSH, CLEANING, SMALL ARMS: BORE	5564174 (19205)	CASE, SMALL ARMS CLEANING ROD:	7267754 (19205)	SLING, SMALL ARMS:	BRUSH, CLEANING, SMALL ARMS:	CHAMBER 7790583 (19205)	ROD SECTION, CLEANING, SMALL ARMS:	7266109 (19205)	SWAB HOLDER SECTION, SMALL ARMS	CLEANING ROD: 7266110 (19204)	CASE, LUBRICANT: 7790995 (19205)	HANDLE ASSEMBLY: CLEANING ROD 7266115 (19204)	ORGANIZATIONAL MAINTENANCE TOOLS	AND EQUIPMENT (FOR ARMORERS USE) THE 15-DAY LEVEL IS NOT APPLICABLE.	ENVELOPE: FABRIC, 2-BUTTON, 3H X 4-7/8W	7228907 (19205)	REFLECTOR, GUN BARREL:	EXTRACTOR, RUPTURED CARTRIDGE CASE: 7790352 (19205)
(2) Federal stock No.					1005-228-3536		1005-556-4174		1005-650-4510		1005-654-4058	1005-691-1381		1005-726-6109		1005-726-6110		1005-791-3377	1005-793-6761			1005-722-8907		4933-628-9700	4933-652-9950
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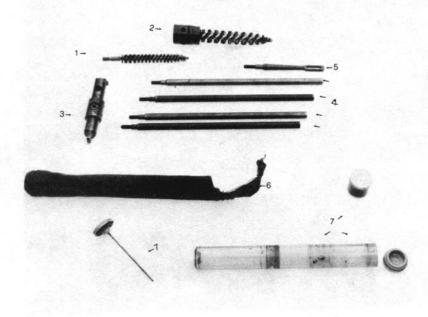


Figure 33. Basic cleaning tools.

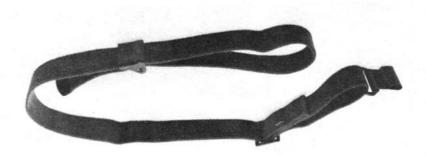


Figure 34. Web sling.

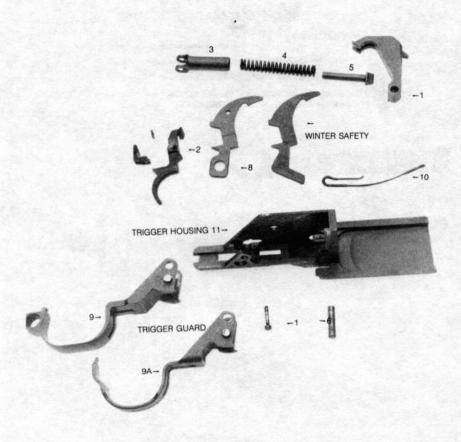


Figure 35. Trigger assembly - exploded view.

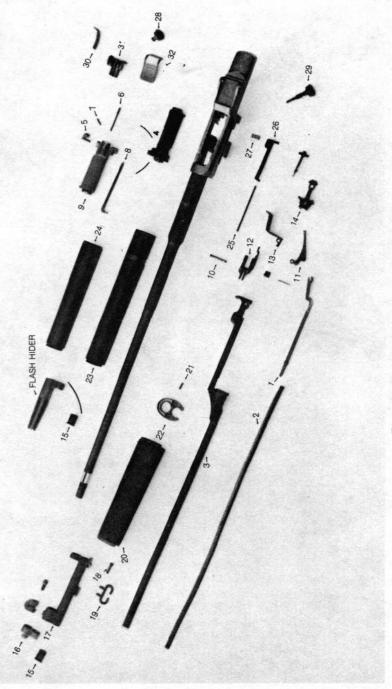


Figure 36. Barrel and receiver group - exploded view.



Figure 37. Telescope, M 84.

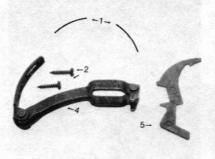


Figure 38. Winter trigger kit - exploded view.



Figure 39. Winter trigger kit, type T-36.

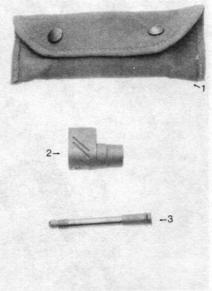
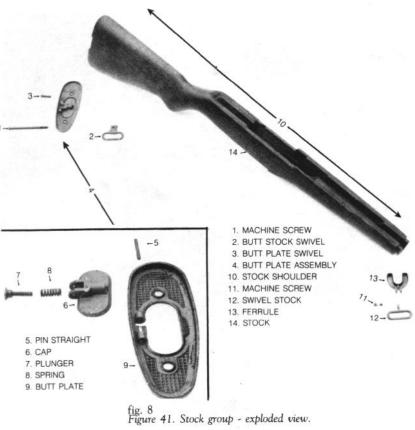


Figure 40. Special tools and equipment.



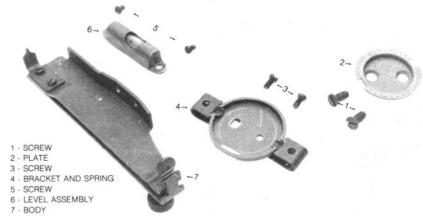


Figure 42. Grenade launcher sight, M 15 - exploded view.



Figure 43. Gas cylinder cap screws, current type and old type.

NOTE: THIS ITEM MAY NOT
BE DISASSEMBLED.
ILLUSTRATION IS FOR
REFERENCE ONLY.

GAS CYLINDER
CAP SCREW





Figure 44. Gas cylinder cap screw, current type - exploded view.

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.

Section II. Maintenance Allocation Chart for Rifle, Caliber .30, M1, M1C (Sniper's), and M1D (Sniper's)

(1)	(2)	(3) Maintenance function									(4) Tool	(5)		
Oroup number	Functional group	Inspect	Test	Service	Adjust	Align	Calibrate	Install	Replace	Repair	Overhaul	Rebuild	and equipment	Remarks
	TRIGGER HOUSING ASSEMBLY	С	_	С	_	-	-	С	_	0	D	_		
	STOCK ASSEMBLY	C	_	C	-	-	_	C	-	F	D	-	The said	
	BARREL AND RECEIVER GROUP	C	-	C	-	_	-	-	-	0	D	-		
i	TELESCOPE, M84	C	_	C	-	-	-	-	Н	-	D	-	BE THE	
20153	TELESCOPE, W/BRACKET	C	_	C	-	-	-	C	-	0	-	-	55	
	MOUNT ASSEMBLY, M1C	C	-	C	-	-	-	F	-	F	D	-		
4000000	MOUNTING BRACKET ASSEMBLY MID	С	-	С	-	-	-	F	-	F	D	-	1	
1000	CHEEK PAD ASSEMBLY, MIC & MID	C	-	C	-	-	-	F	F	-	D	-		

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.

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

CALIDICATE	To determine the corrections to be made in the readings of instruments of test
	equipment used in precise measurement. Consists of the comparison of two in-
	struments, 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.
DEDI ACE	T to the control of the later with a section block and the complete and the control of the contr

REPLACE	To replace unserviceable items with serviceable assemblies, subassemblies, or part.
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 condi-
	tion 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.

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.
- 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	Code	Explanation
С	Operator/crew		
0	Organizational	Н	General Support
F	Direct 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.

ADDENDA Supplemental Material From TM 9-1005-222-35

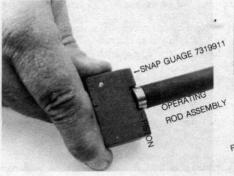


Figure 45. Gaging diameter of gas piston.



Figure 47. Gaging firing pin protrusion.

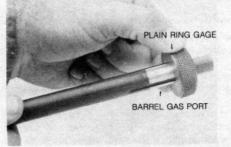
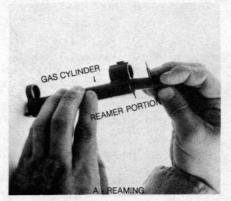


Figure 46. Gaging barrel diameter at gas port.



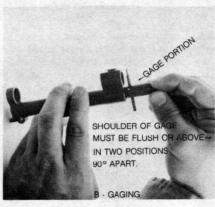


Figure 48. Reaming and gaging front interior of gas cylinder.

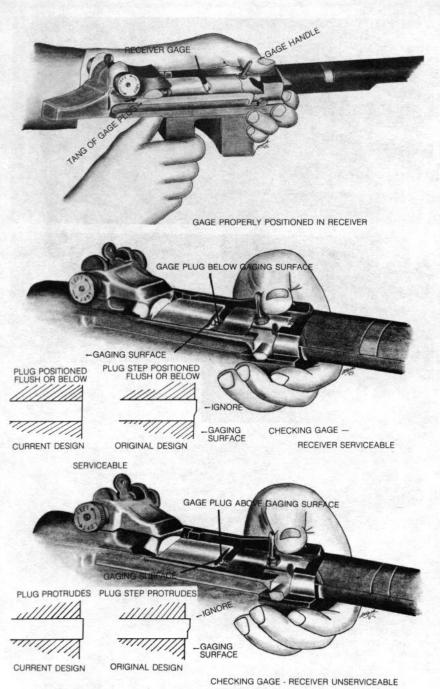


Figure 49. Gaging receiver.



4.5 LB. MIN. - 6.5 MAX. (M 1C. M 1D)

Figure 52. Checking trigger pull.

Figure 51. Checking headspace.

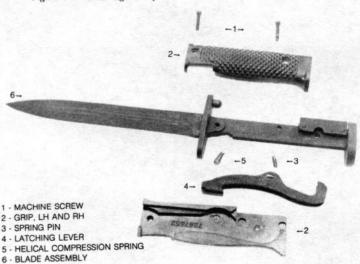


Figure 53. Bayonet knife, M 5A1 - exploded view. NOTE: Bayonet knife M 5 differs internally, only, in position of helical spring.



Figure 54. Telescope, M 82 and mount assembly (M 1C, Sniper only). From the collection of Bill Douglas.

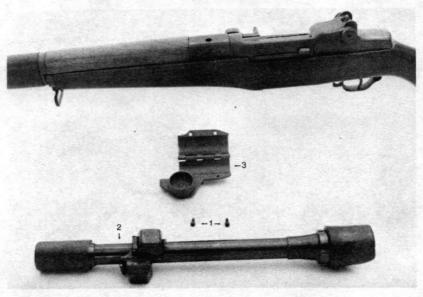
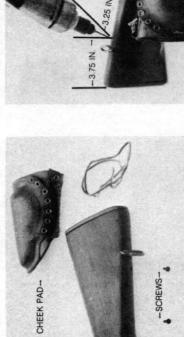


Figure 55. Telescope, M 84 and mount assembly (M 1D, Sniper only).



CHEEK PAD ASSEMBLY — EXPLODED VIEW (M 1C (Sniper's) and M 1D (Sniper's) only).



DRILLING HOLES IN STOCK ASSEMBLY FOR INSTALLING WOOD SCREWS.



REMOVE/INSTALL CHEEK PAD.



CHEEK PAD WITH LACE INSTALLED ON RIFLE, M 1C OR M 1D.



Figure 56. Installation/removal of cheek pad assembly, Rifles M 1C and M 1D (Sniper's)

REMOVE/INSTALL LACE.

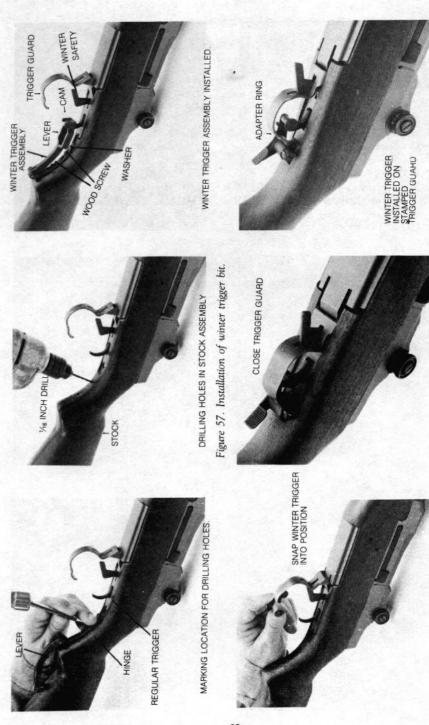


Figure 58. Installation of alternate winter trigger bit. Type T-36

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:

To be distributed in accordance with DA Form 12-40, (qty rqr block no. 128) Organizational maintenance requirements for Rifles, Caliber .30: M1, M1C (Sniper's) and M1D (Sniper's).