

TM 9-1005-205-34

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL
INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST
(INCLUDING DEPOT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS)
FOR
RIFLE, CALIBER .30, M1903A4 (SNIPER'S) W/E
(1005-674-1521)

HEADQUARTERS, DEPARTMENT OF THE ARMY
December 1971

WARNING

Dry cleaning solvents and paint thinners are flammable. Do not clean parts near an open flame or smoking area. Fire extinguishers should be readily available when these materials are used. Use only in well-ventilated places. Dry cleaning solvents and paint thinners evaporate quickly and have a drying effect on the skin. When used without protective gloves, they may cause irritation or cracking of the skin. Use lanolin base cream or liquid on exposed skin.

WARNING

Clear weapon before starting the inspection. Point weapon in a safe direction and examine for presence of live ammunition. Then check barrel and chamber for obstructions, e.g., bullet, or ruptured cartridge case in chamber.

WARNING

Personnel operating vapor degreaser are cautioned not to breathe the vapor fumes.

TECHNICAL MANUAL }
No. 9-1005-205-34 }

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, D.C., 20 December 1971

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(1005-674-1521)

This manual is current as of 6 December 1971

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CHAPTER 1 INTRODUCTION

Section I. GENERAL

1-1. Scope

These instructions are in accordance with maintenance allocation chart (TM 9-1005-205-12) and are published for the use of direct support and general support personnel maintaining the Caliber .30 Rifle, M1903A4 (Sniper's). They provide information on the maintenance of the equipment which is beyond the scope of the tools, equipment, personnel, or supplies normally available to operator and organizational maintenance.

1-2. Forms and Records

DA Forms and procedures used for equipment

maintenance will be only those prescribed in TM 38-750.

1-3. Recommendations for Maintenance Manual Improvements

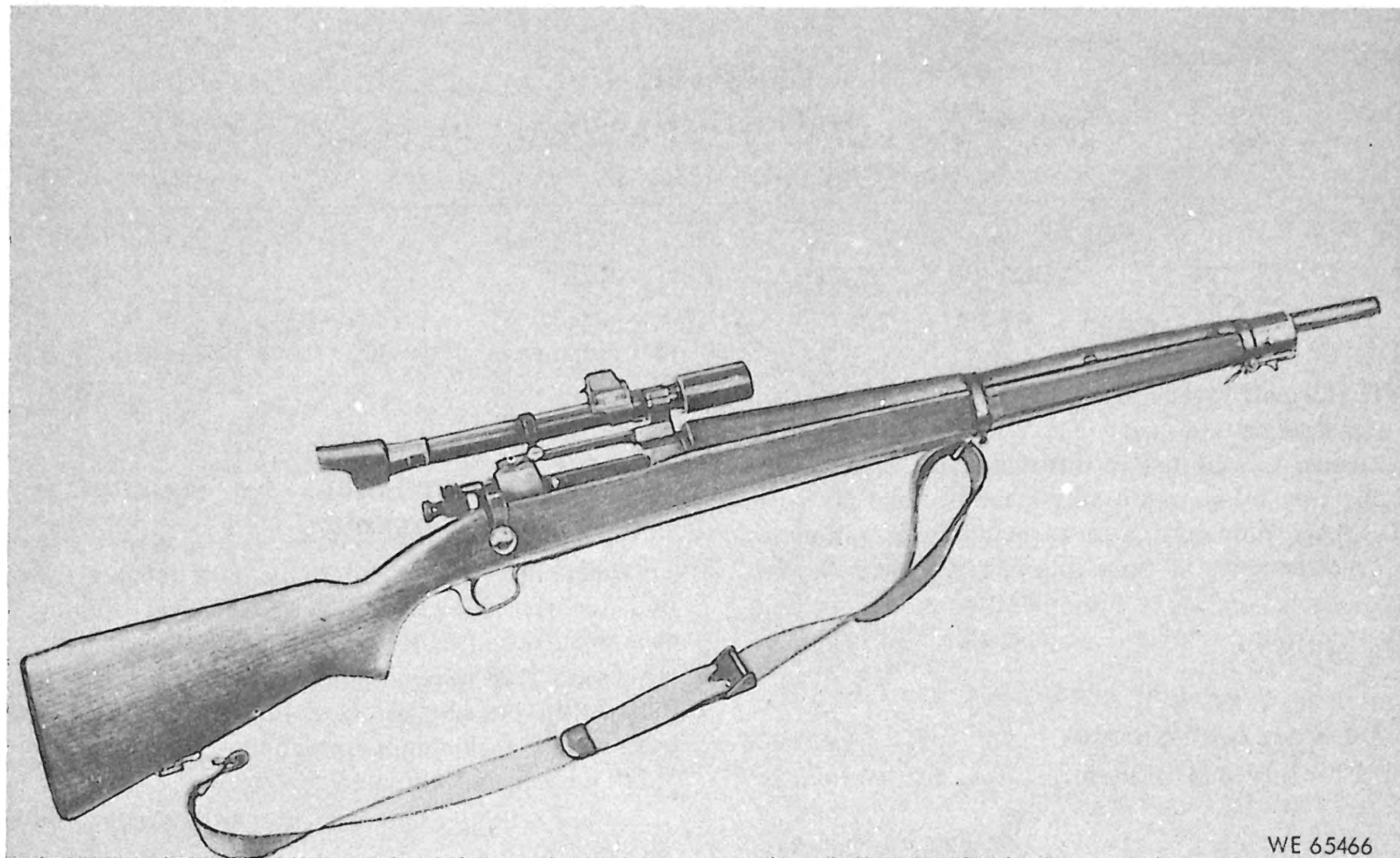
Reports of errors, omissions, and recommendations for improving this publication by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to Publications) and forwarded direct to: Commanding General, U.S. Army Weapons Command, ATTN: AMSWE-MAP, Rock Island, Illinois 61201.

Section II. DESCRIPTION AND DATA

1-4. Description

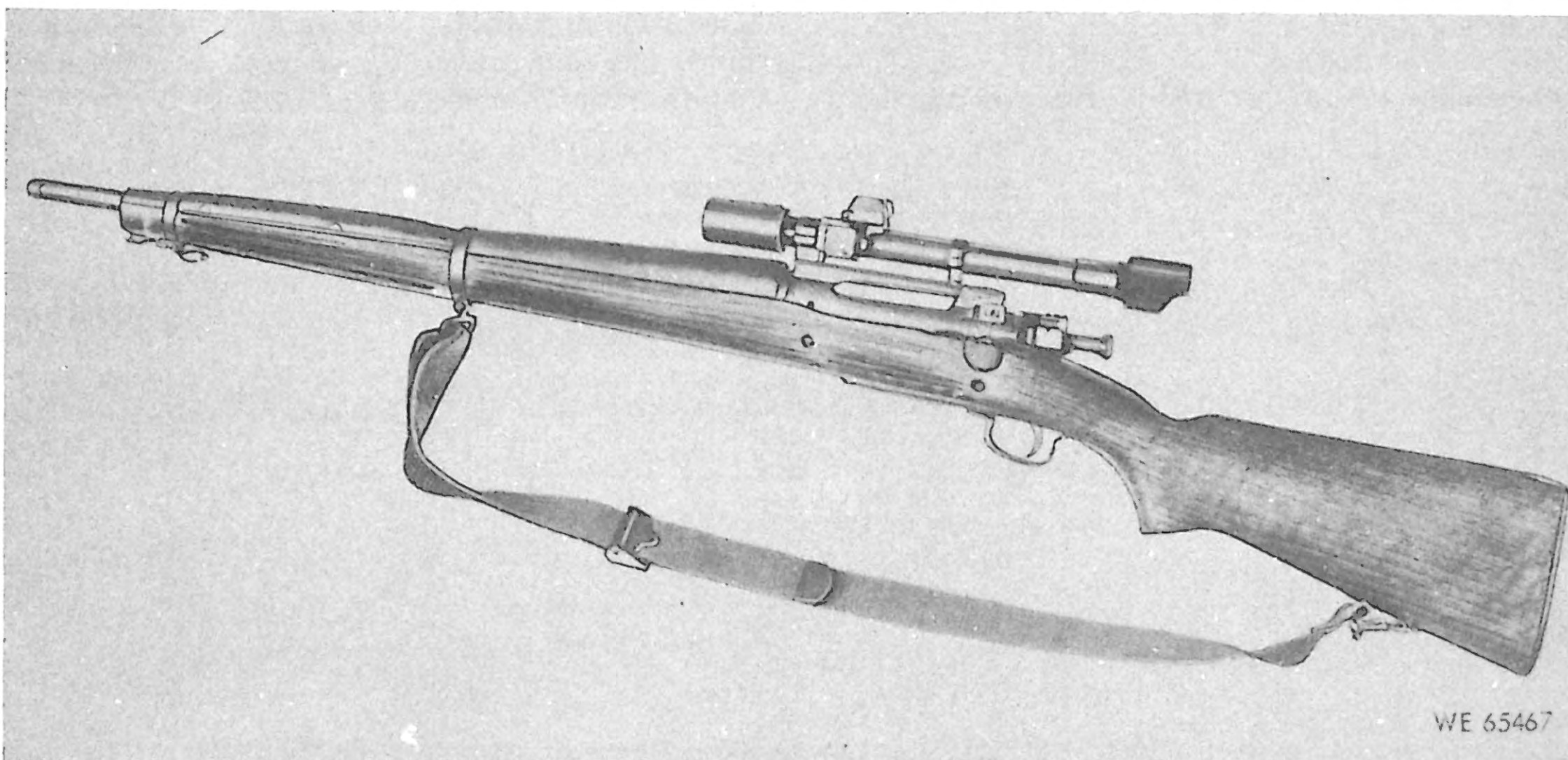
The Caliber .30 Sniper's Rifle (figs. 1-1 and 1-2)

is used by an individual soldier and fires standard caliber .30 ammunition. A complete description of the rifle is contained in TM 9-1005-205-12.



WE 65466

*Figure 1-1. Caliber .30 Rifle, M1903A4 (Sniper's) —
right side view.*



WE 65467

*Figure 1-2. Caliber .30 Rifle, M1903A4 (Sniper's) —
left side view.*

1-5. Tabulated Data

Refer to TM 9-1005-205-12.

CHAPTER 2
DIRECT SUPPORT AND GENERAL SUPPORT
MAINTENANCE INSTRUCTIONS

Section I. REPAIR PARTS, SPECIAL TOOLS, AND EQUIPMENT

2-1. Repair Parts, Special Tools, and Equipment

Refer to appendix B.

Section II. TROUBLESHOOTING

2-2. General

This section contains troubleshooting information for locating and correcting malfunctions which may develop in the M1903A4 Rifle.

ing. The table does not cover all possible malfunctions that may occur. Only the more common malfunctions are listed.

2-3. Troubleshooting

a. Table 2-1 is intended as a guide for troubleshoot-

b. Also refer to the troubleshooting table in TM 9-1005-205-12.

Table 2-1. Troubleshooting

Malfunction	Probable cause	Corrective action
	Rifle M1903A4	
1. Failure to feed	a. Defective magazine follower. b. Weak or broken magazine follower spring. c. Dirty or corroded ammunition. d. Dirty chamber.	a. Replace b. Replace c. Wipe clean or replace. d. Clean weapon.
2. Failure to chamber	a. Dirty or corroded ammunition. b. Damaged ammunition. c. Dirty chamber.	a. Wipe clean or replace. b. Replace. c. Clean weapon.
3. Bolt fails to lock	a. Insufficient headspace. b. Dirty or corroded ammunition. c. Damaged ammunition. d. Dirty chamber.	a. Replace bolt group or rifle. b. Wipe clean or replace. c. Replace. d. Clean weapon.
4. Failure to fire	a. Damaged ammunition. b. Broken striker. c. Damaged firing pin spring.	a. Replace. b. Replace. c. Replace.
5. Failure to extract	Ruptured cartridge.	Remove ruptured cartridge.
6. Failure to eject	a. Damaged ejector. b. Damaged bolt.	a. Replace. b. Repair or replace bolt.
7. Failure to cock	a. Defective sear. b. Defective trigger.	a. Replace. b. Replace.
	Telescope M84	
1. View blurred or clouded	a. Cracked or shattered lens. b. Damaged body. c. Moisture inside telescope.	a. Replace telescope. b. Replace telescope. c. Replace telescope.
2. Mount moves or drifts	a. Defective mount. b. Worn screws. c. Worn shim.	a. Replace mount. b. Replace screws. c. Replace shim.
3. Telescope difficult to install	a. Mounting holes or screw damaged. b. Missing screws, shims or rings. c. Stripped thread holes in receiver.	a. Replace mount or screws. b. Install missing components. c. Replace rifle.

Section III. PREEMBARKATION INSPECTION OF MATERIEL IN UNITS ALERTED FOR OVERSEAS MOVEMENT

2-4. General

a. *Inspection Data.* In addition to inspection data included under this section, refer also to TB 9-1000-247-35 for general inspection criteria for preembarkation inspection for overseas shipment.

WARNING

Clear weapon before starting the inspection. Point weapon in a safe direction and examine for presence of live ammunition. Then check barrel and chamber for obstruction, e.g., bullet or ruptured cartridge case in chamber.

The materiel must be thoroughly cleaned of all grease, dirt, or other foreign matter that might interfere with its proper function.

b. *Inspection of Parts.*

(1) Screw heads must be in good condition, and all threads must also be free of apparent damage.

(2) Materiel must be free of burs, particularly on functional surfaces.

(3) Parts must not be cracked, bent, distorted, or damaged.

(4) Check for deformed and/or broken springs.

(5) Locking and safety mechanisms must be positive in action and must not become disengaged due to normal operation and firing.

(6) Check weapon for missing parts and for proper assembly and function.

(7) Pins and similar devices must function properly and not be subject to loss during use or transportation.

(8) Rifle must be complete and free from rust, cracks and dryness.

(9) Sighting mechanism must be installed properly and function satisfactorily.

(10) Firing pin tang and striker must not be broken or cracked.

(11) Inspect barrel for pitting, scoring, rings, wear and stripping of lands.

(12) Compression spring must be free of mutilations, rust, fracture and set.

(13) Check trigger pull for a minimum 3 pounds and maximum 6 pounds (chapter 8).

(14) Visual and overall appearance of the rifle will indicate a complete serviceable weapon.

Section IV. GENERAL MAINTENANCE

2-5. General

Information and instructions contained herein are provided for personnel performing direct support and general support maintenance on the materiel. In subsequent chapters of this technical manual the main assemblies (groups) of the rifle are disassembled, inspected, cleaned, replaced or repaired and assembled. Refer to paragraphs 2-9 thru 2-11 and TM 9-1005-205-12 for removal/installation of the rifle. The illustrations in this manual are numbered in the sequence of disassembly. When assembling, the reverse order of disassembly will be followed, unless otherwise instructed. Subsequent reference to components being worn and requiring replacement is intended to mean that only those items or mechanisms worn to a degree that affects functioning will be replaced.

2-6. Repair Methods

NOTE

The words assemblies, subassemblies, and groups are used interchangeably.

a. *Disassembly and Assembly Procedures.*

(1) In disassembling a unit, remove the major subassemblies and assemblies whenever possible. Subassemblies may then be disassembled, as necessary, into individual parts.

(2) During assembly, subassemblies should be assembled first and then installed to form a complete unit.

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

b. *Replacement of Parts.*

(1) When assembling a unit, replace defective pins, screws, bolts, washers, or nuts.

(2) Springs with deformation, breaks and rust or corrosion will be replaced.

(3) If a required new part is not available, reconditioning of the old part is required. However, after reconditioning a part, it should be examined carefully to determine its serviceability.

c. *Use of Tools.* Exercise care to use suitable tools for the task being performed in order to avoid mutilation of parts and/or damage to tools.

d. *Finish of Metals.*

(1) A class A or class B phosphate finish will be used on ferrous metals unless otherwise specified.

(2) It will not be necessary to refinish parts that already have a good quality finish and that refinishing will not definitely improve.

(3) All parts will be free from rust, fungus, and corrosion.

e. Repair of Damaged Threads. Damaged threads should be repaired by use of a thread restorer, by chasing on a lathe, or by use of a tap or die of proper dimension.

f. Repair of Damaged Machined and Polished Surfaces. Smooth rough spots, scores, burs, galling, and gouges from damaged machined and polished surfaces so that the part will efficiently perform its normal function. The finish of the repaired part is to approximate that of the original finish. In performing any of these operations, critical dimensions must not be altered.

g. Removal of Rust or Corrosion. Remove oxidation with a cloth moistened with cleaning solvent (SD) or cleaning compound, rifle bore (RBC). If this method fails, use crocus cloth or fine abrasive cloth. Vapor blast or sand blast equipment may also be used. In performing any of these operations, critical dimensions must not be altered.

2-7. Cleaning

a. General. Refer to TM 9-1005-205-12 for using arms information on cleaning, cleaning agents, and safety precautions to be observed in cleaning. Information for maintenance personnel is given in paragraphs 2-7b through 2-7e.

b. Cleaning Material Received from Storage.

(1) Material received in maintenance shops from storage will be cleaned by one of the methods described in (a) through (c), whichever is applicable or available.

CAUTION

Degreasing compound and degreasing temperatures can damage rubber and plastic parts of weapons. Do not attempt to degrease rubber or plastic parts which do not require degreasing.

(a) Dip-tank method. Disassemble, place parts in a perforated metal basket; submerge and agitate in a tank containing dry cleaning solvent or mineral spirits paint thinner. Repeat, using a second tank with clean solvent or thinner. Extent of treatment in each tank will depend on ease with which the preservatives are dissolved.

(b) Vapor-degreaser method. Tanks containing a heated solution of trichlorethylene or perchlorethylene (type II) are used mostly for degreasing items that are very greasy or oily and are not rapidly cleaned by the dip-tank method. Place parts in a perforated metal basket and submerge just below the vapors in the tank and keep there until all the grease or oil melts and runs off the parts in the basket.

WARNING

Personnel operating vapor degreaser are cautioned not to breathe the vapor fumes.

(c) Steam method. Place parts in a perforated metal basket and steam treat until clean. This method is less efficient than the vapor-degreaser method and may require additional cleaning of parts to remove all traces of grease or oil, particularly from recesses.

(2) If some time is to elapse before the start of repair operations, apply a light grade of preservative oil to all polished metal surfaces to prevent rusting.

(3) Remove all rust spots from highly finished surfaces with a light application of crocus cloth. Use grade 2/0 abrasive cloth on ordinary machined finished surfaces.

c. Cleaning After Repair.

(1) After repair operations and prior to assembly, remove shop dirt and other foreign matter from all metal surfaces. This can be done by the dip-tank method, the vapor-degreaser method, or by cleaning with cloths soaked in dry-cleaning solvent or mineral spirits paint thinner.

(2) In the dip-tank method, agitation for approximately one minute in each tank is sufficient. In the vapor-degreaser method, treatment for about two to three minutes is sufficient.

d. Cleaning After Shop Inspection. Dip parts in a tank containing dry cleaning solvent (SD). Remove parts and dry thoroughly with a clean cloth. Then coat with a light coat of general purpose lubricating oil (PL special).

e. Cleaning Optical Components. Refer to TM 9-208-1 and TM 9-247.

2-8. Lubrication and Preservation

Refer to TM 9-1005-205-12 and TM 9-247.

Section V. REMOVAL AND INSTALLATION OF MAJOR COMPONENTS AND AUXILIARIES

2-9. Removal

Refer to TM 9-1005-205-12 for removal procedures of major components and related items.

2-10. Installation

a. Refer to TM 9-1005-205-12 for installation procedures of major components and related items.

b. During repair operations, when cleaning parts or components with dry cleaning solvents or mineral spirits paint thinner, the following precautions should be observed.

WARNING

Dry cleaning solvents and paint thinners are flammable. Do not clean parts near an open flame or smoking area. Fire extinguishers should be readily available when these materials are used. Use only in well ventilated places.

WARNING

Dry cleaning solvents and paint thinners evaporate quickly and have a drying effect on the skin. When used without protective gloves, they may cause irritation or cracking of the skin. Use lanolin base cream or liquid on exposed skin.

CAUTION

Do not permit rubber gaskets or other types of synthetically fabricated components to come in contact with solvents or paint thinners.

2-11. Telescope, M84

a. The telescope may be replaced only at DS/GS maintenance level. Refer to TM 9-6131 and TM 9-1005-205-12 for additional information on the telescope.

b. Unserviceable telescopes will be returned to depot for overhaul.

CHAPTER 3

REPAIR OF MAGAZINE GROUP

Section I. DISASSEMBLY AND ASSEMBLY

3-1. General

This chapter contains disassembly, assembly, cleaning, inspection and repair instructions for the magazine and trigger guard.

3-2. Description

The magazine (plate, trigger guard, spring and follower) is assembled at manufacture as a unit. Ammunition is loaded into the 5-round capacity

magazine from the top or open bolt position. When the last cartridge is fired, the follower rises and blocks the path of the bolt, thus showing that the magazine is empty.

3-3. General Repair Instructions

Refer to paragraphs 2-5 and 2-6.

3-4. Disassembly and assembly

Refer to figure B-1.

Section II. CLEANING, INSPECTION AND REPAIR

3-5. Cleaning

Refer to paragraph 2-7.

3-6. Inspection

a. Inspect magazine and trigger guard, as a unit, for functioning and assembly.

b. Inspect magazine spring for weak spring tension, rust, breaks, and deformation.

c. Inspect follower for burs, bends, and chips. Check outer surface to make sure it is smooth and does not exhibit objectionable nicks.

3-7. Repair

Repair consists of replacing the magazine and trigger guard as a unit, or replacing individual components which make up the magazine group.

CHAPTER 4

REPAIR OF BARREL AND RECEIVER GROUP

Section I. DISASSEMBLY AND ASSEMBLY

4-1. General

This chapter contains disassembly, assembly, cleaning, inspection, and repair instructions for the barrel and receiver group.

4-2. Description

The barrel is a metal tube in which ammunition is fired and which controls initial direction of the bullet (projectile). The receiver is that part of the rifle which takes the cartridge from the magazine and holds it until it is chambered in the rifle barrel.

4-3. General Repair Instructions

Refer to paragraphs 2-5 and 2-6. To repair the

barrel and receiver group, disassemble the barrel and receiver group in accordance with the numbering sequence shown on figures B-2 and B-3. Clean and inspect the components in accordance with paragraphs 4-5 and 4-6. Replace all damaged items such as bolts, pins, washers, nuts, screws, springs, etc. Refer to appendix B for replacement items and components. Assembly is in the reverse order of disassembly.

4-4. Disassembly/Assembly

Refer to figures B-2 and B-3.

Section II. CLEANING, INSPECTION AND REPAIR

4-5. Cleaning

Remove dirt, grease and oil from metal parts with waste wiping cloths or soft bristle brush saturated with dry cleaning solvent. (SD) or mineral spirits paint thinner (TPM). Allow to dry thoroughly (para 2-7).

4-6. Inspection

a. *Receiver*. Inspect receiver for burs and wear on bearing surface in well, in locking lug channel on locking cam and shoulders, cartridge ramps, cocking piece groove extracting cam, and safety shoulder.

b. *Cut-off*. Inspect cut-off for burs, missing plunger and spring. Check for weak spring tension and for loose spindle.

c. *Ejectors*. Inspect ejector for burred or broken point.

d. *Sear*. Inspect sear for wear and rough contacting surfaces. Check sear spring for weak tension and other visual damage.

e. *Trigger*. Inspect trigger for wear and burs on bearing and heel. Check trigger pin for excess play or looseness.

f. *Mount Base*. Check installed mount base for fit on receiver, burs, and rust. Inspect screws for tightness. Check front mounting recess for wear, burs, and lateral adjusting screws for looseness and burs. (Left lateral adjusting screw should be staked firmly in place and right screw should turn smoothly without undue looseness.) Check radial grooves in sides of base and edges of lateral adjusting screws for burs.

(1) Mount the sight to the mount base and check for looseness. There should be no up-and-down movement of the front mount ring in the base when mounted. Looseness at this point may be corrected by lightly peening the dovetailed lug on the front mount ring.

(2) If the mounting lug on the front mount ring becomes burred, it may be smoothed with a small file or sharpening stone. When wear is present to the extent that there is play between ring and base, it may sometimes be tightened by lightly peening the ends of the lug toward the ring. If such peening does not take up the slack, the ring should be replaced. Frequently, play may be due to wear in the mounting recess in the base. Before peening the lug, the front

mounting ring should be removed from the sight and mounted on a metal rod of the same diameter as the sight tube, to prevent deformation of the ring when peening.

CAUTION

Never attempt to peen the ring while mounted on the sight.

(3) Excessive play should be remedied by replacement of the parts.

4-7. Repair

a. *Cut-off*. Replace broken or damaged spring, plunger or spindle. If cut-off screw will not retain the spindle, it should be replaced. If the under-side of the lever portion of the cut-off (3, fig B-2) where the word ON is stamped is shiny, the cut-off should be replaced. Cut-off levers used as replacements must bear a black finish to eliminate the shiny condition.

b. *Ejector*. Repair of the ejector consists of removing burs with a stone or replacing the damaged part.

c. *Sear*. Remove burs on nose of sear with a stone, taking care to remove as little metal as possible and to retain the proper angle of the faces. Replace sear if nose is worn so that it will not hold in sear notch of firing pin. Replace weak or damaged spring, and worn sear pin.

d. *Trigger*. Remove burs from trigger with a stone. A trigger having play or a worn pin will be replaced. Check trigger pull (para 8-2).

e. *Barrel*. Before any attempt is made to inspect a barrel for serviceability, metal fouling and other accumulated foreign matter should be removed.

(1) Inspect barrel for bulges, erosion and pits.

(2) If the bore contains small pits but has sharp and uniformly distinct lands and is free from bulges and not otherwise deformed, it is serviceable.

(3) If the barrel contains a bulge, it is unserviceable. This condition is indicated by a shadowy depression or dark ring in the bore and may often be noticed through a bulge or raised ring on the barrel surface.

(4) If the barrel is pitted to the extent that the sharpness of the lands is effected, or if it has a pit or pits in the lands or grooves large enough to permit the passage of gas past the bullet, that is, a pit the width of a land or groove and 3/8 to 1/2 inch or longer, it is unserviceable and is cause for rejection.

(5) The chamber must not have pits large enough to cause extraction difficulties.

(6) Bore gaging will be conducted to determine the serviceability of the weapon due to wear on the lands of the barrel. Refer to paragraph 8-2 for test acceptance and rejection criteria.

CHAPTER 5

REPAIR OF STOCK GROUP

Section I. DISASSEMBLY AND ASSEMBLY

5-1. General

This chapter contains disassembly, assembly, cleaning, inspection and repair instructions for the stock group.

5-2. Description

The stock serves as a holding device for the barrel

and receiver group.

5-3. General Repair Instructions

Refer to paragraphs 2-5 thru 2-8.

5-4. Disassembly/Assembly

Refer to figures B-4 and B-5.

Section II. CLEANING, INSPECTION AND REPAIR

5-5. Cleaning

Remove dirt, grease and carbon from stock with a dry cloth. Wooden stocks should not be sanded, shaved, or scraped. Raw linseed oil should be rubbed into the wood to prevent dryness and to protect against moisture.

5-6. Inspection

Inspect stock surfaces for cracks, chips, and other unusual damage or mutilation. Check fit of action in stock. Inspect relief cuts for signs of binding with adjacent assemblies or parts. Check butt plate for

rust, burs and other visual damage. Check to make sure that screws holding components together are adequately tightened.

5-7. Repair

a. Repair of the stock group consists of repairing the damaged stock or replacing it with a serviceable one from stock.

b. Refer to TM 9-1005-301-30 for repair of wooden stocks. General repair procedures will be used for the repair of the M1903A4 Rifle stock which is not given in TM 9-1005-301-30.

CHAPTER 6 REPAIR OF BOLT GROUP

Section I. DISASSEMBLY AND ASSEMBLY

6-1. General

This chapter contains disassembly, assembly, cleaning, inspection and repair instructions for the bolt group.

6-2. Description

The bolt group (figs B-6 and 6-1) consists of an

extractor, firing pin assembly (pin-striker), sleeve, helical compression spring (mainspring) and locking mechanism. The bolt assembly serves to seal gas chamber pressure, to feed ammunition into chamber of weapon, to detonate the primer to fire the propellant in the body of a cartridge, and to extract cartridges.

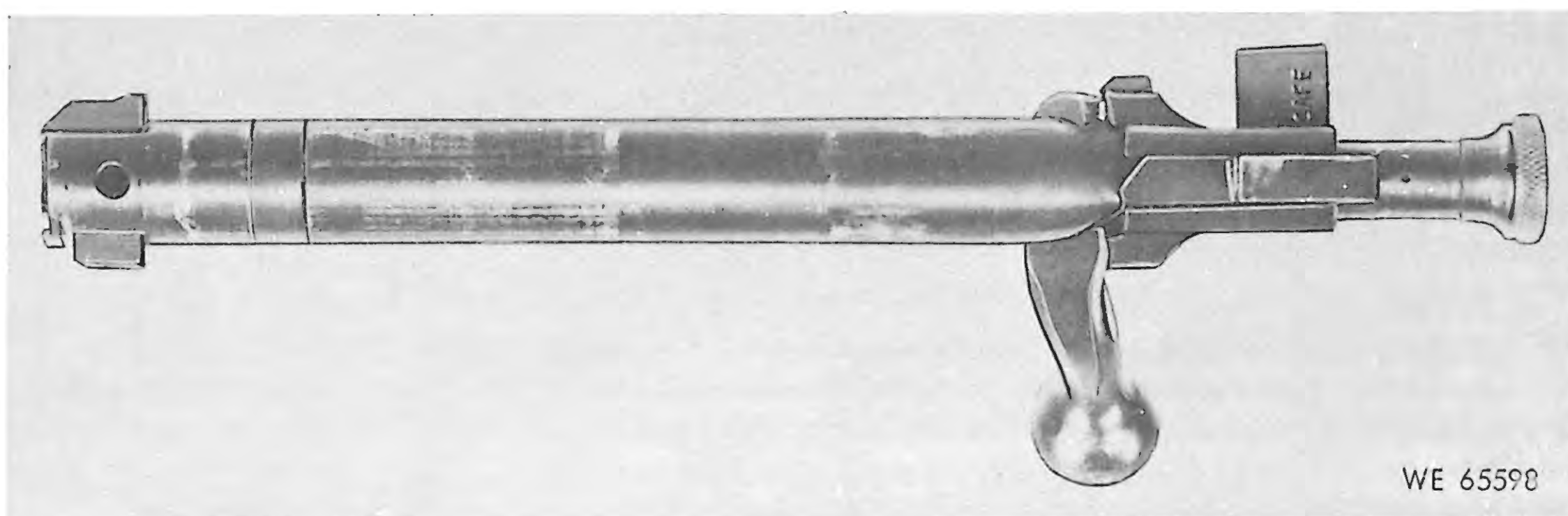


Figure 6-1. Bolt group.

6-3. General Repair Instructions

Refer to paragraphs 2-5 and 2-6.

6-4. Disassembly/Assembly

Refer to figure B-6.

Section II. CLEANING, INSPECTION AND REPAIR

6-5. Cleaning

Refer to paragraph 2-7.

6-6. Inspection

- a. *Bolt*. Inspect bolt group for burs, cracks, wear on locking lugs, cocking cam surface, and safety lug.
- b. *Extractor*. Inspect extractor for looseness on extractor collar and worn or broken hook.
- c. *Firing Pin Assembly*. Inspect for broken firing pin, worn or burred cocking cam, sear notch, and safety lock grooves.
- d. *Compression Spring*. Check compression spring for tension, separation, and distortion.
- e. *Striker*. Inspect striker for wear, chips, loose-

ness, and deformation.

f. *Bolt Sleeve Assembly*. Inspect bolt sleeve threads for damage or mutilation. Check bolt sleeve lock spring for tension and distortion.

g. *Small Arm Safety*. Check safety on bolt for proper operation. Inspect for damaged cocking piece grooves and missing or worn plunger.

6-7. Repair

a. *General Repair of Bolt Group*. Burs on lugs and camming surfaces should be removed with a stone and finished with a crocus cloth, exercising care not to remove too much metal. If the striker hole or the face of the bolt is worn or eroded to the extent that

it allows a detonated primer of the cartridge to blow back, the bolt assembly should be replaced. If the extractor collar is deformed to the extent of affecting the action of the extractor, the bolt assembly should be replaced.

b. *Extractor*. Replace the extractor if it is loose, or has a broken hook.

c. *Firing Pin Assembly*. Remove burs on cam, sear notch, and safety lock grooves with a stone, finishing the operation with a crocus cloth. However if the

firing pin striker point is worn or broken, it should be replaced.

d. *Compression Spring*. Replace weak, broken or damaged spring.

e. *Bolt Sleeve Assembly*. Remove burs on sleeve lock with a stone. Replace bolt sleeve assembly exhibiting thread damage. Replace bolt sleeve assembly if the lock plunger groove is deformed.

f. *Small-Arms Safety*. If the safety is damaged or does not function properly, it should be replaced.

CHAPTER 7

REPAIR OF TELESCOPE, M84

7-1. General

No repair parts are authorized for repair or overhaul of the telescope, M84.

7-2. Description

The telescope is a tubular optical instrument for viewing distant objects by means of the refraction of light rays through lens. It is assembled to the receiver by a base mount. It is retained in place by screws and two mount rings (fig B-7).

7-3. General Repair Instructions

Refer to TM 9-6131.

7-4. Inspection

Inspect optical components of the telescope for cracks, fractures, scratches, missing parts, and other visual damage which may impair its usefulness.

7-5. Repair

Replace a damaged telescope with a serviceable one from stock. However, attaching hardware may be replaced.

CHAPTER 8

FINAL INSPECTION

8-1. General

- a. Make certain that the rifles meet the limits of serviceability as indicated in this chapter.
- b. Function fire rifles after repair, when possible, to be sure that they operate properly.
- c. Visually check all assemblies after firing weapons.
- d. Clean and lubricate rifles after firing.

8-2. Testing/Inspection of Headspace, Trigger Pull, Bore and Spring

a. *Headspace.* Headspace is determined by use of headspace gages and field test bolt. In conducting field inspection of a rifle, headspace will be tested with the 1.950 inch headspace gage used in conjunction with the field test bolt. To make this test, remove extractor from bolt, insert gage in the chamber and try closing bolt. The bolt handle should not be forced. It should be felt by using only the thumb, first and second fingers of the right hand on the ball of the bolt handle. Bolt should not close. This latter procedure will prevent the use of excessive force. If it does close, replace the bolt of the rifle with the field test bolt and try closing the field test bolt on the headspace gage. If the field test bolt does not close on the gage, the bolt is worn. In this case, the bolt will be replaced. If the field test bolt does close on the gage, the chamber or bolt locking lug seats in the receiver are worn. In this case, the rifle will be replaced.

b. *Trigger Pull.*

(1) After final assembly of the rifle, check the trigger pull using trigger pull measuring fixture 7274758 while following instructions below.

(2) To make a trigger pull test, cock the rifle and turn SAFETY to READY. Insert the hook of the trigger weight wire over the middle of the bow of the trigger from the side of the rifle opposite the bolt handle, with the weight resting on the floor and the wire clear of the stock and trigger guard (fig 8-1). Then, with the barrel of the rifle held vertically, raise the weight from the floor as gently as possible. If the 3 pound weight pulls the trigger, or if the 6 pound weight fails to pull the trigger, the rifle will be repaired. Examine sear nose and sear notch for burs or rough surfaces. Remove burs and rough sur-

faces. If this fails to correct defects, replace sear and trigger spring.

(3) Creep is any movement of the trigger that can be felt by the finger after the slack is taken up and before enough pressure is applied to release the sear. Creep should be eliminated as much as possible, whenever found, as it prevents the proper squeeze of the trigger, which is essential to proper firing of the rifle.

c. *Bore Gaging.* The breech bore gage is used to determine the serviceability of the weapon due to wear on the lands of the barrel. With the bolt withdrawn, insert the gage through the bolt tunnel and chamber into the bore at the breech. Seat gage without undue force, and read the graduation parallel

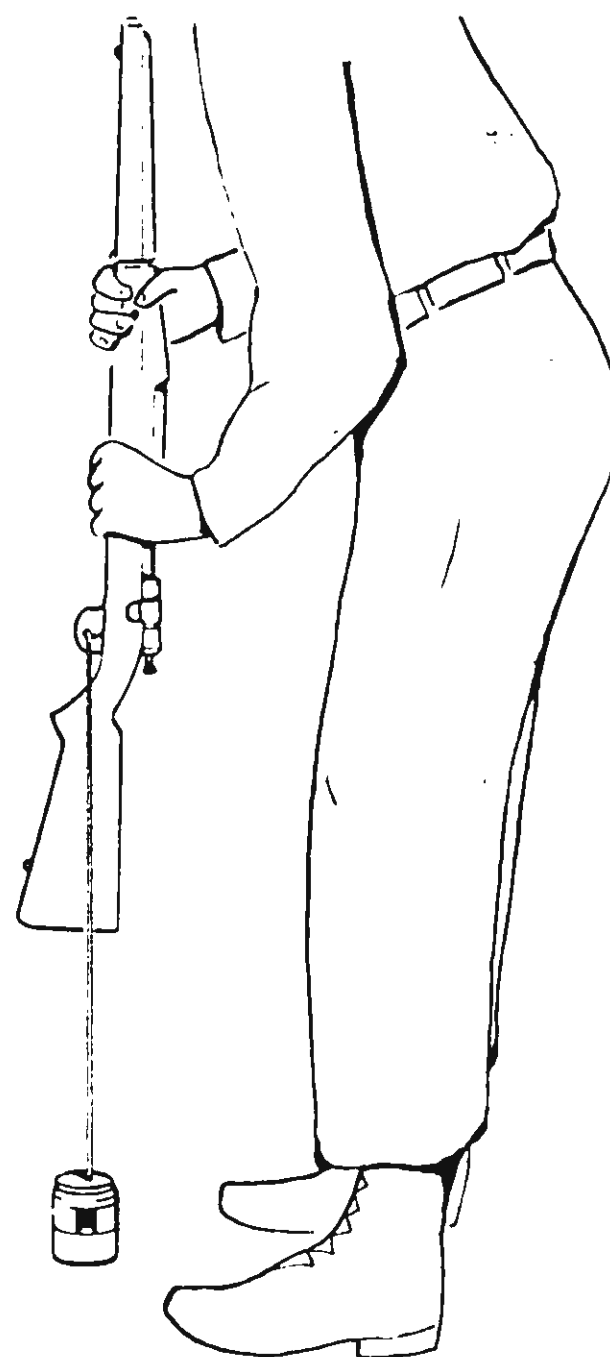


Figure 8-1. Testing trigger pull.

from the top rear edge to the front end of the receiver. If the gage with the nine spaces between the rejection line for machine gun barrels and rejection line for rifle barrels is used, the barrel is unserviceable when the gage reads 0.308 inch or more. If there are eight spaces between the two rejection lines, the barrel is serviceable until the breech bore gage reading is 0.309 inch.

8-3. Visual Inspection

Overall appearance will be approximately that of a new weapon. All exposed metal surfaces are to have a full rust resistant finish with no burs or deep

scratches. Barrels must be straight, clean, free from rust, propellant residue, bulges, and rings. Fine pitting is allowable. Rifles must be complete with no missing parts. All modifications must be applied. The serial numbers must be legible. All metal parts must be free of rust.

8-4. Completion of Inspection

Upon completion of inspection, and when rifles have been restored to a serviceable condition, it shall be certified that the weapon is acceptable for "return to users" or for "return to stock".

APPENDIX A
REFERENCES

A-1. Publication Indexes

The following indexes will be consulted frequently for latest changes or revisions of reference given in this appendix and for new publications relating to material covered in this technical manual.

Index of Administrative Publication	DA Pam 310-1
Index of Blank Forms	DA Pam 310-2
Index of Supply Catalogs and Supply Manuals (Excluding Types 7, 8, and 9)	DA Pam 310-6
Index of Technical Manuals, Technical Bulletins, Supply Manuals (Types 7, 8, and 9), Supply Bulletins, and Lubrication Orders	DA Pam 310-4
U.S. Army Equipment Index of Modification Work Orders	DA Pam 310-7

A-2. Forms

Recommended Changes to Publications	DA Form 2028
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A-3. Other Publications

The following publications contain information pertinent to this materiel and associated equipment:

a. <i>Ammunition.</i>	
Ammunition and Explosives	SC 1305/30-IL
Ammunition: Federal Stock Numbers and Department of Defense Codes	TB 9-AMM5
Ammunition, General	TM 9-1900
Ammunition Service in the Theater of Operations	FM 9-6
Care, Handling, Preservation and Destruction of Ammunition	TM 9-1300-206
Malfunction Involving Ammunition and Explosives	AR 700-1300-8
Munitions Restricted or Suspended	TB 9-1300-385
Regulations for Firing Ammunition for Training, Target Practice, and Combat	AR 385-63
Safeguarding Defense Information	AR 380-5
Small Arms Ammunition	TM 9-1305-200
b. <i>General.</i>	
Accident Reporting and Records	AR 385-40
The Army Maintenance Management Systems (TAMMS)	TM 38-750
Ordnance Maintenance: Telescope M84	TM 9-6131
c. <i>Maintenance and Repair.</i>	
Cleaning of Ordnance Materiel	TM 9-208-1
Operator's and Organizational Maintenance Manual Including Repair Parts and Special Tools Lists — Rifle, Caliber .30, M1903A4 (Sniper's) W/E (1005-674-1521)	TM 9-1005-205-12
Inspection and Certification of Gages-Small Arms	TB 750-242-2
Direct Support Maintenance Manual: Repair of Wooden, Fiber Glass/Plastic or Plastic Components of Small Arms Weapons	TM 9-1005-301-30
Materials Used for Cleaning, Preserving, Abrading and Cementing Ordnance Materiel; and Related Materials Including Chemicals	TM 9-247
d. <i>Operations.</i>	
Maintenance Battalion and Company Operations in Divisions and Separate Brigades	FM 29-30
Operation and Maintenance of Army Materiel in Extreme Cold Weather 0° to —65°	TM 9-207
e. <i>Shipment and Storage.</i>	
Administrative Storage of Equipment	TM 740-90-1
Adopted Items of Materiel and Army Reportable Items	SB 700-20
DSU/Installation Stock Control and Supply Procedures (Army Field Stock Control System)	AR 711-16
Issue Priority System	AR 735-35-1

Preservation-Packaging, Packing and Marking of Items of Supply AR 700-15

Requisitioning, Receipt, and Issue System AR 725-50

Standards for Oversea Shipment or Domestic Issue of Small Arms, Aircraft
Armament, Towed Howitzers, Mortars, Recoilless Rifles, Rocket Launchers,
and Associated Fire Control Equipment TB 9-1000-247-35

Storage and Army Supplies and Equipment Covered and Open Storage SB 38-8-1

APPENDIX B

DIRECT SUPPORT AND GENERAL SUPPORT

MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST

(INCLUDING DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS)

Section I. INTRODUCTION

B-1. Scope

This manual lists repair parts, special tools, and equipment required for the performance of direct support, general support, and depot maintenance of the M1903A4 Rifle.

B-2. General

This 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 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 in ascending numerical sequence, 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 direct support, general support, and depot levels.

c. *Federal Stock Number and Reference Number Index — Section IV.* 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 number and reference numbers are cross-referenced to each illustration figure and item number appearance.

B-3. Explanation of Columns

The following provides an explanation of columns 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
	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 of 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.
G	Major assemblies that are procured with PEMA funds for initial issue only as exchange assemblies at DS and GS level. These assemblies will not be stocked above the DS and GS level or returned to depot supply level.

NOTE

Cannibalization or salvage may be used as a source of supply for any items source coded above, except those coded X1 and aircraft support items as restricted by AR 700-42.

(2) *Maintenance Code.* Indicates the lowest category of maintenance authorized to install the repair

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

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. 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 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. *30-Day DS/GS Maintenance Allowances*.

NOTE

Allowances in GS column are for GS Maintenance only.

The allowance columns are divided into three subcolumns. Items authorized for use are identified with an asterisk in the allowance column opposite the first appearance of each item. Subsequent appearances of the same item will have the letters "REF" in the applicable allowance columns.

g. *1-Year Allowances Per 100 Equipments/Contingency Planning Purposes*. This column indicates opposite the first appearance of each item the authorization for distribution and contingency planning purposes. The range of items indicates the authorization of all items required to provide for adequate support of 100 equipments for one year. Subsequent appearances of the same item will have the letters "REF" in this column.

h. *Depot Maintenance Allowance Per 100 Equipments*. This column indicates opposite the first appearance of each item, the authorization for depot maintenance of 100 equipments. Items authorized for use are identified with an asterisk. Subsequent appearances of the same item will have the letters "REF" in this column.

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

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

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

B-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.

B-5. How to Locate Repair Parts

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

(1) *First*. Using the table of contents, determine the functional group 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 Numbers and Reference Numbers.

B-6. Abbreviations

Abbreviations	Explanation
dia.	diameter
fil-hd	fillister head
fl.	flat
h	high
hd	head
in.	inch
lg.	long
max	maximum
min	minimum
NF	American National Fine Thread
no.	number
NS	American National Special Thread
pg	package
S	steel
sq	square
VCI	volatile corrosion inhibitor
w	wide
w/	with

(1) SMR code			(2) Federal stock No.	(3) Description Reference no. & mfr. code Usable on code	(4) Unit of meas	(5) Qty inc in unit	(6) 30-day DS maint allowance			(7) 30-day GS maint allowance			(8) 1-yr alw per 100 equip cntgcy	(9) depot maint alw per 100 equip	(10) Illustration	
							(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100			(a) figure No.	(b) item no.
N	P	F	5305-612-8413	MAGAZINE GROUP SCREW, MACHINE: S, FIL-HD, 1/4-25NS X 11/32 (GUARD, FRONT) 6128413 (19205)	EA	1	*	*	*	*	*	*	*	*	B-1	1
N	P	F	5305-612-8414	SCREW, MACHINE: S, FIL-HD, 1/4-25NS X 1/2 (REAR GUARD) 6128414 (19205)	EA	1	*	*	*	*	*	*	*	*	B-1	2
N	P	F	1005-556-4394	MAGAZINE AND TRIGGER GUARD: 5564394 (19204)	EA	1	*	*	*	*	*	*	*	*	B-1	3
N	P	F	1005-554-5034	SPRING, MAGAZINE: 5545034 (19205)	EA	1	*	*	*	*	*	*	*	*	B-1	4
N	XI	F	.....	FOLLOWER: 5564396 (19205)	....	1	....	....	....	....	....	....	....	....	B-1	5
N	P	F	1005-513-0017	BARREL AND RECEIVER GROUP SCREW, EJECTOR STOP: 5130017 (19205)	EA	1	*	*	*	*	*	*	*	*	B-2	1
N	P	F	5315-513-0027	PIN, GROOVED, HEADLESS: 0.208 DIA. 1.489 LG 5130027 (19205)	FA	1	*	*	*	*	*	*	*	*	B-2	2
N	P	F	1005-612-8407	CUT-OFF: 6128407 (19205)	EA	1	*	*	*	*	*	*	*	*	B-2	3
N	P	F	1005-731-0026	PLUNGER, CUT-OFF: 7310026 (19205)	FA	1	*	*	*	*	*	*	*	*	B-2	4
N	P	F	1005-614-6882	SPRING HELICAL, COMPRESSION: 6146882 (19205)	EA	1	*	*	*	*	*	*	*	*	B-2	5
N	P	F	5315-513-0009	PIN, STRAIGHT, HEADED: S, FIL-HD, 0.299 X 0.003 DIA OF HD (SEAR) 5130009 (19204)	EA	1	*	*	*	*	*	*	*	*	B-2	6
N	P	F	5315-513-0010	PIN, STRAIGHT, HEADLESS: S, 0.399 IN, 0.055 OVERALL LG (TRIGGER) 5130010 (19204)	EA	1	*	*	*	*	*	*	*	*	B-2	7
N	P	F	1005-612-8428	TRIGGER: 6128428 (19205)	EA	1	*	*	*	*	*	*	*	*	B-2	8
N	P	F	1005-612-8416	SEAR: 6128416 (19205)	FA	1	*	*	*	*	*	*	*	*	B-2	9
N	P	F	1005-614-6886	SPRING, HELICAL, COMPRESSION: (REAR) 6146886 (19205)	FA	1	*	*	*	*	*	*	*	*	B-2	10
N	XI	F	.....	PIN, STRAIGHT, HEADED: FIL-HD, 0.240 IN, 0.003 DIA OF HD (EJECTOR) 5130002 (19204)	....	1	....	....	....	....	....	....	....	....	B-2	11
N	P	F	1005-612-8408	EJECTOR, CARTRIDGE: 6128408 (19205)	FA	1	*	*	*	*	*	*	*	*	B-2	12
N	X	D	.....	RECEIVER:	....	1	....	....	....	....	....	....	....	....	B-3	1
N	P	D	1005-654-4077	BARRIEL RIFLE: 6544077 (19205)	FA	1	....	....	....	....	....	....	....	*	B-3	2

Section II. REPAIR PARTS LIST — Continued

(1) SMR code	(2) Federal stock No.	(3) Description		(4) Unit of meas	(5) Qty inc in unit	(6) 30-day DS maint allowance			(7) 30-day GS maint allowance			(8) 1-yr alw per 100 equip cntgcy	(9) depot maint alw per 100 equip	(10) Illustration	
		Reference no. & mfr. code	Usable on code			(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100			(a) figure No.	(b) item no.
N	P F	5305-614-6873	STOCK GROUP	EA	3	*	*	*	*	*	*	*	*	B-4	1
N	X1 F	6146873 (19205)	SCREW: BUTT PLATE, SMALL	...	1	...	...	...	...	...	...	...	...	B-4	2
N	P F	1005-612-8412	SWIVEL: BUTT	EA	1	*	*	*	*	*	*	*	*	B-4	3
N	P F	1005-561-3665	6147710 (19204)	EA	1	*	*	*	*	*	*	*	*	B-4	4
N	P F	1005-653-5548	SCREW: BUTT PLATE, LARGE	EA	1	*	*	*	*	*	*	*	*	B-4	5
N	X1	5613665 (19205)	PLATE, BUTT, SHOULDER STOCK:	...	2	...	...	...	...	...	...	...	...	B-5	1
N	X1	5153074 (19205)	STOCK, GUN, SHOULDER:	...	1	...	...	...	...	...	...	...	...	B-5	2
N	X1	5295819 (19205)	BAND: STACKING SWIVEL	...	1	...	...	...	...	...	...	...	...	B-5	3
N	X1	6257631 (19205)	SWIVEL: LOWER BAND	...	1	...	...	...	...	...	...	...	...	B-5	4
N	X1F	5153083 (19205)	BAND: LOWER	...	1	...	...	...	...	...	...	...	...	B-5	5
N	P D	1005-612-8423	613667 (19205)	EA	1	...	...	...	...	...	...	...	*	B-5	6
N	P F	1005-653-5528	SPRING: LOWER BAND	EA	1	*	*	*	*	*	*	*	*	B-5	7
N	P F	1005-612-8405	GUARD, HAND:	EA	2	*	*	*	*	*	*	*	*	B-5	8
N	P D	1005-515-3072	6128405 (19205)	EA	1	...	...	...	...	...	...	...	*	B-5	9
N	P F	1005-614-7820	RING: BARREL GUARD	EA	1	*	*	*	*	*	*	*	*	B-6	
N	P O	1005-554-6049	5153072 (19205)	EA	1	*	*	*	*	*	*	*	*	B-6	1
N	P F	1005-612-8425	BOLT GROUP	EA	1	*	*	*	*	*	*	*	*	B-6	2
N	P F	1005-612-8417	BOLT ASSEMBLY:	EA	1	*	*	*	*	*	*	*	*	B-6	3
N	P F	1005-614-6871	6128425 (19205)	EA	1	*	*	*	*	*	*	*	*	B-6	4
N	P O	1005-614-7752	SLEEVE ASSEMBLY, BOLT:	EA	1	*	*	*	*	*	*	*	*	B-6	5
N	P F	1005-612-8417	5546049 (19205)	EA	1	*	*	*	*	*	*	*	*	B-6	
N	P F	1005-612-8417	STRIKER:	EA	1	*	*	*	*	*	*	*	*	B-6	
N	P F	1005-612-8417	6128417 (19205)	EA	1	*	*	*	*	*	*	*	*	B-6	
N	P F	1005-614-6871	SLEEVE: FIRING PIN	EA	1	*	*	*	*	*	*	*	*	B-6	
N	P F	1005-614-6871	SPRING, HELICAL, COMPRESSION:	EA	1	*	*	*	*	*	*	*	*	B-6	
N	P O	1005-614-7752	6146871 (19205)	EA	1	*	*	*	*	*	*	*	*	B-6	
N	P O	1005-614-7752	PIN ASSEMBLY, FIRING:	EA	1	*	*	*	*	*	*	*	*	B-6	
N	P O	1005-614-7752	6147752 (19205)	EA	1	*	*	*	*	*	*	*	*	B-6	

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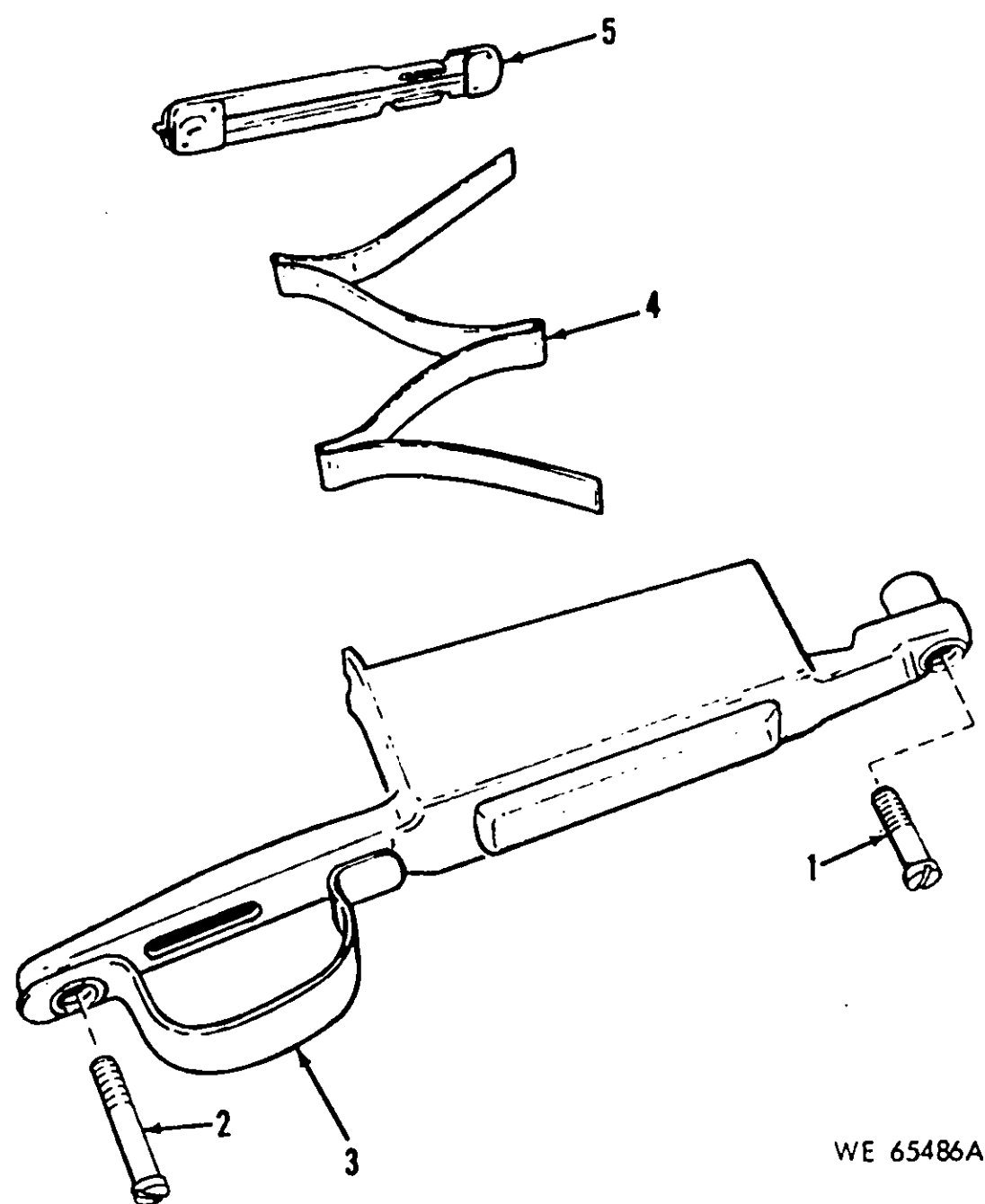
Section III. SPECIAL TOOLS LIST

(1) SMR code	(2) Federal stock No.	(3) Description		(4) Unit of meas	(5) Qty inc in unit	(6) 30-day DS maint allowance			(7) 30-day GS maint allowance			(8) 1-yr alw per 100 equip cntgcy	(9) depot maint alw per 100 equip	(10) Illustration	
		Reference no. & mfr. code	Usable on code			(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100			(a) figure No.	(b) item no.
N P O	1005-288-3565	TOOLS AND EQUIPMENT AUTHORIZED FOR UNIT REPLACEMENT SWAB, SMALL ARMS CLEANING: COTTON 2-1/2 SQ (1000 IN PG) 5019316 (19204)		PG	1	2	4	7	2	4	7	84			
N P C	1005-550-6573	CASE, CLEANING ROD, SMALL ARMS: M1 5506573 (19205)		EA	1	*	1	1	*	1	1	12	....	B-8	8
N P C	1005-556-4174	BRUSH, CLEANING, SMALL ARMS: BORE 5564174 (19204)		EA	1	2	4	7	2	4	7	84	....	B-8	1
N P C	1005-654-4058	SLING, SMALL ARMS: M1 WEBBING 6544058 (19204)		EA	1	1	2	4	1	2	4	48	....	B-8	10
N P C	1005-691-1381	BRUSH, CLEANING, SMALL ARMS: CHAMBER 7790582 (19204)		EA	1	1	2	4	1	2	4	48	....	B-8	2
N P C	1005-694-1662	BUFFER, CLEANING ROD: 7268275 (19205)		EA	1	1	2	4	1	2	4	48	....	B-8	4
N P C	1005-726-6109	ROD SECTION, CLEANING, SMALL ARMS: 7266109 (19205)		EA	4	2	4	7	2	4	7	84	....	B-8	5
N P C	1005-726-6110	SWAB HOLDER SECTION, SMALL ARMS CLEANING ROD: 7266110 (19204)		EA	1	1	2	4	1	2	4	48	....	B-8	6
N P C	1005-791-3377	CASE, LUBRICANT: 7790995 (19205)		EA	1	1	1	2	1	1	2	24	....	B-8	9
N P C	1005-793-6761	HANDLE ASSEMBLY: CLEANING ROD 7266115 (19204)		EA	1	1	1	2	1	1	2	24	....	B-8	3
N P C	1240-763-1596	CASE, TELESCOPE: M84 7631596 (19200)		EA	1	*	1	2	*	1	2	24	....	B-8	7
N P O	4933-556-4169	TOOL ASSEMBLING, SAFETY: 5564169 (19205)		EA	1	*	1	2	*	1	2	24			
N P O	4933-652-9950	EXTRACTOR, RUPTURED CARTRIDGE CASE: 7790352 (19205)		EA	1	*	1	2	*	1	2	24			
N P F R	4933-775-0366	TOOLS AND EQUIPMENT THE FOLLOWING BASIC SMALL ARMS DIRECT AND GENERAL SUPPORT MAINTENANCE TOOL SET IS AUTHORIZED, AS RE- QUIRED, TO ALL MAINTENANCE SUPPORT UNITS WITH A SMALL ARMS REPAIR MISSION TOOL SET, DIRECT AND GENERAL SUPPORT MAINTENANCE, BASIC SMALL ARMS: 8426358 (19205) SEE SC 4933-95-CL-E04 FOR COMPONENTS NOTE THE FOLLOWING ITEMS ARE REQUISITIONED AND ISSUED IF NOT OTHERWISE AUTHORIZED, TO MAIN- TENANCE UNITS PERFORMING DIRECT AND GENERAL SUPPORT MAINTENANCE OF THE MAJOR ITEMS. ITEMS MAY BE REQUISITIONED AS REQUIRED FOR REPLACE- MENT UNDER THEIR INDIVIDUAL STOCK NUMBERS. THE 30-DAY LEVEL IS NOT APPLICABLE.		SE	...	...	...	*	...	...	*

Section III. SPECIAL TOOLS LIST — Continued

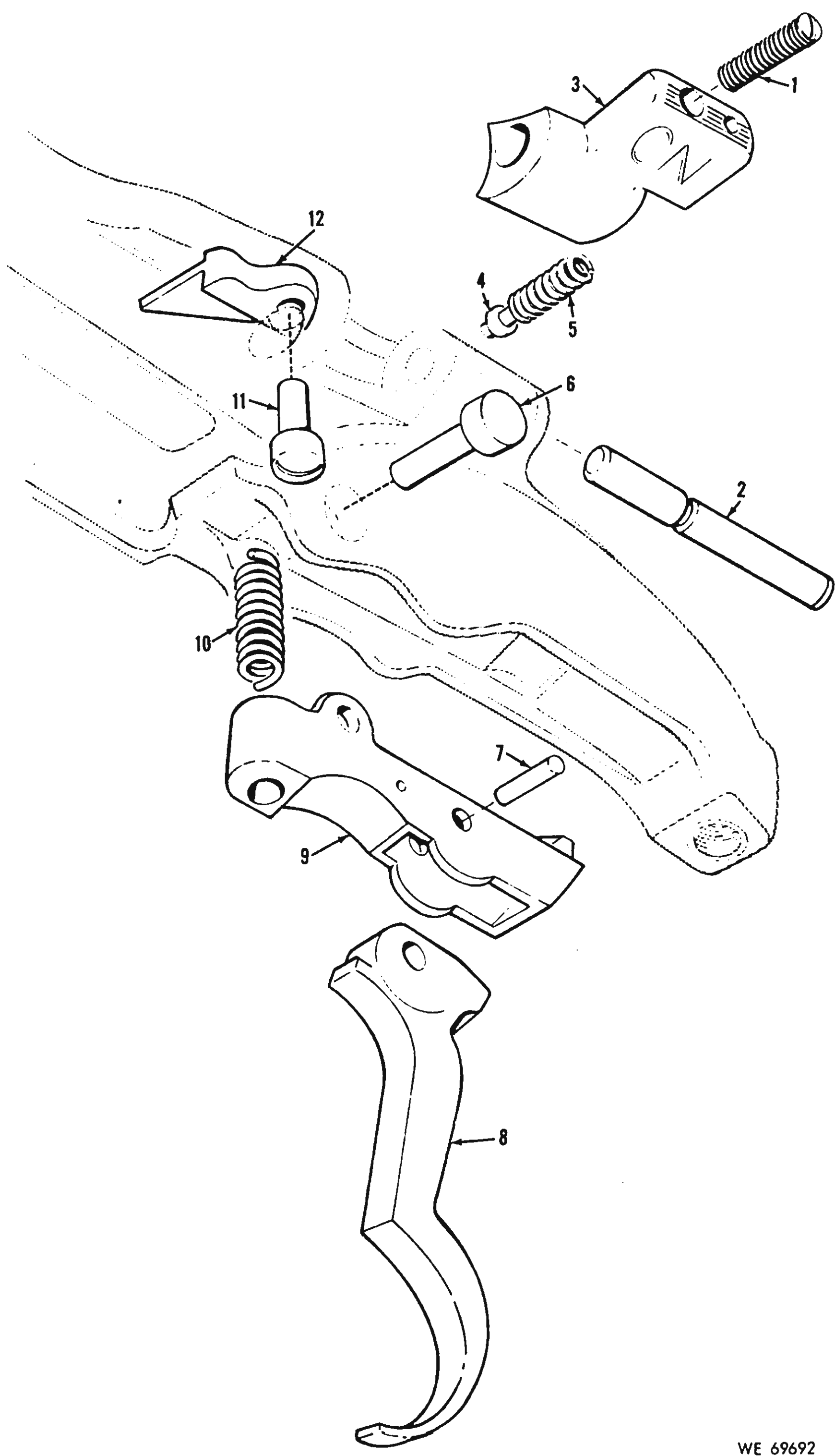
TM 9-1005-205-34

(1) SMR code	(2) Federal stock No.	(3) Description Reference no. & mfr. code Usable on code	(4) Unit of meas	(5) Qty inc in unit	(6) 30-day DS maint allowance			(7) 30-day GS maint allowance			(8) 1-yr alw per 100 equip cntgcy	(9) depot maint alw per 100 equip	(10) Illustration	
					(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100			(a) figure No.	(b) item no.
N P F R	4933-726-5851	TOOL SET, DIRECT AND GENERAL SUPPORT MAINTENANCE: 7265851 (19205)	SE	...	...	...	*	...	...	*
N P F	4933-552-0656	COMPOSED OF: 1-BOLT, FIELD TEST: 5520656 (19205)	EA	...	*	*	*	*	*	*				
N P F	4933-550-3940	1-GAGE, BREECH BORE: 5503940 (19205)	EA	...	*	*	*	*	*	*				
N P F	4933-731-9930	3-GAGE, FIRING PIN PROTRUSION: MIN 0.50, MAX 0.075 7319930 (19205)	EA	...	*	*	*	*	*	*				
N P F	4933-398-4108	1-GAGE, HEADSPACE: 1.950 7319954 (19205)	EA	...	*	*	*	*	*	*				
N P D R	4933-726-5850	TOOL SET, DEPOT MAINTENANCE: 7265850 (19205)	SE	...	...	...	...	...	...	...		*
N P D	4933-631-6016	COMPOSED OF: 1-CHASER, THREAD, HAND: T-RECEIVER 6316016 (19205)	EA	...	...	...	...	...	...	...		*
N P D	4933-398-4106	2-GAGE, HEADSPACE: 1.940 7319944 (19205)	EA	...	...	...	...	...	...	...		*
N P D	4933-398-4107	2-GAGE, HEADSPACE: 1.946 7319950 (19205)	EA	...	...	...	...	...	...	...		*
N P D	4933-716-0459	1-REAMER, HAND, RIFLE: 7160459 (19205)	EA	...	...	...	...	...	...	...		*
N P D	5140-315-2747	1-TOOL BOX, PORTABLE: W/TRAY, 7H, 7W, 16 LG GGG-T-558-1 (81348)	EA	...	...	...	...	...	...	...		*
N P D	4933-631-6015	2-TOOL ASSEMBLY, TEST: SEAR 6316015 (19205)	EA	...	...	...	...	...	...	...		*
N P D	4933-631-6011	1-WRENCH, RECEIVER: 6316011 (19205)	EA	...	...	...	...	...	...	...		*
N P D	1005-336-0212	SPECIAL PACKAGING MATERIAL THE ITEM LISTED BELOW IS REQUIRED FOR PRESERVATION WHEN THE MAJOR ITEM IS PACKAGED FOR SHIPMENT OR STORAGE TUBE, BORE: VCI TREATED 7266311 (19205)	EA	...	...	...	...	...	...	...		*



WE 65486A

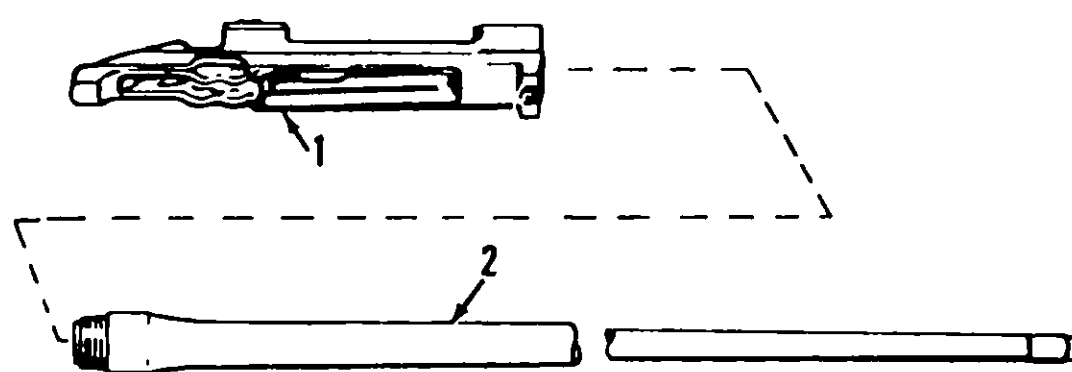
Figure B-1. Magazine group — exploded view.



WE 69692

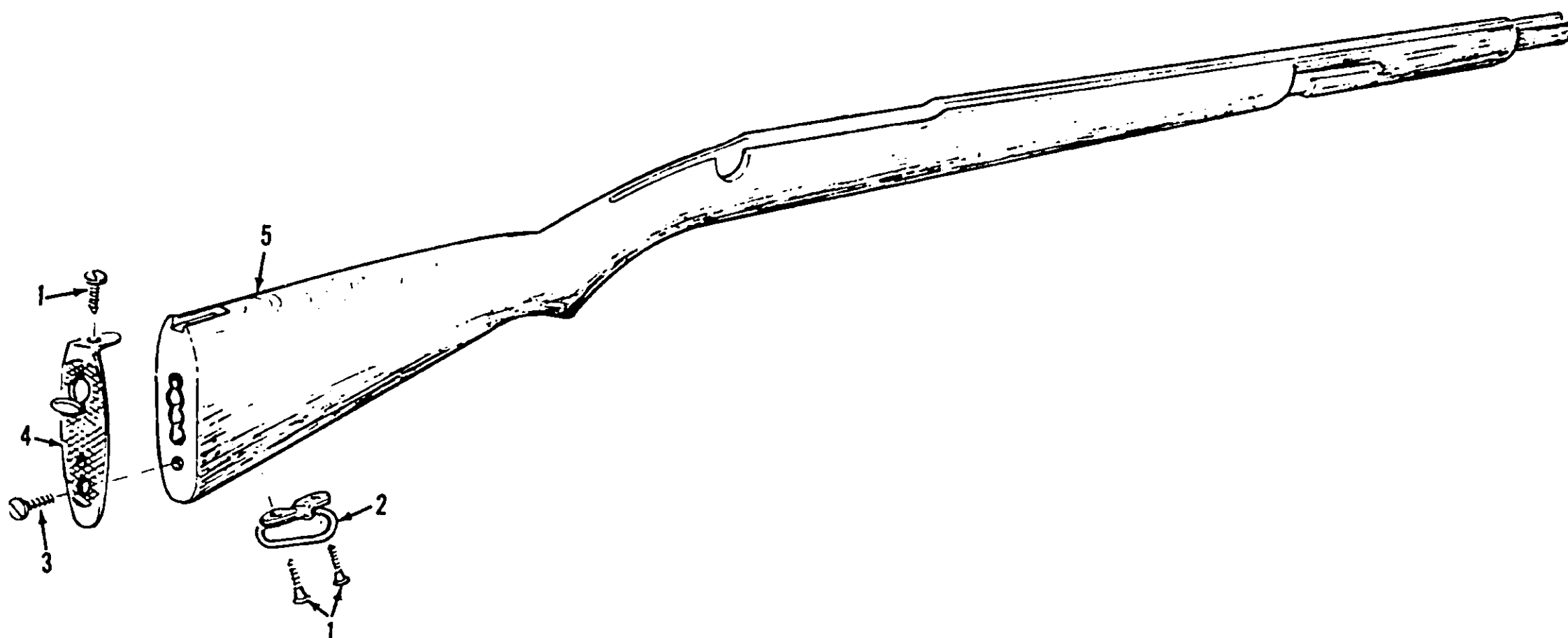
Figure B-2. Barrel and receiver group — exploded view.

NOTE: ITEMS 1 AND 2
ARE NOT TO BE
DISASSEMBLED



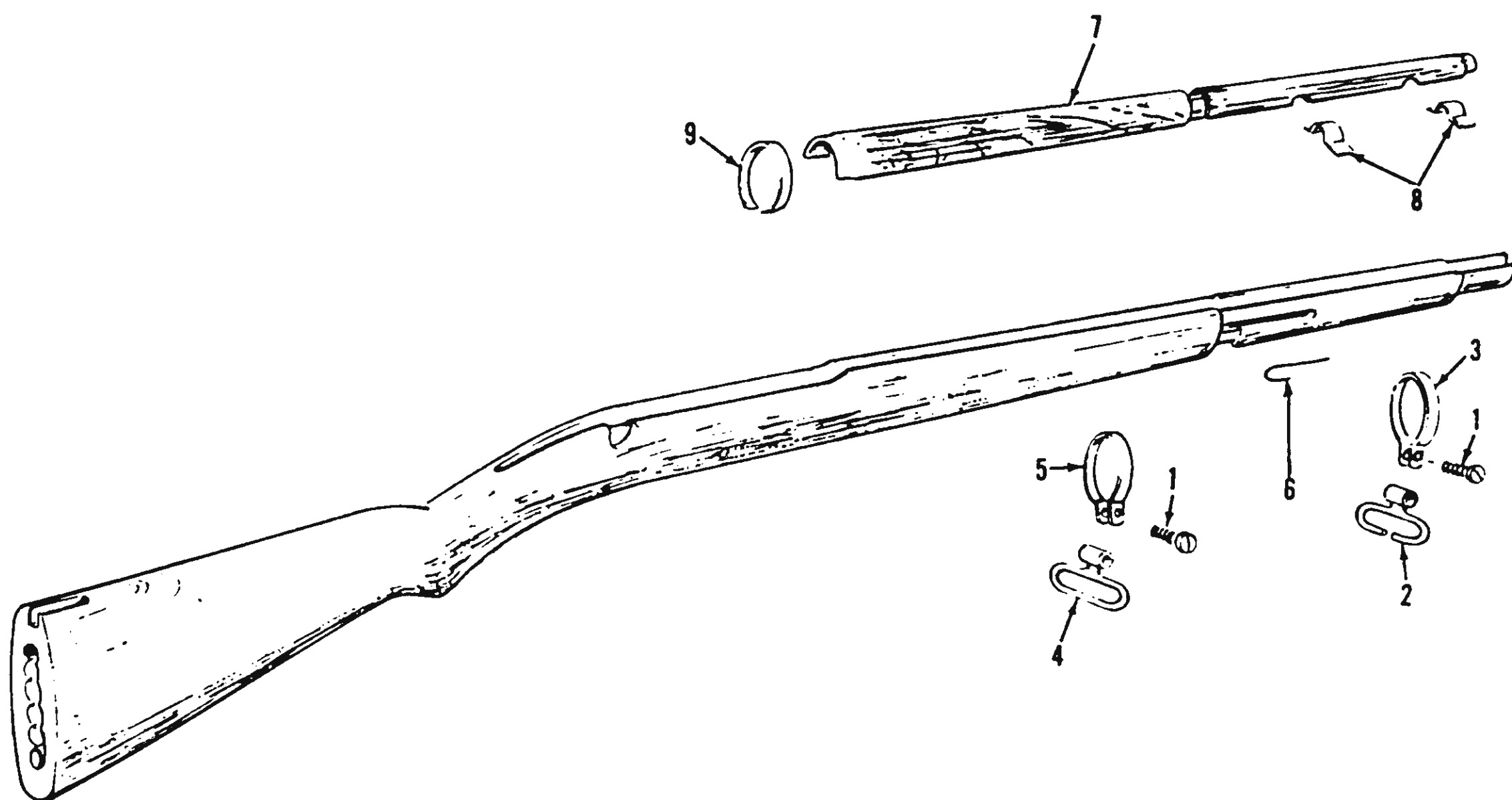
WE 65806

Figure B-3. Caliber .30 rifle — barrel and receiver.



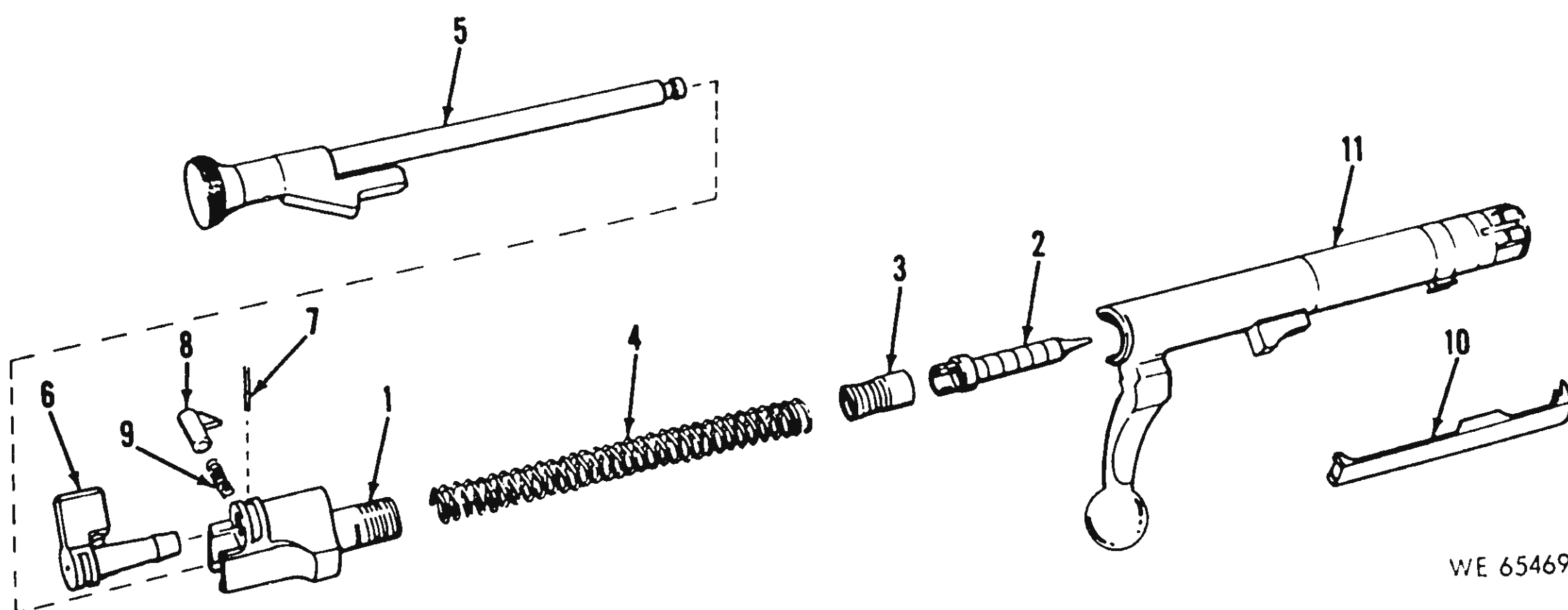
WE 67790

Figure B-4. Stock group — exploded view.



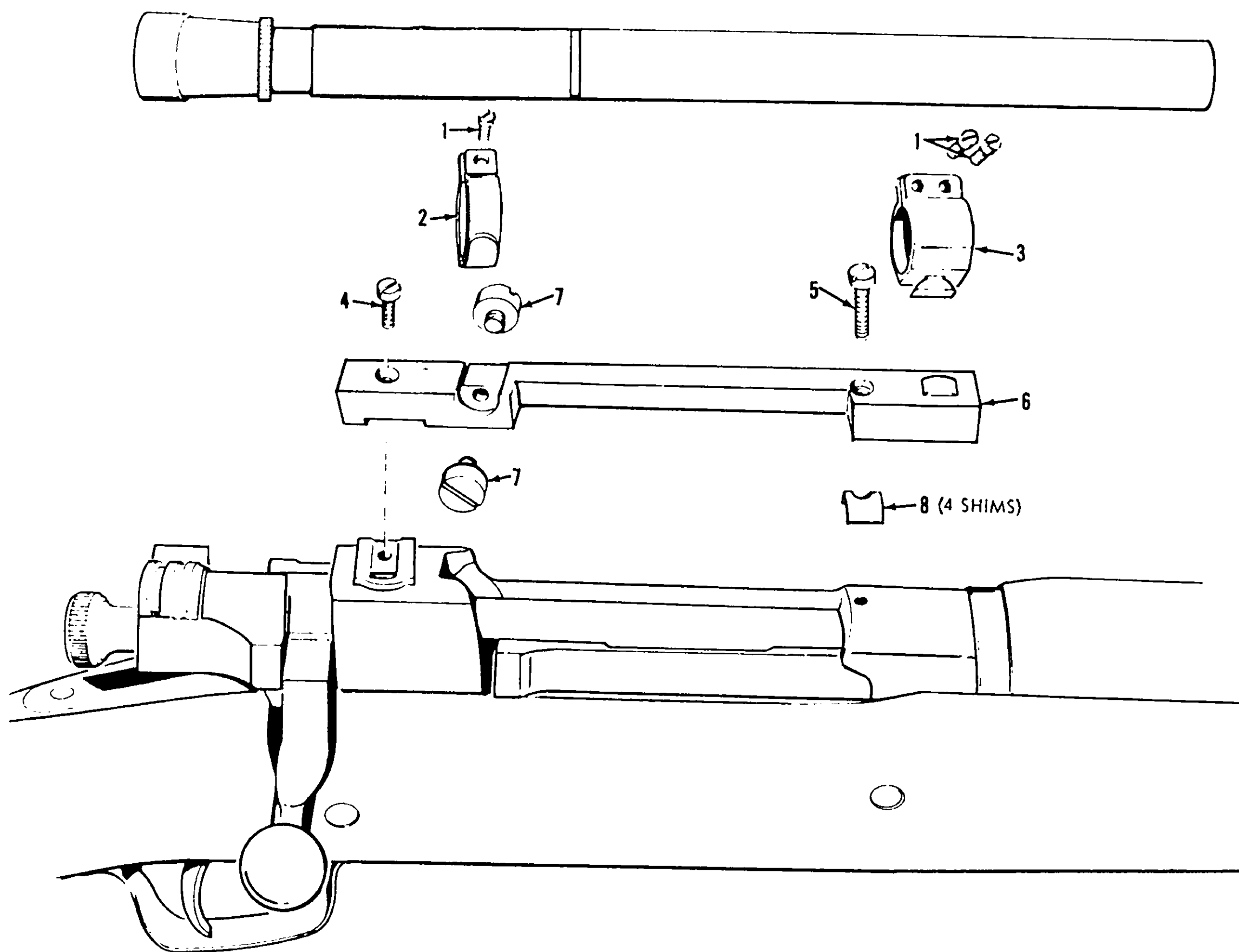
WE 65005

Figure B-5. Stock group — exploded view.



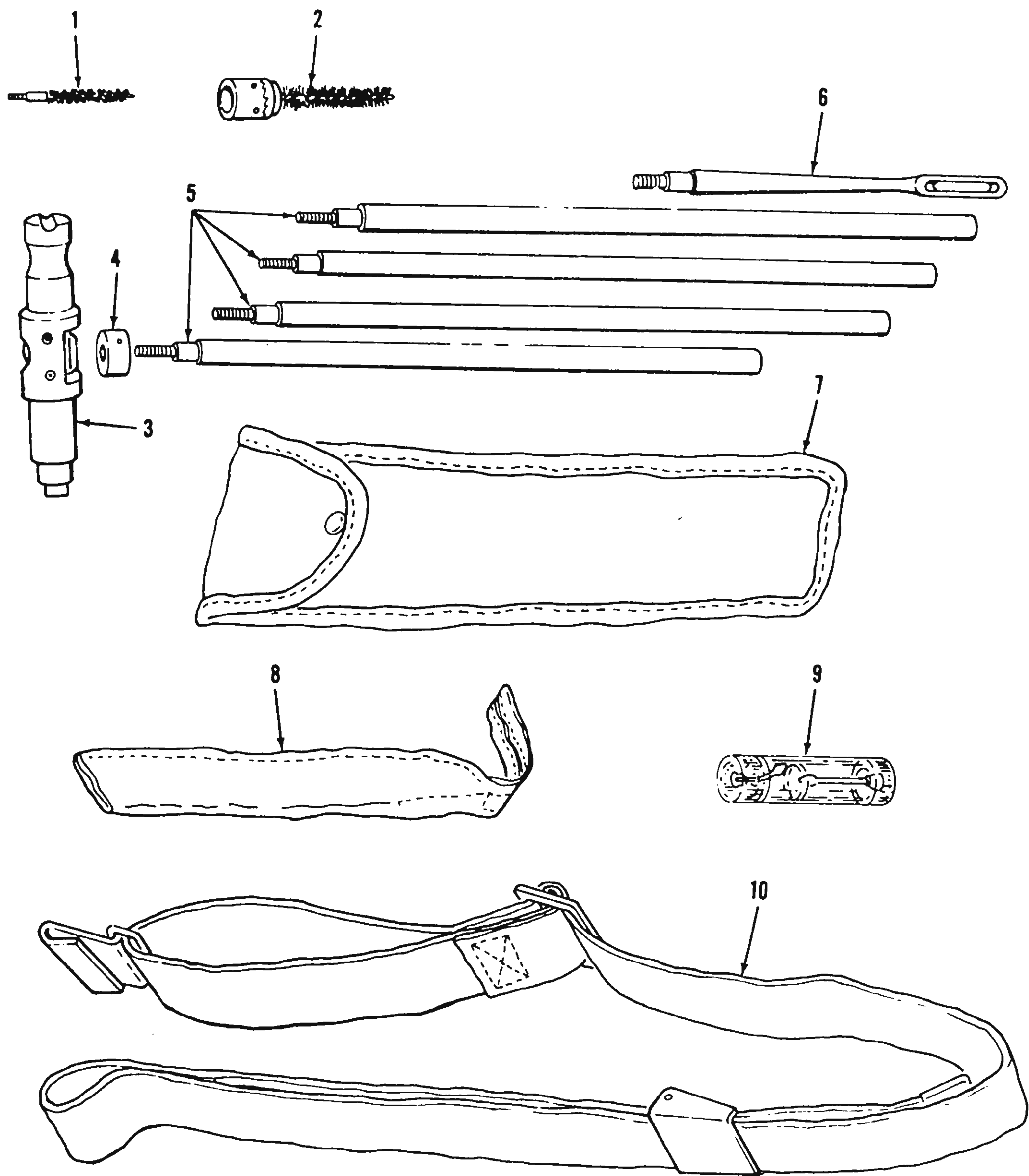
WE 65469

Figure B-6. Bolt group — exploded view.



WE 65581

Figure B-7. Telescope M84, w/attaching hardware.



WE 19663

Figure B-8. Tools and equipment.

Section IV. FEDERAL STOCK NUMBER AND REFERENCE NUMBER

Stock Number	Figure No.	Item No.	Stock Number	Figure No.	Item No.
1005-513-0017	B-2	1	1005-653-5538	B-6	10
1005-513-5893	B-6	8	1005-653-5548	B-4	5
1005-515-3072	B-5	9	1005-654-4058	B-8	10
1005-550-6573	B-8	8	1005-654-4077	B-3	2
1005-554-5034	B-1	4	1005-691-1381	B-8	2
1005-554-6049	B-6	1	1005-694-1662	B-8	4
1005-556-4174	B-8	1	1005-726-5609	B-7	8
1005-556-4394	B-1	3	1005-726-5610	B-7	8
1005-561-3665	B-4	4	1005-726-5611	B-7	8
1005-561-3703	B-7	6	1005-726-5612	B-7	8
1005-600-8759	B-6	6	1005-726-6109	B-8	5
1005-612-8405	B-5	8	1005-726-6110	B-8	6
1005-612-8407	B-2	3	1005-731-0026	B-2	4
1005-612-8408	B-2	12	1005-791-3377	B-8	9
1005-612-8412	B-4	3	1005-793-6761	B-8	3
1005-612-8416	B-2	9	1240-759-7774	I-1	-
1005-612-8417	B-6	3		I-2	-
1005-612-8423	B-5	6	1240-763-1596	B-8	7
1005-612-8425	B-6	2	5305-515-3172	B-7	4
1005-612-8428	B-2	8	5305-515-3173	B-7	5
1005-614-6882	B-2	5	5305-515-3175	B-7	1
1005-614-6886	B-2	10	5305-515-3176	B-7	7
1005-614-6871	B-6	4	5305-612-8413	B-1	1
1005-614-6881	B-6	9	5305-612-8414	B-1	2
1005-614-7752	B-6	5	5305-614-6873	B-4	1
1005-614-7820	B-6	-	5315-513-0009	B-2	6
1005-614-7821	B-7	3	5315-513-0010	B-2	7
1005-614-7822	B-7	2	5315-513-0027	B-2	2
1005-653-5528	B-5	7	5315-513-5897	B-6	7

Reference No.	Mfg Code	Fig. No.	Item No.	Reference No.	Mfg Code	Fig. No.	Item No.
5130002	19204	B-2	11	6128423	19205	B-5	6
5130009	19204	B-2	6	6128425	19205	B-6	2
5130010	19204	B-2	7	6128428	19205	B-2	8
5130017	19205	B-2	1	6146871	19205	B-6	4
5130027	19205	B-2	2	6146873	19205	B-4	1
5135893	19205	B-6	8	6146881	19205	B-6	9
5135897	19204	B-6	7	6146882	19205	B-2	5
5153072	19205	B-5	9	6146886	19205	B-2	10
5153074	19205	B-5	1	6147710	19204	B-4	2
5153083	19205	B-5	4	6147752	19205	B-6	5
5153172	19205	B-7	4	6147820	19205	B-6	
5153173	19205	B-7	5	6147821	19205	B-7	3
5153175	19205	B-7	1	6147822	19205	B-7	2
5153176	19205	B-7	7	6257631	19205	B-5	3
5295819	19205	B-5	2	6535528	19205	B-5	7
5506573	19205	B-8	8	6535538	19205	B-6	10
5545034	19205	B-1	4	6535548	19205	B-4	5
5546049	19205	B-6	1	6544058	19204	B-8	10
5564174	19204	B-8	1	6544077	19205	B-3	2
5564394	19204	B-1	3	7265609	19205	B-7	8
5564396	19205	B-1	5	7265610	19205	B-7	8
5613665	19205	B-4	4	7265611	19205	B-7	8
5613667	19205	B-5	5	7265612	19205	B-7	8
5613703	19205	B-7	6	7266109	19205	B-8	5
5613704	19205	B-6	11	7266110	19204	B-8	6
6008759	19205	B-6	6	7266115	19204	B-8	3
6128405	19205	B-5	8	7268275	19205	B-8	4
6128407	19205	B-2	3	7310026	19205	B-2	4
6128408	19205	B-2	12	7631596	19200	B-8	7
6128412	19205	B-4	3	7667417	19200	I-1	
6128413	19205	B-1	1			I-2	
6128414	19205	B-1	2	7790582	19204	B-8	2
6128416	19205	B-2	9	7790995	19205	B-8	9
6128417	19205	B-6	3				

By Order of the Secretary of the Army:

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

Official:

VERNE L. BOWERS,
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The Adjutant General.

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