DEPARTMENT OF THE ARMY TECHNICAL; MANUAL

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

FOR

40-MM GRENADE LAUNCHER M79

(1010-691-1382)

HEADQUARTERS, DEPARTMENT OF THE ARMY

JULY 1972

This reprint includes all changes in effect at the time of publication changes 1 through 3.

WARNING

Before starting an inspection, be sure to clear weapon. DO NOT actuate trigger until weapon has been cleared. Inspect chamber to be sure it is empty. Avoid having live ammunition in working vicinity.

WARNING

DO NOT dislodge gun safety actuator from slot in left side of receiver. Safety spring is under a load of approximately 13.4 pounds when latch is in open position. When latch is in locked position, load on safety spring is approximately 2.5 pounds.

Changes in force:C1

CHANGE
NO. 1

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, D. C., *15 November 1972*

Organizational, Direct Support and General Support Maintenance Manual (Including Repair Parts and Special Tools List) For 40-MM GRENADE LAUNCHER M79 (1010-6911-382)

TM 9-101205-24, 13 July 1972. is changed as follows:

Page 7. Table 2-2, item to be inspected column, under grenade launcher, change DA Pam 310-4 to DA Pam 310-7.
Page 18. Figure 3-4 is superseded as follows:

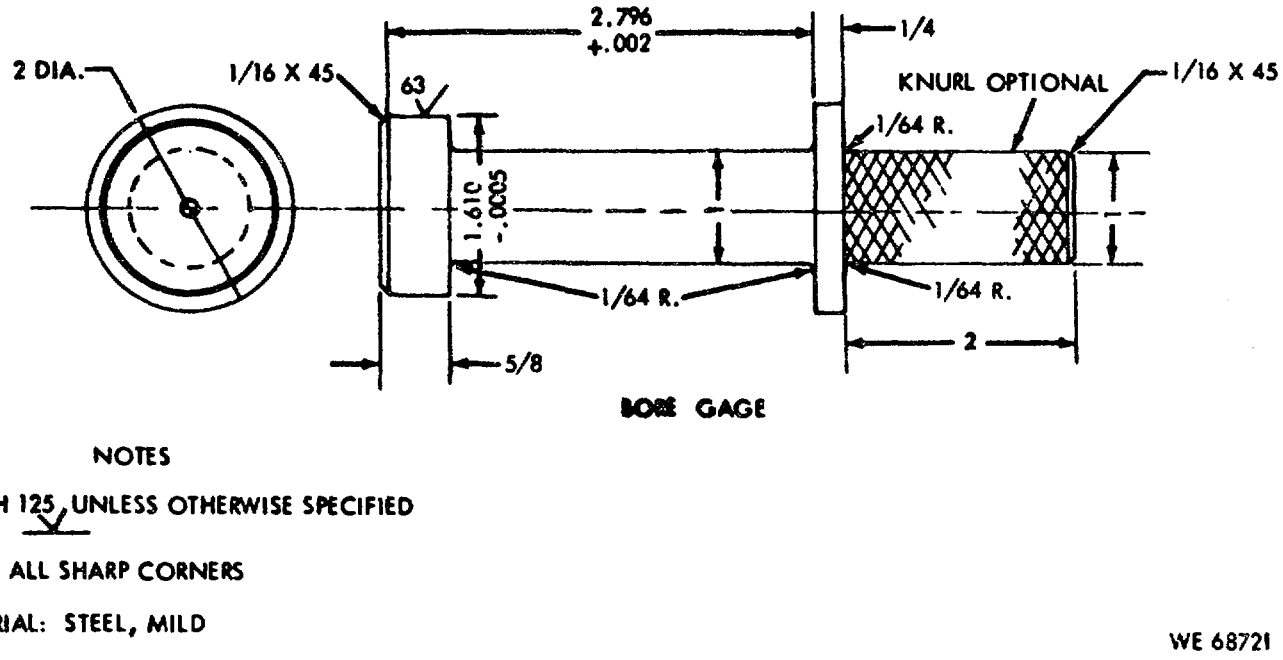


Figure 3-4. Bore gage.

By Order of the Secretary of the Army:

CREIGHTON W. ABRAMS
General, United States Army
Chief of Staff

Official:

VERNE L. BOWERS
Major General, United States Army
The Adjutant General

Distribution:

To be distributed in accordance with DA Form 1240(qty rqr block No. 81), Direct/General Support Requirements for 40-MM Grenade Launcher M79.

Changes in force: C 1 and C 2

CHANGE
No. 2

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASINGTON, D.C., *8 March 1973*

Organizational, Direct Support and

General Support Maintenance Manual

(Including Repair Parts and Special Tools List)

for

40-MM GRENADE LAUNCHER M79

(1010-691-1382)

TM 9-1010-205-24, 13 July 1972, is changed as follows:

Page 8. Figure 2-1 is superseded as follows:

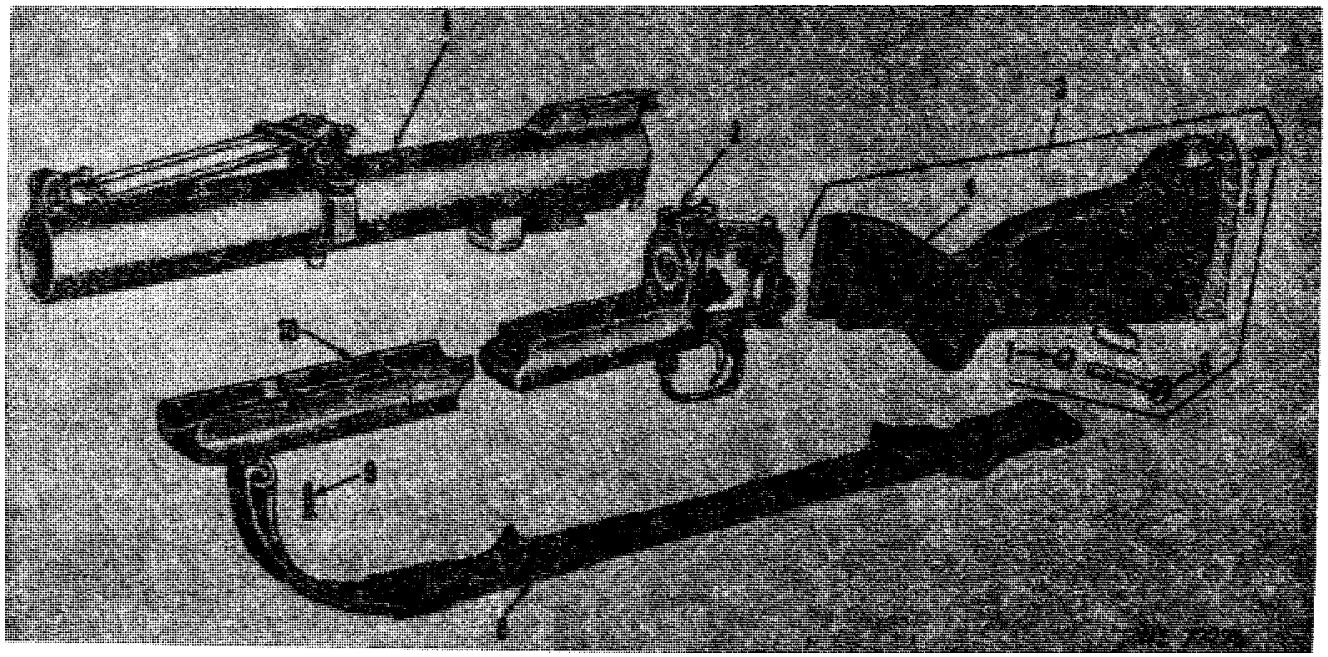


Figure 2-1. 40-mm grenade launcher M79--partial disassembly.

1 Barrel group and rear sight assembly
2 Receiver group
3 Stock assembly
4 Stock
5 Recoil pad plug
6 Pan head screw
7 Lock washer
8 Sling
9 Countersunk head machine screw
10 Fore end assembly

Page 48. Item 4, figure C-6. FSN 1005.6544058 is changed to, 1005-167-4336 and reference number 6544058 is changed to, 8448770.

Page 55. Item 4, figure C-6. FSN 1005-654-4058 is changed to, 1005-167-4336 and reference number 6544058 is changed to, 8448770.

Page 59. Figure C-6 is superseded as follows:

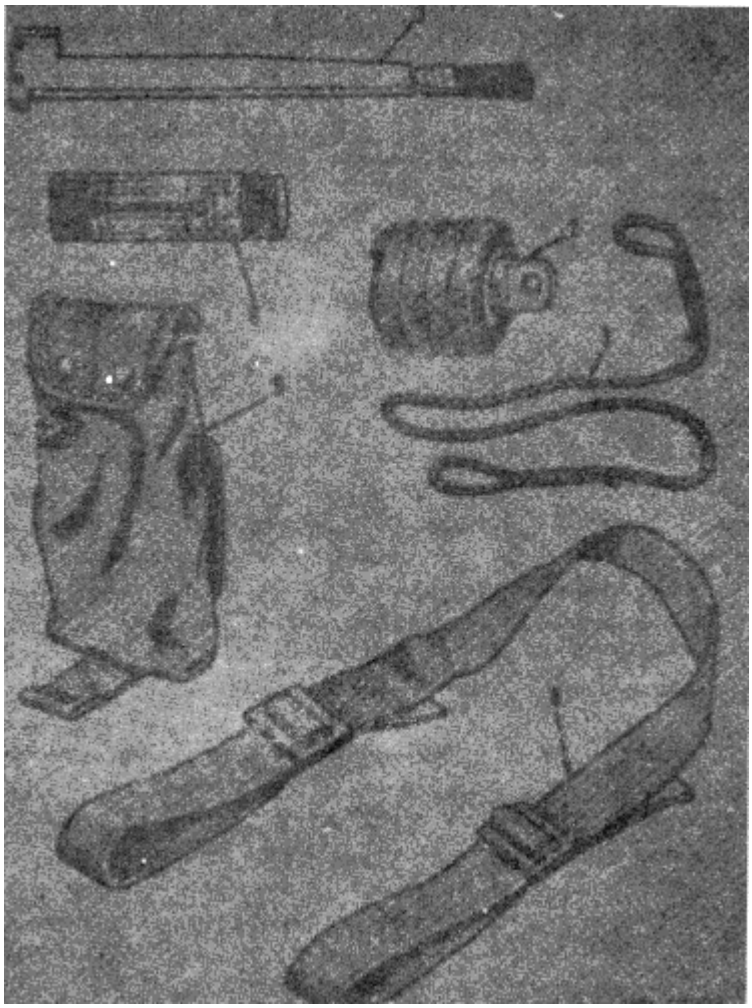


Figure C-6. Tools end equipment for 40-mm grenade launcher M79.

By Order of the Secretary of the Army:

CREIGHTON W. ABRAMS
General, *United* States *Army*
Chief of *Staff*

Official.
VERNE L. BOWERS
Major General, United States Army
The Adjutant General

Distribution:
To be distributed in accordance with DA Form 12-40 (qty rqr block No. 81) direct and general support maintenance requirements for 40MM Grenade Launcher, M79.

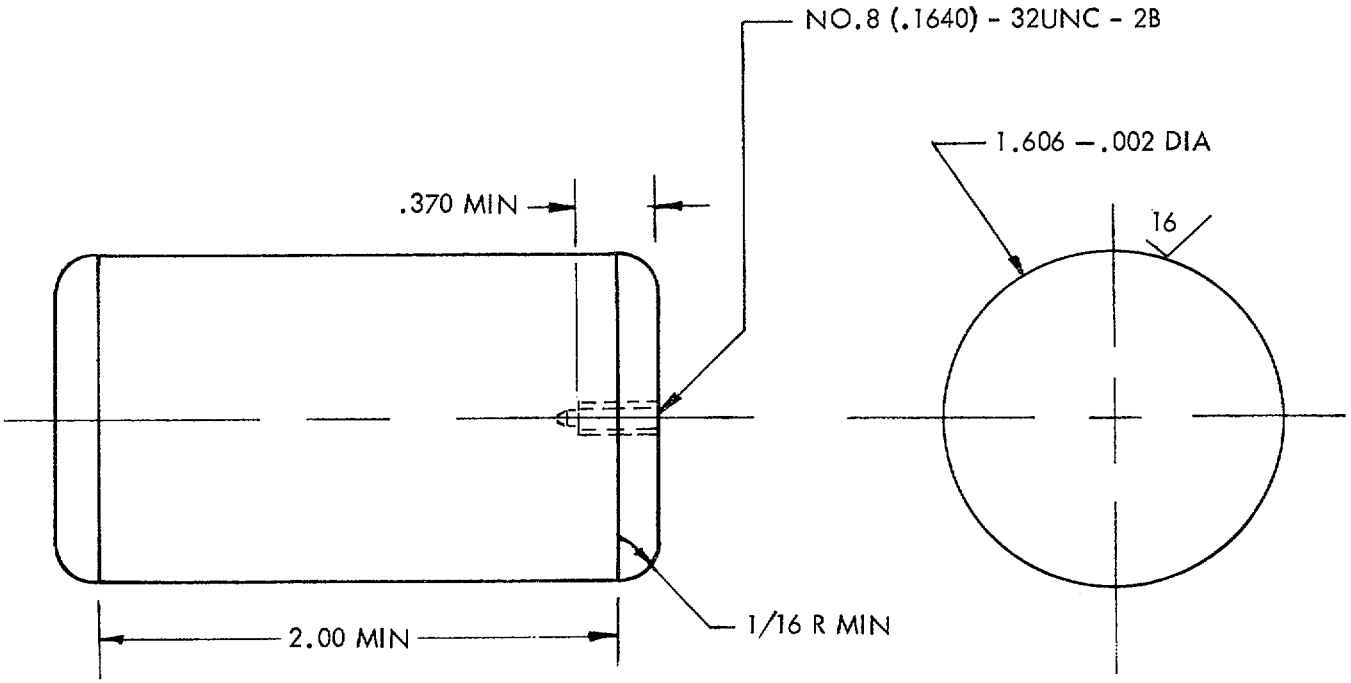
Changes in force: C1, C2, and C3

CHANGE
No. 3

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., *7 August, 1973*

Organizational, Direct Support and General Support Maintenance Manual (Including Repair Parts and Special Tools List) FOR 40-MM GRENADE LAUNCHER M79 (1010-691-1382)

TM 9-1010-205-24, 13 July 1972, is changes as follows:
Page 13. Add the following illustration:



1. MATERIAL: MILD STEEL, BAR STOCK BRASS, OR ALUMINUM ALLOY.
2. PURPOSE OF GAGE: TO DETERMINE IF A BARREL HAS INWARD BULGE CAUSED BY OVERTIGHTENING THE SCREW ON THE REAR SIGHT BASE. SCREW P/N 7790647 SHOULD BE TIGHTENED TO A TORQUE OF 15 INCH POUNDS. GAGE SHOULD FREELY PASS THRU THE BARREL.
3. USE ROD SECTION, CLEANING, SMALL ARMS (WHICH MAYBE OBTAINED FROM SMALL ARMS REPAIRMANS TOOL SETS) FOR A HANDLE.

WE 73898

Figure 3-4.1 Barrel restriction gage.

Page 18. Disassembly/assembly column, paragraph 10, is changed as follows:

Insert retainer (15) and spring (14) in aperture carrier (16); install nut (17) onto retainer; lightly peen end of threaded area on retainer.

By Order of the Secretary of the Army:

CREIGHTON W. ABRAMS
General, United States Army
Chief of Staff

Official:

VERNE L. BOWERS
Major General, United States Army
The Adjutant General

Distribution:

To be distributed in accordance with DA Form 12-40 (qty rqr block No. 81) direct and general support maintenance requirements for 40MM Grenade Launcher M79.

TECHNICAL MANUAL
No. 9-1010-205-24

HEADQUARTERS,
DEPARTMENT OF THE ARMY
WASHINGTON. D.C., *13 July 1972*

ORGANIZATIONAL, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL (INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST) FOR 40-MM GRENADE LAUNCHER M79 (1010-691-1382)

Current as of 6 April 1972

*This manual supersedes TM 9-1010-205-12, 3 February 1961, including changes; TM 9-1010-205-24P, 26 June 1968; and TM 9-1010-205-34, 28 June 1966**,** including changes.

LIST OF ILLUSTRATIONS

LIST OF TABLES

CHAPTER, 1

INTRODUCTION

Section I. GENERAL

1-1. Scope

This manual contains instructions for organizational, direct support, and general support maintenance personnel maintaining the 40-MM grenade launcher M79 (figs. 1-1 and 1-2). It also contains lists of repair parts and special tools.

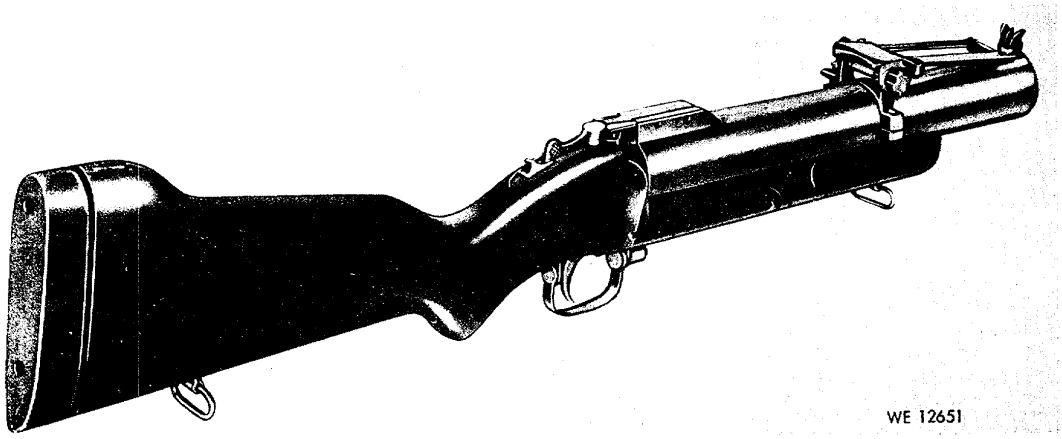


Figure 1-1. 40-MM grenade launcher M79-right rear view.

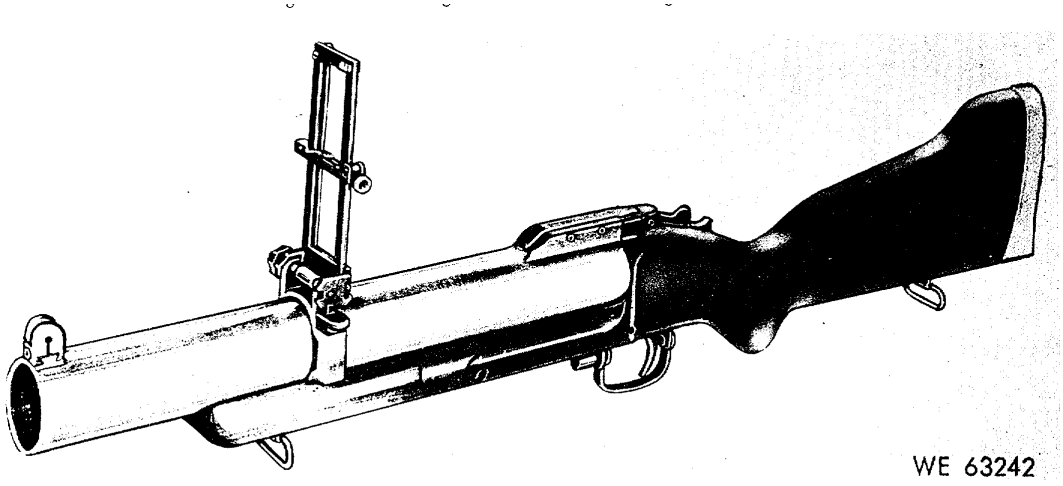


Figure 1-2. 40-MM grenade launcher M79-left front view.

1-2. Maintenance Forms and Records.

Maintenance forms, records, and reports which are to be used by maintenance personnel at all maintenance levels are listed in, and prescribed by, TM 38-750, The Army Maintenance Management System (TAMMS).

1-3. Reporting of Errors

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 Publications, and forwarded directly to Commanding General, U. S. Army Weapons Command, ATTN: AMSWE-MAS/SP, Rock Island, Illinois 61201.

1-4. Destruction of Materiel to Prevent Enemy Use

Refer to TM 750-244-7, Procedures for destruction of equipment in Federal Supply Classifications 1000, 1005, 1010, 1015, 1020, 1025, 1030, 1055, 1090, and 1095 to prevent enemy use.

Section II. DESCRIPTION AND DATA

1-5. Description

Refer to TM 9-1010-205-10, operator's Manual for 40-MM grenade launcher M79.

1-6. Tabulated Data

Rifling:

Length	11.83 in.
Number of lands	6
Depth of grooves	0.02 in.
Twist	Uniform right hand one turn in 48 in.

1-7. Identification Plates

The model and serial numbers are stamped on the bottom of the receiver in front of the trigger guard.

CHAPTER 2

ORGANIZATIONAL MAINTENANCE INSTRUCTIONS

Section I. SERVICE UPON RECEIPT OF MATERIEL

2-1. General

a. When a new or reconditioned grenade launcher M79 is received, the officer in charge is responsible for determining whether the launcher has been properly prepared for service and is in functioning condition.

b. A record will be made of all missing parts, tools, equipment, and any malfunctions. Deficiencies will be corrected as soon as possible.

c. When unpacking weapons that are volatile corrosion inhibited (VCI) packed, refer to table 2-1.

Table 2-1. Service Upon Receipt of Materiel

Step No.	Procedure
1.	Open exterior container and remove items.
2.	Remove VCI. Whenever possible, retain reuseable container and VCI envelope for returning unserviceable launchers.
3.	Wipe excess oil from items with clean, dry, cloth.
4.	Run a clean, dry, cloth through bores of weapons.
5.	Inspect assemblies for excessive wear, damage, missing parts or corrosion, proper assembly, and correct adjustment. Inspect safety, levers, and locks for proper functioning.

Section II. REPAIR PARTS, SPECIAL TOOLS AND EQUIPMENT

2-2. General

Repair parts, special tools and equipment are listed in appendix C.

Section III. LUBRICATION INSTRUCTIONS

2-3. General

Organizational maintenance is responsible for determining whether launcher has been properly lubricated.

Refer to TM 9-1010-205-10 for lubrication requirements.

Section IV. PREVENTIVE MAINTENANCE CHECKS AND SERVICES

2-4. General

Preventive maintenance is a systematic care, inspection, and servicing of equipment to keep it in serviceable condition, prevent breakdowns, and assure maximum operational readiness. Items to be inspected and serviced are listed in table 2-2.

Table 2-2. Organizational Preventive Maintenance Checks and Services

Interval and Sequence No. W	Interval and Sequence No. M	ITEM TO BE INSPECTED PROCEDURE	Work Time (M/H)	
	1	GRENADE LAUNCHER		
		Check DA Pam 310-4 to see that all modifications have been applied.	0.1	
1		RECEIVER GROUP		
		Partially disassemble as authorized (firing pin, spring and retainer only). Clean and oil. Check for damaged or broken parts. Reassemble. Use screwdriver and wrench combination 4933-736-8575.		0.2
	2	EQUIPMENT AND PUBLICATIONS		
		Check for completeness and serviceability.	0.2	

LEGEND:
W-Weekly
Total man-hours required: 0.2
M-Monthly
Total man-hours required: 0.3

Section V. TROUBLESHOOTING

2-5. General

This section provides information to organizational maintenance in diagnosing and correcting unsatisfactory operation or failure of the launcher. Refer to table 2-3 as a guide in troubleshooting. For operator troubleshooting, refer to TM 9-1010-205-10.

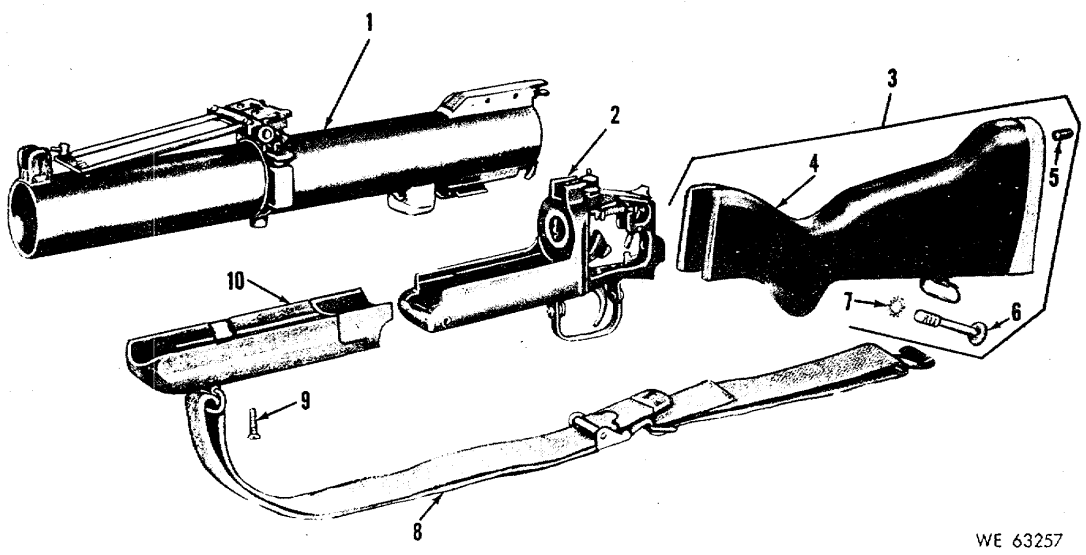
Table 2-3. Troubleshooting-Organizational

Item No.	Malfunction	Probable cause	Corrective action
1.	Failure to fire.	a. Broken hammer.	a. Notify direct support maintenance.
		b. Weak or broken hammer spring	b. Notify direct support maintenance.
		c. Broken sear, cocking arm, or cocking lever.	c. Notify direct support maintenance.
2.	Failure to cock.	*a.* Defective sear.	a. Notify direct support maintenance.
		b. Defective cocking arm or lever.	b. Notify direct support maintenance.
3.	Safety will not stay in position selected.	Broken or weak safety spring.	Notify direct support maintenance.
4.	Rear sight will not stay in position selected.	a. Broken lug on sight lock.	a. Notify direct support maintenance.
		b. Broken or weak sight lock spring.	b. Notify direct support maintenance.

Section VI. ORGANIZATIONAL MAINTENANCE PROCEDURES

2-6. Fore End Assembly

a. General. The fore end assembly (10, fig. 2-1) is composed of a rectangular shaped wooden fore end containing a T-shaped metal bracket. The rear end of the bracket is machined to mate with the front end of the receiver assembly. The top surface of the fore end assembly is shaped to conform with the curvature of the launcher barrel. It is secured to the launcher by the machine screw which passes through the rear mounting hole of the front sling swivel.



1-Barrel group and rear sight assembly
2-Receiver group
3-Stock assembly
4-Stock
5-Recoil pad plug
6-Pan head screw
7-Lock washer
8-Sling
9-Coutntersunk head machine screw
10--Fore end assembly

Figure 2-1. 40-MM grenade launcher M79-partial disassembly.

b. Function. The fore end assembly locks the barrel group to the receiver group and serves as a grip for handling, aiming, or firing the weapon.

2-7. Receiver Group

a. *General. The* receiver group (2, fig. 2-1) is a metal frame-like housing with a tapered rear end which mounts to the front end of the stock. Near the front end of the receiver a pin permits the barrel to be installed and also acts as a fulcrum about which the barrel pivots to open and close the breech end of the barrel.

b. Function. The receiver group contains most of the working parts of the launcher and is used to fire the projectile.

2-8. Organizational Maintenance Procedures of Fore End Assembly and Receiver Group

See table 2-4 which includes figures 2-2 and 2-3.

Table 2-4. Organizational Maintenance Procedures of Fore End Assembly and Receiver Group

Removal/installation	Disassembly/assembly	Cleaning, inspection and repair
FORE END ASSEMBLY **CAUTION** **To prevent breakage of combination screwdriver and wrench, exert even pressure when using (fig. 2-2).**		
Removal Removal screw which passes through rear mounting of front sling swivel, by a using combination screwdriver and wrench. Pull fore end assembly away from barrel.	No disassembly is required.	Clean all metal parts with solvent cleaning compound, emulsion type. Dry wipe wooden parts and apply light coat of linseed oil. Replace screw (9, fig 2-1) if damaged.
Installation Installation is reverse procedure of removal.		Notify direct support if bracket or fore end is damaged. Apply light coat of lubricating oil on machined end of fore end assembly.
RECEIVER GROUP	**CAUTION** **Since the spring (2, fig. 2-3) keeps a slight load on the firing pin (3), be careful not to drop spring and / or firing pin as retainer (1) comes free.**	
Removal Remove fore end assembly as outlined above. Operate barrel locking latch and open weapon. Hold stock and receiver stationary. Move barrelll rearward in receiver until disengaged from pin. Installation Installation is reverse procedure of removal.	Disassembly Only partial disassembly is authorized, limited to Replacement of authorized repair parts. Using screwdriver and wrench combination, unscrew retainer located in center of front end of receiver group (fig. 2-2). Assembly Hold receiver group with front end uppermost. Insert short end of firing pin into threaded recessed hole in the center part of receiver. Slide spring on firing pin. Center retainer over threaded area in receiver, with large counterbore hole in center of retainer facing firing pin. Lower retainer, making sure firing pin enters small hole in center of retainer. Compress spring until it contacts threads on retainer and receiver then, by hand, carefully start retainer onto the receiver. Make sure retainer is not cross threaded. Use combination screwdriver and wrench to firmly seat retainer in receiver (fig. 2-2).	Inspect items 1,2 and 3 in figure 2-3 and, if damaged, replace. Inspect items 6 and 7 in figure 2-1 and, if damaged, replace. Refer to TM 9-1010-205-10 for cleaning and lubrication procedures

Table 2-4. Organizational Maintenance Procedures of Fore End Assembly and Receiver Group-Continued

Removal installation	Disassembly assembly	Cleaning, inspection and repair
	Retainer should be firmly seated but not tightened so as to cause difficulty in removing. ***NOTE*** Use a medium grade oil stone. if necessary, to remove burrs around holes in retainer caused by using wrench assembly.	

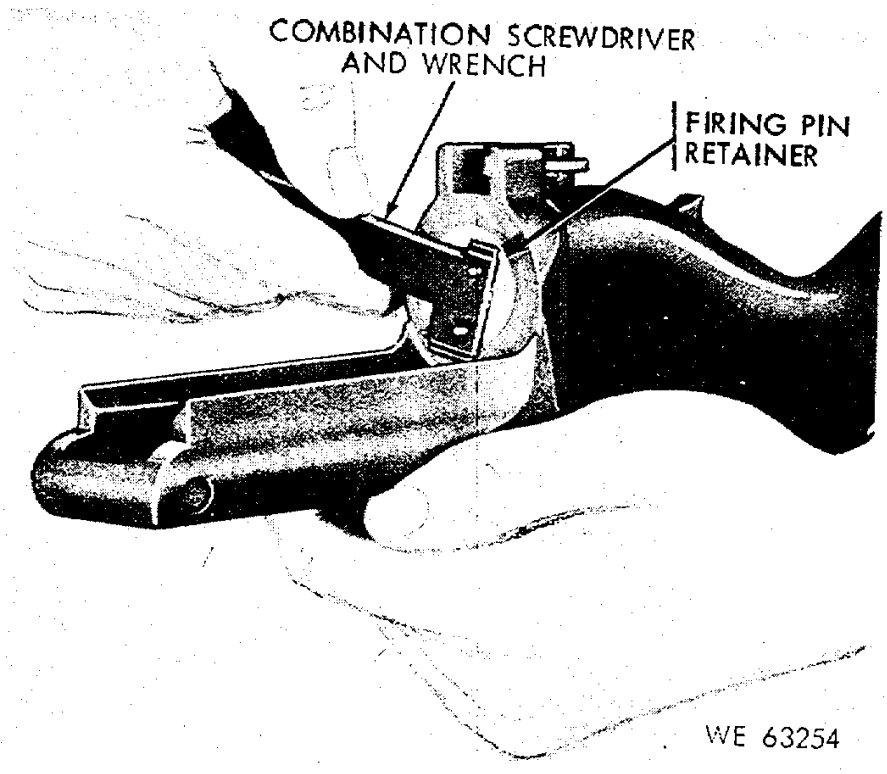
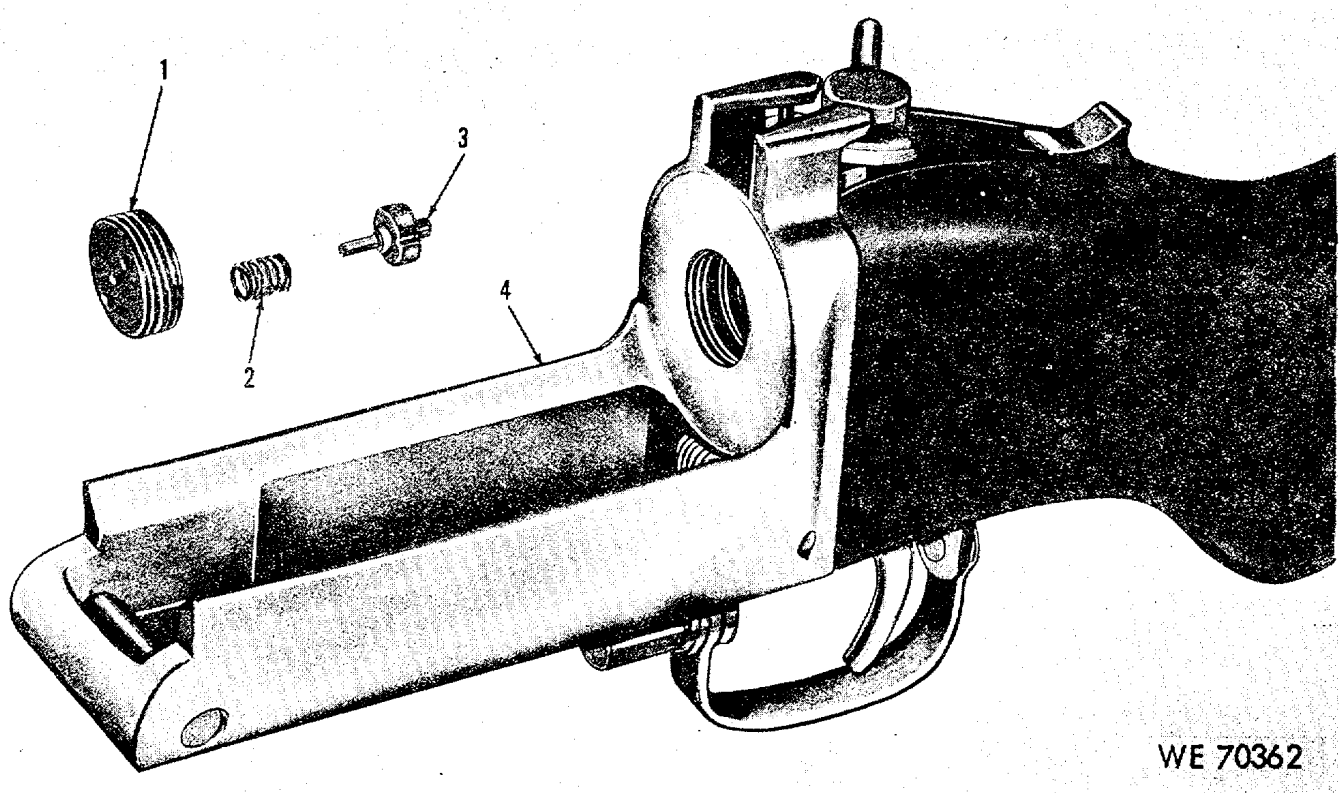


Figure 2-2. Removing or installing firing pin retainer.



1-Retainer
2-Spring
3-Firing pin
4-Receiver group

Figure 2-3. Receiver group-partially exploded view.

CHAPTER 3

DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE INSTRUCTIONS

Section I. REPAIR PARTS, SPECIAL TOOLS AND EQUIPMENT

3-1. General

a. Repair parts, special tools and equipment are listed in appendix C.

b. Improvised tools are listed in table 3-1, which includes figures 3-1 through 3-4.

Table 3-1. Improvised Tools

Item	Reference	Use
Pin, fabricated	Figs. 3-1. 3-2 and 3-3.	To assemble and install hammer and cocking lever in receiver.
Gage, bore, fabricated	Fig. 3-4	To determine serviceability of barrel relative to chamber wear.

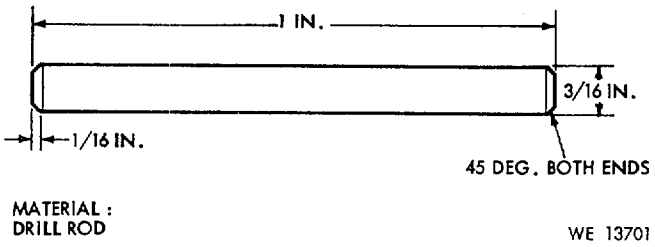


Figure 3-1. Improvised tool for assembly and installation of hammer and cocking lever.

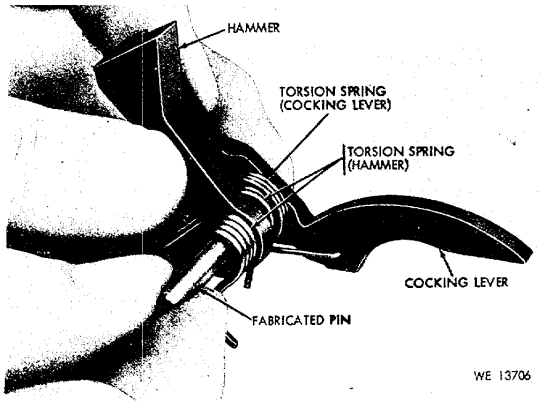


Figure 3-2. Using fabricated pin to assemble hammer, cocking lever, and allied parts.

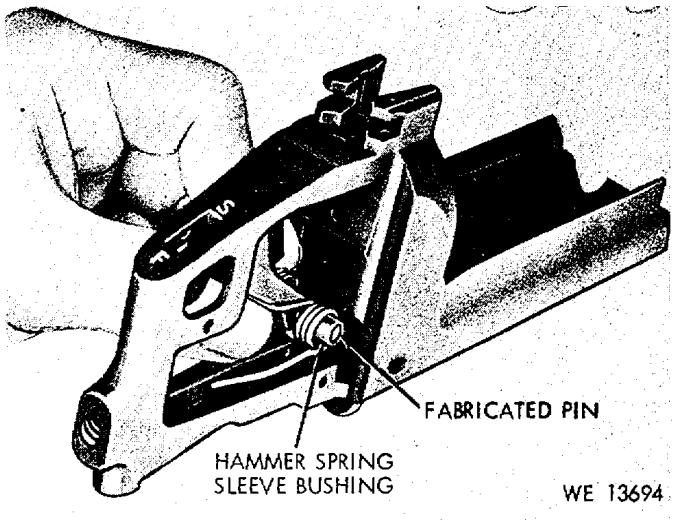
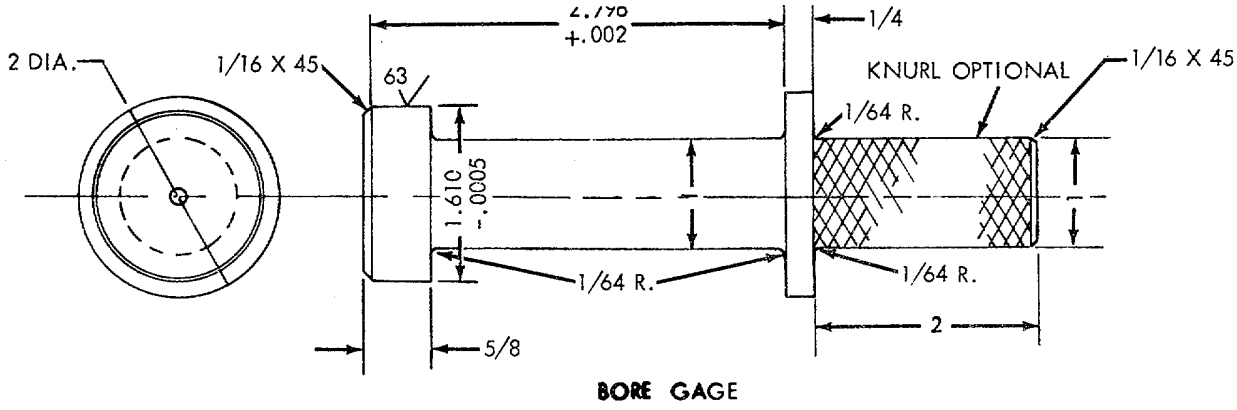


Figure 3-3. Alignment of fabricated pin with associated parts.



NOTES

FINISH 125 UNLESS OTHERWISE SPECIFIED

BRAKE ALL SHARP CORNERS

MATERIAL: STEEL, MILD

WE 68721

Figure 3-4. Bore gage.

Section II. TROUBLESHOOTING

3-2. General

See table 3-2 for troubleshooting. Also refer to table 2-3 for organizational troubleshooting, to TM 9-1010-205-10 for operator troubleshooting, and to table 2-4 for organizational maintenance procedures.

Table 3-2. Troubleshooting-Direct Support and General Support

Item No.	Malfunction	Probable cause	Corrective action
1.	Failure to fire.	a. Broken or weak hammer torsion helical spring.	a. Replace torsion helical spring.
		b. Broken hammer.	*b.* Replace hammer.
		c. Broken or worn firing pin.	*c.* Refer to table 2-4.
2.	Failure to cock.	a. Broken or worn sear.	*a.* Replace sear.
		b. Worn sear notch in hammer.	*b.* Replace hammer.
		c. Broken, loose, or missing cocking arm setscrew.	*c.* Replace cocking arm setscrew.
		d. Broken cocking arm and/or lever	*d.* Replace cocking arm and/o lever
3.	Failure to fully open (break).	Improper assembly of cocking lever and hammer torsion helical springs.	Disassemble and assemble.
4.	Failure to close (lock).	*a.* Inverted latch lock.	*a.* Disassemble and assemble.
		b. Broken compression helical spring on stem of gun safety actuator.	*b.* Replace compression helical spring.
		c. Broken or damaged barrel locking lug and / or latch.	*c.* Replace barrel locking lug and / or latch.
		d. Broken or set firing pin corn-pression helical spring.	*d.* Replace firing pin compression helical spring.
5.	Failure to extract.	*a.* Broken or set extractor corn-pression helical spring.	*a.* Replace extractor compression helical spring.
		b. Dirty chamber.	*b.* Clean.
6.	Failure of safety.	a. Worn safety spring plunger.	*a.* Replace safety spring plunger.
		b. Broken or weak safety spring.	*b.* Replace safety spring.
		c. Broken safety and / or safety lock.	*c.* Replace safety and / or safety lock.
		d. Broken or worn lug on trigger.	d. Replace trigger.
7.	Rear sight frame assembly will not stay in position selected.	*a.* Broken or weak rear sight lock compression helical spring.	a. Replace compression helical spring.
		b. Broken lug on sight lock.	*b.* Replace sight lock.
		c. Worn or damaged slot in frame base.	*c.* Replace frame base.

Section III. MAINTENANCE INSPECTIONS

3-3. Direct Support and General Support Inspections

a. General. Inspection of materiel in direct support and general support maintenance shops consists of initial, in-process, and final inspections. Initial inspections are performed on the materiel before it is admitted to the shop. In-process inspections are performed during the process of repairing the equipment. Final inspections are performed after repairs have been completed.

b. Initial Inspections. Materiel received in direct support and general support maintenance shops should be given a thorough technical inspection. Determination as to the extent and location of trouble will be made before repairs are started and only those necessary to properly condition the materiel shall be accomplished. Initial inspection procedures are listed in table 3-3, which includes figure 3-5.

Table 3-3. Initial Inspection Procedures

Step	Action	Reference
	WARNING **Before starting an inspection be sure to clear weapon. DO NOT actuate trigger until weapon has been cleared. Inspect chamber to be sure it is empty. Avoid having live ammunition in working vicinity.**	
1	Make overall inspection of weapon for general appearance, condition, and functioning.	
2	Inspect barrel lands for uniformity, sharpness and wear.	Table 4-3
3	Check trigger pull.	Table 4-4
4	Measure protrusion and intrusion of firing pin.	Table 4-4 and fig. 3-5
5	Inspect barrel components for wear, damage, and restrictions.	Table 4-3 and fig. 4-3
6	Examine front sight for tightness on barrel, straightness, damage. and proper darkness.	Table 4-1 and fig. 4-3
7	Inspect rear sight assembly for secure attachment to barrel.	Fig. 4-2
8	Inspect rear sight assembly components for fit and functioning.	Table 4-2 and fig. 4-5
9	Inspect legibility of graduations and figures on rear sight frame assembly and frame base.	Table 4-2 and fig. 4-5
10	Inspect threads of rear sight assembly component parts for wear or damage.	Table 4-2 and fig. 4-5
11	Inspect receiver and component parts for wear, deformation, and functioning.	Table 4-4 and fig. 4-9
12	Inspect stock and fore end assemblies for wear or damage. Check attachment of parts.	Tables 4-5 and 4-6; figs. 4-15 and 4-16

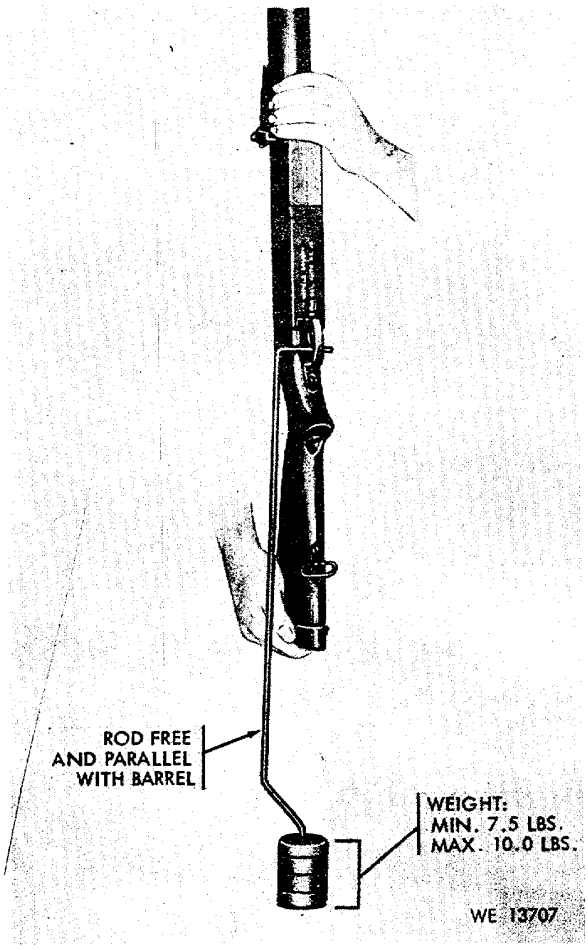


Figure 3-5. Measuring trigger pull with trigger pull measuring fixture ((4933-647-3696).

c. In-Process Inspection. In-process inspections will be made in accordance with specific instructions in chapter 4.

d. Final Inspection. Final inspections are performed after repair has been completed to insure that materiel is acceptable for return to user or for return to replace-ment stock according to the standards established in chapter 5. Final inspections are listed in table 5-1.

Section IV. GENERAL MAINTENANCE

3-4. General Maintenance Repair Methods

a. Disassembly and Assembly Procedures.

(1) In disassembling the weapon, remove the major groups and assemblies (refer to TM 9-1010-205-10 and fig. 2-1). Groups and assemblies may then be disassembled. as necessary, into individual parts.

(2) Complete disassembly of a unit is not always necessary in order to make a required replacement or repair. Good judgment should be exercised to keep disassembly and assembly operations to a minimum.

(3) During assembly, groups and assemblies should be assembled first, then installed to form a complete weapon.

b. Replacement of Parts.

(1) Parts will be replaced when unserviceable.

(2) When assembling a unit, replace spring pins with new ones, if necessary.

(3) Replace screws or washers, if damaged.

(4) Replace springs if broken or deformed.

(5) Replace springs if they fail to function properly or if they do not meet specific requirements.

(6) Such reconditioned parts should be examined carefully to determine their serviceability.

CHAPTER 4

DIRECT SUPPORT AND GENERAL SUPPORT REPAIR

INSTRUCTIONS

This section contains, in tabular form, repair instructions authorized for direct support general support maintenance in the removal / installation, disassembly / assembly, and inspection and repair of major groups and assemblies. Refer to tables 4-1 through 4-6 which and includes figures 4-1 through 4-16. For cleaning and lubrication instructions refer to TM 9-1010-205-10.

Table 4-1. Repair Instructions for Front Sight Assembly

Removal/installation	Disassembly/assembly	Inspection and repair
Removal Refer to figure 4-1. Scribe front sight and barrel to mark position of sight in relation to barrel. Remove screw (2, fig. 4-2. Use brass drift and tap front sight from dovetail. Installation Position sight so that threaded end of screw hole is to the rear. Engage groove in sight with dovetail on barrel. Use brass drift and tap sight on dovetail until scribed marks are aligned. Install screw and tighten securely.	No disassembly is required.	Inspect all parts for damage or wear. Refer to figure 4-3 for inspection points. If damage is not correctable without altering critical dimensions, replace part. If threads are worn or damaged, replace part.

Table 4-2. Repair Instructions for Rear Sight Assembly

Removal/installation	Disassembly/assembly	Inspection and repair
Removal Remove screw (3, fig. 4-2J from left side of rear sight assembly. Refer to figure 4-6. Wedge open base until it can be moved forward out of groove in barrel. Turn assembly until left side of sight base is on top of barrel. Slide assembly forward until it contacts dovetail. Align opening in base with dovetail so that opening will clear dovetail. Slide base forward and off barrel.	Disassembly (fig. 4-4) Operate sight lock (13) and place frame assembly (19) in lowered position. Remove pin (11). Hold lock in depressed position. Separate windage screw (5) from key (8) and base by turning screw counterclockwise. ***NOTE*** Be careful not to drop small plunger an-d spring in windage screw. Turn screw over and remove plunger (7) and spring (6) from knob. Separate frame base from sight base and remove lock and spring (12[from sight base. Remove two setscrews (3) from frame assembly. Slide frame assembly from frame base. Spring (18) will drop out. Remove two screws (1) and separate aperture (2) from aperture carrier (16).	Inspect all parts for damage or wear. Refer to figure 4-5 for inspection points. Replace damaged or worn parts. Replace weak, set or damaged springs. Repair or replace parts with worn or damaged threads. Replace sight lock if lug is broken or damaged. Replace part if burrs cannot be removed. Replace frame assembly or frame base if the graduations or figures are not clear and well defined.

Table 4-2. Repair Instructions for Rear Sight Assembly-Continued

Removal/installation	Disassembly/assembly	Inspection and repair
	Remove nut (17), spring (14), retainer (15), and aperture carrier from frame assembly. ***CAUTION*** **Remove spring carefully as it may pop out when carrier is separated from frame assembly.** Remove pin (20), screw (22), and wheel (21) from frame assembly. Remove plunger (7) and spring (6) from frame assembly. Assembly (fig. 4-4) Insert spring (12) and sight lock (13) into hole in left side of sight base (9). Insert spring (6) and plunger (7) into hole in inner surface of windage screw knob. Depress sight lock and install frame base (4) onto lugs on top of sight base with windage scale facing to the rear. Make sure notch in frame base mates with lug on top surface of sight lock. With sight lock depressed, position key (8) in slot in front center area of frame base and install windage screw (5) through right hand pivot hole in frame base and engage threads in as key. Turn windage screw clockwise until small end of screw enters hole in left side of frame base, and knob end of screw contacts frame base. Insert pin (11) into hole at top of left side of frame base, and tap it to secure windage screw. Insert spring (181 in front slot of frame assembly (19), and hold firmly while engaging T-slot of frame base with mating surface of frame assembly. Slide frame assembly onto frame base. Install setscrews (3), and tighten. Insert retainer (15 and spring 14) in aperture carrier (116; install nut (17); onto retainer. Position aperture carrier (with retainers, spring, and nut) onto front side of frame assembly; install aperture (2) on rear side of frame assembly, and secure with screws (1). Stake screws to prevent loosening. Install spring (6) and plunger 7). Position wheel (21) in frame assembly slot. Install screw (22) through hole in wheel and into frame assembly. Align holes in wheel and screw, and install pin 120).	
Installation (fig. 4-2) Position rear sight assembly (4) at muzzle end of barrel. Center slot in housing of sight base with dovetail of front sight (1), and slide rear sight assembly rearward until it enters groove in barrel. Revolve rear sight until frame assembly is on top of barrel. Install screw (3) into hole on right side of sight base. Temporarily tighten screw only enough to retain it in sight base. ***CAUTION*** **In the following procedure, DO NOT exceed 15 inch pounds of torque indentation of barrel , will result**. After forearm is installed, tighten rear sight base screw to 15 inch pounds of torque,		

Table 4-3. Repair Instructions for Barrel Group

Removal/installation	Disassembly/assembly	Inspection and repair
Removal Operate barrel locking latch and open weapon. Hold stock and receiver group stationary. Move barrel rearward in the receiver until it disengages from pin. Separate barrel from receiver group. Installation Installation is reverse procedure of removal. ‘	Disassembly (fig. 4-7) Drive two pins (4) from upper rear section of barrel (3) and remove barrel locking lug (51 from dovetail cut of barrel. Exert sufficient pressure upon extractor 18) to slightly compress spring (71. Maintain pressure -on extractor and drive out pin (6) from hole in extreme lower right side at rear end of barrel. Release pressure on extractor until there is no load on the spring. Pull out extractor. Incline barrel with breech end down; tap or jar barrel until spring slides from hole. Remove setscrew (10) from bottom surface at breech end of barrel, and remove cocking arm 19) by pulling it rearward from hole in bottom of barrel. Assembly (fig. 4-7) Working from rear end of barrel (3), insert cocking arm (9) into hole in bottom section. Position cocking arm so that small helix slot is at the bottom and aligned with threaded hole in flat bottom surface of barrel. Screw in setscrew (10), making sure point of setscrew enters helix slot in cocking arm. Tighten setscrew securely. Insert spring (7) and extractor (8) into hole in bottom rear end of barrel. Position extractor so that rear portion conforms with contour of rear end of barrel. Push extractor forward until it seats within the rear end of barrel. Insert pin (6), and tap into rear hole in lower right side of barrel to secure extractor. Insert beveled front end of dovetail portion of barrel locking lug (5) into rear opening of dovetail groove on top of barrel. With a brass hammer, lightly tap barrel locking lug forward until holes in barrel are aligned with those in lug. Secure barrel locking lug by driving in two pins (4).	Inspect all parts for damage or wear. Refer to figure 4-3 for inspection points. Replace part, if damage cannot be corrected without altering critical dimensions. Replace worn or damaged parts. Repair. or replace. if threads are worn or damaged. Inspect lands of barrel for uniformity and sharpness. If first 4 inches or more of bore are worn smooth, replace barrel (3.9 inch wear limit). Replace barrel if fabricated bore gage (fig. 3-4 and table 3-1) can be inserted in breech end until gage flange (2.796 depthl contacts rear face of barrel. If sharpness of lands are affected by pits or if pits are 3/8 inch long or more, replace barrel.

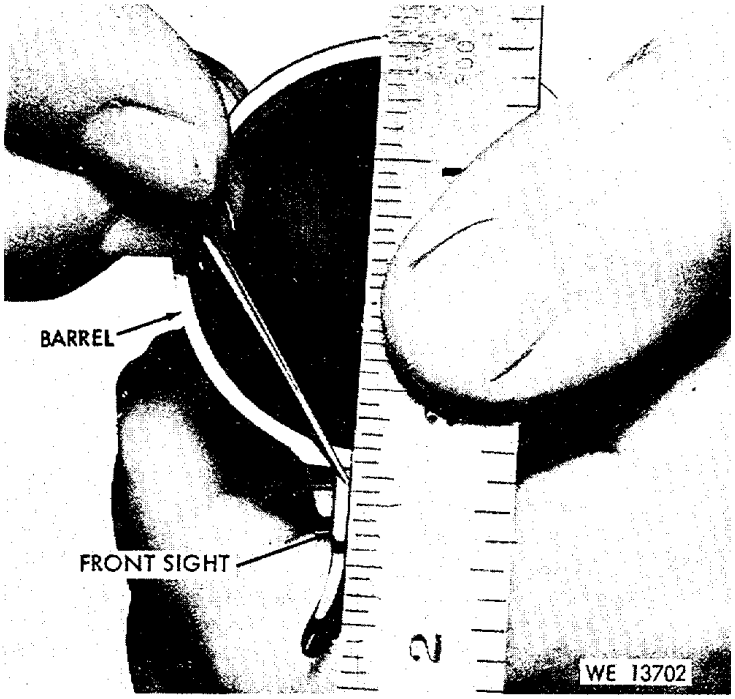
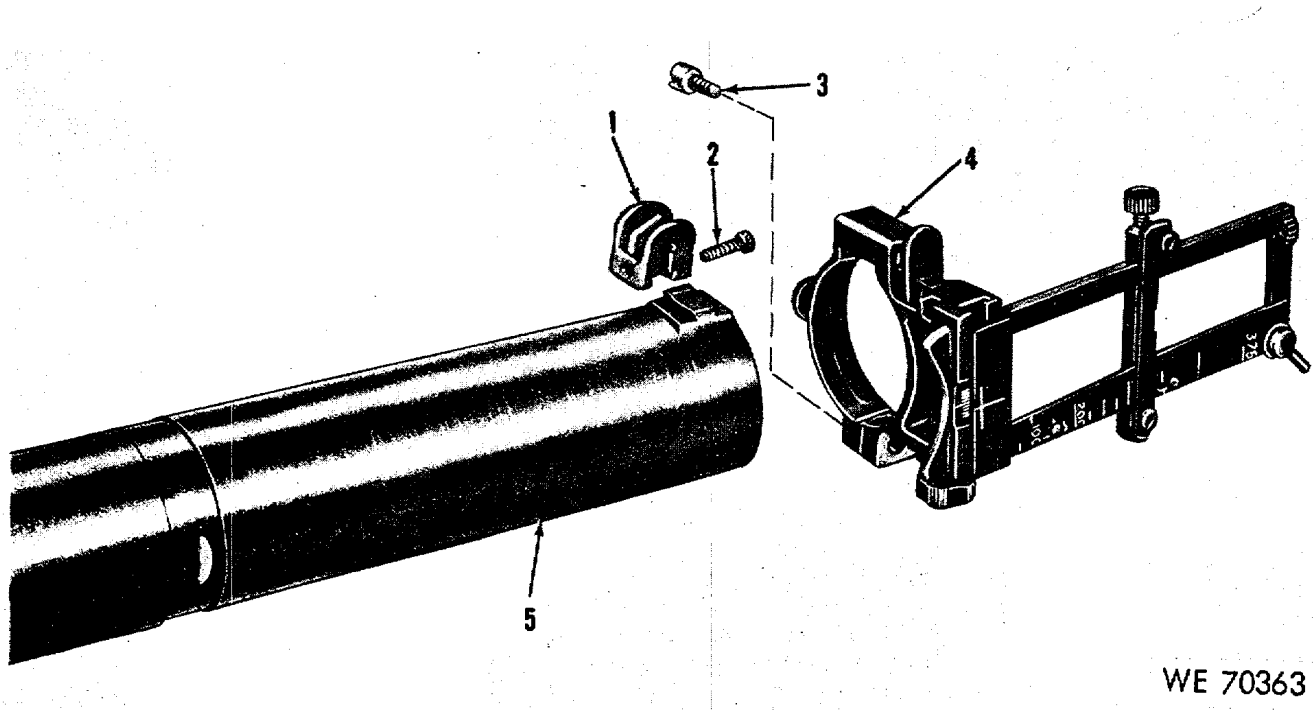


Figure 4-1. Scribing front sight and barrel.



1-Front sight
2-Screw
3-Screw
4-Rear sight assembly
5-Barrel

Figure 4-2. Removing or installing front sight and rear sight assemblies.

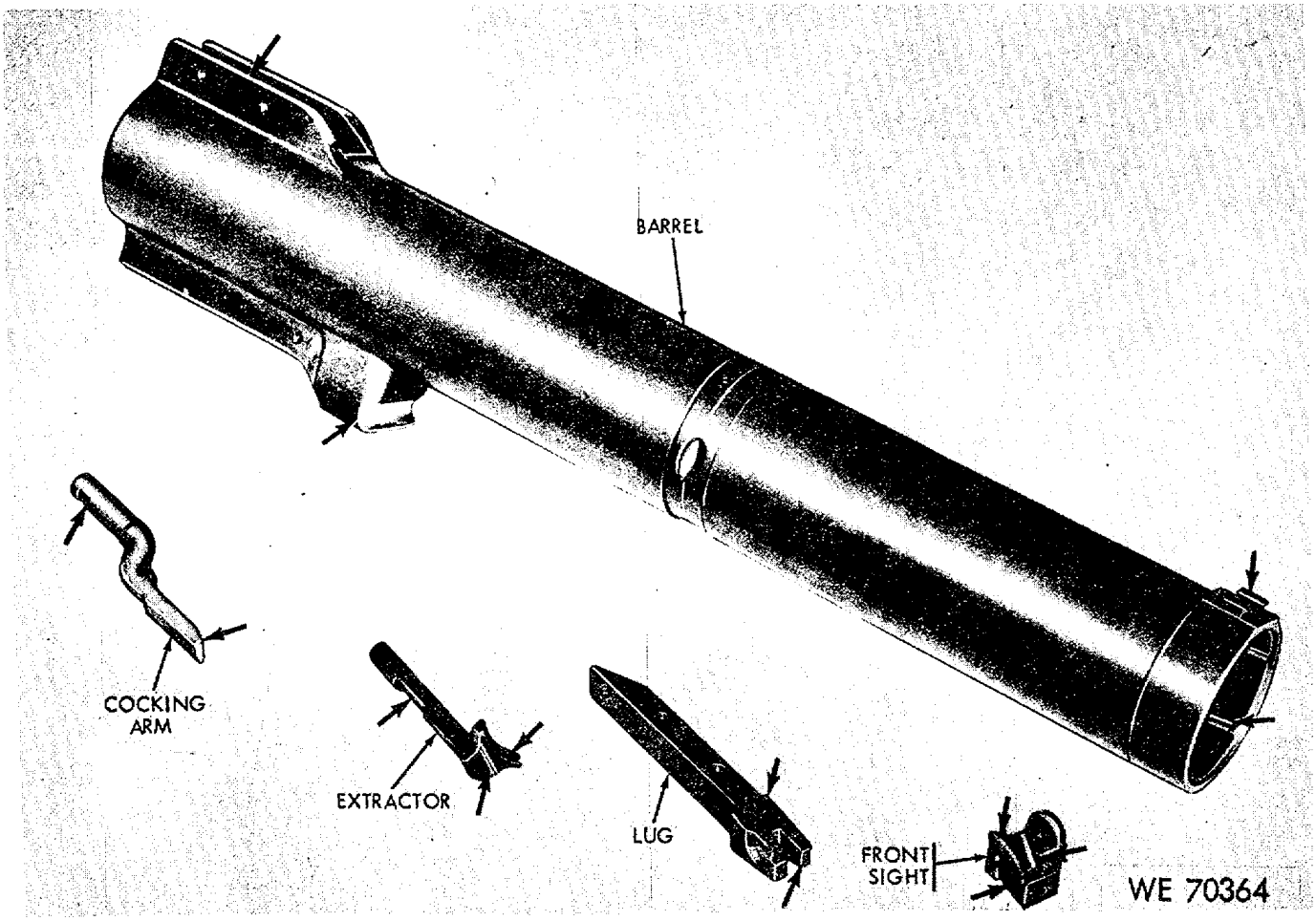
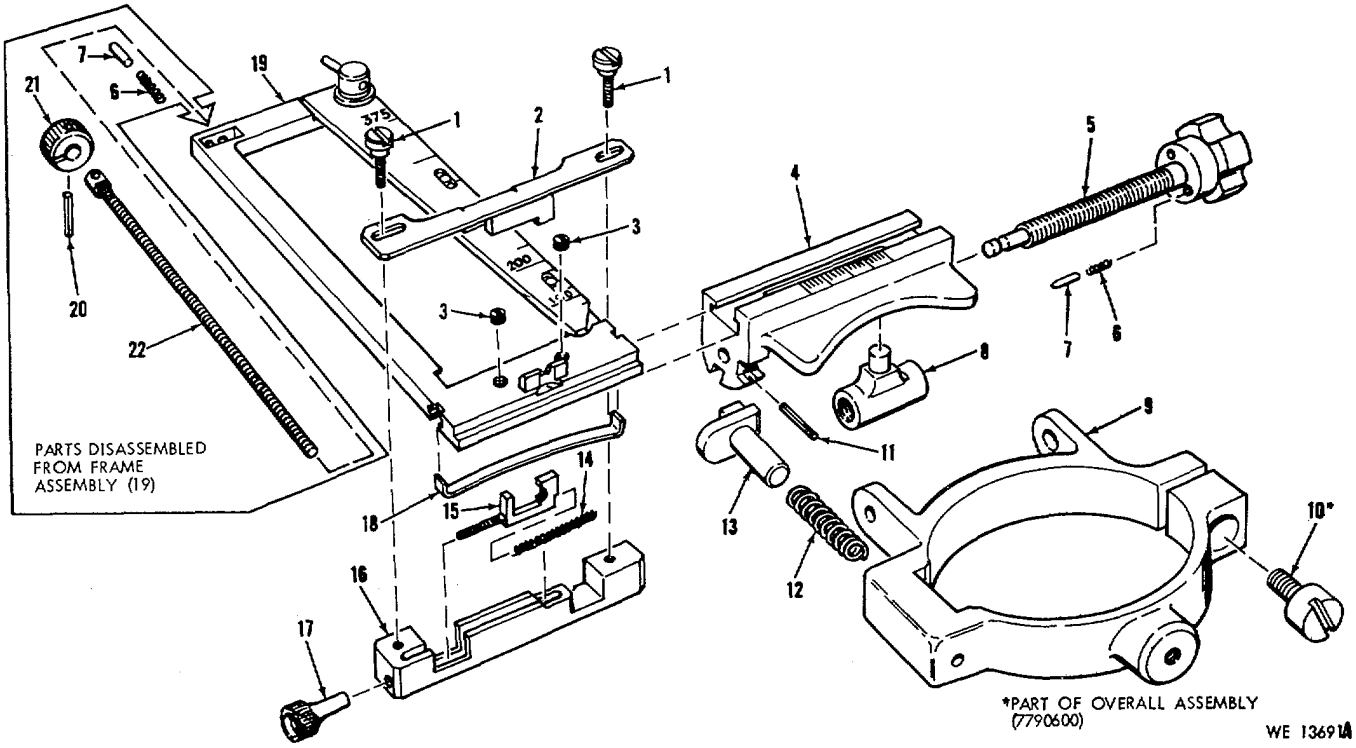


Figure 4-3. Inspection points of barrel group and front sight assembly.



1-Screw
2-Aperture
3-Setscrew
4-Frame base
5-Windage screw
6-Spring
7-Plunger
8-Key
9-Sight base
10-Screw
11-Pin
12-Spring
13-Sight lock
14-Spring
15-Retainer
16-Aperture carrier
17-Nut
18-Spring
19-Frame assembly
20-Pin
21-Wheel
22-Screw

Figure 4-4. Rear sight assembly-exploded view.

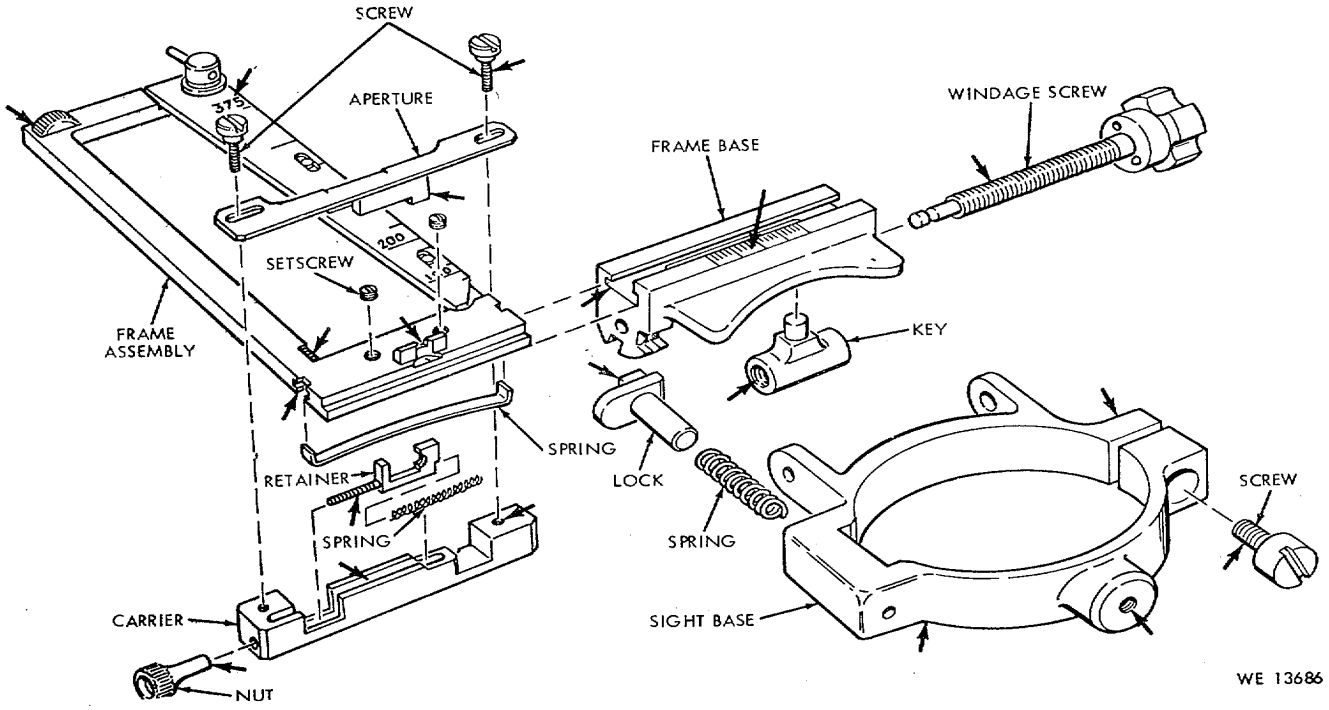


Figure 4-5. Inspection points of rear sight assembly.

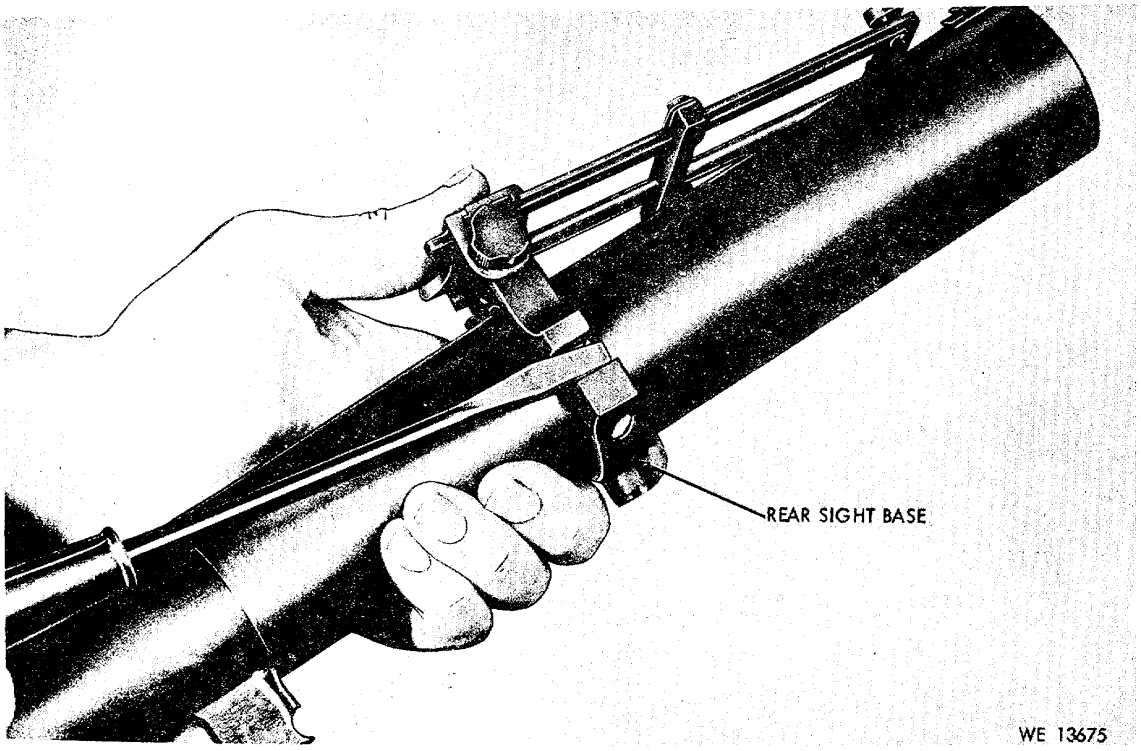
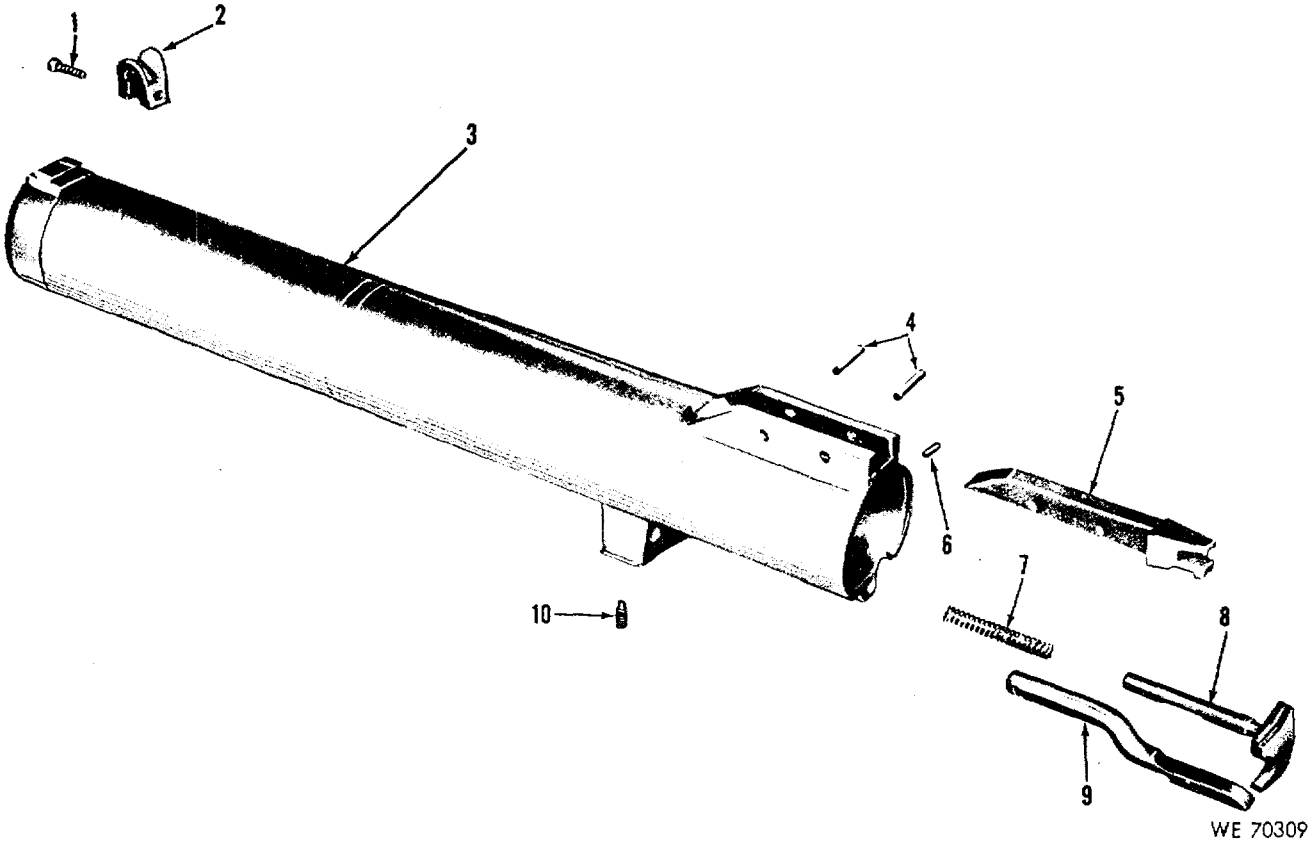


Figure 4-6. Expanding rear sight base to free it from groove in barrel.



1-Screw
2-Front sight
3-Barrel
4-Pin
5-Barrel locking lug
6-Pin
7-Spring
8-Extractor
9-Cocking arm
10-Setscrew

Figure 4-7. Barrel group and front sight-exploded view.

Table 4-4. Repair Instructions for Receiver Group

Removal/installation	Disassembly/assembly	Inspection and repair
Not applicable.	Disassembly (fig. 4-8) Prior to disassembly of receiver group, depress latch lock located in barrel locking lug groove on top of receiver, permitting barrel locking' latch to return to locked (firing) position (fig. 4-10). ***WARNING*** DO NOT dislodge gun safety actuator from slot in left side of receiver. Safety spring is under a load of approxi-mately 13.4 pounds When latch is in open position. When latch is in locked position, load on safety spring is approximately 2.5 pounds. At rear left side of receiver, grasp rear portion of spring (15) and force it forward. Keep a firm spring. Pull rear end actuator (14) from U-shaped notch in receiver (fig. 4-11). Remove spring from stem of safety actuator, and work front end of actuator down and off the eccentric lug on latch pivot (13). Located on underside of sloping rear top section of receiver and in line with forward end of safety spring (16) is a machined recessed area. Working from left side of receiver and with the aid of a 1 / 16-inch punch, remove safety spring (fig. 4-12). Turn receiver so that left side is downward, and tap, or jar, receiver until plunger (17) drops out of rear hole of groove which contained safety spring. Remove safety (18) by pulling it out of rectangular opening in rear top section of receiver. With aid of a 1/8-inch ,punch remove pin (19) which secures safety lock (20) to center rear section of receiver frame. Move lower section of safety lock forward, and work downward to remove it from receiver frame. Remove following components of receiver group: firing pin retainer (2), firing pin (4), and spring (3).	Check all parts for proper func-tioning. Inspect all parts for damage or wear. Refer to figure 4-9 for inspection points. Remove burrs and minor defor-mations. Replace damaged or worn parts' (breaks, deformations). Replace sear if upper front tip is rounded or damaged. Replace hammer if lower rear edge of sear notch is rounded or damaged. Turn in weapon for replacement if receiver is damaged or worn. Replace firing pin and spring if measurements do not meet the following limits: 1. Firing pin-Intrusion 0.000 min to 0.009 max-Protrusion 0.063 min grip on to 0.077 max (Measure from the of safety front base of firing pin retainer. Refer to items 2, 3, and 4, fig. 4-8) 2. Trigger (Measure pull rearward and parallel to bore of barrel. Refer to fig. 3-5 When using total weight of 7.5 pounds, trigger should not trip sear to fire weapon. When using a total weight of 10 pounds, weapon should fire.

Table 4-4. Repair Instructions for Receiver Group-Continued

Removal/installation	Disassembly/assembly	Inspection and repair
	With aid of a 1 / 8-inch punch, drive out pin (11) which extends through forward section of latch (12). Pull downward on latch pivot (13) to separate it and latch from receiver (35). Remove latch lock (9), extending upward adjacent to left side of barrel locking lug groove on top of receiver. as indicated in following sub-paragraphs: (1) Remove setscrew (7) from radius cut in upper left side of receiver at forward end of tapered rear section. Hold, or exert-'slight pressure upon, latch lock as screw is being removed. Remove latch lock. (2) Turn receiver so that bottom is uppermost. Tap, or jar, receiver until spring (8) drops from hole in barrel locking lug groove. Near the right edge of extreme top surface of receiver, remove pin (10) with aid of a 3/32-inch punch. Drive pin downward through hole. At lower right side of broad mid-section of receiver, use a 3/ 16-inch punch and remove pin (5) by driving it out left side of receiver. This releases and permits removal of hammer (26), two sleeve bushings (25), spring (24)., cocking lever (23), and spring (27). Remove screw (21) and trigger spring (22). Remove trigger (29) and sear (28) from lower rear section of receiver by tapping out pin (6). With receiver clamped in a vise (fig. 4-13), center a 1/ 8-inch punch within upset end of detent (30) in the middle of retainer (34). Apply sufficient pressure to the punch to compress spring (33) within retainer. With spring compressed, tap detent out of retainer. Remove spring from retainer. Separate trigger guard (32) from receiver (35) by removing screw (31). ***NOTE*** **Do not remove pin (1).** Assembly (fig. 4-8) Position trigger guard (32) on rear bottom surface of receiver (35). Align hole in bracket of trigger guard with threaded hole in receiver and secure with screw (31). Position detent (30) so that small pin in plunger of detent is located at the top. Insert detent into hole in forward end of trigger guard	

Table 4-4. Repair Instructions for Receiver Group-Continued

Removal/installation	Disassembly/assembly	Inspection and repair
	and out through front end of tang bracket) on receiver. Pivot trigger guard to either side of receiver. making sure small pin in detent engages with hole in trigger guard. Place rear end of detent on a solid surface. Slide spring (33) onto front end of detent, and insert large open end of retainer (34) over spring until it engages front end of receiver tang. Position retainer so that small end of detent protrudes from hole in retainer. Peen front end of detent to secure retainer to detent. Insert upright portion of rear end of trigger (29) into rear section of trigger slot in bottom of receiver. Position trigger so that hole in receiver is aligned with hole near front end of trigger. Work sear (28) down along right side of trigger until projecting part of rear of sear seats on top of trigger just forward of the upright portion. Align holes in receiver, sear, and trigger. Secure trigger and sear by tapping in pin (6). Align hole in widest end of trigger spring (22) with hole in bottom of receiver at left side of trigger slot. Position trigger spring so that convex surface is uppermost and narrow rear section ' extends diagonally across trigger slot and contacts rear top surface of sear. Secure trigger spring to receiver with screw (21). Insert pivot end of hammer (26), sear notch pointed to the rear, in opening between coils of spring (27). Hook long end of spring (24) into. small hole in long end of cocking lever (23). Bend excess portion of spring extending beyond left side of hammer. Insert sleeve bushing (25) into coil on left side of hammer, and work coil of cocking lever spring over coil of hammer spring. Position cocking lever to left side of hammer. Keep arm in front of lug on upper left side of hammer. Place sleeve bushing into spring coil on right side of hammer. Align holes in bushings, hammer, and cocking lever, and insert the improvised tool (fig. 3-1 and table 3-1) through the group (fig. 3-2 and table 3-1). *NOTE* Before group is installed in receiver, make sure short end of spring (24) rides on top of short end of spring (27).	

Table 4-4. Repair Instructions for Receiver Group-Continued

Removal/installation	Disassembly/assembly	Inspection and repair
	At rear side of receiver. insert long arm of cocking lever into lower section of receiver and pass it forward through rectangular opening. Work group down into lower recessed area at mid-section of receiver. Align improvised tool (fabricated pin) with holes in sides of receiver (fig. 3-3 and table 3-1). Secure group with pin (5). Drive pin from right-to-left. so that fabricated pin is driven out of the left side of the receiver. Stake pin in receiver to prevent loss. Drive pin (10) downward into hole near right edge of extreme top surface of receiver. Insert spring 181 into hole located within barrel locking lug groove on top of receiver. Into same hole. insert latch lock (9). with cham-fered end entering hole first and positioned so that slot in lock is aligned with threaded hole in tlpper left side of receiver at forward end of tapered rear section. Apply slight pressure to latch lock. and screw in setscrew ({7. making sure it enters slot in latch. Tighten latch lock screw securely. Cock hammer. With stem of latch pivot (13} uppermost, position it between hammer and top of receiver. Work stem of latch pivot up through hole in top of receiver frame. Keep sector-shaped front end of the latch (12) extended to the left. Engage hole in bottom of latch with stem of latch pivot. PivMt latch so that front end fully enters slot within barrel locking lug on top of receiver. Align hole extending through latch with hole in pivot, making sure eccentric lug on pivot is positioned to the left. Secure with pin (11). Insert thick rounded upper end of safety lock (20) into slot located at rear mid-section of receiver frame. Keep beveled lower end of safety lock facing forward. Align holes in receiver with hole in lock, and secure with pin (19). Stake pin lightly at both ends. Refer to table 2-4 for installation of the firing pin (41, spring (3), and retainer (2). With U-shaped opening in lower end of safety (181 inclined to the rear, insert safety into rectangular slot in rear top surface of receiver. Insert plunger (17) into rear hole within narrow machined groove extending along upper left side, near rear end of receiver. Rounded	

Table 4-4. Repair Instructions for Receiver Group--Continued

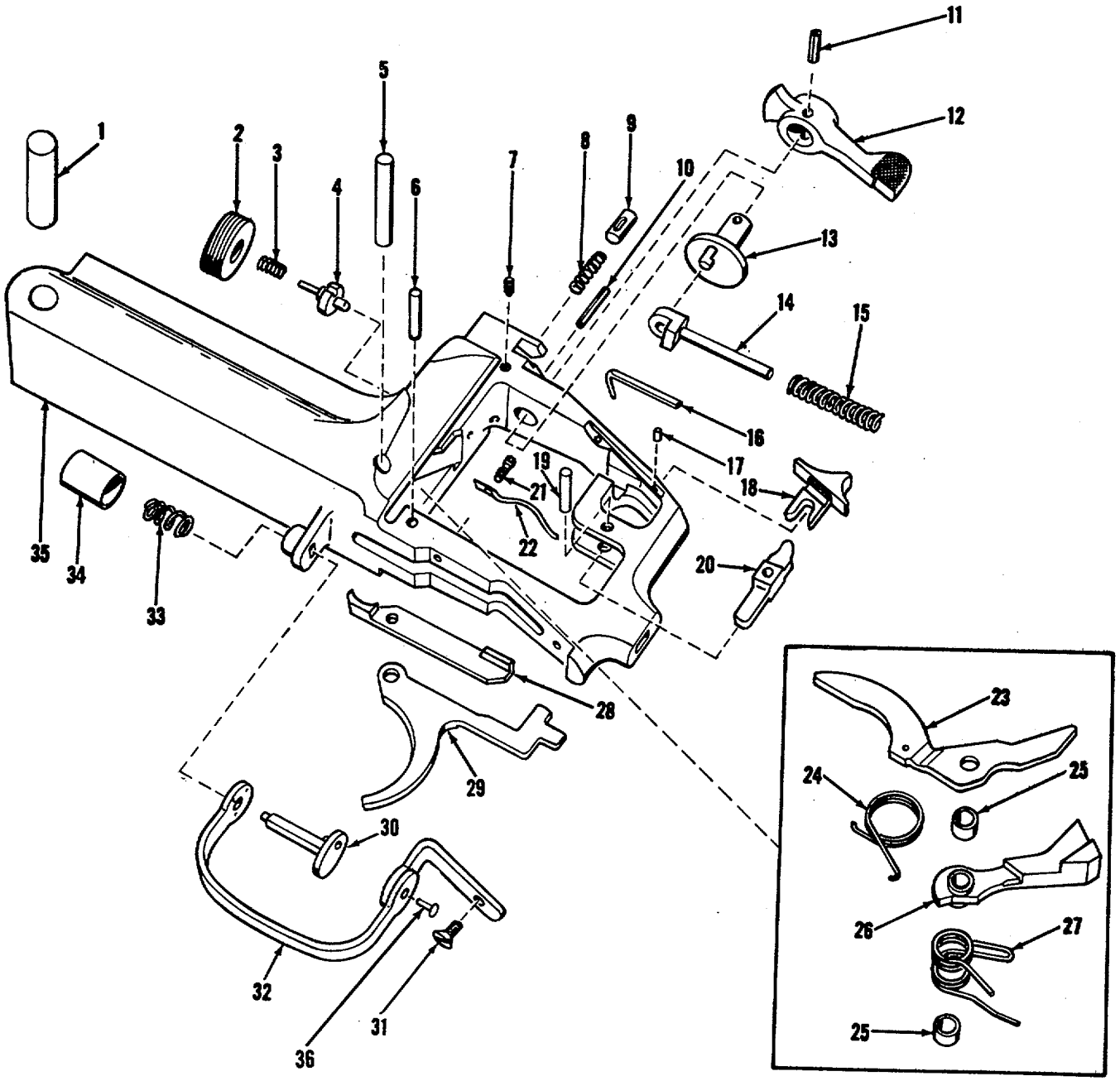
Removal/installation	Disassembly/assembly	Inspection and repair
	end of plunger is to enter hole first. In hole near opposite end of groove, insert short hook-like end of safety spring (16), with body of safety spring running parallel with groove. With aid of a punch, tap hook portion on forward end of safety spring into hole until flat surface is slightly below outer surface of receiver. Place safety in "safe" position. Slip spring (15) onto cylindrical stem of safety actuator (14). Position safety actuator with undercut portion at pivot end downward. Working at left side of receiver, engage hole in safety actuator with eccentric lug on latch pivot (13). Compress spring on stem of actuator and swing stem into U-shaped slot in frame of receiver. Release pressure on spring, allowing it to seat on forward side of U-shaped slot of the receiver frame.	

Table 4-5. Repair Instructions for Stock Assembly

Removal/installation	Disassembly/assembly	Inspection and repair
Removal *Fiberglass.* Loosen screw in bottom of stock using screwdriver and wrench combination. Separate stock assembly from receiver group. *NOTE* As the fiberglass stock has a helical insert, complete removal of screw from stock is not required in order to remove stock assembly from receiver group. The fiberglass stock is not affected by moisture and temperature; however, it is not indestructible and must be handled with care. *Wood.* Remove screw in bottom of stock by using screwdriver and wrench combination. Separate stock assembly from receiver group. Installation Installation is reverse procedure of removal.	Disassembly (fig. 4-14) Remove two screws (7), securing sling swivel assembly (8) to bottom of stock (4). From holes in upper and lower rear end of recoil pad (3), remove two plugs (1) and two screws (2) securing recoil pad to rear end of stock. Remove screw (5) and lock washer (6). Assembly (fig. 4-14) Position recoil pad (3) with plastic reinforced end adjacent to rear end of stock (4). Fit recoil pad to contour of stock. Insert screws (2) into holes near top and bottom of recoil pad, and firmly screw recoil pad to stock. Press plugs (1) into holes flush with recoil pad. Position plate of sling swivel assembly (8) into recessed area in bottom surface of stock near rear end. Align holes in plate with those in stock, and firmly attach plate to stock with screws (7). Install screw (5) and lock washer (6).	Inspect all parts for damage or wear. Refer to figure 4-15 for inspection points of the parts. Replace worn or damaged parts. Replace recoil pad if torn, damaged or not resilient. Replace missing, worn or damaged screws. Replace stock assembly, if stock is worn or damaged. Refer to TM 9-1005-301-30 for fiberglass stock repair.

Table 4-6. Repair Instructions for Fore End Assembly

Removal/installation	Disassembly/assembly	Inspection and repair
Removal Remove screw which passes through rear mounting of front sling swivel, by using screwdriver and wrench combination. Pull fore end assembly away from barrel. Installation Installation is reverse procedure of removal.	Disassembly (fig. 4-16) Remove screw 151 from forward mounting hole in front sling swivel assembly (41. Separate sling swivel assembly from fore end (31. Remove screw ll} from rear top center section of fore end bracket (2). Separate fore end bracket from fore end. Assembly (fig. 4-16) With countersunk end of hole in large end of fore end bracket (2) up-permost. fit narrow portion of fore end bracket into groove within concave top surface of fore end (31. Insert screw 11) into countersunk hole of fore end bracket, and firmly screw parts together. ***CAUTION*** **To prevent stripping of screw threads in fore end, tighten screw only enough to firmly hold parts together.** Position sling swivel assembly (41 on fore end (31. Install screw t5) in forward mounting hole in front sling swivel assembly.	Inspect all parts for damage or wear. Refer to figure 4-15 for inspection points of the parts. Replace worn or damaged parts. Replace missing, worn or damaged screws. Replace fore end bracket if damaged or worn. Replace sling swivel assembly if broken or damaged.



1—Pin
2—Retainer
3—Spring
4—Firing pin
5—Pin
6—Pin
7—Setscrew
8—Spring
9—Latch lock
10—Pin
11—Pin
12—Latch
13—Latch pivot
14—Safety actuator
15—Spring
16—Safety spring
17—Plunger
18—Safety
19—Pin
20—Safety lock
21—Screw
22—Trigger spring
23—Cocking lever
24—Spring
25—Sleeve bushing
26—Hammer
27—Spring
28—Sear
29—Trigger
30—Detent
31—Screw
32—Trigger guard
33—Spring
34—Retainer
35—Receiver
36—Solid rivet

Figure 4-8. Receiver group-exploded view.

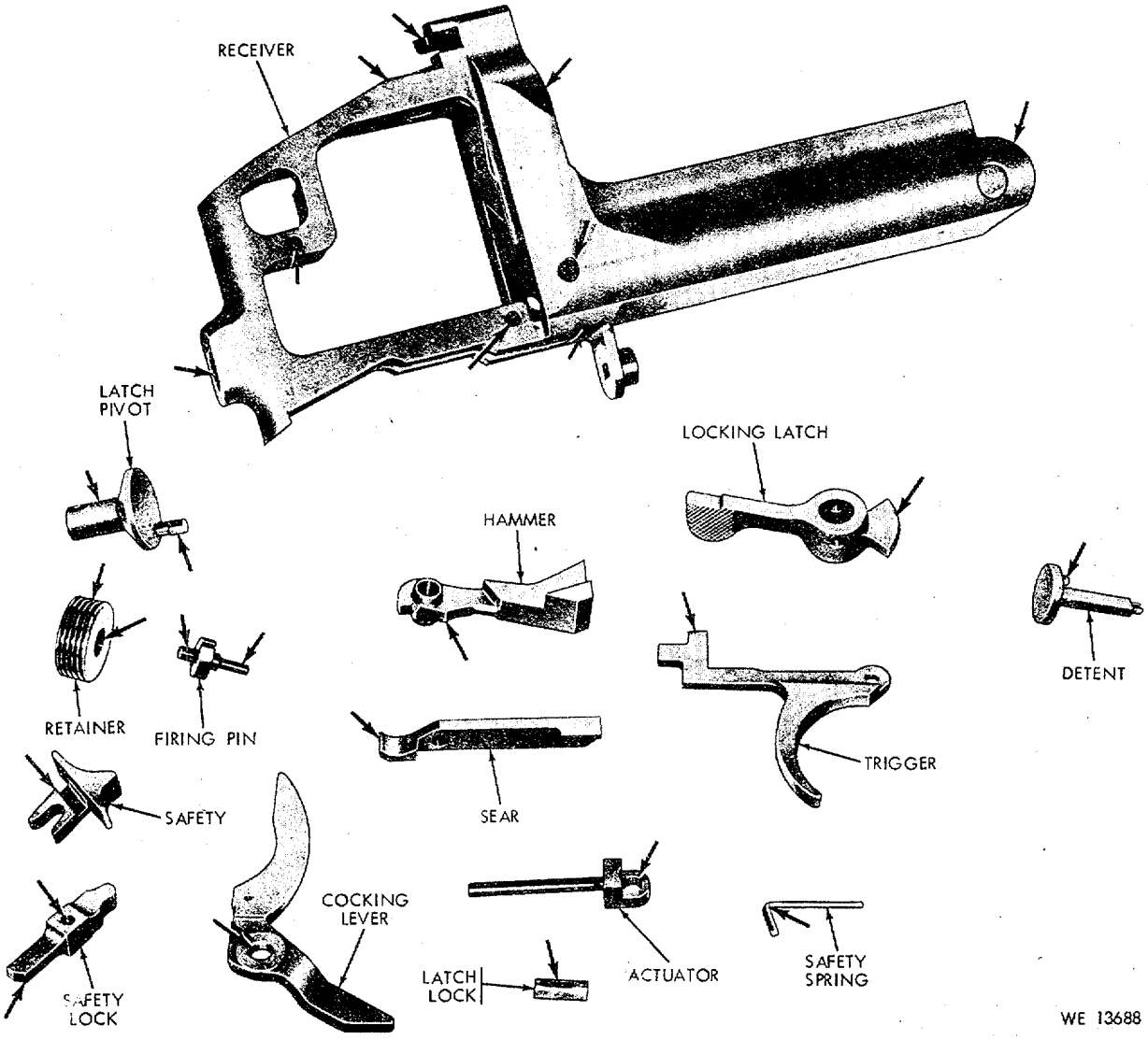


Figure 4-9. Inspection points of receiver group.

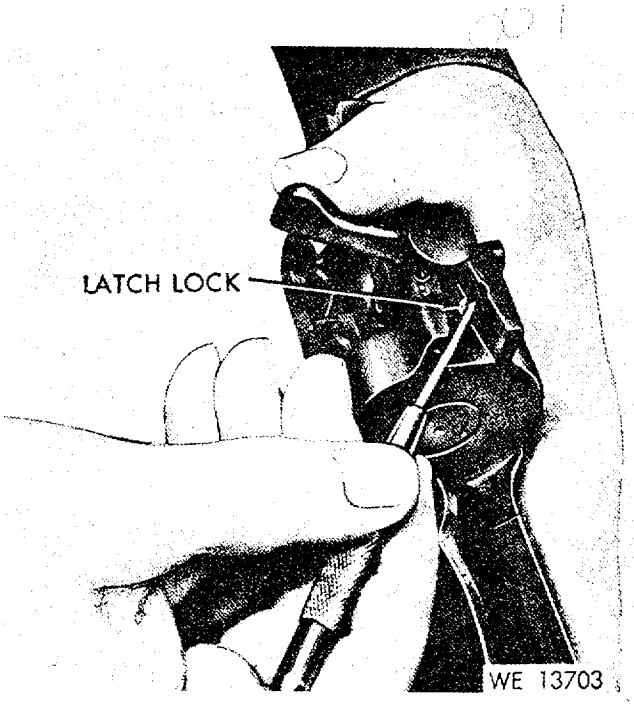


Figure 4-10. Depressing latch lock to return barrel locking latch to firing position.

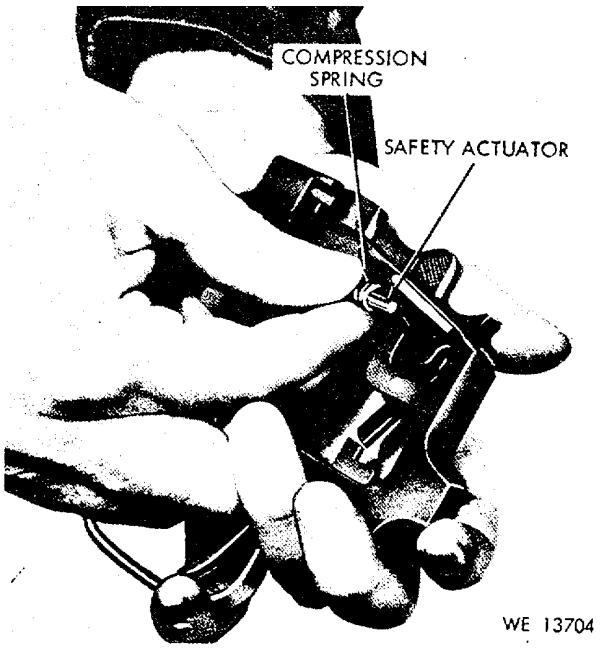


Figure 4-11. Removing or installing safety actuator and spring.

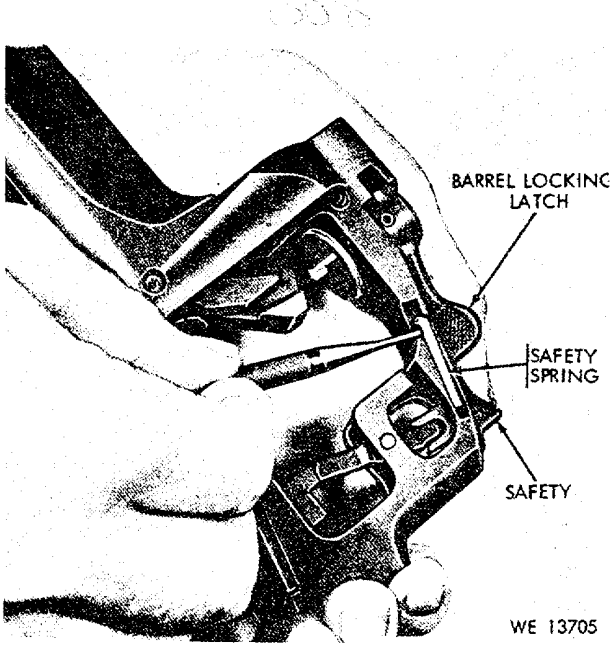


Figure 4-12. Removing safety spring.

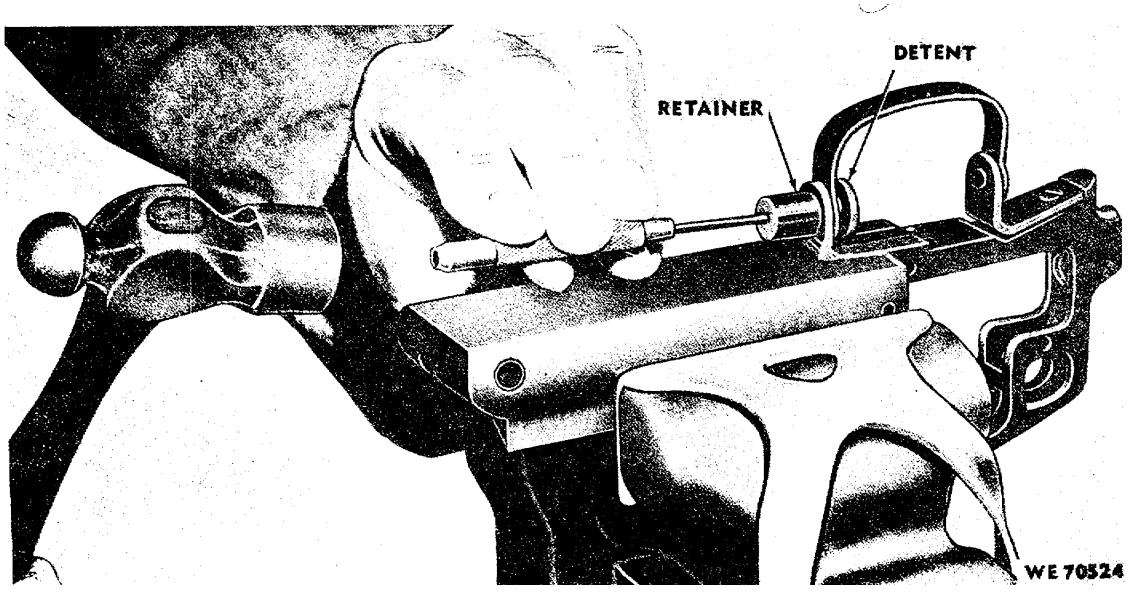
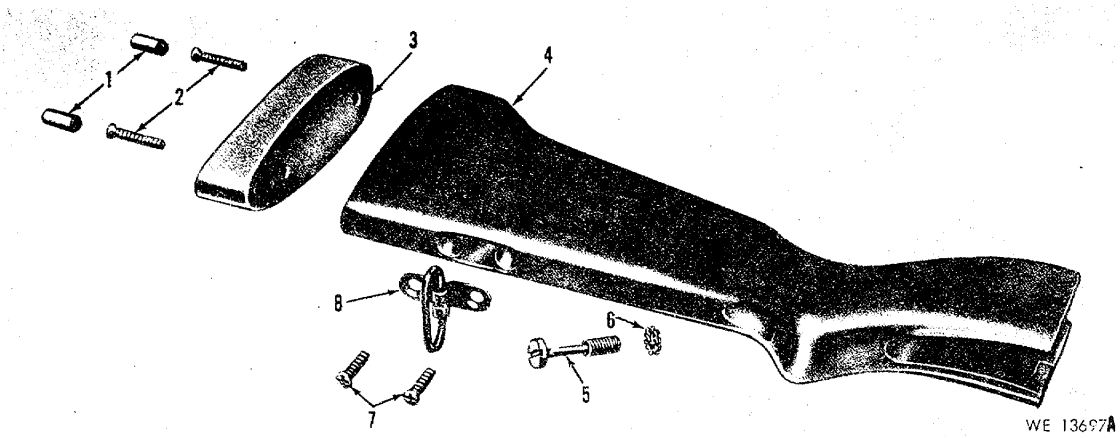


Figure 4-13. Using punch to separate detent from retainer.



1-Plug
2-Screw
3-Recoil pad
4Stock
5-Screw
6-Lock washer
7-Screw
8-Sling swivel assembly

Figure 4-14. Stock assembly-exploded view.

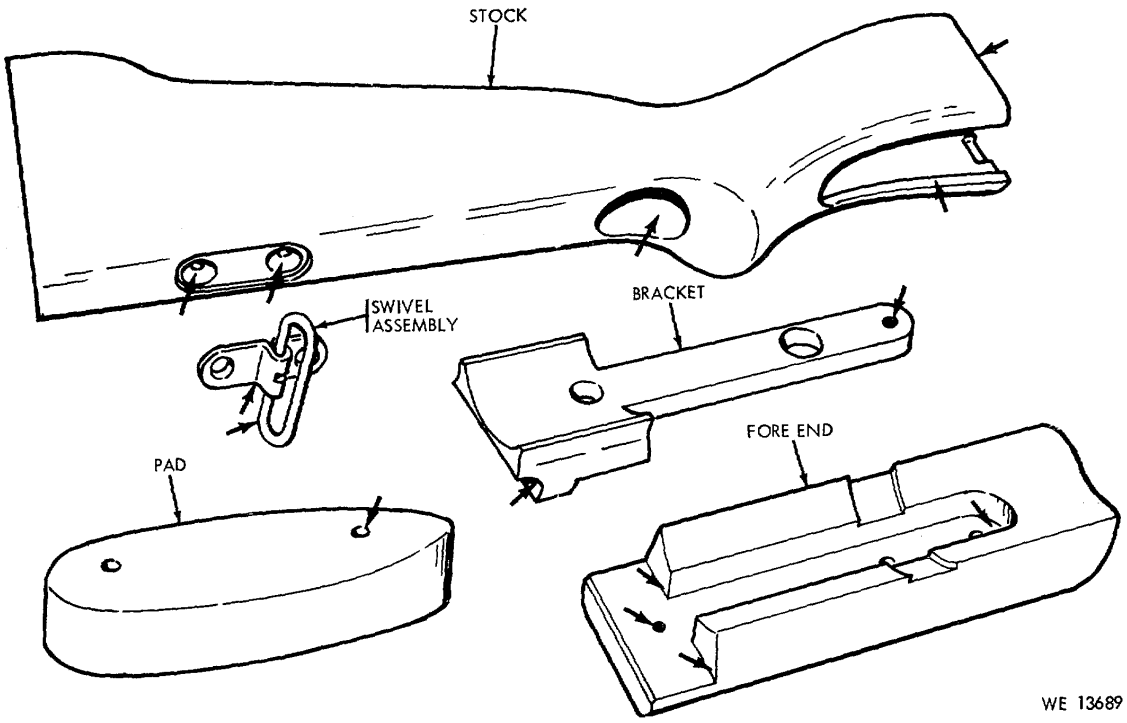
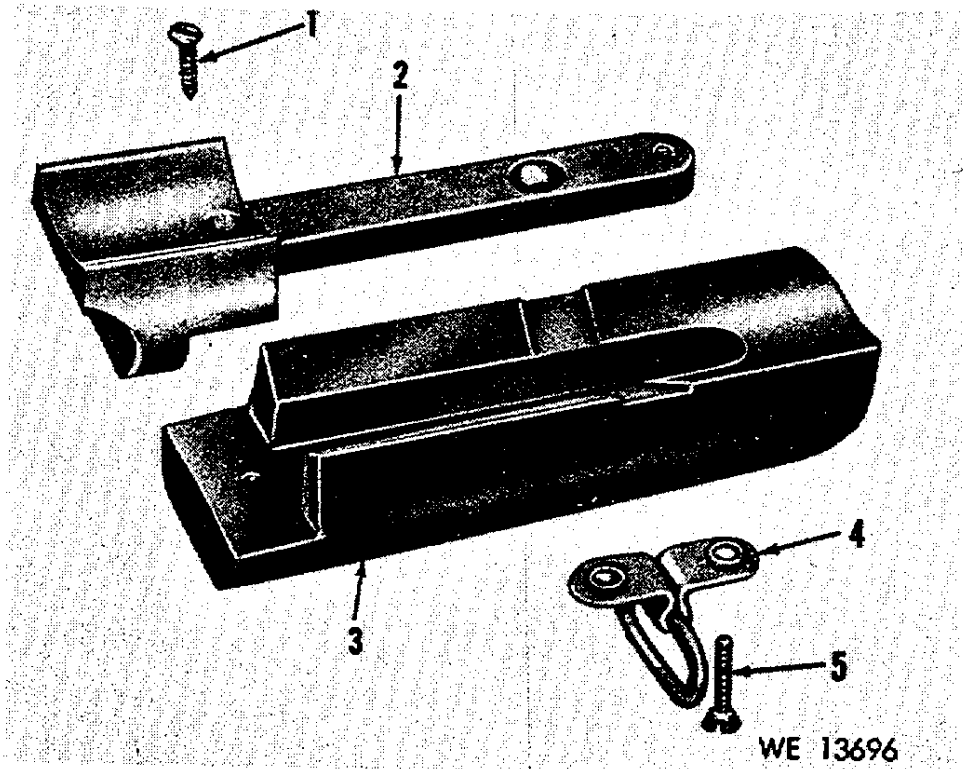


Figure 4-15. Inspection points of stock and fore end assemblies.



1-Screw
2-Fore end bracket
3-Fore end
4-Sling swivel assembly
5-Screw

Figure 4-16. Fore end assembly-exploded view.

CHAPTER 5

FINAL INSPECTION

5-1. General

After repair of the launcher. an overall inspection will be performed to verify that the 40-MM grenade launcher M79 has been restored to a completely serviceable condition and may be returned to direct support and general support maintenance level stock or to the user.

A statement will be issued certifying that the weapon is in a completely serviceable condition according to the standards established in this chapter.

5-2. Inspection Procedures

Refer to table 5-1.

Table 5-1. Final Inspection

Component or assembly	Point or item of inspection	Method of inspection	Acceptable condition	Reference
140-MM grenade launcher M79		Check general condition, external appearance, and functioning.	General condition satisfactory, external appearance good, and weapon functions properly.	
		Check sights for looseness on weapon and shining surfaces.	Sights should be secure on weapon and have a dull finish.	
Barrel group	Bore	Measure wear of lands; visually check for pits, dirt, erosion, bulges, and dents.	Lands must not be worn smooth beyond 3.9 inches.	Table 4-3
	Cocking arm.	Push rearward on front end of cocking arm.	Rear end of cocking arm should rotate toward center of barrel.	
	Extractor	Push forward on extractor.	Spring action should be strong. Extractor seats properly within breech end of barrel.	
Front sigh,	Dovetail slot threads	Check for bright or shining surfaces	Fit is secure. Threads are free of deformations or damage. Metal surfaces have a dull, rust-resistant finish.	Table 4-1
Rear sight assembly	Sight lock	Depress sight lock and rotate frame assembly and frame base between locking positions.	Sight lock should be secured to barrel; all components should fit securely and locking parts should function properly. Compression helical spring tension should be strong.	Table 4-2
	Frame assembly	Visual	Graduations and figures should be clear and legible.	
	Frame base	Visual	Graduations should be clear and legible. Threads should be free of wear or damage.	
	Windage screw	Rotate in windage screw key.	Windage screw should turn freely; threads should be free of wear or damage.	
	Sight base	Visual	Threads should be free of wear or defects.	
Receiver group	Safety	Move safety to rear.	Safety lock should block the trigger to prevent firing.	Table 4-4
		Move safety forward.	Safety lock should clear the trigger to permit firing.	
	Latch lock and compression helical spring	Pivot locking latch fully to the right.	Latch lock should rise to block locking latch from returning to the close position.	
		Hold locking latch in open position, and work latch lock up and down.	Spring action should be firm and smooth.	
	Safety actuator and compression helical spring	With locking latch in open position, observe movement of safety actuator and safety.	Safety actuator should move safety into safe position.	
		Depress latch lock and check spring action.	Spring action should be strong in returning locking latch to closed position.	
	Hammer and torsion helical spring	Cock the hammer.	A firm and steadily increasing pressure should be felt against the hammer as it is being cocked. When the trigger is pulled, an audible ring should be heard as hammer strikes the firing pin and receiver frame.	
	Cocking lever and torsion helical spring	Pull up on front portion of cocking lever until hammer is cocked. When cocking lever is released, observe action of the torsion helical spring in returning cocking lever to uncocked position.	Action of torsion helical spring, when lever is released, should be strong. ,	

Table 5-1. Final Inspection-Continued

Component or assembly	Point or item of inspection	Method of inspection	Acceptable condition	Reference
	Firing pin and compression helical spring	Cock hammer and apply pressure to rear end of firing pin. When rear end of pin is flush with receiver frame, release pin.	Pin should snap back into rearward position with a strong smooth action.	
	Trigger guard assembly	Test trigger guard in each of its three positions.	Pin of trigger guard assembly detent should fully engage in holes of trigger guard. A strong pressure should be required to move detent rearward against compression helical spring. With spring depressed, the guard should revolve easily through its 204 degrees of travel.	
	Trigger	Check trigger pull with trigger pull measuring fixture. Hook fixture onto trigger, keeping it parallel with longitudinal axis of barrel and hanging free. Use trigger pull measuring fixture 4933-647-3696 (Component of tool set, direct and general support maintenance, basic small arms, FSN 4933-775-0366, SC 4933-95-CL-E04). (Refer to fig. 3-1)	When using a total weight of 7.5 pounds, the trigger should not trip the sear to fire weapon. When using a total weight of 10 pounds, the weapon should fire.	
Stock and fore end assemblies	Recoil pad	Check recoil pad for resiliency, tears, or damage.	Recoil pad should be live and free of tears or damage.	Tables 4-5 and 4-6
		Check attachment of recoil pad to stock.	Recoil pad should be secured to stock.	
	Fore end assembly	Check attachment of fore end to fore end bracket.	Fore end secured to fore end bracket.	
	Fore end	Check fore end for chips, splinters, or cracks.	Fore end free of chips, splinters, or cracks.	
	Shoulder stock	Check stock for attachment to receiver and Damage.	Stock secured to receiver and free of damage.	
	Web sling	Visual	Web sling should be free of chafing or rotting.	
			Web sling should be secured to swivel.	
	Swivels	Check attachment to stock and fore end.	Swivels should be secured to fore end and stock.	

CHAPTER 6

ADMINISTRATIVE STORAGE

Refer to TM 740-90-1, Administrative Storage of Equipment.

APPENDIX A

REFERENCES

A-1. Publication Indexes

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

Index of Administrative Publications	DA Pam 310-1
Index of Army Motion Pictures and Related Audio-Visual Aids	DA Pam 108-1
Index of Blank Forms	DA Pam 310-2
Index of Doctrinal. Training. and Organizational Publications	DA Pam 310-3
Index of Supply Catalogs and Supply Manuals (excluding types 7. 8, and 9 D	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
U. S. Army Equipment Index of Modification Work Orders	DA Pam 310-7

A-2. Forms

Recommended Changes to Publications	DA Form 2028

A-3. Other Publications

The following explanatory publications pertain to this material.

Accident Reporting and Records	AR 385-40
Administrative Storage of Equipment	TM 740-90-1
Ammunition, General	TM 9-1300-200
Authorized Abbreviations and Brevity Codes	AR 310-50
Care, Handling, Preservation, and Destruction of Ammunition	TM 9-1300-206
Centralized Inventory Management of the Army Supply System	AR 710-1
Classification, reclassification, maintenance, issuance and reporting of maintenance training aircraft	AR 700-42
Control of COMSEC Materiel	AR 380-41
Dictionary of United States Army Terms	AR 310-25
DS Maintenance Manual: Repair of wooden, fiber, glass /plastic or plastic components of small arms weapons	TM 9-1005-301-30
Federal Supply Code for Manufacturers-United States and Canada-name to code (Cataloging Handbook H 4-1)	SB 708-41
Federal Supply Code for Manufacturers-United States and Canada-code to name (Cataloging Handbook H4-2)	SB 708-42
Malfunctions Involving Ammunition and Explosives	AR 75-1
Materiel Management for Using Units, Support Units and Installations	AR 710-2
Military Symbols	FM 21-30
Operator’s Manual for 40-MM grenade launcher M79	TM 9-1010-205-10
Procedures for Destruction of Equipment in Federal Supply Classifications 1000, 1005, 1010, 1015, 1020, 1025, 1030, 1055, 1090, and 1095, to Prevent Enemy Use	TM 750-244-7
Provisioning of U. S. Army Equipment	AR700-18
The Army Maintenance Management System (TAMMS)	TM 38-750

APPENDIX B

MAINTENANCE ALLOCATION CHART

Section I. INTRODUCTION

B-1. General

This appendix contains the maintenance allocation chart (MAC) which describes, for all levels of maintenance, the lowest available maintenance category authorized to perform each operation (column 3). The basic entries on the chart are a list of functional groups applicable to the end item which may require maintenance parts. The term functional group applies to assemblies and subassemblies but not to piece parts.

B-2. Maintenance Functions

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

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

b. Align. To adjust specified variable elements of an item to bring about optimum or desired performance.

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

d. Inspect. To determine the serviceability of an item by comparing its physical, mechanical, and / or electrical characteristics with established standards through examination.

e. Install. The act of emplacing, seating, or fixing into position an item, part, or module (component or assembly), in a manner to allow the proper functioning of the equipment or system.

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

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

h. Repair. The application of maintenance services (inspect, test, service, adjust, align, calibrate or replace) or other maintenance actions (welding, grinding, riveting, straightening, facing remachining, or resur-facing) to restore serviceability to an item by correcting specific damage, fault. malfunction, or failure in a part, subassembly, module (component or assembly), end item, or system.

i. Replace. The act of substituting a serviceable like-type part, subassembly, or module (component or assembly), for an unserviceable counterpart.

j. Service. Operations required periodically to keep an item in proper operating condition, i.e., to clean, to preserve, to drain, to paint, or to replenish fuel, lubricants, hydraulic fluids, or compressed air supplies.

k. Test. To verify serviceability and to detect incipient failure by measuring the mechanical or electrical characteristics of an item and comparing those characteristics with prescribed standards.

l. Symbols. The uppercase letter placed in the appropriate column indicates the lowest level at which that particular maintenance function is to be performed.

B-3. Explanation of Format

a. Column 1, Group Number: Lists group numbers, the purpose of which is to identify components, assemblies, subassemblies, and modules with the next higher assembly.

b. Column 2, Functional Group: Lists the next higher assembly group and the noun names of components, assemblies, subassemblies, and modules within the group for which maintenance is authorized.

c. Column 3, Maintenance Function: Lists the various maintenance functions defined in B-2 preceding. Each maintenance function required for an item is specified by the symbol among those listed in *d* following which indicates the level

responsible for the required maintenance. Under this symbol is listed an appropriate work measurement time value determined as indicated in *e* following.

d. Use of Symbols.The symbols used to prescribe work function responsibility are:

C.....Operator / crew
O.....Organizational
F .....Direct support
H.....General support
D.....Depot

e. Work Measurement Time. The active repair time required to perform the maintenance function is included directly below the symbol identifying the category of maintenance. The manpower figures are developed under conditions (real or simulated) corresponding to those that are considered normal for TOE units operating in the field. The skill levels used to obtain the measurement time are approximately those found in typical TOE units. Active repair time is the average aggregate time required to restore an item (subassembly, assembly, component, module, end item or system) to a serviceable condition under typical field operating conditions. This time includes preparation time, fault isolation / diagnostic time, and QA / QC time in addition to the time required to perform specific maintenance functions identified for the tasks authorized in the maintenance allocation chart. This time is the established time standard derived from the calculation of a statistically weighted time estimate, incorporating the optimistic (a), most likely (m), and pessimistic (b) estimate for the work to be accomplished, using the formula

$$\frac{t = a + 4m + b}{6}$$

This time is expressed in man-hours and carried to one decimal place (tenths of hours).

f. Column 4, Tools and Equipment.This column is used to specify, by code, those tools and test equipment required to perform the designated function.

g. Column 5, Remarks. Self-explanatory.

NOTE

Columns not utilized in this maintenance allocation chart are considered not applicable to this weapon.

Section II. MAINTENANCE ALLOCATION CHART FOR 40-MM GRENADE LAUNCHER M79

(1) GROUP NUMBER	(2) FUNCTIONAL GROUP	(3) MAINTENANCE FUNCTIONS											(4) TOOLS AND EQUIPMENT	(5) REMARKS
		INSPECT	TEST	SERVICE	ADJUST	ALIGN	CALIBRATE	INSTALL	REPLACE	REPAIR	OVERHAUL	REBUILD		
	BARREL GROUP	C 0.1	..	C 0.1	..	..	..	..	F 0.2	F 0.3	H 0.4	..		
	FORE END ASSEMBLY	C 0.1	..	C 0.1	..	..	..	..	F 0.1	0 0.2	H 0.3	..		
	TRIGGER GUARD ASSEMBLY	C 0.1	..	C 0.1	..	..	..	..	F 0.1	F 0.2	H 0.8	..		
	RECEIVER GROUP	C 0.2	..	C 0.2	..	..	..	..	F 0.3	O 0.4	H 1.0	..		
	SIGHT ASSEMBLY	C 0.1	.. ..	C 0.2	..	..	..	..	F 0.2	F 0.3	H 1.0	..		
	STOCK ASSEMBLY	C 0.1	..	C 0.1	..	..	..	..	F 0.2	F 0.7	H 1.0	..		

APPENDIX C

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

Section I. INTRODUCTION

C-1. Scope

This manual lists repair parts and special tools required for the performance of organizational, direct support, general support and depot maintenance of the 40-MM grenade launcher M79.

C-2. General

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

a. Repair Parts List-Section II. A list of repair parts authorized at the organizational level for the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups with parts in each group listed in figure and item number sequence.

b. Special Tools List-Section III. A list of special tools, test and support equipment authorized for the performance of maintenance at the organizational level.

c. Repair Parts List-Section IV. A list of repair parts authorized at the direct support, general support, and depot levels for the performance of maintenance. The list also includes parts which must be removed for the replacement of the authorized parts. Parts lists are composed of functional groups with parts in each group listed in figure and item number sequence.

d. Special Tools List-Section V. A list of special tools, test and support equipment authorized for the performance of maintenance at the direct support, general support, and depot levels.

e. Federal Stock Number and Reference Number Index-Section VI. A list, in ascending numerical sequence, of all Federal stock numbers appearing in the listings, followed by a list, in alphameric sequence, of all reference numbers appearing in the listings. Federal stock numbers and reference numbers are cross-referenced to each illustration figure and item number appearance.

C-3. Explanation of Columns

The following provides an explanation of columns found in the tabular listings.

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

(1) *Source code.* Indicates the source for the listed items. Source codes are:

Code	*Explanation*
P	Repair parts, special tools, and test equipment supplied from the GSA/DSA, or Army supply system. and authorized for use at indicated maintenance categories.
P2	Repair parts, special tools, and test equipment 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.
P9	Assigned to items which are NSA design controlled: unique repair parts, special tools, test, measuring and diagnostic equipment, which are stocked and supplied by the Army COMSEC Logistic System and which are not subject to the provisions of AR 380-41.
P10	Assigned to items which are NSA design controlled: special tools, test, measuring and diagnostic equipment for COMSEC support which are accountable under the provisions of AR 380-41, and which are stocked and supplied by the Army COMSEC Logistic System.
M	Repair parts, special tools and test equipment which are not procured or stocked as such in the supply system but are to be manufactured at 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 stock numbers and descriptions, are procured and stocked separately, and can be assembled to form the required assembly at indicated maintenance categories.
X	Parts and assemblies that are not procured or stocked because the failure rate 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.
X1	Repair parts which are not procured or stocked. The requirement for such items will be filled by the next higher assembly or component.
X2	Repair parts, special tools and test equipment which are not stocked and have no foreseen mortality. The indicated maintenance category requiring such repair parts will attempt to obtain the parts through cannibalization or salvage. The item may be requisitioned, with exception data, from the end item manager for immediate use.

Code *Explanation*

G.....Major assemblies that are procured with PEMA funds for initial issue only as exchange assemblies at l)S and GS level. These assemblies will not be stocked above DS and GS level or returned to depot supple level.

NOTE

Cannibalization or salvage may be used as a source of supply for any items source coded above except those coded X 1 and aircraft support items as restricted by AR 700-42.

(2) Maintenance code. Indicates the lowest category of maintenance authorized to install the repair part and / or use the special tool or test equipment for each application. Capabilities of higher maintenance categories are considered equal or better. Maintenance codes are:

Code *Explanation*

C.....Crew / operator
O.....Organizational maintenance
F.....Direct support maintenance
H.....General support maintenance
D.....Depot maintenance

(3) Recoverability code. Indicates whether unserviceable items should be returned for recovery or salvage. Items not coded are nonrecoverable. Recoverability codes are:

Code *Explanation*

R.....Repair parts (assemblies and components). special tools and test equipment which are considered economically reparable at direct and general support maintenance levels. When the item is no longer economically reparable. it is normally disposed of at the GS level. When supply considerations dictate. some of these repair parts may be listed for automatic return to supply for depot level repair as set forth in AR 710-50. When so listed, they will be replaced by supply on an exchange basis.

S.....Repair parts, special tools and test equipment, and assemblies which are economically reparable at DS and GS activities and which normally are furnished by supply on an exchange basis. When items are determined by a GSU to be uneconomically reparable, they will be evacuated to a depot for evaluation and analysis before final disposition.

T High dollar value recoverable repair parts, special tools and test equipment which are subject to special handling and are issued on an exchange basis. Such items will be repaired or overhauled at depot maintenance activities only. No repair may be accomplished at lower levels.

U.....Repair parts, special tools and test equipment specifically selected for salvage by reclamation units because of precious metal content, critical materials. high dollar value, or reusable casings or castings.

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 a minimum description required to identify the item. The last line indicates the reference number followed by the applicable Federal Supply Code for Manufacturer (FSCM) in parentheses. The FSCM is used as an element in item identification to designate manufacturer or distributor or Government agency, etc., and is identified in SB 708-42. The physical security classification of the item is indicated by the parenthetical entry (C). Items that are included in kits and sets are listed below the name of the kit or set with quantity of each item in the kit or set indicated in front of the item name.

d. Unit of Measure (U/M). Indicates the standard or basic quantity by which the listed item is used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation, e.g., ea, in., pr, etc.. and is the basis used to indicate quantities and allowances in subsequent columns. When the unit of measure differs from the unit of issue, the lowest unit of issue that will satisfy the required units of measure will be requisitioned.

e. Quantity Incorporated in Unit. Indicates the quantity of the item used in the breakout shown on the illustration figure. which is prepared for a functional group, subfunctional group, or an assembly. A "V" appearing in this column in lieu of a quantity indicates that no specific quantity is applicable, e.g., shims, spacers, etc.

f. 15-Day Organizational Maintenance Allowances.

(1) The allowance columns are divided into four subcolumns. Indicated in each subcolumn is the total quantity of items authorized for the number of equipments supported. Subsequent appearances have the letters "REF" in the allowance columns, indicating that the total allowance quantities are shown with the first appearance of the item where shown as a supply item. 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 represent 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 main- tenance 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; indicating 16.80 rounded off to 17 parts required.

(4) Subsequent changes to allowance lists will be accomplished in accordance with AR 735-35. In addition, the major commands will be authorized to approve reductions in stockage allowances (range and quantity). If additional items are considered necessary, recommendation should be forwarded to Commanding General, Headquarters, U. S. Army Weapons Command, ATTN: AMSWE-MAP, Rock Island, 61201, for exception or revision to the allowance list.

g. 30-Day DS/ GS Maintenance Allowances.

NOTE

Allowances in GS column are for GS maintenance only.

(1) The allowance columns are divided into three subcolumns. Indicated in each subcolumn, opposite the first appearance of each item in each category of maintenance, 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 applicable allowance columns, indicating total allowance quantities will be shown with the first appearance of the item when shown as a supply item. 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 DS/ GS levels of maintenance will represent initial stockage for a 30-day period for the number of equipments supported.

(3) Determination of the total quantity of parts required for maintenance of more than 100 of these equipments can be accomplished 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 40; for 150 equipments multiply 40 by 1.50, indicating 60 parts required.

h. 1-Year Allowances per 100 Equipments/ Contingency Planning Purposes. This column indicates opposite the first appearance of each item the total quantity required for distribution and contingency planning purposes. Subsequent appearances of the same item will have the letters "REF" in this column when shown as a supply item. The range of items indicates total quantities of all authorized items required to provide for adequate support of 100 equipments for one year.

i. Depot Maintenance Allowance Per 100 Equipments. This column indicates opposite the first appearance of each item the total quantity authorized for depot maintenance of 100 equipments. Subsequent appearances of the same item will have the letters "REF" in this column when shown as a supply item. Items authorized for use but not for initial stockage are identified with an asterisk in the allowance column.

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

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

(2) *Item number indicates* the callout number used to reference the item on the illustration.

C-4. Special Information

Action change codes indicated in the left-hand margin of the listing page denote the following:

N…..Indicates an added item
C…..Indicates a change in data
R…..Indicates a change in FSN only

C-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 within which the repair part belongs. This is necessary since illustrations are prepared for functional groups and listings are divided into the same groups.

(2) *Second .Find* the illustration covering the functional group 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 to which the repair part belongs and locate the illustration figure and item number noted on 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 ascending alphameric sequence, cross-referenced to the illustration figure number and item number.

(2) *Second.* Using the repair parts listing, find the functional group of the repair part and the illustration figure number and item number referenced in the index of Federal stock number and reference numbers.

C-6. Abbreviations

Aly-S…….alloy steel
cd- or zn-pltd ..... cadmium or zinc plated
fl-ck-hd ..... flat countersunk head

fl-fil-hd ..... flat fillister head
fl-pt ..... flat point
hdls ..... headless
UNC ..... unified course thread
UNF ..... Unified fine thread

C-7. Federal Supply Codes for Manufacturers

Codes	*Manufacturers*
19204	Rock Island Arsenal
96906	Military Standards

Section II. REPAIR PARTS LIST FOR ORGANIZATIONAL MAINTENANCE

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REFERENCE NUMBER & MFR CODE USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 15-DAY ORGANIZATIONAL MAINTENANCE ALW (a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(7) ILLUSTRATION (a) FIGURE NO.	(B) ITEM NO.
		40-MM GRENADE LAUNCHER M79 STOCK ASSEMBLY								
P-O-	1010-065-9646	PLUG PROTECTIVE DUST AND MOISTURE SEAL: 7791471 (19204)	EA	2	*	*	*	*	C-3	1
P-O-	5305-921-6157	SCREW,EXTERNALLY RELIEVED BODY: S, PHOS-CTD, 5 / 16-18UNC-2A, 2 1/4 LG 11010373 (19204)	EA	1	*	*	*	*	C-3	5
P-O-	5310-824-5503	WASHER, LOCK: S, 0.900 0D, 0.040 THK 8432578 (19204)	EA	1	*	*	*	*	C-3	6
		RECEIVER GROUP								
P-O-	1010-704-6623	RETAINER, FIRING PIN: 7790643 (19204)	EA	1	*	*	*	*	C-4	2
P-O-	1010-704-6606	SPRING, HELICAL, COMPRESSION: S, 0.024 STK DIA, 0.240 OD, 0.350 LG, 7 COILS 7790656 (19204)	EA	1	*	*	*	*	C-4	3
P-O-	1010-704-6621	PIN, FIRING: S, 0.660 O / A LG 7790628 (19204)	EA	1	*	*	*	*	C-4	4
		FORE END ASSEMBLY								
P-O-	5305-899-7435	SCREW, MACHINE: S, NO. 8-36NF OR NF-2A, 3/4 LG 7791227 (19204)	EA	*	*	*	*	*	C-5	3
		SCREWDRIVER AND WRENCH COMBINATION								
X1- -		SCREWDRIVER AND WRENCH COMBINATION	.....	1	.....	.....	.....	.....	C-5	6
P-O-	1010-474-5468	BRUSH, CLEANING..... 7790667 (19204)	EA	1	*	*	*	*	C-5	7

Section III. SPECIAL TOOLS, TEST AND SUPPORT EQUIPMENT FOR E ORGANIZATIONAL MAINTENANCE

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REFERENCE NUMBER & MFR CODE / USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 15-DAY ORGANIZATIONAL MAINTENANCE ALW (a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(7) ILLUSTRATION (a) FIGURE NO.	(B) ITEM NO.
		40-MM GRENADE LAUNCHER M79								
P-C-	4933-736-8575	SCREWDRIVER AND WRENCH COMBINATION: W/BRUSH 7791570 (19204)	EA	....	*	*	1	1	C-6	1
P-O-	1010-474-5466	BRUSH, CLEANING 7790665 (19204)	EA	....	*	*	*	1	C-6	2
P-O-	1010-474-5465	THONG, BORE BRUSH 7790631 (19204)	EA	....	*	*	*	1	C-6	3
P-C-	1005-654-4058	SLING, SMALL ARM:..... 6544058 (19204)	EA	....	*	*	*	1	C-6	4
P-C-	1010-474-5462	CASE, SMALL ARMS ACCESSORIES:..... 7790630 (19204)	EA	....	*	*	*	1	C-6	5
P-C-	1005-791-3377	CASE, LUBRICANT:..... 7790995 (19204)	EA	....	*	*	1	1	C-6	6

Section IV. REPAIR PARTS LIST FO DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30 DAYS DS MAINT ALLOWANCE (a) 1-20	(b) 21-50	(c) 51-100	(7) 30 DAYS GS MAINT ALLOWANCE (a) 1-20	(b) 21-50	(c) 51-100	(8) 1-YEAR ALW PER 100 EQUIP CNTGCY	(9) DEPOT MAINT ALW PER 100 EQUIP	(10) ILLUSTRATION (a) FIGURE NO.	(b) ITEM NO.
		40-MM GRENADE LAUNCHER M79 REAR SIGHT ASSEMBLY												
P-H-R	1010-894-0132	SIGHT ASSEMBLY, REAR 7791038 (19204)	EA	1	....	....	....	*	*	*	*	....	C-1	
P-F-	5305-439-6253	SCREW, SHOULDER: 7791024 (19204)	EA	2	*	*	*	*	*	*	*	....	C-1	1
P-F-	1010-440-3353	APERTURE, SIGHT: S, PHOS-FIN., 2.535 O / A ..... LG, 0.220 W, 0.420 H 7791011 (19204)	EA	1	*	*	*	*	*	*	*	....	C-1	2
P-F-	5305-899-7436	SETSCREW: S, NO. 5-40UNC-2A, 0.080 LG 7791199 (19204)	EA	2	*	*	*	*	*	*	*	....	C-1	3
P-F-	1010-799-9220	BASE, FRAME: 7791012 (19204)	EA	1	*	*	*	*	*	*	*	....	C-1	4
P-F-	1010-439-6254	SCREW, WINDAGE: 7791026 (19204)	EA	1	*	*	*	*	*	*	*	....	C-1	5
P-F-	1010-440-3356	SPRING, HELICAL, COMPRESSION: S, 0.014 ..... WIRE DIA, 0.029 ID, 0.057 OD, 0.247 FREE LG, 12.5 COILS 7791028 (19204)	EA	2	*	*	*	*	*	*	*	....	C-1	6
P-F	5315-439-6251	PLUNGER, DETENT: 7791022 (19204)	EA	2	*	*	*	*	*	*	*	....	C-1	7
P-F-	1010-440-3354	KEY, WINDAGE SCREW: 7791020 (19204)	EA	1	*	*	*	*	*	*	*	....	C-1	8
P-F-	1010-439-6248	BASE, SIGHT: 7791013 (19204)	EA	1	*	*	*	*	*	*	*	....	C-1	9
P-F-	5305-704-6624	SCREW, MACHINE: 7790647 (19204)	EA	1	*	*	*	*	*	*	*	....	C-1	10
P-F-	5315-514-2358	PIN, SPRING: S, PHOS-CTD, SLOTTED, 1 / 16 ..... DIA, 7 / 16 LG MS 16562-99 (96906)	EA	1	*	*	*	*	*	*	*	....	C-1	11
P-F-	5340-838-6934	SPRING, HELICAL, COMPRESSION: MUSIC ..... WIRE, 0.240 FREE OD, 0.810 FREE O / A LG, 0.032 DIA MATERIAL 8 3/4 ACTIVE COILS MS 24585-105 (96906)	EA	2	*	*	*	*	*	*	*	....	C-1	12
P-F-	1010-704-6637	LOCK, SIGHT 7790061 (19204)	EA	1	*	*	*	*	*	*	*	....	C-1	13
P-F-	1010-439-6255	SPRING, HELICAL, COMPRESSION: S, 0.018 ..... WIRE DIA, 0.054 ID, 0.090 OD, 0.937 FREE LG, 30 COILS 7791027 (19207)	EA	1	*	*	*	*	*	*		....	C-1	14

Section IV. REPAIR PARTS LIST FOR DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE-Continued

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REFERENCE NUMBER & MFR CODE — USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30 DAYS DS MAINT ALLOWANCE (a) 1-20	(b) 21-50	(c) 51-100	(7) 30 DAYS GS MAINT ALLOWANCE (a) 1-20	(b) 21-50	(c) 51-100	(8) 1-YEAR ALW PER 100 EQUIP CNTGCY	(9) DEPOT MAINT ALW PER 100 EQUIP	(10) ILLUSTRATION (a) FIGURE NO.	(b) ITEM NO.
P-F-	1010-439-6252	RETAINER, APERTURE: 7791023 (19204)	EA	1	*	*	*	*	*	*	*	....	C-1	15
P-F-	1010-439-6249	CARRIER, APERTURE: 7791014 (19204)	EA	1	*	*	*	*	*	*	*	....	C-1	16
P-F-	1010-440-3355	NUT, LOCK, RETAINER: 7791021 (19204)	EA	1	*	*	*	*	*	*	*	....	C-1	17
P-F-	1010-859-7933	SPRING, SIGHT FRAME: S, 0.110 W, 1.695 O / A LG, 0.05 THK 7791200 (19204)	EA	1	*	*	*	*	*	*	*	....	C-1	18
P-F-	1010-439-6250	FRAME ASSEMBLY: 7791015 (19204)	EA	1	*	*	*	*	*	*	*	....	C-1	19
P-F-	5315-597-5086	PIN, SPRING: 1 / 16 DIA, 0.012 THK, 3/8 LG MS 16562-98 (96906)	EA	1	*	*	*	*	*	*	*	....	C-1	20
X1- -	.....	WHEEL, ELEVATING SCREW 7791029 (19204)	....	1	....	....	....	....	....	....	....	....	C-1	21
X1 - -	.....	SCREW, ELEVATING 7791025 (19204)		1	....	....	....	....	....	....	....	....	C-1	22
		BARREL GROUP AND FRONT SIGHT												
P-F-	5305-921-6155	SCREW, CAP, SOCKET HEAD: ALY-S, PHOS FIN., NO. 6-40UNF-3A, 1/2 LG 11010298 (19204)	EA	1	*	*	*	*	*	*	*	....	C-2	1
P-F-	1010-994-9078	SIGHT, FIGHT 7791568 (19204)	EA	1	*	*	*	*	*	*	*	....	C-2	2
P-F-	1010-953-9791	BARREL, GRENADE LAUNCHER: 7791569 (19204)	EA	1	*	*	*	*	*	*	*	....	C-2	3
P-F-	5315-839-0900	PIN, SPRING: S, PHOS-CTD, 5 / 32 DIA, 7 / 8 LG, 0.032 THK MATERIAL MS 16562-137 (96906)	EA	2	*	*	*	*	*	*	*	....	C-2	4
P-F-	1010-704-6629	LUG, LOCKING, BARREL: 7790625 (19204)	EA	1	*	*	*	*	*	*	*	....	C-2	5
P-F-	5315-058-6062	PIN, SPRING: S, PHOS-CTD, 3 / 32 DIA, 3 / 8 LG MS 16562-117 (96906)	EA	1	*	*	*	*	*	*	*	....	C-2	6
P-F-	1010-704-6607	SPRING, HELICAL, COMPRESSION: S, 0.035 STK DIA, 0.240 OD, 1.590 LG, 22 COILS 7790655 (19204)	EA	1	*	*	*	*	*	*	*	....	C-2	7
P-F-	1010-973-2645	EXTRACTOR: 7791529 (19204)	EA	1	*	*	*	*	*	*	*	....	C-2	8
P-F-	1010-819-4498	ARM, COCKING: 7791353 (19204)	EA	1	*	*	*	*	*	*	*	....	C-2	9

Section IV. REPAIR PARTS LIST FOR DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE-Continued

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REFERENCE NUMBER & MFR CODE USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30 DAYS DS MAINT ALLOWANCE (a) 1-20	(b) 21-50	(c) 51-100	(7) 30 DAYS GS MAINT ALLOWANCE (a) 1-20	(b) 21-50	(c) 51-100	(8) 1-YEAR ALW PER 100 EQUIP CNTGCY	(9) DEPOT MAINT ALW PER 100 EOUIP	(10) ILLUSTRATION (a) FIGURE NO.	(b) ITEM NO.
P-F-	5305-926-5682	SETSCREW: NO. 10-32UNF-3A, 0.375 LG 11686533 (19204)	....	1	*	*	*	*	*	*	*	....	C-2	10
		STOCK ASSEMBLY												
P-F-	1010-951-4531	STOCK ASSEMBLY, GRENADE LAUNCHER, SHOULDER: FIBERGLAS 11010343 (19204)	EA	1	*	*	*	*	*	*	*	....	C-3	
P-O-	1010-065-9646	PLUG, PROTECTIVE DUST AND MOISTURE SEAL: 7791471 (19204)	EA	2	*	*	*	*	*	*	*	....	C-3	1
P-F-	5305-984-6195	SCREW, MACHINE: S, CD-PLTD, NO. 8032UNC- 2A, 3 / 4 LG MS 35206-247 (96906)	EA	2	*	*	*	*	*	*	*	....	C-3	2
P-F-	1010-065-9645	PAD, RECOIL: 7791470 (19204)	EA	1	*	*	*	*	*	*	*	....	C-3	3
X1- -	……	STOCK, GRENADE LAUNCHER, SHOULDER: FIBERGLASS 11010344 (19204)	…..	1	…..	…..	….	….	….	….	….	….	C-3	4
P-O-	5305-921-6157	SCREW, EXTERNALLY RELIEVED BODY: S, PHOS-CTD, 5 / 16-18UNC-2A, 2 1/4 LG 11010373 (19204)	EA	1	*	*	*	*	*	*	*	....	C-3	5
P-O-	5310-824-5503	WASHER, LOCK: S, 0.900 OD, 0.040 THK 8432578 (19204)	EA	1	*	*	*	*	*	*	*	....	C-3	6
P-F-	5305-921-6156	SCREW, MACHINE: S, PHOS-FIN., NO. 8-32UNC- 2A, 3/4 LG 11010346 (19204)	EA	2	*	*	*	*	*	*	*	....	C-3	7
P-F-	1005-614-7721	SWIVEL ASSEMBLY, SLING: 6147721 (19204)	EA	1	*	*	*	*	*	*	*	....	C-3	8
		RECEIVER GROUP												
P-H-	5315-704-6598	PIN, STRAIGHT, HEADLESS: 7790637 (19204)	EA	1	….	…..	….	*	*	*	*	....	C-4	1
P-O-	1010-704-6623	RETAINER, FIRING PIN: 7790643 (19204)	EA	1	*	*	*	*	*	*	*	....	C-4	2
P-O-	1010-704-6606	SPRING, HELICAL, COMPRESSION: S, 0.024 STK DIA, 0.240 OD, 0.350 LG, 7 COILS 7790656 (19204)	EA	1	*	*	*	*	*	*	*	....	C-4	4
P-O-	1010-704-6621	PIN, FIRING: S, 0.660 O / A LG 7790628 (19204)	EA	1	*	*	*	*	*	*	*	…..	C-4	4
P-F-	5315-496-8939	PIN, STRAIGHT, HEADLESS: 8432695-115 (19204)	EA	1	*	*	*	*	*	*	*	…..	C-4	5

Section IV. REPAIR PARTS LIST FOR DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE-Continued

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REFERENCE NUMBER & MFR CODE USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30 DAYS DS MAINT ALLOWANCE (a) 1-20	(b) 21-50	(c) 51-100	(7) 30 DAYS GS MAINT ALLOWANCE (a) 1-20	(b) 21-50	(c) 51-100	(8) 1-YEAR ALW PER 100 EQUIP CNTGCY	(9) DEPOT MAINT ALW PER 100 EQUIP	(10) ILLUSTRATION (a) FIGURE NO.	(b) ITEM NO.
P-F-	5315-935-9017	PIN, STRAIGHT, HEADLESS..... MS 51838-89 (96906)	EA	1	*	*	*	*	*	*	*	....	C-4	6
P-F-	5305-704-6602	SETSCREW: 7790646 (19204)	EA	1	*	*	*	*	*	*	*	....	C-4	7
P-F-	5340-825-4472	SPRING, HELICAL, COMPRESSION: S, 0.016 ..... DIA STK, 0.180 OD, 5/8 FREE LG MS 24585-35 (96906)	EA	1	*	*	*	*	*	*	*	....	C-4	8
P-F-	1010-704-6600	LOCK, LATCH: 7790624 (19204)	EA	1	*	*	*	*	*	*	*	....	C-4	9
P-F-	5315-840-3812	PIN, SPRING: S, PHOSS-FIN., 3 / 32 DIA, 5/8 LG. ..... 0.022 THK MATERIAL MS 16562-121 (96906)	EA	1	*	*	*	*	*	*	*	....	C-4	10
P-F-	5315-058-6079	PIN, SPRING: S, PHOS-FIN., 0.125 DIA. 0500 LG..... 0.028 THK MATERIAL MS 16562-127 (96906)	EA	1	*	*	*	*	*	*	*	....	C-4	11
P-F-	1010-704-6617	LATCH, BARREL LOCKING:..... 7790636 (19204)	EA	1	*	*	*	*	*	*	*	....	C-4	12
P-F-	1010-704-6618	PIVOT, LATCH:..... 7790638 (19204)	EA	1	*	*	*	*	*	*	*	....	C-4	13
P-F-	1010-704-6619	ACTUATOR, GUN SAFETY: 7790601 (19204)	EA	1	*	*	*	*	*	*	*	....	C-4	14
P-F-	1010-704-6599	SPRING, HELICAL, COMPRESSION: S, 0.0450 ..... STK DIA, 0.266 OD, 1.13 LG, 15 COILS 7790658 (19204)	EA	1	*	*	*	*	*	*	*	....	C-4	15
P-F-	1010-704-6604	SPRING SAFETY:..... 7790660 (19204)	EA	1	*	*	*	*	*	*	*	....	C-4	16
P-F-	1010-704-6603	PLUNGER, SAFETY SPRING: S, 0.091 DIA, 0.160..... O / A LG 7790634 (19204)	EA	1	*	*	*	*	*	*	*	....	C-4	17
P-F-	1010-704-6620	SAFETY, GRENADE LAUNCHER: 7790644 (19204)	EA	1	*	*	*	*	*	*	*	....	C-4	18
P-F-	5315-935-9018	PIN, STRAIGHT, HEADLESS..... MS 51838-87 (96906)	EA	1	*	*	*	*	*	*	*	....	C-4	19
P-F-	1010-704-6631	LOCK, GUN SAFETY: 7790604 (19204)	EA	1	*	*	*	*	*	*	*	....	C-4	20
P-F-	5305-712-9045	SCREW, SELF-LOCKING: S, CD-PLTD..... W / CHRO-MATE, NO. 8-32NC THD, 5 / 16 LG 7790642 (19204)	EA	1	*	*	*	*	*	*	*	....	C-4	21
P-F-	1010-710-7470	SPRING, TRIGGER: S, PHOS-FIN., 1.070 LG, ... 0.320 W, 0.240 THK MATERIAL 7790641 (19204)	EA	1	*	*	*	*	*	*	*	....	C-4	22

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REFERENCE NUMBER & MFR CODE USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30 DAYS DS MAINT ALLOWANCE (a) 1-20	(b) 21-50	(c) 51-100	(7) 30 DAYS GS MAINT ALLOWANCE (a) 1-20	(b) 21-50	(c) 51-100	(8) 1-YEAR ALW PER 100 EQUIP CNTGCY	(9) DEPOT MAINT ALW PER 100 EQUIP	(10) ILLUSTRATION (a) FIGURE NO.	(b) ITEM NO.
P-F-	1010-704-6626	LEVER, COCKING:: 7790623 (19204)	EA	1	*	*	*	*	*	*	*	....	C-4	23
P-F-	1010-961-1311	SPRING, HELICAL, TORSION: S, 0.039 STK SIZE, 0.505 ID, 0.583 OD, 3 COILS, SGLE TORSION 7791558 (19204)	EA	1	*	*	*	*	*	*	*	....	C-4	24
P-F-	3120-704-6605	BUSHING, SLEEVE: HAMMER SPRING, S, 0.187 ID, 0.254 OD, 0.265 LG 7790606 (19204)	EA	2	*	*	*	*	*	*	*	....	C-4	25
P-F-	1010-704-6625	HAMMER: 7790622 (19204)	EA	1	*	*	*	*	*	*	*	....	C-4	26
P-F-	5360-086-7809	SPRING, HELICAL, TORSION: S, DBLEL 0.062 STK DIA, 0.424 OD, 7 COILS 7791451 (19204)	EA	1	*	*	*	*	*	*	*	....	C-4	27
P-F-	1010-704-6633	SEAR: 7790649 (19204)	EA	1	*	*	*	*	*	*	*	....	C-4	28
P-F-	1010-704-6632	TRIGGER: 7790662 (19204)	EA	1	*	*	*	*	*	*	*	....	C-4	29
P-F-	1010-765-5389	DETENT, TRIGGER GUARD ASSEMBLY: 779008 (19204)	EA	1	*	*	*	*	*	*	*	....	C-4	30
P-F-	5305-059-4550	SCREW, MACHINE: S, CD-PLTD, NO. 6-32 UNC-2A, 5 / 16 LG MS 35190-235 (96906)	EA	1	*	*	*	*	*	*	*	....	C-4	31
P-F-	1010-704-6639	GUARD, TRIGGER 7790613 (19204)	EA	1	*	*	*	*	*	*	*	....	C-4	32
P-F-	1010-727-0491	SPRING, HELICAL, COMPRESSION: S, 0.032 STK DIA, 0.300 OD, 0.500 LG, 5.50 COILS 7790046 (19204)	EA	1	*	*	*	*	*	*	*	....	C-4	33
P-F-	1010-765-5390	RETAINER, HELICAL COMPRESSION SPRING: DETENT SPRING 7790016 (19204)	EA	1	*	*	*	*	*	*	*	....	C-4	34
X- -	……	RECEIVER 7790640 (19204)	....	1	....	....	....	....	....	....	....	....	C-4	35
P-F-	5320-450-3512	RIVET, SOLID: S, 0.122 OD, 0.250 LG 7790033 (19204)	EA	1	*	*	`*	*	*	*	*	....	C-4	36
		FORE END ASSEMBLY												
A-F-	……	FORE END ASSEMBLY 7791354 (19204)	....	1	....	....	....	....	....	....	...	....	C-5	
P-F-	5305-012-9294	SCREW, WOOD: S, CD-OR ZN-PLTD, NO.6 SIZE, 5/8 LG MS 35494-33 (96906)	EA	2	*	*	*	*	*	*	*	....	C-5	1

Section IV. REPAIR PARTS LIST FOR DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE-Continued

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REFERENCE NUMBER & MFR CODE USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30 DAYS DS MAINT ALLOWANCE (a) 1-20	(b) 21-50	(c) 51-100	(7) 30 DAYS GS MAINT ALLOWANCE (a) 1-20	(b) 21-50	(c) 51-100	(8) 1-YEAR ALW PER 100 EQUIP CNTGCY	(9) DEPOT MAINT ALW PER 100 EQUIP	(10) ILLUSTRATION (a) FIGURE NO.	(b) ITEM NO.
P-F-	1010-819-4499	BRACKET, FORE END: 7791355 (19204)	EA	1	*	*	*	*	*	*	*	....	C-5	2
P-O-	5305-899-7435	SCREW, MACHINE: S, NO. 8-36NF OR NF-2A, 3/4 ..... LG 7791227 (19204)	EA	2	*	*	*	*	*	*	*	....	C-5	3
P-F-	1005-614-7721	SWIVEL ASSEMBLY, SLING:..... 6147721 (19204)	EA	1	*	*	*	*	*	*	*	....	C-5	4
P-F-	1010-704-6636	FORE END, GUN: 7790610 (19204)	EA	1	*	*	*	*	*	*	*	....	C-5	5
		SCREWDRIVER AND WRENCH COMBINATION												
X1- -	……..	SCREWDRIVER AND WRENCH COMBIINATION 7791567 (19204)	....	1	....	....	....	....	....	....	....	....	C-5	6
P-O-	1010-474-5468	BRUSH, CLEANING	EA	1	*	*	*	*	*	*	*	....	C-5	7

Section V. REPAIR PARTS LIST FOR DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE-Continued

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REFERENCE NUMBER & MFR CODE USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30 DAYS DS MAINT ALLOWANCE (a) 1-20	(b) 21-50	(c) 51-100	(7) 30 DAYS GS MAINT ALLOWANCE (a) 1-20	(b) 21-50	(c) 51-100	(8) 1-YEAR ALW PER 100 EQUIP CNTGCY	(9) DEPOT MAINT ALW PER 100 EQUIP	(10) ILLUSTRATION (a) FIGURE NO.	(b) ITEM NO.
		40-MM GRENADE LAUNCHER M79 TOOLS AND EQUIPMENT												
P-C-	4933-736-8575	SCREWDRIVER AND WRENCH COMBINATION: W / BRUSH, 7791570 (19204)	EA	....	*	1	2	*	1	2	24	....	C-6	1
P-O-	1010-474-5466	BRUSH, CLEANING: 7790665 (19204)	EA	....	*	1	2	*	1	2	24	....	C-6	2
P-O-	1010-474-5465	THONG, BORE BRUSH: 7790631 (19204)	EA	....	*	1	1	*	1	1	12	....	C-6	3
P-C-	1005-654-4058	SLING, SMALL ARM: 6544058 (19204)	EA	....	*	1	2	*	1	2	24	....	C-6	4
P-C-	1010-474-5462	CASE SMALL ARMS ACCESSORIES: 7790630 (19204)	EA	....	*	1	1	*	1	1	12	....	C-6	5
P-C-	1005-791-3377	CASE, LUBRICANT: 7790995 (19204)	EA	....	*	1	2	*	1	2	24	....	C-6	6
		SPECIAL TOOLS FO DIRECT AND GENERAL SUPPORT MAINTENANCE												
		TOOL KIT, FIELD MAINTENANCE, BASE SMALL ARMS (4933-775-0366) (LISTED IN SC 4933-95-CL-E04)												
		SPECIAL PRESERVATION AND PACKAGING SUPPLIES												
		THE ITEM LISTED BELOW IS REQUIRED IN CONNECTION WITH PRESERVATION AND PACKAGING OF THE GRENADE LAUNCHER.												
P-H-	1010-787-2387	BAG, BARRIER, VOLATILE CORROSION INHIBITOR TREATED LINER: SHIPPING CONTAINER 7790169 (19204)	EA	....	....	....	....	*	*	*	*	....	....	

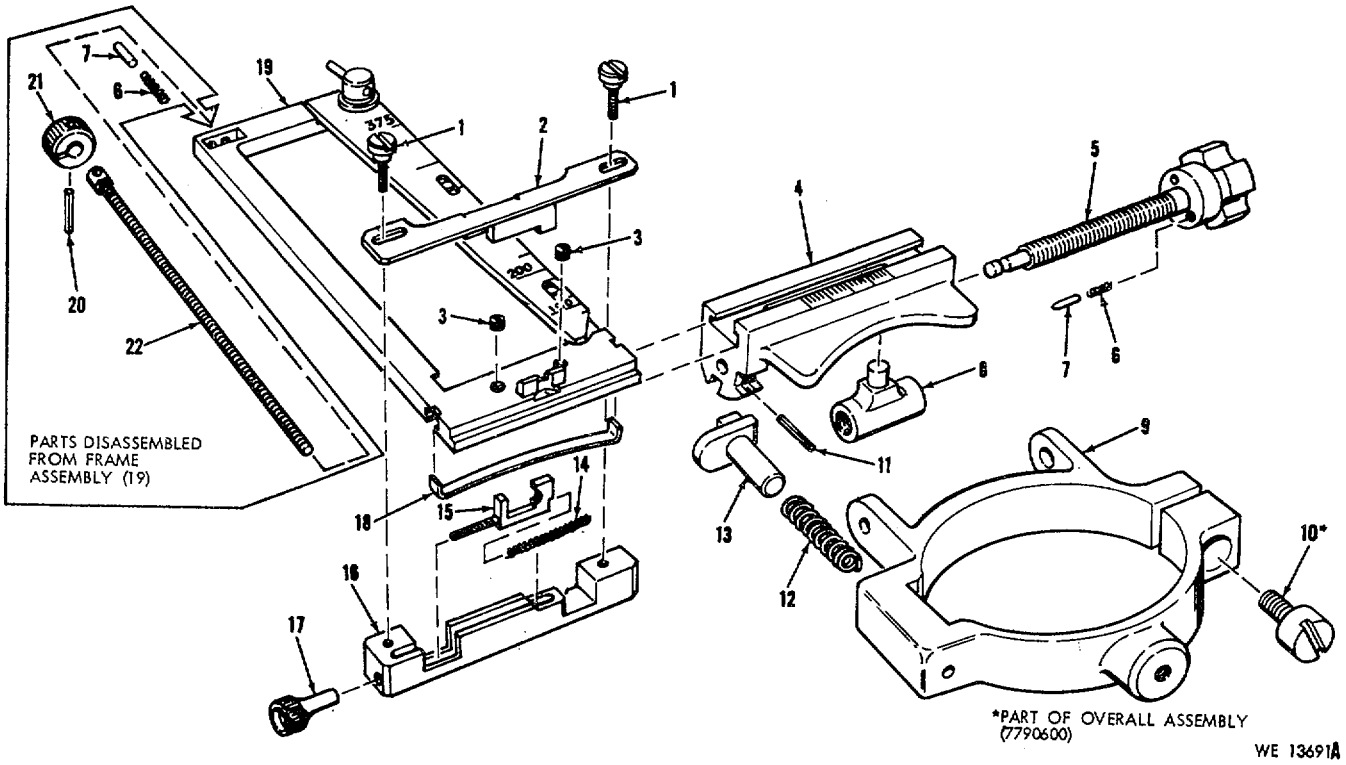


Figure C-1. Rear sight assembly-exploded view.

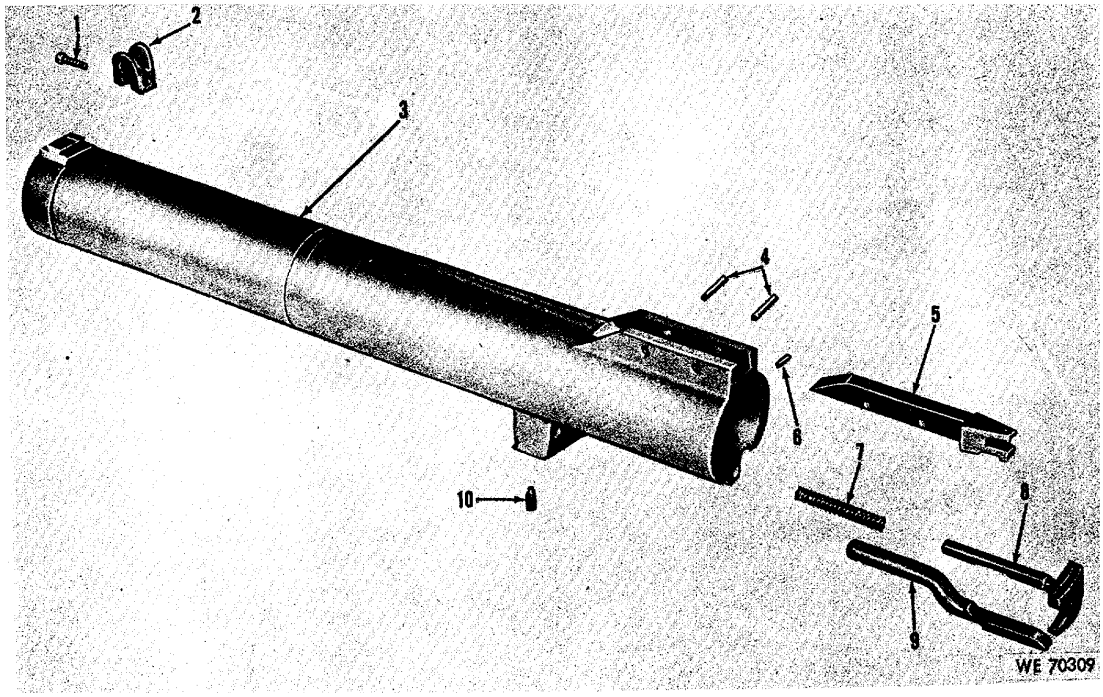


Figure C-2. Barrel group and front sight-exploded view.

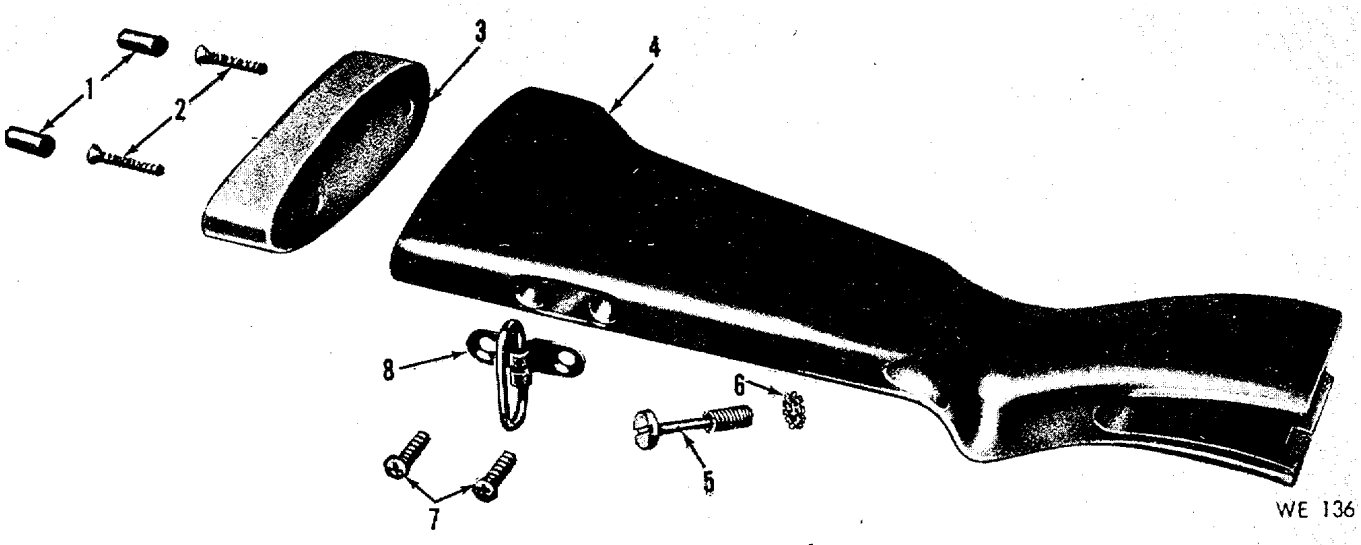


Figure C-3. Stock assembly-exploded view.

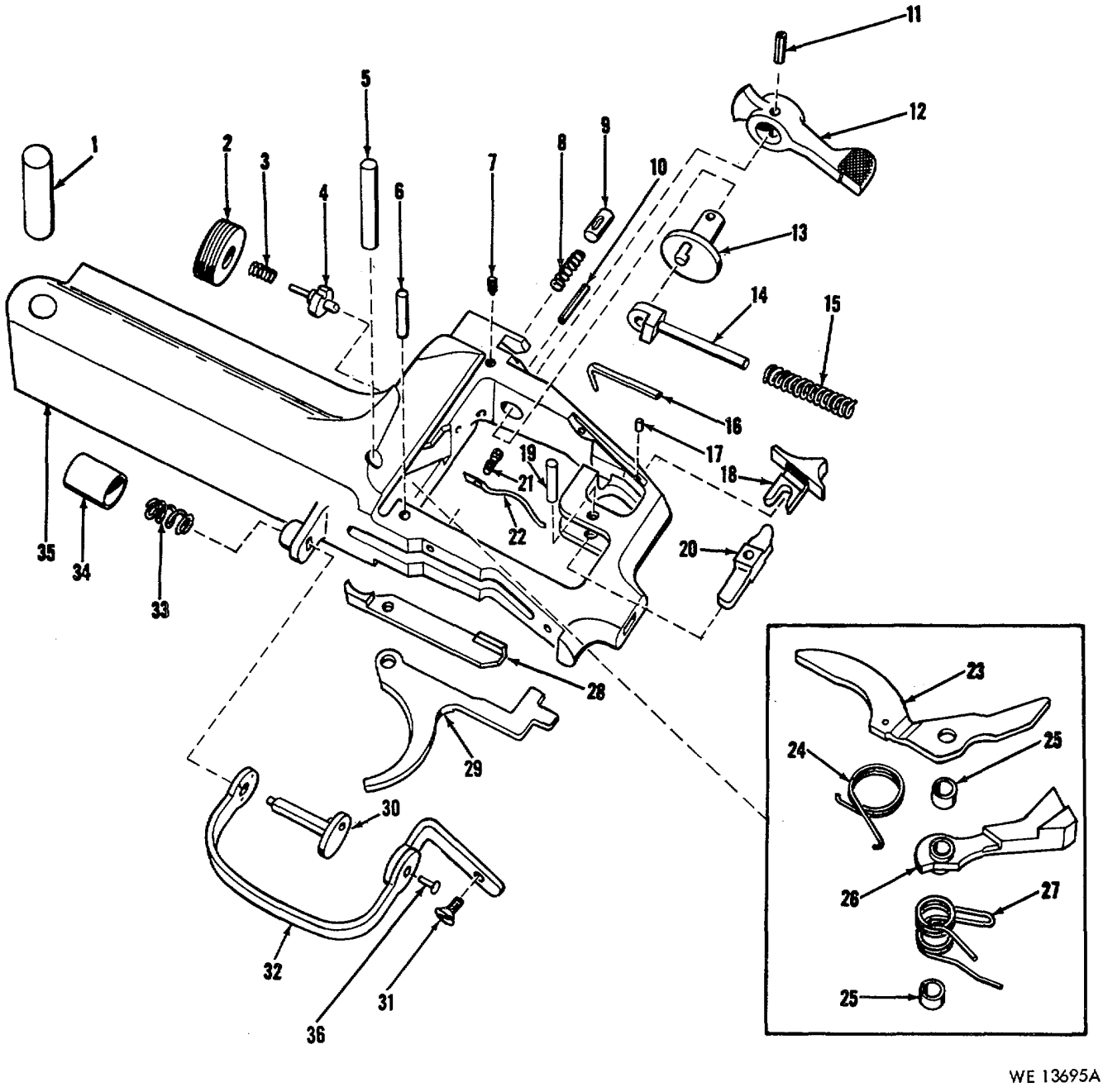


Figure C-4. Receiver group-exploded view.

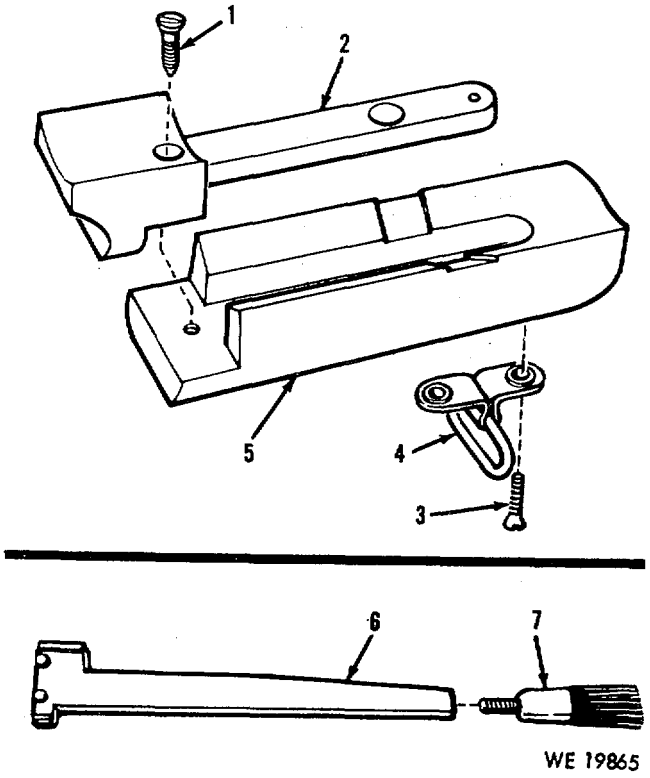


Figure C-5. Fore end assembly and screwdriver and wrench combination-exploded view.

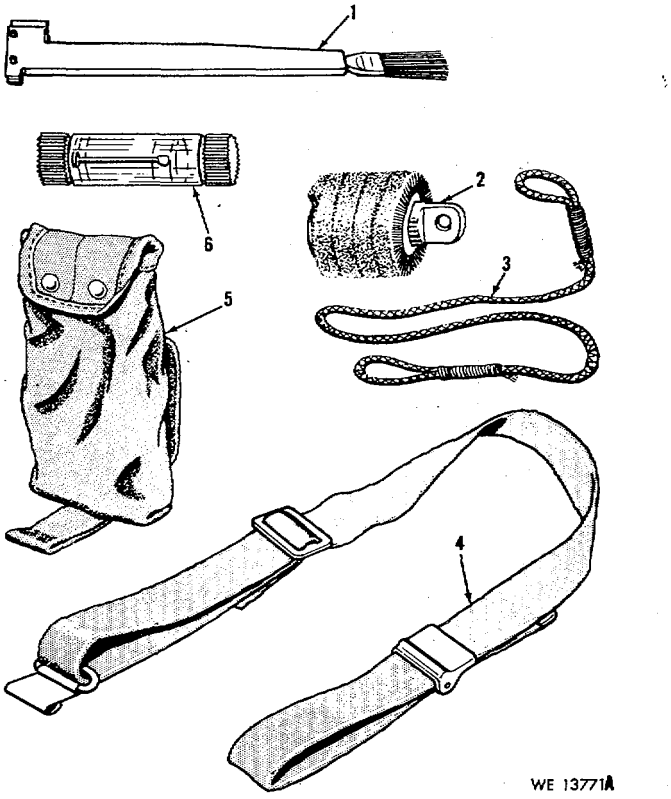


Figure C-6. Tools and equipment for 40-MM grenade launcher M79.

Section VI. FEDERAL STOCK NUMBER AND REFERENCE NUMBER INDEX

Section VI. FEDERAL STOCK NUMBER AND REFERENCE NUMBER INDEX-Continued

REFERENCE NO.	MFR CODE	FIG. NO.	ITEM NO.
MS16562-117	96906	C-2	6
MS16562-121	96906	C-4	10
MS16562-127	96906	C-4	11
MS16562-137	96906	C-2	4
MS16562-98	96906	C-1	20
MS16562-99	96906	C-1	11
MS24585-105	96906	C-1	12
MS24585-35	96906	C-4	8
MS35190-235	96906	C-4	31
MS5206-247	96906	C-3	2
MS35494-33	96906	C-5	1
MS51838-87	96906	C-4	19
MS51838-89	96906	C-4	6
11010298	19204	C-2	1
11010343	19204	C-3	
11010344	19204	C-3	4
11010346	19204	C-3	7
11910373	19204	C-3	5
11686533	19204	C-2	10
6147721	19204	C-3	8
6147721	19204	C-5	4
6544058	19204	C-6	4
7790008	19204	C-4	30
7790016	19204	C-4	34
7790033	19204	C-4	36
7790046	19204	C-4	33
7790061	19204	C-1	13
7790601	19204	C-4	14
7790604	19204	C-4	20
7790606	19204	C-4	25
7790610	19204	C-5	5
7790613	19204	C-4	32
7790622	19204	C-4	26
7790623	19204	C-4	23
7790624	19204	C-4	9
7790625	19204	C-2	5
7790628	19204	C-4	4
7790630	19204	C-6	5
7790631	19204	C-6	3
7790634	19204	C-4	17
7790636	19204	C-4	12
7790637	19204	C-4	1
7790638	19204	C-4	13
7790640	19204	C-4	35
7790641	19204	C-4	22
790642	19204	C-4	21

REFERENCE NO.	MFR CODE	FIG. NO.	ITEM. NO
7790643	19204	C-4	2
7790644	19204	C-4	18
7790646	19204	C-4	7
7790647	19204	C-1	10
7790649	19204	C-4	28
7790655	19204	C-2	7
7790656	19204	C-4	3
7790658	19204	C-4	15
7790660	19204	C-4	16
7790662	19204	C-4	29
7790665	19204	C-6	2
7790667	19204	C-5	7
7790995	19204	C-6	6
7791011	19204	C-1	2
7791012	19204	C-1	4
7791013	19204	C-1	9
7791014	19204	C-1	16
7791015	19204	C-1	19
7791020	i9204	C-1	8
7791021	19204	C-1	17
7791022	19204	C-1	*I*
7791023	19204	C-1	15
7791024	19204	C-1	1
7791025	19204	C-1	22
7791026	19204	C-1	5
7791027	19204	C-1	14
7791028	19204	C-1	6
7791029	19204	C-1	21
7791038	19204	C-1	
7791199	19204	C-1	3
7791200	19204	C-1	18
7791227	19204	C-5	3
7791353	19204	C-2	9
7791354	19204	C-5	
7791355	19004	C-S	2
7791451	19204	C-4	27
7791470	19204	C-3	3
7791471	19204	C-3	I
7791529	19204	C-2	8
7791558	19204	C-4	24
7791567	19204	C-5	6
7791568	19204	C-2	2
7791569	19204	C-2	3
7791570	19204	C-6	1
8432578	19204	C-3	6
8432695-115	19204	C-4	5

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