CHAPTER 5
REPAIR

Section 1. CARTRIDGE MAGAZINE

24. Removal
Refer to figure 16 for removal of cartridge magazine.

25. Disassembly
Detailed disassembly of cartridge magazine is not necessary for inspection. If any part is unserviceable, replace magazine.

26. Cleaning
Refer to paragraph 19 for cleaning.

27. Inspection
Inspect the exterior of magazine (fig. 17) for burs or other damage. Check for spring tension and for the correct assembly of magazine spring.
Note. Small spring loop must be up and to the front.

28. Installation
Refer to figure 16 for installation of magazine.

Figure 16. Remove/install cartridge magazine.
Section II. BARREL AND SLIDE GROUP

29. Disassembly

Note. White arrows, shown on illustrations, indicate removal or disassembly and black arrows as assembly or installation.

Refer to figures 18 thru 21 for disassembly of barrel and slide group.

Warning: Wherever springs are found to be under tension or pressure, extreme care should be exercised when removing components. Keep the finger and thumb over applicable components to prevent injury to personnel or loss of parts.

30. Cleaning

Refer to paragraph 19 for cleaning.

31. Inspection (fig. 22)

a. Inspect the barrel for burs on the exterior and interior rim of the muzzle. Inspect the barrel for pitting, bulges, and sharpness of lands (figs. 23 through 25).

b. Barrel must be straight as determined visually, clean and free of corrosion.

c. Pits in the chamber are allowable if they are not large enough to cause extraction difficulties.

d. Pits as wide as a land or groove and less than three-eighths inch are allowable. Barrels containing pits as indicated in figures 23 thru 25 will be rejected.

e. Scattered or uniformly fine pits or fine pits in a densely pitted area are allowable. Tool marks or scratches are accepted, regardless of length. Tool marks will appear on lines running laterally in the grooves or may run spirally across the top of lands.

f. Definitely ringed bores or bores ringed sufficiently to bulge the outside
REMOVE/INSTALL RECOIL SPRING PLUG AND SPRING.

RECOIL SPRING PLUG

BARREL BEARING

SLIDE ASSEMBLY

VIEWING MUZZLE END OF PISTOL.

COMPRESS RECOIL SPRING PLUG AND ROTATE BARREL BEARING.

REMOVE INSTALL RECOIL SPRING PLUG AND SPRING.

RECOIL SPRING PLUG

HELICAL SPRING

NOTE: ALINE LUG OF BEARING WITH OPENING IN SLIDE.

A = TURN BEARING CLOCKWISE TO REMOVE, COUNTER-CLOCKWISE TO INSTALL.
B = BEARING POSITIONED FOR INSTALLATION/REMOVING IN SLIDE.

REMOVE/INSTALL BARREL BEARING.

COCK HAMMER FOR REMOVING/INSTALLING SLIDE GROUP.

Figure 18. Disassembly/assembly of barrel and slide group (1 of 4).
Figure 19. Disassembly/assembly of barrel and slide group (2 of 4).
Figure 20. Disassembly/assembly of barrel and slide group (3 of 4).
surface of the barrel are cause for rejection. However, faint rings or shadowy depressions do not indicate unserviceable barrel and should not be cause for rejection.

**g.** Inspect the barrel bearing for burs and excessive wear.

**h.** Inspect slide for breaks or cracks, especially around the ejector port. Inspect the interior grooves and ejector port of slide for excessive wear and burs. Check for loose front or rear sights.

**i.** Inspect the firing pin for wear or shortness. The pin, as manufactured, has an overall length of 2.290 to 2.296 inches.

**j.** Inspect the recoil and firing pin springs for weakness or breakage. The free length of recoil spring should be approximately 6-1/2 inches.

**k.** Examine the extractor for wear, weakness, broken lip or deformation.

**l.** Inspect the recoil spring plug, recoil spring guide, firing pin stop, barrel link and pin for burs and distortions.

32. **Repair**

a. Remove burs on exterior and interior rim of barrel and barrel chamber by using a fine stone.

b. Replace barrel if cracked, bulged or
Figure 22. Barrel and slide group—inspection points.

pits are larger than the width of a land or groove or more than three-eighths inch in length. Also, replace barrel if link lugs are damaged or broken.

c. Replace barrel bearing if worn. Remove burs using a fine stone.

d. Replace barrel link and/or pin if worn, deformed or damaged.

e. Replace worn, damaged or short firing pin.

f. Replace cracked or weak recoil and/or firing pin spring.

g. Replace extractor if worn or lip is broken.

h. Remove burs from recoil spring plug and guide. Replace, if worn or damaged.

i. Replace front or rear sights if damaged to such an extent that the contour of either sight would be insufficient for accurate sighting of weapon.
j. If front sight is loose; restake, using riveting fixture.

k. If rear sight is loose, remove sight, peen top portion of dovetail slot and replace rear sight, using brass drift (fig. 21).

33. Assembly

Refer to figures 18 thru 21 for assembly of barrel and slide group.

Note. When assembling firing pin and recoil springs, small loop of springs will be to the rear.

Section III. RECEIVER GROUP

34. Disassembly

Refer to figures 26 thru 32 for disassembly of receiver group.

35. Cleaning

Refer to paragraph 19 for cleaning of receiver group.

36. Inspection

a. Inspect the trigger for burs and wear (fig. 33). Inspect the half-cock position notch and full-cock notch of hammer for cracks, chips or wear. Make certain the hammer strut is not bent or cracked.

b. Inspect the sear for worn or chipped tips or worn lugs.

c. Inspect the sear spring for broken leaves, cracks and tension.

d. Inspect disconnector for burs and wear.

e. Inspect the grip safety for burs, wear and cracks on the tip which engages the trigger.

f. Inspect the pin portion and lug of safety for wear or damage.

g. Inspect the helical compression housing spring (fig. 34) for cracks and tension.

h. Inspect mainspring cap pin. detent plunger, and straight-headed pin for burs, wear or damage.

i. Inspect for bent or worn mainspring housing pin and spring pin.

j. Inspect slide stop, slide stop plunger and safety plunger for burs, wear or damage.

k. Inspect magazine catch and magazine catch lock for burs and wear. Check magazine catch spring for tension and damage.

l. Inspect helical compression spring (housing) for burs on mating surfaces and lanyard loop for being bent, worn or damaged.

m. Inspect grips for cracks and worn checkering.

n. Inspect the receiver housing (fig. 35) for wear or burs in the slide mating grooves. Inspect the receiver for deformation. Check to see that the plunger tube, ejector, ejector pin and grip screw bushings are not burred or worn. Check the mainspring housing mating grooves in the receiver for burs. Check slide stop notch for oversize or wear.

37. Repair

a. Remove burs from slide mating surfaces of receiver housing and mainspring housing mating surfaces, using a fine stone.

b. Replace slide stop plunger and safety plunger, and ejector if worn or damaged. Replace plunger tube using staking plunger tube tool. Replace all bushings that have been removed from receiver housing, using staking bushing tool.

c. Remove burs from trigger, replace if worn or damaged.

d. Replace hammer if cracked, chipped or worn.

e. Replace hammer strut if bent, cracked, worn or damaged.

f. Replace sear if lugs are worn and tips are worn or chipped.

g. Replace sear spring if leaves are broken or cracked, or tension is weak.

h. Remove burs from disconnector, replace if worn or damaged.

i. Remove burs from grip safety, replace if cracked or worn on tip.

j. Replace safety if worn or damaged.

k. Replace the helical compression
Figure 26. Disassembly/assembly of receiver group (1 of 7).
1. Install mainspring housing pin.
2. Release hammer and position hammer strut into mainspring housing assembly.
3. Slide stop plunger position.
4. Install and position safety.
5. Cock hammer prior to installing safety.
6. Drop hammer strut and install grip safety.
7. Partially install mainspring housing assembly to hold sear spring in position.

Figure 27. Disassembly/assembly of receiver group (2 of 7).
NOTE: WHEN INSTALLING HEAD OF PIN SHOULD BE ON LEFT SIDE.

RAISE HAMMER STRUT AND INSTALL SEAR SPRING.

NOTE: REMOVE PIN FROM LEFT TO RIGHT INSTALL FROM RIGHT TO LEFT.

REMOVE/INSTALL HAMMER STRUT PIN.

SEPARATE/CONNECT HAMMER STRUT AND HAMMER.

DEPRESS SPRING

MAINSPRING HOUSING ASSEMBLY

REMOVE/INSTALL STRAIGHT HEADED PIN.

REMOVE/INSTALL MAINSPRING, CAP PIN, HELICAL COMPRESSION SPRING AND DETENT PLUNGER.

Figure 28. Disassembly/assembly of receiver group (3 of 7).
Figure 29. Disassembly/assembly of receiver group (1 of 7).
Figure 30. Disassembly/assembly of receiver group (5 of 7)
Figure 3. Disassembly/assembly of receiver group (6 of 7).
Figure 38. Disassembly/assembly of receiver group (7 of 7).
spring (housing), if damaged or tension is weak.

1. Remove hurs from mainspring cap pin, detent plunger, and straight headed pin. Replace, if worn or damaged.

m. Replace mainspring housing pin and spring pin if bent or worn.

n. Remove burs from slide stop, slide
stop plunger and safety plunger. Replace, if worn or damaged.

o. Remove burs from magazine catch and magazine catch lock. Replace if worn. Replace magazine catch spring if damaged or tension is weak.

p. Remove burs from the mating surfaces and mainspring housing. Replace lanyard loop if bent or damaged.

q. Replace grips if broken or checkering is worn.

38. **Assembly**

Refer to figures 26 thru 32 for assembling of receiver group.
CHAPTER 6
FINAL INSPECTION

39. General

Pistols turned in for repair may be assumed to have defects caused by use or neglect. When they were accepted as new weapons, the parts composing them were dimensionally correct and made of the proper material. The inspection of these weapons after repair will differ from the inspection procedure used in the manufacturing plant in that attention will be directed to wearing surfaces, parts that might crack or break due to high stress or fatigue, and evidences of corrosion. These defects do not evidence themselves by uniform reduction in a given dimension but show up as a chipped edge, a partially worn surface, or an eccentric hole. A gage used in manufacturing is merely a means of comparing an unknown dimension with a known one to judge whether a piece comes within tolerances. After this piece is worn through use, the change in dimension is more easily detected in many cases by comparing with adjacent surfaces; the piece in itself becomes a gage. Visual inspection, therefore, is far more applicable in these cases and gaging is limited to those dimensions that are critical or that may be more advantageously measured than compared. Inspection of non-critical parts (parts that do not ordinarily cause malfunctions) will be limited to appearance and the presence of cracks or flaws. The dimensions and tolerances placed on the parts (and gaging used during manufacturing) were for the sole purpose of insuring interchangeability. Even if the dimensions of such parts are worn considerably below drawing tolerance, functioning and interchangeability will not be adversely affected and the parts are consequently acceptable. The serviceability of the material must also be determined by conducting inspection as described in paragraphs 13 through 16.

40. Specific Inspection Procedures

a. Visual Inspection. Visual and overall appearance of the pistol should be approximately that of a new weapon. All exposed metal surfaces are to have a phosphate finish. The color will range from black to medium light gray. Bright surfaces are objectionable from standpoint of visibility when they are capable of reflecting light. All outside surfaces will be free of burs or deep scores. Barrels must be straight, clean and free of rust and powder fouling and free from bulges and rings. Pistols must be complete. All applicable modifications must be applied. The serial number must be legible and all parts must be free of rust. Visually inspect the following:

(1) Check front and rear sights, make certain they are tight and properly aligned.
(2) Check for split or damaged plastic grips and loose grip screws.

b. Functional Inspection.
(1) Check functioning of safety. Refer to paragraph 15c(1).
(2) Check functioning of grip safety. Refer to paragraph 15c(2).
(3) Check functioning of hammer or sear. Refer to paragraph 15c(3).
(4) Check functioning of disconnector. Refer to paragraph 15c(4).
(5) Upon completion of inspection, pistols will be properly cleaned and lubricated (paragraphs 19 and 23).

o. Trigger Pull Test. Check the trigger pull using trigger pull measuring fixture (figs. 5 and 36) and in accordance with instructions indicated in (1) and (2) below:
(1) With the safety unlocked, rest the weight on the floor and hook the notched portion of the rod over the center portion of the trigger.

Note. Make certain the rod does not contact or rub any portion of the pistol and that
rod and barrel are parallel. Empty magazine must be installed when checking trigger pull.

(2) Depress grip safety and carefully raise the weight from the floor. When using the 5 pound weight (minimum), the trigger should not release the hammer. When using the 6.5 pound weight (maximum), the trigger should release the hammer.

**Caution:** A slow or steady lift must be utilized to assure a true and accurate check.

d. **Correcting Trigger Pull.**

(1) **Trigger pull too light.** This is evidence of a worn cocking notch on the hammer, worn or damaged sear or a weak helical compression housing spring. Examine the components for wear or damage. If trigger pull cannot be corrected by stoning, replace with new components as required.

(2) **Trigger pull excessive.** This is evidence of burs or surface irregularities on the hammer full-cook notch or sear. A helical housing spring that is damaged or too strong and/or interferences or binding between the mating surfaces of the pertinent parts within the receiver group are other probable causes. If the trigger pull cannot be corrected by stoning, replace with new components as required.

(3) **Creep in trigger.** Creep is defined as a perceptible movement of the trigger after the slack has been taken up and before the hammer is released. It is caused by rough or uneven mating surfaces of the sear, hammer, and disconnector and also by unserviceable sear and hammer pins. If the creep cannot be corrected by stoning, replace with new components as required.

**Caution:** While stoning, critical dimensions should not be altered.

e. **Hand Function Test.**

(1) Place three dummy cartridges in magazine (fig. 37). Insert magazine in receiver group. Release slide stop. This action would cause barrel and slide group to move forward. At the same time, a dummy cartridge will be stripped from magazine into chamber of the weapon.

(2) Release safety (fig. 38).

(3) Squeeze trigger, allowing hammer to fall (fig. 39). Continue test until third cartridge has been ejected from the pistol, simulating dry firing.

(4) When last cartridge is ejected, slide group should remain locked.
in open position by slide stop (fig. 40).

(5) Pistols that fail to meet the re-
quired functioning test will be cor-
rected by replacement of defective components.

Figure 37. Position of hands when loading weapon - left front view.

Figure 38. Hammer cocked – ready to begin function firing.

Figure 39. Weapon in battery position.
in open position by slide stop (fig. 40).

(5) Pistols that fail to meet the re-
quired functioning test will be cor-
rected by replacement of defective
components.

Figure 37. Position of hands when loading
weapon—left front view.

Figure 38. Hammer cocked — ready to begin
function firing.

Figure 39. Weapon in battery position.

Figure 40. Slide group locked in open position
after last cartridge is fired.
CHAPTER 7
PREPARATION AND SHIPPING INSTRUCTIONS

41. Preparation

a. Cleaning. All metal parts shall be thoroughly cleaned by process C-3 of Specification MIL-P-116C. Surfaces of parts subjected to burned powder residues will be cleaned with solvent cleaning compound (PD 126) conforming to Specification MIL-C-372B.

b. Drying. All surfaces will be thoroughly dried by wiping with clean cloths or by blowing the surface with a blast of clean dry compressed air from a line equipped with filter moisture traps.

c. Preservation. Pistols will be coated with a lubricating oil (PL special) making certain all surfaces are covered, including the entire bore of barrel.

d. Packaging. Each pistol will be individually wrapped in a heavy-duty grease-proof paper. All protruding edges will be cushioned, using several thicknesses of grease-proof paper prior to wrapping.

e. Packing. Pack a maximum of 50 pistols in a suitable wood container box. Make certain they are adequately blocked to prevent movement during handling and shipping. After closure, apply two flat steel straps around the box.

Note. For further pertinent information and guidance in preservation, packaging and packing of the above named materiel, refer to TM 38-230.

42. Marking Instructions

Standard and precautionary markings will be applied to boxes as prescribed in TM 9-200.

43. Shipping Instructions

a. Responsibility. When shipping the pistol the officer in charge of preparing the shipment will be responsible for properly processing the materiel for shipment, including the preparation of Army shipping documents.

b. Army Shipping Documents. Prepare all Army shipping documents in accordance with AR 725-50.
APPENDIX

REFERENCES

1. Publication Indexes

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

Military Publications:

- Index of Administrative Publications. DA Pam 310-1
- Index of Army Motion Pictures, Film Strips, Slides, and Phono-Recordings. DA Pam 108-1
- Index of Blank Forms. DA Pam 310-2
- Index of Graphic Training Aids and Devices. DA Pam 310-5
- Index of Supply Manuals: Ordnance Corps. DA Pam 310-29
- Index of Doctrinal, Training, and Organizational Publications. DA Pam 310-3

2. Supply Manuals

The following supply manuals of the Department of the Army supply manuals pertain to this materiel:


3. Forms

The following forms pertain to this materiel.

- DA Form 2028, Recommended Changes to DA Technical Manual Parts Lists or Supply Manual (cut sheet).
- DA Form 2407, Maintenance Request.
- DD Form 6, Report of Damaged or Improper Shipment (cut sheet).

4. Other Publications

The following explanatory publications pertain to this materiel.

a. General

- The Army Equipment Record System and Procedures. TM 38-750
- Military Training. FM 21-5
- Techniques of Military Instruction. FM 21-6
- Military Symbols. FM 21-30
- Military Terms, Abbreviations, and Symbols AR 320-50
- Authorized Abbreviations and Brevity Codes.
b. Cleaning.

Cleaning of Ordnance Materiel .......................... TM 9-208-1
Cleaning and Black Finishing of Ferrous Metals ................... TM 9-1861
Cleaning Compound, Solvent (For Bore of Small Arms and Automatic Aircraft Weapons).
c. Inspection.

Command Maintenance Management Inspections .......................... AR 750-8
Field Inspection and Serviceability Standards for Small Arms Materiel.
d. Issue of Supplies and Equipment.
Requisitioning, Receipts, and Issue System. .......................... AR 725-50
e. Logistics.

Malfunctions Involving Ammunition and Explosives ................... AR 700-1300-8
f. Maintenance of Supplies and Equipment.
Organization Policies and Responsibilities for Maintenance Operations.
g. Packaging and Preservation.
General Packaging Instructions for Ordnance General Supplies ...... TM 9-200
Preservation, Packaging, and Packing of Military Supplies and Equipment.
Preservation, Methods of ....................................... MIL-P-116C
h. Safety.
Accident Reporting and Records ................................. AR 385-40
## INDEX

<table>
<thead>
<tr>
<th>Paragraphs</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assembly of barrel and slide group</td>
<td>33 28</td>
</tr>
<tr>
<td>Assembly of receiver group</td>
<td>38 37</td>
</tr>
<tr>
<td>Barrel and slide group, assembly (See Assembly of barrel and slide group)</td>
<td>29 22</td>
</tr>
<tr>
<td>Barrel and slide group, cleaning</td>
<td>30 22</td>
</tr>
<tr>
<td>Barrel and slide group, disassembly</td>
<td>29 22</td>
</tr>
<tr>
<td>Barrel and slide group, inspection</td>
<td>31 22</td>
</tr>
<tr>
<td>Barrel and slide group, repair</td>
<td>32 26</td>
</tr>
<tr>
<td>Burs, screwheads and working surfaces, removal of</td>
<td>22 19</td>
</tr>
<tr>
<td>Cartridge magazine, cleaning</td>
<td>26 21</td>
</tr>
<tr>
<td>Cartridge magazine, disassembly</td>
<td>25 21</td>
</tr>
<tr>
<td>Cartridge magazine, inspection</td>
<td>27 21</td>
</tr>
<tr>
<td>Cartridge magazine, installation</td>
<td>28 21</td>
</tr>
<tr>
<td>Cartridge magazine, removal</td>
<td>24 21</td>
</tr>
<tr>
<td>Categories of inspection</td>
<td>13 13</td>
</tr>
<tr>
<td>Cleaning</td>
<td>19 18</td>
</tr>
<tr>
<td>Cleaning of barrel and slide group</td>
<td>30 22</td>
</tr>
<tr>
<td>Cleaning of cartridge magazine (See Cartridge magazine, cleaning)</td>
<td>25 21</td>
</tr>
<tr>
<td>Cleaning of receiver group</td>
<td>35 28</td>
</tr>
<tr>
<td>Common tools and equipment</td>
<td>8 7</td>
</tr>
<tr>
<td>Data, tabulated (See Tabulated data)</td>
<td>4 3</td>
</tr>
<tr>
<td>Description</td>
<td>2 2</td>
</tr>
<tr>
<td>Direct and general support maintenance</td>
<td>2 2</td>
</tr>
<tr>
<td>Disassembly of barrel and slide group</td>
<td>29 22</td>
</tr>
<tr>
<td>Disassembly of cartridge magazine</td>
<td>25 21</td>
</tr>
<tr>
<td>Disassembly of receiver group</td>
<td>34 28</td>
</tr>
<tr>
<td>Final inspection, general (See General, final inspection)</td>
<td>38 37</td>
</tr>
<tr>
<td>Finished surfaces</td>
<td>21 19</td>
</tr>
<tr>
<td>Forms, records, and reports</td>
<td>3 2</td>
</tr>
<tr>
<td>Generals, final inspection</td>
<td>39 38</td>
</tr>
<tr>
<td>General, inspecting procedures</td>
<td>14 13</td>
</tr>
<tr>
<td>General, tools and equipment</td>
<td>6 7</td>
</tr>
<tr>
<td>General maintenance</td>
<td>17 18</td>
</tr>
<tr>
<td>General precautions in cleaning</td>
<td>20 19</td>
</tr>
<tr>
<td>General repair methods</td>
<td>18 18</td>
</tr>
<tr>
<td>Improvised tools</td>
<td>10 7</td>
</tr>
<tr>
<td>Inspection, categories of</td>
<td>13 12</td>
</tr>
<tr>
<td>Inspection of barrel and slide group</td>
<td>31 22</td>
</tr>
<tr>
<td>Inspection of cartridge magazine</td>
<td>27 21</td>
</tr>
<tr>
<td>Inspection of material in the hands of troops</td>
<td>15 13</td>
</tr>
<tr>
<td>Inspection of receiver group</td>
<td>36 28</td>
</tr>
<tr>
<td>Inspections, Ordnance shop (See Ordnance shop Inspections)</td>
<td></td>
</tr>
<tr>
<td>Inspection procedures, general (See General inspection procedures)</td>
<td></td>
</tr>
<tr>
<td>Inspection procedures, specific (See Specific inspection procedures)</td>
<td></td>
</tr>
<tr>
<td>Inspection, purpose of</td>
<td>12 12</td>
</tr>
<tr>
<td>Inspection, scope of</td>
<td>11 12</td>
</tr>
<tr>
<td>Installation of cartridge magazine</td>
<td>28 21</td>
</tr>
<tr>
<td>Lubrication</td>
<td>23 19</td>
</tr>
<tr>
<td>Maintenance allocation, direct and genera, support</td>
<td>2 2</td>
</tr>
<tr>
<td>Maintenance, general (See General maintenance)</td>
<td></td>
</tr>
<tr>
<td>Maintenance parts</td>
<td>7 7</td>
</tr>
<tr>
<td>Manual, scope of</td>
<td>2 2</td>
</tr>
<tr>
<td>Marking instructions</td>
<td>42 41</td>
</tr>
<tr>
<td>Materiel in the hands of troops, inspection</td>
<td>15 13</td>
</tr>
<tr>
<td>Ordnance shop inspections</td>
<td>16 15</td>
</tr>
<tr>
<td>Parts, maintenance</td>
<td>7 7</td>
</tr>
<tr>
<td>Precautions in cleaning, general</td>
<td>20 19</td>
</tr>
<tr>
<td>Preparation and shipping instructions</td>
<td>42 41</td>
</tr>
<tr>
<td>Preparation</td>
<td>41 41</td>
</tr>
<tr>
<td>Shipping instructions</td>
<td>43 41</td>
</tr>
<tr>
<td>Preparation instructions, shipping</td>
<td>41 41</td>
</tr>
<tr>
<td>Purpose of inspection</td>
<td>12 12</td>
</tr>
<tr>
<td>Receiver group, assembly</td>
<td>38 37</td>
</tr>
<tr>
<td>Receiver group, cleaning</td>
<td>35 28</td>
</tr>
<tr>
<td>Receiver group, disassembly</td>
<td>34 28</td>
</tr>
<tr>
<td>Receiver group, inspection</td>
<td>36 28</td>
</tr>
<tr>
<td>Receiver group, repair</td>
<td>37 28</td>
</tr>
<tr>
<td>Records and reports, forms</td>
<td>3 2</td>
</tr>
<tr>
<td>Removal of burs, screwheads and working surfaces</td>
<td>22 19</td>
</tr>
<tr>
<td>Removal of cartridge magazine</td>
<td>24 21</td>
</tr>
<tr>
<td>Repair methods, general (See General repair methods)</td>
<td></td>
</tr>
<tr>
<td>Repair of barrel and slide group</td>
<td>32 26</td>
</tr>
<tr>
<td>Repair of receiver group</td>
<td>37 28</td>
</tr>
<tr>
<td>Scope of inspection</td>
<td>11 12</td>
</tr>
<tr>
<td>Scope of manual</td>
<td>3 2</td>
</tr>
<tr>
<td>Shipping instructions</td>
<td>43 41</td>
</tr>
<tr>
<td>Specific tools and equipment</td>
<td>9 7</td>
</tr>
<tr>
<td>Specific inspection procedures</td>
<td>40 38</td>
</tr>
<tr>
<td>Surfaces, finished (See Finished surfaces)</td>
<td></td>
</tr>
<tr>
<td>Tables:</td>
<td></td>
</tr>
<tr>
<td>Improvised tools (table 2)</td>
<td>10 7</td>
</tr>
<tr>
<td>Special tools and equipment (table 1)</td>
<td>9 7</td>
</tr>
<tr>
<td>Troubleshooting (table 3)</td>
<td>16 15</td>
</tr>
<tr>
<td>Tabulated data</td>
<td>5 3</td>
</tr>
<tr>
<td>Tools and equipment, common (See Common tools and equipment)</td>
<td></td>
</tr>
<tr>
<td>Tools and equipment, general (See Generals, tools and equipment)</td>
<td></td>
</tr>
<tr>
<td>Tools and equipment, special (See Special tools and equipment)</td>
<td></td>
</tr>
<tr>
<td>Tools, improvised</td>
<td>10 7</td>
</tr>
</tbody>
</table>
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OS Maj Comd (2) except
USAREUR (3)
USARJ (3)
USAMC (5)
USAWC (60)
USAMICOM (2)
USAMUCOM (2)
USAECOM (2)
USAMCOM (2)
USASMCOM (1)
USATECOM (2)
USAATBD (3)
USAOCDA (2)
OS Base Comd (2)
MDW (2)
LOGCOMD (2)

Army (3) except
Sixth (1)
Corps (2)
USA Corps (2)
Div (2)
Bde (2)
Regt/Gp/BC (2)
Bn (2)
Co/Bty (1) except
Ord Co (2)
Br Svc Sch (2) except
Ord Sch (50)
GENDEP (OS) (1)
Ord Sec, GENDEP (OS) (1)
Army Dep (2) except
Lexington (3)
Tooele (12)
Letterkenny (10)
Ord Dep (OS) (2)
USA Tnl (1)
POE (1)
USAOSA
Ord PG (10)
Arsenals (5)
Springfield Armory (5)
Proc Dist (2)

NG - State AG (3); Units same as Active Army except allowance is one copy to each unit.

USAR: Same as Active Army except allowance is one copy to each unit.

For explanation of abbreviations used. see AR 320-50.