INTENTIONALLY BLANK
1. This Technical Manual (TM), authenticated for Marine Corps use and effective upon receipt, provides information on the Light Machine Gun, 7.62 mm, RPD, NSN: 1005-LL-MC9-0169; TM 8370-50037-IN/4.

2. Submit notice of discrepancies or suggested changes on a NAVMC 10772. The NAVMC may be submitted via the Internet using website https://pubs.ala.usmc.mil/front.htm, scrolling down to the NAVMC 10772 Tracking Program and following instructions provided. It may also be submitted by electronic mail to mbmatcommarcorlogbases@logcom.usmc.mil, or by mailing a paper copy of NAVMC 10772 addressed to: Commanding General, Marine Corps Systems Command, Attn: Assistant Commander Acquisition and Logistics (LOG/TP), 814 Radford Blvd., Suite 20343, Albany, Georgia 31704-0343.

BY DIRECTION OF THE COMMANDANT OF THE MARINE CORPS

OFFICIAL:

MARK T. BRINKMAN
Program Manager, IW, PG-13
Marine Corps Systems Command
Quantico, Virginia

DISTRIBUTION: EDO
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Date of issue for original manual is: 31 March 2010.

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WARNING SUMMARY

This warning summary contains safety warnings that must be understood and applied during operation and maintenance of this equipment. Failure to observe these precautions could result in serious injury or death to personnel.

WARNING

When using carbon removing compound, avoid skin contact. Using gloves and protective equipment is required. If carbon removing compound comes in contact with skin, wash thoroughly with running water. If possible, use a lanolin-based cream after exposure to compound. Failure to follow these warnings may cause injury or death to personnel.

WARNING

Ensure that the weapon is unloaded and that the selector lever is set on SAFE before performing the following procedures. Do not keep live ammunition near the work area. Failure to follow these warnings may cause injury or death to personnel.

WARNING

Before starting an inspection, be sure to clear the weapon. Do not pull the trigger until the weapon has been cleared. Inspect the chamber to ensure that it is empty and no ammunition is in position to be chambered. DO NOT keep live ammunition in the work area. Failure to follow these warnings may cause injury or death to personnel.

WARNING

Ensure the weapon is clear prior to performing the following function checks. If the weapon fails any of the following function checks, attempt to repair it. If the weapon is beyond repair, replace it.
Dry cleaning solvent is flammable and toxic and should be used in a well-ventilated area. The use of rubber gloves is necessary to protect the skin when washing weapon parts. Failure to follow this warning may cause injury or death to personnel.

DO NOT interchange bolt assemblies or locking blocks from one weapon to another without checking for the proper headspace. Refer to WP 0021 00. Failure to follow this warning may cause injury or death to personnel.

Improper cleaning methods and use of unauthorized cleaning solvents may injure personnel and damage equipment. Refer to TM 9-247_, Materials Used for Cleaning, Preserving, Abrading, and Cementing Ordnance Materials and Related Materials Including Chemicals for correct information.

Eye shields must be worn when cleaning with a wire brush. Flying rust and metal particles may cause injury to personnel.

Particles blown by compressed air are hazardous. Use a maximum of 30 psi when cleaning components. DO NOT exceed 15 psi nozzle pressure when drying parts with compressed air. Failure to follow these warnings may result in injury or death to personnel.
WARNING

DO NOT direct compressed air against human skin. Make sure air stream is directed away from the user and other personnel in the area. To prevent injury, the user must wear protective goggles or a face shield. Failure to follow these warnings may result in injury or death to personnel.

WARNING

Always assume that every weapon is loaded until it is determined through visual and physical inspection that it is not. Procedures for clearing and unloading the weapon are outlined in TM 8370-50037-OR/3. Failure to follow this warning may cause injury or death to personnel.

WARNING

DO NOT interchange bolt assemblies from one weapon to another without checking for the proper headspace. Failure to follow this warning may cause injury or death to personnel.

WARNING

The extractor and extractor retaining pin are under spring tension.

WARNING

The cartridge retaining pawl is under spring tension. Use care when removing it and the cartridge retaining pawl retaining pin.
WARNING

The feed pawl is under spring tension. Use care when removing it.

WARNING

Winding the feed pawl will place the feed pawl and feed pawl slide under spring tension.

WARNING

The slide assembly is under spring tension. Use care when working on spring-loaded parts.

WARNING

The drive spring retaining pin is under spring tension and will be released after turning 90 degrees.

WARNING

Use care when installing and unloading spring-loaded parts. DO NOT interchange bolt assemblies from one weapon to another. DO NOT keep live ammunition in the work area. Failure to follow these warnings may cause injury or death to personnel.
WARNING

Ensure the weapon is clear prior to performing the following function check. Refer to TM 8370-50037-OR/3. If the weapon fails any part of the following function check, continued use may cause injury or death to personnel.

WARNING

Before stowing a weapon, be sure to clear the weapon. Refer to TM 8370-50037-OR/3. Inspect the chamber to ensure it is empty and that no ammunition is in position to be chambered. Failure to follow this warning may cause injury or death to personnel.

WARNING

DO NOT store the weapon with live ammunition in the chamber. Always assume that every weapon is loaded until it is determined through visual and physical inspection that it is not. Procedures for clearing and unloading the weapon are outlined in TM 8370-50037-OR/3. Failure to follow these warnings may cause injury or death to personnel.

WARNING

DO NOT keep live ammunition near the work area. Failure to follow this warning may cause injury or death to personnel.
CAUTION SUMMARY

CAUTION

DO NOT use a wire brush to roughen the surfaces. Use a well-ventilated area during cleaning and the application of solid film lubricant (SFL). If SFL comes in contact with moving parts or functioning surfaces of the weapon, remove the SFL immediately by washing the area with dry cleaning solvent.

CAUTION

Do not mix multiple lubricants on the same weapon. The weapon must be cleaned thoroughly when changing from one lubricant to another. Dry cleaning solvent (SD) is recommended for removing the old lubricant before changing to another lubricant.

CAUTION

DO NOT allow CLP or any other solvent to come into contact with telescopic sight lenses or other optical equipment.

CAUTION

Repai red items must be thoroughly cleaned to remove metal and abrasives to prevent them from entering working parts of the weapon.

CAUTION

Lubricate the flat spring and windage adjustment screw before working on them, as they may weld together during firing.

CAUTION

Stake where indicated in Figure 15 ONLY. A maximum of 2 stakes are allowed. Over-staking will render the upper receiver unserviceable.

CAUTION

Be careful not to break the rear sight assembly during removal.

CAUTION

When pushing the bolt closed during headspace gaging, be sure to use LIGHT pressure. Failure to do so may damage the weapon or gage.
U.S. MARINE CORPS TECHNICAL MANUAL

ORGANIZATIONAL MAINTENANCE MANUAL
WITH REPAIR PARTS LIST

FOR

LIGHT MACHINE GUN, 7.62 MM, RPD
NSN: 1005-LL-MC9-0169
P/N TBD

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DESTRUCTION NOTICE: DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENTS.

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INTRODUCTION

1. This manual contains operating instructions, maintenance procedures, and troubleshooting procedures for the RPD light machine gun. It is divided into five chapters.

2. This manual is written in work package format:
   a. Chapters divide the manual into major categories of information (e.g., General Information, Equipment Description and Data, and Principles of Operation).
   b. Each chapter is divided into work packages, which are identified by a 6-digit number (e.g., 0001 00, 0002 00) located at the upper right-hand corner of each page. The work package page number (e.g., 0001 00-1, 0001 00-2) is centered at the bottom of each page.
   c. If a change package is issued to this manual, added work packages will use the 5th and 6th digits of their numbers to indicate new material. For instance, work packages inserted between WP 0001 00 and WP 0002 00 are numbered WP 0001 01, WP 0001 02.

3. This manual should be read from beginning to end to become familiar with its organization and contents before you attempt to operate or maintain the equipment.

CONTENTS OF THIS MANUAL

1. A Warning Summary and a Caution Summary are located at the beginning of this manual. Become familiar with these warnings and cautions before operating or maintaining the equipment.

2. A Table of Contents, located in the front of this manual, lists all chapters and work packages in the publication. If you cannot find what you are looking for in the Table of Contents, refer to the alphabetical Index at the back of the manual.

3. Chapter 1, General Information, Equipment Description and Data, and Principles of Operation, provides general information about the equipment, identifies the major components and systems, and describes how the components and systems work.

4. Chapter 2, Troubleshooting, provides symptoms and procedures pertaining to failures that could occur during operation of the RPD.

5. Chapter 3, Organizational Maintenance, which includes Preventive Maintenance Checks and Services (PMCS) and General Maintenance Instructions, provide procedures to maintain the RPD at the maintenance level.

6. Chapter 4, Auxiliary Equipment, which includes information on the equipment used with the RPD.

7. Chapter 5, Supporting Information, provides information pertaining to references, components listing, and an expendable and durable items list.

8. An alphabetical Index is located at the back of this manual.
FEATURES OF THIS MANUAL

1. This manual contains information on operating and maintaining the RPD light machine gun.

2. WARNINGS, CAUTIONs, NOTEs, subject headings, and other important information are highlighted in BOLD print as a visual aid.

   **WARNING**

   A WARNING indicates a hazard which may result in injury or death to personnel.

   **CAUTION**

   A CAUTION is a reminder of safety practices or directs attention to usage practices that may result in damage to equipment.

   **NOTE**

   A NOTE is a statement containing information that will make the procedures easier to perform.

3. Statements and words of particular interest may be printed in CAPITAL LETTERS to create emphasis.

4. Within a procedural step, reference may be made to another chapter or work package in this manual or to another manual. These references indicate where you should look for more complete information. If you are told: “Clean all parts. Refer to WP 0009 00”, go to WP 0009 00 in this manual for instructions.

5. Illustrations are placed after, and as close to, the procedural steps to which they apply. Callouts placed on art are text or numbers.

END OF WORK PACKAGE
CHAPTER 1

GENERAL INFORMATION, EQUIPMENT DESCRIPTION AND DATA, AND PRINCIPLES OF OPERATION
GENERAL INFORMATION

SCOPE

2. **Equipment Name and Model Number.** RPD light machine gun (NSN: 1005-LL-MC9-0169).

3. **Purpose of Equipment.** To provide personnel with the offensive and defensive capability to engage targets with automatic fire and suppressing fire.

MAINTENANCE FORMS, RECORDS, AND REPORTS
The Marine Corps forms and procedures used for equipment maintenance will be those prescribed by the current edition of TM 4700-15/1, *Ground Equipment Record Procedures.*

CORROSION PREVENTION AND CONTROL
Corrosion prevention on any piece of equipment is important and it is critically important for the safe functioning of a weapons system. Carry out corrosion prevention and control (CPC) in accordance with TM 4795-12/1, *Organizational Corrosion Prevention and Control Procedures for USMC Equipment.*

While corrosion is typically associated with the rusting of metals, it can also include the deterioration of other materials such as rubber, wood, and plastic. Unusual cracking, softening, swelling, or breaking of these materials may be a corrosion problem.

DESTRUCTION INSTRUCTION TO PREVENT ENEMY USE
Follow the procedures in TM 750-244-7, *Procedures for Destruction of Equipment,* for the destruction of the RPD light machine gun to prevent enemy use.

PREPARATION FOR STORAGE AND SHIPMENT
1. Follow the procedures outlined in MCO P4450.7, *Preparation for Storage.* Prior to storing or shipping, ensure that the weapon is thoroughly cleaned as outlined in WP 0009 00.

2. **Storage Procedures.**
   a. Ensure that the weapon is void of live ammunition.
   b. Inspect the chamber and bore while applying a medium coat of Cleaner, Lubricant, and Preservative (CLP).
   c. Apply a light coat of CLP over all the weapon’s metal surfaces to provide corrosion protection and extra lubrication. Ensure that the CLP does not come into contact with any optical devices including telescopic sight pieces.

QUALITY OF MATERIAL
All material used to repair, replace, or modify the weapon must meet the requirements of this manual. If the quality of material requirements is not stated in this manual, the material must meet the requirements of the drawings, standards, specifications, or approved engineering change proposals applicable to the subject equipment.
SAFETY, CARE, AND HANDLING

Read the Warning Summary and Caution Summary at the front of this manual and pay close attention to the warnings and cautions that appear where special care and attention are required. For ammunition care and handling, refer to PAM 385-64, Ammunition and Explosives Safety Standards.

LIST OF ABBREVIATIONS/ACRONYMS

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ISSUE AND RECOVERY OF INDIVIDUAL WEAPONS

Weapons will be issued and recovered in the same manner as other individual weapons. NAVMC 10576, Memorandum Receipt for Individual Weapons and Accessories, will be used as the issue document. NAVMC 10520, Weapon Custody Receipt Card, will be used when the weapon is drawn from the armory for use. Detailed instructions for using these forms are contained in TM 4700-15/1, Ground Equipment Record Procedures.

END OF WORK PACKAGE
DESCRIPTION

1. **General.** The RPD light machine gun is a 7.62 x 39 mm, fully automatic, air-cooled, gas-operated, belt-fed, open bolt weapon.

2. **Capabilities.** Provides personnel the offensive and defensive capability to engage targets with machine gun fire and provide suppressing fire.

3. **Left Side View.** The left side view of the weapon displays the bipod assembly, barrel, gas block, forward sling swivel, handguards, drum, feed tray cover, trigger, cleaning rod, and rear sling swivel. Refer to Figure 1.

![Figure 1. Left Side View of the RPD Light Machine Gun.](image)

4. **Right Side View.** The right side view of the weapon displays the front sight assembly, gas regulator, drum release, rear sight assembly, charging handle, selector lever, feed tray cover release latch, and buttstock. Refer to Figure 2.

![Figure 2. Right Side View of the RPD Light Machine Gun.](image)
LOCATION AND DESCRIPTION OF MAJOR COMPONENTS

Refer to Figure 3.

1. **Upper Receiver and Barrel Assembly.** Includes the thread protector, barrel, front sight assembly, bipod assembly, gas regulator, gas block, handguards, gas tube, feed tray and feed tray cover assembly, rear sight assembly, drum release, and charging handle.

2. **Feed Tray and Feed Tray Cover Assembly.** Feeds the linked ammunition belt and positions cartridges for stripping and chambering.

3. **Lower Receiver and Buttstock Assembly.** Contains the trigger, sear, sear spring, selector lever, and buttstock assembly.

4. **Drive Rod Assembly.** Propels the bolt and operating rod assembly forward during the cycle of operations. It includes the drive rod and drive spring, which are not disassembled, and the drive spring retaining pin.

5. **Bolt and Operating Rod Assembly.** Contains the operating rod (which consists of the gas piston, bolt carrier, and roller), locking blocks, and bolt assembly. It provides feeding, stripping, chambering, firing, and extraction of the cartridges using the projectile propelling gas for power.

6. **Bipod Assembly.** Can be unfolded to serve as a support for the RPD light machine gun when used in ground applications or folded for easier transportation.

7. **Cleaning Rod.** Is stored on the left side of the receiver and is used to conduct preventive maintenance.

8. **Drum.** The drum has a 100 round capacity and uses a reusable, non-disintegrating metal link ammunition belt. It attaches to the drum release on the bottom of the upper receiver.
Figure 3. Major Components of the RPD Light Machine Gun.
Table 1. RPD Light Machine Gun Data.

<table>
<thead>
<tr>
<th>RPD Light Machine Gun Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Caliber</td>
</tr>
<tr>
<td>Weight:</td>
</tr>
<tr>
<td>RPD</td>
</tr>
<tr>
<td>RPD with Drum and Belt of 100 Rounds</td>
</tr>
<tr>
<td>Length:</td>
</tr>
<tr>
<td>RPD</td>
</tr>
<tr>
<td>Barrel Length</td>
</tr>
<tr>
<td>Sights:</td>
</tr>
<tr>
<td>Front</td>
</tr>
<tr>
<td>Rear</td>
</tr>
<tr>
<td>Drum Capacity</td>
</tr>
<tr>
<td>Modes of Fire</td>
</tr>
<tr>
<td>Maximum Effective Range</td>
</tr>
<tr>
<td>Muzzle Velocity</td>
</tr>
<tr>
<td>Rate of Fire (Approx.):</td>
</tr>
<tr>
<td>Sustained</td>
</tr>
<tr>
<td>Rapid</td>
</tr>
<tr>
<td>Cyclic</td>
</tr>
<tr>
<td>Practical Rate of Fire</td>
</tr>
</tbody>
</table>

END OF WORK PACKAGE
PRINCIPLES OF OPERATION

GENERAL
The 7.62 x 39 mm RPD light machine gun:

1. Is gas-operated.
2. Fires in full automatic (FIRE) mode only.
3. Fires from the open bolt position.

CYCLE OF OPERATION
The cycle of operation is similar in all small arms. Knowledge of what happens during the cycle of operations will help both the operators and the maintainers understand the cause of and remedy for various stoppages.

NOTE
The cycle of operation begins at any of the following eight steps.

1. Eight Steps. The cycle of operation contains eight steps:
   a. Feeding
   b. Chambering
   c. Locking
   d. Firing
   e. Unlocking
   f. Extracting
   g. Ejecting
   h. Cocking

2. Description of Eight Steps. These eight steps are explained below, together with a brief description of what occurs inside the machine gun during each step. Assume that a belt of ammunition is inserted on top of the feed tray.
   a. Feeding. When the operating rod moves rearward from the forward position (either due to the operator pulling the charging handle to the rear or due to the force of expanding gas from a fired round) the roller on the operating rod moves the feed tray cover levers, which move the feed pawl to the left over the next round of ammunition in the belt. When the trigger is pulled, it pushes the sear down, disengaging it from the operating rod, or the trigger is held to the rear, holding the sear down. With the sear down, the operating rod is driven forward by the drive rod assembly. The roller on the operating rod moves the feed tray cover levers, which move the feed pawl to the right, pulling the next round of ammunition over the hole in the feed tray.
b. **Chambering.** As the bolt moves forward, the top of the bolt forces the round that is positioned over the hole in the feed tray forward and down out of the belt, in front of the bolt face, and toward the chamber. Chambering is completed when the round is fully seated in the chamber and the extractor is engaged in the extraction groove at the base of the round.

c. **Locking.** As the operating rod moves forward, the bolt assembly and locking blocks ride in grooves in the operating rod. When the bolt face strikes the chamber, its forward motion stops. The operating rod continues forward and the grooves in the operating rod act on the cams of the locking blocks, forcing the rear of the locking blocks away from the bolt and against the receiver, and the front of the locking blocks are pressed against the bolt, locking the bolt.

d. **Firing.** After the bolt is locked by the locking blocks, the operating rod continues forward until the anvil of the operating rod strikes the firing pin in the bolt, driving in into the primer of the chambered round, detonating it. This ignites the powder in the cartridge. The expanding gas resulting from this explosion propels the bullet forward and out of the barrel.

e. **Unlocking.** As the bullet passes through the barrel and over the gas port, some of the gas is forced through the gas block. This gas pushes the gas piston at the front of the operating rod, forcing the operating rod rearward. As the operating rod moves to the rear, the grooves in the operating rod act on the cams of the locking blocks forcing the rear of the locking blocks behind the bolt and unlocking the bolt allowing the operating rod to pull the bolt to the rear.

f. **Extracting.** As the bolt moves to the rear, the extractor holds the base of the cartridge case against the bolt face. Extraction is completed when the front of the cartridge case clears the rear of the chamber.

g. **Ejecting.** As the bolt moves to the rear, the cartridge is held against the bolt face by the extractor. The base of the cartridge strikes the fixed ejector on top of the upper receiver. The extractor serves as a pivot point for the cartridge, which is deflected down and out of the ejection port in the bottom of the receiver.

h. **Cocking.** As the operating rod moves to the rear, with the trigger released, the bottom portion of the operating rod rides over the sear. The sear then comes up under spring tension and engages the sear notch in the bottom of the operating rod, holding the operating rod to the rear in the open position, under spring tension from the drive spring, and the weapon is ready to fire again.

**END OF WORK PACKAGE**
CHAPTER 2
TROUBLESHOOTING
GENERAL
This section contains troubleshooting information for locating and correcting malfunctions that may occur with the RPD light machine gun.

The Troubleshooting Symptom Index (WP 0005 00) is a quick reference aid in troubleshooting the weapon. Table 1 in Troubleshooting Procedures (WP 0006 00) lists possible malfunctions, tests, or inspections, and corrective actions taken for troubleshooting the RPD light machine gun at the organizational level. Perform the tests, inspections, and corrective actions in the order shown in the table, except when the malfunction and cause are obvious. This manual cannot list all of the possible malfunctions, tests or inspections, and corrective actions of the RPD light machine gun.

END OF WORK PACKAGE
INTRODUCTION

Refer to Table 1 in *Troubleshooting Procedures* (WP 0006 00) for malfunctions, tests or inspections, and corrective actions. The malfunction/symptom index below is a quick reference of the malfunctions that are covered in the table.

<table>
<thead>
<tr>
<th>Malfunction/Symptom</th>
<th>Troubleshooting Procedure Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Failure of Drum to Lock on the Weapon</td>
<td>0006 00-1</td>
</tr>
<tr>
<td>2. Failure to Feed</td>
<td>0006 00-1</td>
</tr>
<tr>
<td>3. Failure to Chamber</td>
<td>0006 00-1</td>
</tr>
<tr>
<td>4. Failure to Lock</td>
<td>0006 00-2</td>
</tr>
<tr>
<td>5. Failure to Fire</td>
<td>0006 00-2</td>
</tr>
<tr>
<td>6. Failure to Unlock</td>
<td>0006 00-3</td>
</tr>
<tr>
<td>7. Failure to Extract</td>
<td>0006 00-3</td>
</tr>
<tr>
<td>8. Failure to Eject</td>
<td>0006 00-4</td>
</tr>
<tr>
<td>9. Failure to Cock or Runaway Gun</td>
<td>0006 00-4</td>
</tr>
<tr>
<td>10. Short Recoil</td>
<td>0006 00-5</td>
</tr>
<tr>
<td>11. Machine Gun Cannot be Zeroed</td>
<td>0006 00-7</td>
</tr>
<tr>
<td>12. Failure to Cycle with Selector Lever Set on FIRE</td>
<td>0006 00-7</td>
</tr>
<tr>
<td>13. Weapon Fires with Selector Lever on SAFE</td>
<td>0006 00-8</td>
</tr>
<tr>
<td>14. Bolt and Operating Rod Assembly Fails to Lock to Rear when Weapon is on FIRE</td>
<td>0006 00-8</td>
</tr>
</tbody>
</table>

END OF WORK PACKAGE
# TROUBLESHOOTING PROCEDURES

## GENERAL

Table 1 lists possible malfunctions, tests or inspections and corrective action taken for troubleshooting the RPD light machine gun. All malfunctions are at the organizational level.

Table 1. Troubleshooting Procedures.

<table>
<thead>
<tr>
<th>Malfunction/Symptom</th>
<th>Probable Cause</th>
<th>Corrective Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Failure of drum to lock on the weapon.</td>
<td>a. Defective drum. Refer to Figure 1.</td>
<td>Replace the drum.</td>
</tr>
<tr>
<td></td>
<td>b. Drum release is dirty, corroded, has no spring tension, or is unserviceable.</td>
<td>Clean or attempt to repair the drum release. If beyond repair, replace the weapon.</td>
</tr>
<tr>
<td>2. Failure to feed.</td>
<td>a. Dirty or corroded ammunition.</td>
<td>Clean or replace the ammunition.</td>
</tr>
<tr>
<td></td>
<td>b. Defective drum.</td>
<td>Replace the drum.</td>
</tr>
<tr>
<td></td>
<td>c. Drum not fully seated.</td>
<td>Fully seat drum onto weapon.</td>
</tr>
<tr>
<td></td>
<td>d. Short recoil.</td>
<td>Refer to Short Recoil in this table (#10).</td>
</tr>
<tr>
<td></td>
<td>e. Incorrectly assembled, dirty, or defective feed tray and feed tray cover assembly.</td>
<td>Assemble correctly, clean, or replace parts of the feed tray and feed tray cover assembly. Refer to WP 0013 00.</td>
</tr>
<tr>
<td>3. Failure to chamber.</td>
<td>a. Dirty or defective ammunition.</td>
<td>Clean or replace the ammunition.</td>
</tr>
<tr>
<td></td>
<td>b. Excessive carbon in the chamber, gas tube, or gas block.</td>
<td>Clean the chamber, gas tube, or gas block. Refer to TM 8370-50037-OR/3.</td>
</tr>
<tr>
<td></td>
<td>c. Bent or defective operating rod. Refer to Figure 2.</td>
<td>Replace the operating rod.</td>
</tr>
</tbody>
</table>

![Figure 1. Drum.](image1.png)

![Figure 2. Operating Rod](image2.png)
Table 1. Troubleshooting Procedures – Continued.

<table>
<thead>
<tr>
<th>Malfunction/Symptom</th>
<th>Probable Cause</th>
<th>Corrective Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Failure to lock.</td>
<td>a. Dirty, burred, or defective locking blocks or operating rod.</td>
<td>Remove any burrs. Clean the locking blocks or operating rod. Refer to TM 8370-50037-OR/3. Replace if necessary.</td>
</tr>
<tr>
<td></td>
<td>b. Short recoil.</td>
<td>Refer to Short Recoil in this table (# 10).</td>
</tr>
<tr>
<td></td>
<td>c. Improperly installed extractor or extractor spring.</td>
<td>Assemble correctly. Refer to WP 0011 00.</td>
</tr>
<tr>
<td></td>
<td>d. Bent or defective operating rod.</td>
<td>Replace the operating rod. Refer to WP 0011 00.</td>
</tr>
<tr>
<td></td>
<td>e. Bent or broken drive rod assembly (drive rod, drive spring, and drive spring retaining pin) or weak drive spring. Refer to Figure 3.</td>
<td>Replace the drive rod assembly. Refer to WP 0010 00.</td>
</tr>
<tr>
<td></td>
<td>f. Unserviceable upper receiver.</td>
<td>Replace weapon.</td>
</tr>
</tbody>
</table>

![Drive Rod Assembly](image)

Figure 3. Drive Rod Assembly.

| 5. Failure to fire.       | a. Excessive carbon in bolt assembly.                | Clean the firing pin and firing pin recess. Refer to TM 8370-50037-OR/3.            |
|                           | b. Firing pin retaining pin incorrectly installed.   | Correctly install the firing pin retaining pin. Refer to WP 0011 00.               |
|                           | c. Broken, defective, or missing firing pin.         | Replace the firing pin. Refer to WP 0011 00.                                       |
|                           | d. Bolt assembly incorrectly assembled.             | Assemble the bolt assembly correctly. Refer to WP 0011 00.                          |
|                           | e. Weapon incorrectly assembled.                    | Assemble the weapon correctly. Refer to WP 0010 00.                                |
|                           | f. Short recoil.                                    | Refer to Short Recoil in this table (#10).                                        |

![Firing Pin](image)

Figure 4. Firing Pin.
Table 1. Troubleshooting Procedures – Continued.

<table>
<thead>
<tr>
<th>Malfunction/Symptom</th>
<th>Probable Cause</th>
<th>Corrective Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>6. Failure to unlock.</td>
<td>a. Burred or defective bolt and operating rod assembly (operating rod, bolt assembly, and locking blocks). Refer to Figure 5.</td>
<td>Remove burrs or replace the bolt assembly, operating rod, or locking blocks. Refer to WP 0011 00.</td>
</tr>
<tr>
<td></td>
<td>b. Short recoil.</td>
<td>Refer to Short Recoil in this table (#10).</td>
</tr>
<tr>
<td>7. Failure to extract.</td>
<td>a. Defective extractor retaining pin, extractor, plunger, or extractor spring. Refer to Figure 6.</td>
<td>Replace the extractor retaining pin, extractor, plunger, or extractor spring. Refer to WP 0011 00.</td>
</tr>
<tr>
<td></td>
<td>b. A cartridge is lodged in the barrel due to bad ammunition or excessive barrel erosion.</td>
<td>Remove the cartridge. Check the quality of ammunition. Gage the barrel to check for excessive barrel erosion. Replace the weapon if necessary. Refer to WP 0021 00.</td>
</tr>
<tr>
<td></td>
<td>c. Short recoil.</td>
<td>Refer to Short Recoil in this table (# 10).</td>
</tr>
</tbody>
</table>

Figure 5. Bolt and Operating Rod Assembly.

Figure 6. Extractor Spring, Plunger, and Extractor.
Table 1. Troubleshooting Procedures – Continued.

<table>
<thead>
<tr>
<th>Malfunction/Symptom</th>
<th>Probable Cause</th>
<th>Corrective Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>8. Failure to eject.</td>
<td>a. Defective ejector. Refer to Figure 7.</td>
<td>Replace the weapon.</td>
</tr>
<tr>
<td></td>
<td>b. Short recoil.</td>
<td>Refer to Short Recoil in this table (# 10).</td>
</tr>
<tr>
<td>9. Failure to cock or runaway</td>
<td>a. Short recoil.</td>
<td>Refer to Short Recoil in this table (# 10).</td>
</tr>
<tr>
<td>gun.</td>
<td>b. Defective or broken sear spring, sear, or trigger. Refer to Figure 8.</td>
<td>Replace sear spring, sear, or trigger. Refer to WP 0015 00.</td>
</tr>
</tbody>
</table>

![Figure 7. Ejector on Top of the Upper Receiver.](image)

![Figure 8. Sear Spring, Sear, and Trigger.](image)
Table 1. Troubleshooting Procedures – Continued.

<table>
<thead>
<tr>
<th>Malfunction/Symptom</th>
<th>Probable Cause</th>
<th>Corrective Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>10. Short recoil.</td>
<td>a. Weak or damaged drive spring. Refer to Figure 9.</td>
<td>Replace the drive rod and drive spring. Refer to WP 0010 00.</td>
</tr>
<tr>
<td></td>
<td>b. Lack of lubrication or dirty drive rod assembly or bolt and operating rod assembly. Refer to Figure 9 and Figure 10.</td>
<td>Clean and lubricate the drive rod assembly or bolt and operating rod assembly. Refer to TM 8370-50037-OR/3.</td>
</tr>
<tr>
<td></td>
<td>c. Incorrectly assembled bolt and operating rod assembly.</td>
<td>Assemble correctly. Refer to WP 0011 00.</td>
</tr>
<tr>
<td></td>
<td>d. Broken or defective gas tube or gas block. Refer to Figure 11.</td>
<td>Replace the weapon. Refer to WP 0012 00.</td>
</tr>
</tbody>
</table>

Figure 9. Drive Rod Assembly.

Figure 10. Bolt and Operating Rod Assembly.

Figure 11. Gas Tube and Gas Block.
Table 1. Troubleshooting Procedures – Continued.

<table>
<thead>
<tr>
<th>Malfunction/Symptom</th>
<th>Probable Cause</th>
<th>Corrective Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>10. Short recoil - Cont.</td>
<td>e. Improper setting of the gas regulator.</td>
<td>Adjust the setting of the gas regulator.</td>
</tr>
<tr>
<td></td>
<td>f. Dirty, incorrectly installed, or defective gas</td>
<td>Clean and correctly install. Replace if necessary. Refer to</td>
</tr>
<tr>
<td></td>
<td>regulator or gas regulator screw. Refer to Figure 12.</td>
<td>WP 0012 00.</td>
</tr>
<tr>
<td></td>
<td>g. Carbon build-up in the barrel, gas tube, or gas</td>
<td>Remove carbon build-up by soaking the barrel in carbon removing</td>
</tr>
<tr>
<td></td>
<td>block.</td>
<td>compound.</td>
</tr>
</tbody>
</table>

Figure 12. Gas Regulator and Gas Regulator Screw.

WARNING

When using carbon removing compound, avoid skin contact. Using gloves and protective equipment is required. If carbon removing compound comes in contact with skin, wash thoroughly with running water. If possible, use a lanolin-based cream after exposure to compound. Failure to follow these warnings may cause injury or death to personnel.
Table 1. Troubleshooting Procedures – Continued.

<table>
<thead>
<tr>
<th>Malfunction/Symptom</th>
<th>Probable Cause</th>
<th>Corrective Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>11. Machine gun cannot be zeroed.</td>
<td>a. Defective, dirty, or incorrectly assembled front sight assembly.</td>
<td>Clean and assemble correctly. Replace if necessary. Refer to WP 0012 00.</td>
</tr>
<tr>
<td></td>
<td>b. Defective or bent barrel.</td>
<td>Replace the weapon.</td>
</tr>
<tr>
<td></td>
<td>c. Defective, dirty, or incorrectly assembled, rear sight assembly. Refer to Figure 13.</td>
<td>Clean and assemble correctly. Replace if necessary. Refer to WP 0013 00 and WP 0014 00.</td>
</tr>
</tbody>
</table>

![Slide](image1.png)

![Slide Catches](image2.png)

![Slide Springs](image3.png)

Figure 13. Rear Sight Assembly.

12. Failure to cycle with selector lever set on FIRE.  
   a. Broken or worn sear spring, sear, or trigger. Refer to Figure 14.  
   Replace the sear spring, sear, or trigger. Refer to WP 0015 00.

![Sear Spring](image4.png)

![Sear](image5.png)

![Trigger](image6.png)

Figure 14. Sear Spring, Sear, and Trigger
Table 1. Troubleshooting Procedures – Continued.

<table>
<thead>
<tr>
<th>Malfunction/Symptom</th>
<th>Probable Cause</th>
<th>Corrective Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>12. Failure to cycle with selector lever set on FIRE - Cont.</td>
<td>b. Defective selector lever. Refer to Figure 15.</td>
<td>Replace the selector lever. Refer to WP 0015 00.</td>
</tr>
<tr>
<td>13. Weapon fires with selector lever on SAFE.</td>
<td>a. Defective selector lever.</td>
<td>Refer to Short Recoil in this table (# 10). Replace the selector lever. Refer to WP 0015 00.</td>
</tr>
<tr>
<td></td>
<td>b. Worn or broken sear.</td>
<td>Replace the sear. Refer to WP 0015 00.</td>
</tr>
<tr>
<td>14. Bolt and operating rod assembly fails to lock to rear when weapon is on FIRE.</td>
<td>a. Broken or worn sear or sear spring.</td>
<td>Replace the sear or sear spring. Refer to WP 0015 00.</td>
</tr>
<tr>
<td></td>
<td>b. Worn sear notch on bottom of the operating rod.</td>
<td>Replace the operating rod. Refer to WP 0011 00.</td>
</tr>
</tbody>
</table>

Figure 15. Selector Lever.
CHAPTER 3
ORGANIZATIONAL MAINTENANCE
SERVICE UPON RECEIPT

GENERAL

1. Inspect the weapon for damage incurred during shipment. If the weapon has been damaged, report the damage on SF 364, Report of Discrepancy (ROD).

2. Check the weapon against the packing slip to see if the shipment is complete.

3. Check to see if the weapon has been modified.

4. Check the weapon for damage upon its receipt. Perform limited technical inspection as outlined in Table 1 of this work package.

Table 1. Service Upon Receipt.

<table>
<thead>
<tr>
<th>Location</th>
<th>Item</th>
<th>Action</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Container</td>
<td>1. RPD light machine gun</td>
<td>a. Remove weapon from container.</td>
<td>If the weapon has been damaged, report damage on SF 364.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>b. Inspect the weapon for damage incurred during shipment.</td>
<td>Report all discrepancies.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>c. Check the weapon against the packing list to see if the shipment is complete.</td>
<td>Refer to TM 8370-50037-OR/3.</td>
</tr>
<tr>
<td></td>
<td>2. Supply System Responsibility Items (SSRI)</td>
<td>Check for missing items.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3. Barrel assembly</td>
<td>If volatile corrosion inhibitor (VCI) is in the barrel, remove and discard.</td>
<td></td>
</tr>
</tbody>
</table>

| RPD light machine gun     | 1. All parts                | a. Field strip the weapon and inspect for missing, damaged, and rusted or corroded parts. | Refer to TM 8370-50037-OR/3.                             |
|                           |                             | b. Clean and lubricate.                                 | Refer to TM 8370-50037-OR/3.                             |
|                           |                             | c. Reassemble.                                          | Refer to TM 8370-50037-OR/3.                             |
|                           |                             | d. Function check.                                      | Refer to WP 0017 00.                                    |
|                           |                             | e. Check to see if the weapon has been modified.        | Report all modifications.                               |
|                           |                             | f. Conduct initial gaging.                              | Refer to WP 0021 00.                                    |
|                           | 2. Drum                     | Check for positive retention of drum and function of drum release. | Refer to TM 8370-50037-OR/3.                            |

END OF WORK PACKAGE
GENERAL
This work package contains procedures and instructions necessary to perform organizational preventive maintenance checks and services (PMCS), along with disassembly and reassembly procedures required for corrective maintenance for the RPD light machine gun.

1. **Organizational Maintenance.** Organizational maintenance is performed at the using unit beyond the capabilities of the operator as identified in TM 8370-50037-OR/3. Organizational maintenance is authorized to service, replace, and adjust the parts and assemblies covered in the Organizational portion of this manual.

2. **Intermediate through Depot Maintenance.** This is not applicable to this platform. All maintenance is performed at the organizational level or the weapon is replaced.

3. **Special Tools; Test, Measuring, and Diagnostic Equipment (TMDE); and Support Equipment.** Special tools and TMDE required for support are listed in WP 0025 00. There are no fabricated tools for this weapon.

4. **Repair Parts.** Repair parts are listed and illustrated in WP 0027 00.

---

**WARNING**
Ensure that the weapon is unloaded and that the selector lever is set on SAFE before performing the following procedures. Do not keep live ammunition near the work area. Failure to follow these warnings may cause injury or death to personnel.

**NOTE**
PMCS are to be performed every 90 days to keep the weapon ready for use. If the weapon has not been used for 90 days, PMCS described in the operator’s manual (TM 8370-50037-OR/3) should also be performed.

Solid film lubricant (SFL) is authorized to be used as a touch up for the exterior protective finish on the RPD light machine gun.

5. **General.** The PMCS procedures are contained in the following table. They are arranged in logical sequence requiring a minimum amount of time and motion on the part of the persons performing them and are arranged so that there will be minimum interference between the persons performing simultaneous checks on the same end item.

6. **Item Number Column.** This column describes checks and services numbered in disassembly sequence.

7. **Interval Column.** This column states the designated interval when each check is to be performed.

8. **Item to Check/Service Column.** This column lists the items to be checked or serviced.
9. **Procedure Column.** This column contains a brief description of the procedure by which the check is to be performed. It contains all the information required to accomplish the checks and services.

10. **Not Fully Mission Capable If Column.** This column states which faults will prevent the weapon from being capable of performing its primary mission. The weapon should not be used if it meets any of the faults listed in this column.

11. **Other Table Entries.** Observe all WARNINGs, CAUTIONs, and NOTEs.

Table 1. Preventive Maintenance Checks and Services for RPD Light Machine Gun.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Interval</th>
<th>Item to Check/Service</th>
<th>Procedure</th>
<th>Not Fully Mission Capable if:</th>
</tr>
</thead>
</table>

**WARNING**

Before starting an inspection, be sure to clear the weapon. Do not pull the trigger until the weapon has been cleared. Inspect the chamber to ensure that it is empty and no ammunition is in position to be chambered. DO NOT keep live ammunition in the work area. Failure to follow these warnings may cause injury or death to personnel.

**NOTE**

An inactive weapon is a weapon that has been stored in an arms room for a period of 90 days without use.

Inactive weapons should receive quarterly PMCS unless inspection reveals more frequent servicing is necessary.

If the unit armorer detects corrosion on a weapon prior to the end of the 90 day period, the PMCS should be performed immediately.

SFL is the authorized touch up for the RPD light machine gun.
<table>
<thead>
<tr>
<th>Item No.</th>
<th>Interval</th>
<th>Item to Check/Service</th>
<th>Procedure</th>
<th>Not Fully Mission Capable If:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Quarterly</td>
<td>Drum</td>
<td>Inspect the drum for deformities and damage. Ensure the drum can be mounted onto the weapon. Ensure the door opens and closes. Ensure the lock can secure the door closed. Lubricate the lock and hinges.</td>
<td>The drum cannot be mounted onto the weapon, the door will not open and close, or the lock cannot secure the door closed.</td>
</tr>
<tr>
<td>2</td>
<td>Quarterly</td>
<td>Selector Lever, Function Check</td>
<td>With the selector lever on FIRE, pull the charging handle to the rear until the operating rod locks to the rear. Place the selector lever on SAFE. Hold the charging handle in hand to prevent dry firing the weapon. Pull the trigger. The operating rod should stay locked to the rear. Place the selector lever on FIRE. Hold the charging handle to prevent dry firing the weapon. Pull the trigger. The operating rod should be released, ride the charging handle forward.</td>
<td>The operating rod does not lock to the rear. The operating rod is released forward. The operating rod is not released forward.</td>
</tr>
<tr>
<td>3</td>
<td>Quarterly</td>
<td>Upper Receiver and Barrel Assembly</td>
<td>a. Apply a light coat of CLP to all metal parts. Remove any rust, dirt, or debris. Remove any burrs. Lubricate all moving parts. Remove excess lubricant. Refer to WP 0009 00.</td>
<td></td>
</tr>
</tbody>
</table>
Table 1. Preventive Maintenance Checks and Services for RPD Light Machine Gun - Continued.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Interval</th>
<th>Item to Check/Service</th>
<th>Procedure</th>
<th>Not Fully Mission Capable If:</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Cont.</td>
<td>Quarterly</td>
<td>Upper Receiver and Barrel Assembly</td>
<td>b. Hand check the thread protector for looseness on the barrel. Refer to Figure 1.</td>
<td>The thread protector is loose.</td>
</tr>
</tbody>
</table>

![Thread Protector](Thread Protector.png)

Figure 1. Thread Protector.

c. Check the bipod assembly for looseness on the barrel and inspect for cracks, deformities, and damage. Replace if necessary.

d. Ensure the bipod legs can be moved to and retained in the up and down positions.

e. Check the barrel for bulges, dents, and deformities.

f. Hand check the barrel to ensure it is not loose in the upper receiver. Gage the barrel and check for damage and deformities. Refer to WP 0021 00. If defective, replace the weapon.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th>The barrel is defective.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>The bipod legs cannot be adjusted or be secured in the up or down positions.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>The barrel is defective.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>The barrel is loose in the upper receiver or fails gaging.</td>
</tr>
</tbody>
</table>
Table 1. Preventive Maintenance Checks and Services for RPD Light Machine Gun - Continued.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Interval</th>
<th>Item to Check/Service</th>
<th>Procedure</th>
<th>Not Fully Mission Capable If:</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Cont.</td>
<td>Quarterly</td>
<td>Upper Receiver and Barrel Assembly</td>
<td>g. Check the handguards for gouges, cracks, and damage. Up to three cracks are acceptable, if they do not interfere with retention of the handguards, weapon operation, or operator safety. No cracks are acceptable in critical areas. Refer to Figure 2.</td>
<td>The handguards are gouged, have cracks making them unserviceable, or any metal inserts are missing or loose.</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Critical Areas</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Figure 2. Critical Areas of the Handguards.**

| h.       | Check the gas block and gas tube for cracks or deformities. Refer to Figure 3. | The gas block or gas tube are damaged. |
|          |                                                                           |                                                                                   |
|          |                                                                           |                                                                                   |

**Figure 3. Gas Tube and Gas Block.**

| i.       | Check the drum release for drum retention. Replace if necessary.         | The drum release will not retain a drum.                               |
|          |                                                                           |                                                                                   |
Table 1. Preventive Maintenance Checks and Services for RPD Light Machine Gun - Continued.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Interval</th>
<th>Item to Check/Service</th>
<th>Procedure</th>
<th>Not Fully Mission Capable If:</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Cont.</td>
<td>Quarterly</td>
<td>Upper Receiver and Barrel Assembly</td>
<td><strong>NOTE</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>j. Check the front sight assembly for damage, looseness, or corrosion. Clean and lubricate if necessary.</td>
<td>The front sight base is loose, damaged or corroded.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>k. Ensure the front sight post will adjust up and down and is not loose.</td>
<td>The front sight post cannot be adjusted or is loose.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>l. Raise and lower the rear sight assembly. The rear sight leaf spring should retain the rear sight assembly in both positions.</td>
<td>The rear sight leaf spring will not retain the rear sight assembly in either position.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>m. Slide the rear sight assembly slide to different range markings on the rear sight leaf. The slide should click into place on the range markings.</td>
<td>The rear sight assembly slide will not click into place on the range markings.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>NOTE</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>n. Check the ejector and operating rod rails of the upper receiver for burrs, cracks, and deformities. If defective, replace weapon.</td>
<td>The ejector or operating rod rails are defective.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>o. Check the take down pin at the rear of the upper receiver for straightness, burrs and looseness in the upper receiver.</td>
<td>The take down pin is defective or loose in the receiver.</td>
</tr>
</tbody>
</table>
Table 1. Preventive Maintenance Checks and Services for RPD Light Machine Gun - Continued.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Interval</th>
<th>Item to Check/Service</th>
<th>Procedure</th>
<th>Not Fully Mission Capable If:</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Cont.</td>
<td>Quarterly</td>
<td>Upper Receiver and Barrel Assembly</td>
<td><img src="image" alt="WARNING" /> Dry cleaning solvent is flammable and toxic and should be used in a well-ventilated area. The use of rubber gloves is necessary to protect the skin when washing weapon parts. Failure to follow this warning may cause injury or death to personnel.</td>
<td><img src="image" alt="CAUTION" /> DO NOT use a wire brush to roughen the surfaces. Use a well-ventilated area during cleaning and the application of solid film lubricant (SFL). If SFL comes in contact with moving parts or functioning surfaces of the weapon, remove the SFL immediately by washing the area with dry cleaning solvent.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><img src="image" alt="NOTE" /> Shiny metal exterior surfaces of the weapon should be recoated with SFL. Clean the surface with dry cleaning solvent, dry, roughen with abrasive cloth, and apply solid film lubricant.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>p. Inspect the upper receiver and barrel finish for scratches or worn, shiny spots.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>q. If scratched or worn shiny spots are present, disassemble the upper receiver and barrel assembly and remove all lubricant from the surface with dry cleaning solvent.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>r. Wear chemical and oil protective gloves and use a wash pan (tote box) to apply the solvent. Let the parts dry thoroughly. Roughen the surface using abrasive cloth and apply SFL. Allow 16 to 24 hours drying time before handling.</td>
<td></td>
</tr>
</tbody>
</table>
Table 1. Preventive Maintenance Checks and Services for RPD Light Machine Gun - Continued.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Interval</th>
<th>Item to Check/Service</th>
<th>Procedure</th>
<th>Not Fully Mission Capable If:</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Quarterly</td>
<td>Bolt and Operating Rod Assembly</td>
<td><strong>WARNING</strong> DO NOT interchange bolt assemblies or locking blocks from one weapon to another without gaging for the proper headspace. Refer to WP 0021 00. Failure to follow this warning may cause injury or death to personnel.</td>
<td>The bolt and operating rod assembly components are defective.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>a. Disassemble (refer to WP 0011 00) and inspect the bolt and operating rod assembly for burrs, deformities, or damage. Remove any burrs. Clean and lubricate. Replace parts if necessary. Refer to Figure 4.</td>
<td>The serial numbers do not match.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>The bolt and operating rod assembly components are defective.</td>
<td>The firing pin hole is elongated or cracked.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>b. Ensure the right and left side locking blocks have matching serial numbers.</td>
<td>The serial numbers do not match.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>c. Check the bolt for an elongated or cracked firing pin hole. If the firing pin hole is elongated or cracked, replace the bolt.</td>
<td>The firing pin hole is elongated or cracked.</td>
</tr>
</tbody>
</table>

Figure 4. Components of the Bolt and Operating Rod Assembly.
Table 1. Preventive Maintenance Checks and Services for RPD Light Machine Gun - Continued.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Interval</th>
<th>Item to Check/Service</th>
<th>Procedure</th>
<th>Not Fully Mission Capable If:</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Quarterly</td>
<td>Bolt and Operating Rod Assembly</td>
<td>d. Check for a broken firing pin retaining pin. Replace if necessary. Refer to Figure 5.</td>
<td>The firing pin retaining pin is broken.</td>
</tr>
<tr>
<td></td>
<td>Cont.</td>
<td></td>
<td>e. Check if the firing pin is worn or broken. Replace if necessary. Refer to Figure 5.</td>
<td>The firing pin is worn or broken.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>f. Check the extractor, extractor plunger, and extractor spring for defects and serviceability. Clean, lubricate, and reassemble. Replace parts if necessary. Refer to Figure 5.</td>
<td>The extractor, extractor plunger, and extractor spring are unserviceable.</td>
</tr>
<tr>
<td>5</td>
<td>Quarterly</td>
<td>Drive Rod Assembly</td>
<td>a. Check the drive rod and drive spring for bends and breaks. Check the drive spring for spring tension. Replace if necessary. Refer to Figure 6.</td>
<td>The drive rod or drive spring are bent or broken or the drive spring has weak spring tension.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>b. Check the drive spring retaining pin for damage and deformities. Ensure the lugs are not worn or broken. Refer to Figure 6.</td>
<td>The drive spring retaining pin is defective or its lugs are worn or broken.</td>
</tr>
</tbody>
</table>

Figure 5. Components of the Bolt Assembly Disassembled.

Figure 6. Drive Rod Assembly.
Table 1. Preventive Maintenance Checks and Services for RPD Light Machine Gun - Continued.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Interval</th>
<th>Item to Check/Service</th>
<th>Procedure</th>
<th>Not Fully Mission Capable If:</th>
</tr>
</thead>
</table>
| 6       | Quarterly  | Feed Tray and Feed Tray Cover Assembly   | a. Disassemble (refer to WP 0013 00) and check all components of the feed tray and feed tray cover assembly for burrs, cracks, deformities, and damage. Remove any burrs, clean, and lubricate. Refer to Figure 7.  
   b. Check the port covers of the feed tray for free movement. Refer to Figure 7.  
   c. Check the split pin and bushing for cracks and deformities. Ensure the ends of the split pin secure it in the bushing.  
   d. Check the feed tray levers for burrs, cracks, and deformities. Remove any burrs.  
   e. Check the feed pawl spring and cartridge pawl spring for spring tension.  
   f. Ensure the feed pawl slide moves freely in the feed tray cover block.  
   g. Check that the feed tray cover release secures and releases the feed tray cover. Refer to Figure 7. | Any of the components are unserviceable or missing. The port covers will not open and close. The split pin or bushing are unserviceable. The feed tray levers are unserviceable. The feed pawl spring or cartridge pawl spring lack spring tension. The feed pawl slide does not move freely. The feed tray cover release will not secure or release the feed tray cover. |

**NOTE**

In Figure 7, the feed pawl retaining pin is installed through the feed pawl slide, feed pawl, and feed pawl spring, and is not visible. Also, the cartridge retaining pawl spring is installed under the cartridge retaining pawl, and is not visible.
Table 1. Preventive Maintenance Checks and Services for RPD Light Machine Gun - Continued.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Interval</th>
<th>Item to Check/Service</th>
<th>Procedure</th>
<th>Not Fully Mission Capable If:</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 Cont.</td>
<td>Quarterly</td>
<td>Feed Tray and Feed Tray Cover Assembly</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Figure 7. Components of the Feed Tray and Feed Tray Cover Assembly.
Table 1. Preventive Maintenance Checks and Services for RPD Light Machine Gun - Continued.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Interval</th>
<th>Item to Check/Service</th>
<th>Procedure</th>
<th>Not Fully Mission Capable If:</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>Quarterly</td>
<td>Lower Receiver and Buttstock Assembly</td>
<td>a. Check the buttstock for defects. A total of three cracks are acceptable if they do not interfere with retention, weapon operation, or operator safety. No cracks near critical areas are acceptable. Gouges are not acceptable. Refer to Figure 8.</td>
<td>The buttstock has more than three cracks, any cracks near critical areas, or any gouges.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>b. Check the buttstock for looseness on the lower receiver. If it is loose, remove the buttstock screw, clean the threads, and try to tighten. Replace if needed.</td>
<td>The buttstock is loose and the buttstock screw cannot be tightened.</td>
</tr>
</tbody>
</table>

![Critical Areas of the Buttstock](image_url)
Table 1. Preventive Maintenance Checks and Services for RPD Light Machine Gun - Continued.

<table>
<thead>
<tr>
<th>Item No.</th>
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<th>Item to Check/Service</th>
<th>Procedure</th>
<th>Not Fully Mission Capable If:</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>Quarterly Cont.</td>
<td>Lower Receiver and Buttstock Assembly</td>
<td>c. Check the pistol grip halves and pistol grip screw for damage and looseness. Refer to Figure 9.</td>
<td>The pistol grip halves or pistol grip screw are unserviceable or loose.</td>
</tr>
</tbody>
</table>

Figure 9. Pistol Grip Halves and Pistol Grip Screw.
INTENTIONALLY BLANK
GENERAL MAINTENANCE INSTRUCTIONS

THIS WORK PACKAGE COVERS

INITIAL SETUP

Maintenance Level References
Organizational

TM 4795-12/1_
TM 9-247_

SCOPE
These general maintenance instructions contain general shop practices and specific methods you must be familiar with to properly maintain the RPD light machine gun.

WORK SAFETY
1. Before starting a task, think about the risks and hazards to your safety as well as that of others. Wear protective gear such as safety goggles or lenses, safety shoes, rubber apron, or gloves. Protect yourself against injury.
2. Observe all WARNINGs, CAUTIONs, and NOTEs.

GENERAL INFORMATION
1. Before beginning a task, find out how much repair, modification, or replacement is needed to repair the weapon as described in this manual. Sometimes the reason for equipment failure can be seen immediately and complete teardown is not necessary. Disassemble the weapon only as far as necessary to repair or replace damaged or broken parts.
2. All tags and forms attached to the equipment must be checked to learn the reason for removal from service. Check all Modification Instructions (MIs) and Technical Bulletins (TBs) for equipment changes and updates.
3. In some cases a part may be damaged by removal. If the part appears to be good, and other parts behind it are not defective, leave it on and continue the procedure.
CLEANING INSTRUCTIONS

WARNING

Improper cleaning methods and use of unauthorized cleaning solvents may injure personnel and damage equipment. Refer to TM 9-247_, Materials Used for Cleaning, Preserving, Abrading, and Cementing Ordnance Materials and Related Materials Including Chemicals for correct information.

Eye shields must be worn when cleaning with a wire brush. Flying rust and metal particles may cause injury to personnel.

Particles blown by compressed air are hazardous. Use a maximum of 30 psi when cleaning components. DO NOT exceed 15 psi nozzle pressure when drying parts with compressed air. DO NOT direct compressed air against human skin. Make sure air stream is directed away from the user and other personnel in the area. To prevent injury, the user must wear protective goggles or a face shield.

Failure to follow these warnings may result in injury or death to personnel.

NOTE

Use only Cleaner, Lubricant, and Preservative (CLP) for cleaning and lubrication of the RPD light machine gun in all but the most severe conditions.

Cloths or rags saturated with solvent cleaning compound must be disposed of in accordance with authorized facilities’ procedures.

Cleaning instructions are the same for the majority of the parts and components.

The importance of cleaning must be thoroughly understood by maintenance personnel. Great care and effort are required in cleaning. Dirt and foreign material are a constant threat to satisfactory maintenance. The following should apply to all cleaning, inspection, repair, and assembly operations.

(1) Clean all parts before inspection, after repair, and before assembly.

(2) To prevent contamination, hands should be kept free of any accumulation of grease that can collect dust, dirt, or grit.

(3) After cleaning, all parts should be covered or wrapped to protect them from dust and dirt. Parts that are subject to rust should be oiled lightly.
1. **Cleaning Disassembled Parts.**
   a. Place all disassembled parts in wire baskets for cleaning.
   b. Dry and cover all cleaned parts.
   c. Place parts on or in “racks” and hold for inspection or repair.
   d. All parts subject to rusting must be lightly oiled and wrapped.
   e. Keep all related parts and components together. Do not mix parts.

2. **Castings.**
   a. Clean the inner and outer surfaces of castings and all areas with CLP and/or bore solvent.
   b. Use a stiff brush to remove sludge and gum deposits.
   c. Clear out all tapped (threaded) holes with compressed air to remove dirt and cleaning solvent.

3. **Machined Surfaces.**
   a. Clean machined surfaces with a pipe cleaner.
   b. Dry surfaces thoroughly with compressed air.

4. **Mated Surfaces.** Lightly coat with CLP and wrap all parts subject to rust before storing.

**INSPECTION INSTRUCTIONS**

1. **General.** All components and parts must be checked carefully to determine if they are serviceable for reuse, if they can be repaired, or if they must be scrapped.

2. **Drilled and Tapped (Threaded) Holes.**
   a. Inspect for wear, distortion (stretching), cracking, or any other damage in or around holes.
   b. Inspect threaded areas for wear, distortion, or evidence of cross-threading.

3. **Castings.**
   a. Inspect all ferrous and non-ferrous castings for cracks using a magnifying glass and strong light. Particularly check areas around studs, pipe plugs, threaded inserts, and sharp corners. Replace all cracked castings.
   b. Inspect machined surfaces for nicks, burrs, or raised metal. Mark damaged areas for repair or replacement.
   c. Inspect all pipe plugs, pipe plug openings, screws, and screw openings for damaged or stripped threads.
   d. Check all mating surfaces.

4. **Studs, Bolts, and Screws.** Replace if threads are damaged, bent, or stretched.
5. **Machine-Tooled Parts.** Inspect for cracks, breaks, elongated holes, wear, and chips. Replace any damaged parts.

6. **Machined Surfaces.** Inspect for cracks, evidence of wear, galled or pitted surfaces, burrs, nicks, and scratches.

7. **Mating Surfaces.** Inspect for seal, secure fit, and pitting.

8. **Rusted Surfaces.** Inspect for pitting, holes, and severe damage.

9. **Internal Parts.** Inspect for cracks, nicks, burrs, evidence of overheating, and wear.

10. **Externally Exposed Parts.** Inspect for breaks, cracks, rust damage, and wear.

11. **Springs.** Inspect for broken, collapsed, and twisted coils.

**REPAIR INSTRUCTIONS**

1. **General.**

   a. Any repair procedure for a specific part or component is covered in the work package related to that item.

   **CAUTION**

   Repaired items must be cleaned thoroughly to remove metal chips and abrasives to prevent those elements from entering working parts of the weapon. Failure to comply could damage equipment.

   b. After repair, clean all parts thoroughly.

2. **Castings.**

   Only minor repairs to machined surfaces are permitted. Remove minor nicks, burrs, and scratches with:

   a. Fine-mill file
   
   b. Crocus cloth dipped in solvent cleaning compound.

**LUBRICATION INSTRUCTIONS**

Refer to TM 4795-12/1_ for detailed instructions on proper lubrication. The following are some general practices to remember:

   a. Use correct lubricant in accordance with TM 4795-12/1_, *Organizational Corrosion Prevention and Control Procedures for USMC Equipment*.

   b. Keep the lubricants clean.

   c. Lubricate all clean, disassembled, and new parts to prevent rust.
STANDARD TOOL REQUIREMENTS

Some maintenance tasks may require special or fabricated tools. The Initial Setup of the procedure will specify any special or fabricated tools needed to perform that procedure. Use these special tools only for the maintenance procedures for which they are designed or called out. If you are unfamiliar with a required tool, see your supervisor.

APPLYING TORQUE

If a unique torque value is required, it will be provided in a procedural step in the task.

TAGGING INSTRUCTIONS

1. Use marker tags to identify all parts that may be hard to identify or replace later. Fasten the tags to parts during removal by wrapping wire fasteners around or through the parts and twisting the ends together. Position the tags out of the way during cleaning, inspection, and repair. Mark the tags with a pencil, pen, or marker.

2. Identify and tag other parts by name and the installed location as required.

END OF WORK PACKAGE
DISASSEMBLY OF WEAPON

THIS WORK PACKAGE COVERS
Disassembly.

INITIAL SETUP

<table>
<thead>
<tr>
<th>Maintenance Level</th>
<th>Equipment Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organizational</td>
<td>Weapon cleared (TM 8370-50037-OR/3)</td>
</tr>
</tbody>
</table>

References

TM 8370-50037-OR/3

WARNING

Always assume that every weapon is loaded until it is determined through visual and physical inspection that it is not. Procedures for clearing and unloading the weapon are outlined in TM 8370-50037-OR/3. Failure to follow this warning may cause injury or death to personnel.
DISASSEMBLY

Refer to Figure 1.

1. Refer to TM 8370-50037-OR/3.

2. Remove the cleaning rod from left side of the weapon.

3. Remove the drum from the bottom of the upper receiver.

4. Remove the lower receiver and buttstock assembly and drive rod assembly from the upper receiver.

5. Pull the bolt and operating rod assembly out of the rear of the upper receiver.

Figure 1. Major Components of the RPD Light Machine Gun Disassembled.

END OF WORK PACKAGE
BOLT AND OPERATING ROD ASSEMBLY

THIS WORK PACKAGE COVERS
Disassembly, Cleaning, Inspection and Repair, Lubrication, and Reassembly.

INITIAL SETUP

Maintenance Level
Organizational

Tools and Special Tools
E7900 tool kit

Materials/Parts
Cleaner, Lubricant, and Preservative (CLP)
Rag, wiping

References
WP 0009 00
WP 0010 00
WP 0021 00

Equipment Condition
Bolt and operating rod assembly removed (WP 0010 00)

WARNING
DO NOT interchange bolt assemblies and locking blocks from one weapon to another without checking for the proper heads pace. Failure to follow this warning may cause injury or death to personnel.

DISASSEMBLY
1. Remove the bolt assembly and locking blocks from the operating rod. Refer to Figure 1.

![Figure 1. Removing the Bolt Assembly and Locking Blocks.]
2. Use a punch to drive the firing pin retaining pin out of the side of the bolt. It may be necessary to pull the extractor spring out with the end of a punch. Refer to Figure 2.

![Figure 2. Removing the Firing Pin Retaining Pin.](image)

3. Remove the firing pin from the rear of the bolt. Refer to Figure 3.

![Figure 3. Removing the Firing Pin.](image)

**WARNING**

The extractor and extractor retaining pin are under spring tension.

4. Depress the extractor to relieve spring tension and use a punch to drive the extractor retaining pin out of the side of the bolt. Refer to Figure 4.

![Figure 4. Driving Out the Extractor Retaining Pin.](image)
5. Remove the extractor, plunger, and extractor spring from the bolt. Refer to Figure 5.

![Figure 5. Extractor, Plunger, and Extractor Spring Removed From the Bolt.](image)

CLEANING

Clean and remove all carbon and debris. Refer to WP 0009 00.

INSPECTION AND REPAIR

1. Inspect the operating rod for burrs, cracks, and deformities. Remove burrs. Replace if defective.

2. Inspect for excessive wear around the sear groove and free movement of the roller. Replace if defective. Refer to Figure 6.

![Figure 6. The Sear Groove and the Roller of the Operating Rod.](image)

3. Inspect the bolt for burrs and cracks. Remove any burrs. Replace if defective.

4. Inspect the extractor and plunger for burrs, cracks, and wear, especially the lip of the extractor. Replace if defective.

5. Inspect the spring tension of the extractor spring. Replace if defective.

6. Inspect the firing pin for chips, deformities, and a broken tip. Replace if defective.

7. Inspect the firing pin retaining pin and extractor retaining pin for burrs, cracks, and deformities. Replace if defective.

8. Inspect the locking blocks for burrs, cracks, and deformities, especially on the lugs. Ensure the locking blocks have matching serial numbers. Replace if defective.

9. Conduct gaging on reassembled bolt and operating rod assembly. Refer to WP 0021 00.

LUBRICATION

Lubricate all metal parts. Refer to WP 0009 00.
REASSEMBLY

1. Install the extractor spring, plunger, and extractor, in that order, into the front of the bolt. Refer to Figure 7.

   Figure 7. Extractor, Plunger, Extractor Spring, and Bolt.

2. Depress the extractor and insert a punch as a slave pin into the extractor retaining pin hole. Install the extractor retaining pin into the bolt. It should be flush with both sides of the bolt. Refer to Figure 8.

   Figure 8. Extractor Retaining Pin Installed.

3. Install the firing pin. Refer to Figure 9.

   Figure 9. Installing the Firing Pin.

4. Ensuring that the flat side of the firing pin is facing the bottom of the bolt, install the firing pin retaining pin into the side of the bolt. Ensure it is flush on both sides of the bolt.

5. Place the locking blocks onto the sides of the bolt with the cutouts facing outwards. Refer to Figure 10.

   Figure 10. Locking Blocks on the Sides of the Bolt.
6. Install the bolt assembly and locking blocks onto the operating rod. Refer to Figure 11.

Figure 11. Bolt and Locking Blocks Installed onto the Operating Rod.

END OF WORK PACKAGE
UPPER RECEIVER AND BARREL ASSEMBLY

THIS WORK PACKAGE COVERS
Disassembly, Cleaning, Inspection and Repair, Lubrication, and Reassembly.

INITIAL SETUP

Maintenance Level
Organizational

Tools and Special Tools
Combination tool
E7900 tool kit

Materials/Parts
Cleaner, Lubricant, and Preservative (CLP)
Rag, wiping

References
TM 8370-50037-OR/3
WP 0009 00
WP 0013 00
WP 0021 00

Equipment Condition
Weapon field stripped
(TM 8370-50037-OR/3)

DISASSEMBLY

1. Unscrew the thread protector by depressing the flat spring and unscrewing the thread protector counterclockwise. Refer to Figure 1.

Figure 1. Depress the Flat Spring and Remove Thread Protector.
CAUTION
Lubricate the flat spring and windage adjustment screw before working on them, as they may seize together during firing.

2. Note the position of the front sight aperture on the front sight base. Using a wrench and the combination tool, remove the windage adjustment screw. Refer to Figure 2.

![Figure 2. Removing the Windage Adjustment Screw.](image)

3. Remove windage adjustment screw, flat spring, and nut. Refer to Figure 3.

![Figure 3. Removed Windage Adjustment Screw, Flat Spring, and Nut.](image)
4. Using a rawhide or rubber mallet, drift the front sight aperture from the front sight base. Refer to Figure 4.

![Figure 4](image4.png)

Figure 4. Drifting the Front Sight Aperture Off the Front Sight Base.

5. Unscrew and remove the front sight post.

**NOTE**

Only remove the front sight base if replacement or repair is necessary.

6. Using a punch and a mallet, drive out both front sight base pins from the front sight base. Refer to Figure 5.

![Figure 5](image5.png)

Figure 5. Removing the Front Sight Base Pins.

7. Remove the front sight base. This may require force, because the front sight base is pressed onto the barrel.
8. Using a punch and hammer, drive one of the bipod side pins to the rear until it releases the bipod hinge. Refer to Figure 6.

![Figure 6. Driving the Bipod Side Pin to the Rear.](image)

9. Open the bipod hinge and remove the bipod assembly. Refer to Figure 7.

![Figure 7. Removed Bipod Assembly.](image)

10. To remove the gas regulator, use the combination tool or a wrench to unscrew the gas regulator screw from the left side of the barrel. Refer to Figure 8.

![Figure 8. Removing the Gas Regulator Screw with a Combination Tool or Wrench.](image)
11. Remove the gas regulator from the right side. Slight force may be needed with a mallet or hammer to remove the regulator. Refer to Figure 9.

![Figure 9. Driving Out the Gas Regulator.](image)

12. Using a flathead screwdriver, remove the four handguard screws from the right side of the handguards and remove the handguards. Refer to Figure 10.

![Figure 10. Removing the Hand Guards.](image)

13. Remove the charging handle. Refer to Figure 11.

![Figure 11. Removing the Charging Handle.](image)
14. Lift the feed tray and feed tray cover. Push the feed tray and feed tray cover retaining pin out of the upper receiver from the left side. Remove the feed tray cover and the feed tray from the upper receiver. Refer to Figure 12.

CLEANING
Clean and remove all debris and carbon deposits. Refer to WP 0009 00.

INSPECTION AND REPAIR
1. Inspect the threads on the barrel muzzle and thread protector for cross threading and damage. Replace if unserviceable.

2. Gage the barrel to check for straightness and erosion. Refer to WP 0021 00.

3. Inspect the front sight aperture, front sight base, front sight base pins, and front sight post for burrs, breaks, and deformities. Ensure the front sight post is straight. Inspect the threading in the front sight aperture and on the front sight post for cross threading and damage. Remove any burrs. Replace parts if unserviceable.

4. Inspect the gas tube and gas block for burrs, cracks, debris, and carbon deposits. Ensure they are secure on the barrel. Remove any burrs. If unserviceable, replace the weapon. Refer to Figure 13.
5. Inspect the gas regulator and gas regulator screw for cross threading, burrs, and damage. After reassembly, ensure the gas regulator can be adjusted to different positions. Remove any burrs. Replace if unserviceable.

6. Inspect the upper receiver, in particular the operating rod rails, charging handle groove, and ejector, for loose rivets, cracks, deformities, and burrs. Remove any burrs. If damaged, attempt to repair. If beyond repair, replace the weapon. Refer to Figure 14.

![Ejector Located on Top of the Upper Receiver.](image)

7. Inspect the rear take down pin for smooth operation and positive retention. Ensure that the rear take down pin housing plate is not loose. If loose, restake the plate on the front or rear side of the plate ONLY. If the rear take down pin housing plate is still loose after restaking, replace the weapon. Refer to Figure 15.

**CAUTION**

Stake where indicated in Figure 15 ONLY. A maximum of 2 stakes are allowed. Over-staking will render the upper receiver unserviceable.

![Proper Staking of the Rear Take Down Pin Housing Plate.](image)
8. Inspect the drum release for secure retention of the drum. If unserviceable, attempt to repair. If beyond repair, replace the upper receiver. Refer to Figure 16.

![Drum Release]

Figure 16. Drum Release.

9. Inspect the bipod assembly for burrs, cracks, and bends. Ensure the bipod legs are under spring tension. Ensure that the bipod legs move freely on the swivel joint and can be retained in the up and down positions. Replace if unserviceable.

10. Inspect the handguards for cracks and damage. Cracks are acceptable providing they do not adversely affect the weapon’s operation, operator safety, and are not near the critical areas. Ensure the handguard screws are not stripped or broken. Refer to Figure 17.

![Critical Areas of the Handguards]

Figure 17. Critical Areas of the Handguards.

11. Inspect the charging handle for burrs, cracks, and deformities. Remove any burrs. When reassembled, ensure the charging handle operates smoothly, without binding, and that it can be secured in the forward position. Replace if necessary.

12. Disassemble, clean, inspect, repair, lubricate, and reassemble the feed tray and feed tray cover assembly. Refer to WP 0013 00.

**LUBRICATION**

Lubricate all metal parts. Refer WP 0009 00.
REASSEMBLY

1. Place the feed tray on the upper receiver. Refer to Figure 18.

![Figure 18. Feed Tray on the Upper Receiver.](image)

2. Place the feed tray cover on the upper receiver, aligning the pin holes of the feed tray cover, feed tray, and upper receiver without closing the feed tray cover. Insert the feed tray and feed tray cover retaining pin from the right. Close the feed tray cover. Refer to Figure 19.

![Figure 19. Placing the Feed Tray Cover on the Upper Receiver.](image)

3. Install the charging handle and push it forward until it secures in the forward position. Refer to Figure 20.

![Figure 20. Installing the Charging Handle.](image)
4. Install the handguards with the grooved sides facing up and the deep side of the groove forward. Refer to Figure 21.

Figure 21. Installing the Handguards.

5. Install the gas regulator into the right side of the gas block. Using a wrench or the combination tool, install the gas regulator screw into the left side of the gas block. Refer to Figure 22.

**NOTE**

The initial setting for the gas regulator is #2.

Figure 22. Installing the Gas Regulator Screw and the Gas Regulator Installed, Set on #2.
6. Close the bipod hinge around the barrel, ensuring that the bipod legs are down and the bipod feet are facing forward. Drive the bipod side pin through the bipod hinge from the rear. A slave pin inserted through the front may be necessary.

7. If removed, install the front sight base onto the barrel. Using a punch, drive the two front sight pins into the pin holes. Ensure the flat spring cutout faces the front of the barrel. Refer to Figure 23.

![Figure 23. Front Sight Base and Front Sight Pins Installed.](image)

8. Screw the front sight post into the front sight aperture and drift the front sight aperture onto the front sight base with a mallet, with the center mark on the front sight aperture facing the muzzle. Ensure the front sight aperture is centered on the front sight base. Refer to Figure 24.

![Figure 24. Drifting the Front Sight Aperture.](image)
CAUTION

Lubricate the flat spring and windage adjustment screw before working on them, as they may seize together during firing.

9. Place the flat spring in the cutout in the front of the front sight base, ensuring the end of the spring is bent towards the muzzle. Ensure the front sight aperture is returned to its original position on the front sight base. With a wrench and combination tool, tighten the windage adjustment screw and nut onto the front sight base. Refer to Figure 25.

![Figure 25. Tightening the Windage Adjustment Screw and Nut.](image1)

10. Install the thread protector by screwing it on clockwise. Refer to Figure 26.

![Figure 26. Installing the Thread Protector.](image2)

END OF WORK PACKAGE
FEED TRAY AND FEED TRAY COVER ASSEMBLY

THIS WORK PACKAGE COVERS
Disassembly, Cleaning, Inspection and Repair, Lubrication, and Reassembly.

INITIAL SETUP

<table>
<thead>
<tr>
<th>Maintenance Level</th>
<th>Tools and Special Tools</th>
<th>Materials/Parts</th>
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<td>Organizational</td>
<td>E7900 tool kit</td>
<td>Cleaner, Lubricant, and Preservative (CLP)</td>
<td>WP 0009 00</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rag, wiping</td>
<td>WP 0012 00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>WP 0014 00</td>
</tr>
</tbody>
</table>

Equipment Conditions

Feed tray and feed tray cover removed (WP 0012 00)

DISASSEMBLY

1. Feed Tray Cover.
   a. Locate the open ends of the split pin in the bushing in the front of the feed tray cover on the bottom. Refer to Figure 1.

Figure 1. Bushing and Split Pin in the Feed Tray Cover.
b. Using a pair of pliers, squeeze the ends of the split pin together and push it through the bushing and out of the top of the feed tray cover. Refer to Figure 2.

![Figure 2. Squeezing the Ends of the Split Pin Together.](image)

c. Remove the split pin through the top of the feed tray cover and the bushing through the bottom of the feed tray cover. Refer to Figure 3.

![Figure 3. Bushing and Split Pin.](image)

d. Pull the feed tray cover block off the feed tray cover. Tap it with a rubber mallet, if necessary. Refer to Figure 4.

![Figure 4. Removing the Feed Tray Cover Block.](image)
e. Depress the side spring against the right side of the feed tray cover. Refer to Figure 5.

Figure 5. Depressing the Side Spring.

f. Keeping the side spring depressed, lift the feed tray cover levers up and out of the feed tray cover. Refer to Figure 6.

Figure 6. Feed Tray Cover Levers Removed from the Feed Tray Cover.
g. Depress the feed tray cover release latch and remove the latch screw from the top, rear of the feed tray cover. The screw may be staked. Remove the feed tray cover release latch and latch spring from the feed tray cover. Refer to Figure 7.

![Figure 7. The Feed Tray Cover Release Latch, Latch Screw, and Latch Spring.](image)

h. Remove the feed pawl slide from the feed tray cover block. Refer to Figure 8.

![Figure 8. Removing the Feed Pawl Slide from the Feed Tray Cover Block.](image)
The cartridge retaining pawl is under spring tension. Use care when removing it and the cartridge retaining pawl retaining pin.

i. While maintaining pressure on the cartridge retaining pawl, use a punch to push the cartridge retaining pawl retaining pin out of the feed tray cover block. Remove the cartridge retaining pawl and cartridge retaining pawl spring. Refer to Figure 9.

![Figure 9. Pushing Out the Cartridge Retaining Pawl Retaining Pin and the Cartridge Retaining Pawl Retaining Pin, Cartridge Retaining Pawl, and Cartridge Retaining Pawl Spring Removed.]

![Figure 10. Removing the Feed Pawl Retaining Pin.]

The feed pawl is under spring tension. Use care when removing it.

j. While depressing the feed pawl, remove the feed pawl retaining pin. Remove the feed pawl and feed pawl spring from the feed pawl slide. Refer to Figure 10.
2. **Rear Sight Assembly.**

**NOTE**

DO NOT remove the rear sight assembly unless repair or replacement is necessary.

**CAUTION**

Be careful not to break the rear sight assembly during removal.

a. Ensure rear sight assembly is set at range marking #4. Place the back of a punch on the base of the rear sight leaf and use pliers to depress the rear sight leaf until the notches at its base clear the grooves in the feed tray cover. Disengage the notches from the grooves. Refer to Figure 11.

![Figure 11. Depressing the Base of the Rear Sight Leaf.](image)

b. Walk the rear sight assembly towards the rear of the feed tray cover, while lifting up to clear rear sight assembly guard. Refer to Figure 12.

![Figure 12. Removing the Rear Sight Assembly.](image)

**CLEANING**

Clean and remove all debris and carbon deposits. Refer to WP 0009 00.

**INSPECTION AND REPAIR**

1. Inspect the feed tray for burrs, cracks, and deformities. Remove any burrs. Check the two port covers for spring tension. Replace if defective.

2. Inspect the bushing and split pin for burrs, cracks, and deformities. Remove any burrs. Ensure the ends of the split pin expand when the split pin is fully inserted into the bushing so that the split pin is securely retained in the bushing. Replace if defective.
3. Inspect the feed tray cover, feed tray cover release latch, feed tray cover block, feed pawl slide, feed pawl, and cartridge retaining pawl for burrs, cracks, and deformities. Inspect the side spring of the feed tray cover for spring tension. Remove any burrs. Replace if defective.

4. Inspect the feed tray cover levers for burrs, cracks, and deformities. Remove any burrs. Ensure the levers slide smoothly over each other when they are assembled. Replace if defective.

5. Inspect the latch spring, feed pawl spring and cartridge retaining pawl retaining spring for breaks, deformities, and weak spring tension. Remove any burrs. Replace if defective.

6. Inspect the feed pawl retaining pin and cartridge retaining pawl retaining pin for straightness, burrs, and cracks. Remove any burrs. Replace if defective.

7. Inspect the latch screw for stripped threads, burrs, cracks, and deformities. Remove any burrs. Replace if defective.

8. Inspect the rear sight assembly to ensure that the slide assembly and windage knob can be adjusted. Disassemble only if repair or replacement of parts is necessary. Refer to WP 0014 00.

**LUBRICATION**

Lubricate all metal parts. Refer to WP 0009 00.

**REASSEMBLY**

1. **Rear Sight Assembly.**

   a. Use a punch to depress the rear leaf spring. Refer to Figure 13.

   ![Figure 13. Using a Punch to Depress the Leaf Spring.](image)
b. Slide the rear sight assembly forward along the leaf spring until it is against the punch. Remove the punch, while pushing the rear sight assembly forward and down against the leaf spring until the notches at the end of the sight leaf engage the grooves in the feed tray cover. Refer to Figure 14.

Figure 14. Rear Sight Assembly Installed.

2. **Feed Tray Cover.**

   a. Place the feed pawl spring on the feed pawl. Refer to Figure 15.

Figure 15. The Feed Pawl Spring on the Feed Pawl.
WARNING

Winding the feed pawl will place the feed pawl and feed pawl slide under spring tension.

b. Place the feed pawl and feed pawl spring on the feed pawl slide and wind the feed pawl on the feed pawl slide. Refer to Figure 16.

![Figure 16. The Feed Pawl and Feed Pawl Spring Placed on the Feed Pawl Slide and the Feed Pawl Wound on the Feed Pawl Slide.](image)

c. Install the feed pawl retaining pin. Refer to Figure 17.

![Figure 17. Installing the Feed Pawl Retaining Pin.](image)
d. Install the cartridge retaining pawl spring and cartridge retaining pawl on the feed tray cover block. Depress the cartridge retaining pawl and install the cartridge retaining pawl retaining pin from the front of the feed tray cover block. Ensure that the pin is flush with the beveled edge of the feed tray cover block. Refer to Figure 18.

![Cartridge Retaining Pawl Spring and Cartridge Retaining Pawl](image)

**Figure 18. Installing the Cartridge Retaining Pawl, Cartridge Retaining Pawl Spring, and Cartridge Retaining Pawl Retaining Pin.**

e. Install the feed pawl slide into the feed tray cover block. Refer to Figure 19.

![Feed Pawl Slide](image)

**Figure 19. Installing the Feed Pawl Slide.**

f. Assemble the long and short feed tray cover levers. Refer to Figure 20.

![Long and Short Feed Tray Cover Levers](image)

**Figure 20. Assembling the Long and Short Feed Tray Cover Levers.**
g. Depress the side spring against the right side of the feed tray cover and place the feed tray cover levers onto the feed tray cover. Ensure the grooved side of the long lever faces away from the feed tray cover and the stud on the feed tray cover is seated in the short lever. Refer to Figure 21.

![Figure 21. The Stud on the Feed Tray Cover Seated in the Short Lever and the Grooved Side of the Long Lever Facing Away from the Feed Tray Cover.](image)

h. When releasing the side spring ensure that the short lever seats in the notch on the end of the side spring.

**NOTE**

Ensure to align the hole in the feed pawl slide with the end of the short feed tray cover lever when installing the feed tray cover block assembly.

i. Push or tap the feed tray block assembly onto the feed tray cover. Use a rubber mallet, if necessary. Refer to Figure 22.

![Figure 22. Install the Feed Tray Cover Block onto the Feed Tray Cover.](image)

j. Check for smooth movement of the feed pawl slide in the feed tray cover block.
k. Install the latch spring into the feed tray cover release latch and slide them onto the end of the feed tray cover. Install the latch screw through the top of the feed tray cover release latch and feed tray cover, do not over tighten. Ensure the feed tray cover release latch moves smoothly. Stake the bottom of the latch screw if necessary. Refer to Figure 23.

Figure 23. The Feed Tray Cover Release Latch, Latch Screw, and Latch Spring.

l. Install the bushing through the bottom of the feed tray cover and the split pin through the top. The ends of the split pin will snap open when the split pin is fully installed in the bushing. Refer to Figure 24.

Figure 24. The Bushing and Split Pin Installed through the Feed Tray Cover.

END OF WORK PACKAGE
REAR SIGHT ASSEMBLY

THIS WORK PACKAGE COVERS
Disassembly, Cleaning, Inspection and Repair, Lubrication, and Reassembly.

INITIAL SETUP
Maintenance Level
Organizational

Materials/Parts
Cleaner, Lubricant, and Preservative (CLP)
Rag, wiping

References
WP 0009 00
WP 0013 00

Equipment Conditions
Rear sight assembly removed (WP 0013 00)

WARNING

The slide assembly is under spring tension. Use care when working on spring-loaded parts.

DISASSEMBLY
1. Depress slide catches and remove the slide assembly from the rear sight leaf. Pull the slide catches and slide springs from either side of the slide. Refer to Figure 1.

Figure 1. Rear Sight Assembly Components Disassembled.
CLEANING
Clean all parts. Refer to WP 0009 00.

INSPECTION AND REPAIR
1. Check the slide springs for spring tension, cracks, and deformities. Replace if defective.

2. Check the slide catches, slide, and rear sight leaf for burrs, cracks, deformities, and other defects. Remove any burrs. Ensure the lines and numbers on the slide and rear sight leaf are readable. Replace if defective.

3. Once reassembled, ensure the slide assembly and windage knob can be adjusted.

LUBRICATE
Lubricate all metal parts. Refer to WP 0009 00.

REASSEMBLY
1. Insert the slide springs into the slide catches, then insert the slide catches into either side of the slide. Refer to Figure 2.

![Figure 2. Inserting the Slide Springs and Slide Catches and the Slide Assembly Assembled.](image)

2. Depress the slide catches and install the slide assembly onto the rear sight leaf. Refer to Figure 3.

![Figure 3. Installing the Slide Assembly onto the Rear Sight Leaf.](image)

END OF WORK PAKCAGE
LOWER RECEIVER AND BUTTSTOCK ASSEMBLY

THIS WORK PACKAGE COVERS
Disassembly, Cleaning, Inspection and Repair, Lubrication, and Reassembly.

INITIAL SETUP

Maintenance Level
Organizational

Tools and Special Tools
Combination tool
Buttplate tool
E7900 tool kit

Materials/Parts
Cleaner, Lubricant, and Preservative (CLP)
Rag, wiping

References
WP 0009 00
WP 0010 00

Equipment Condition
Lower receiver and buttstock assembly removed (WP 0010 00)

DISASSEMBLY

1. Depress the buttplate catch and open the buttplate door by turning it to access the head of the drive spring retaining pin. Refer to Figure 1.

Figure 1. Opening the Buttplate Door to Access the Head of the Drive Rod Retaining Pin.
WARNING

The drive spring retaining pin is under spring tension and will be released after turning it 90 degrees.

2. Using a screwdriver, turn the drive spring retaining pin 90 degrees and remove the drive rod assembly from the buttstock. Refer to Figure 2.

Figure 2. Removing the Drive Rod Assembly.

3. Remove the drive spring retaining pin from the drive spring. DO NOT disassemble the drive spring and drive rod. Refer to Figure 3.

Figure 3. Drive Rod, Drive Spring and Drive Spring Retaining Pin.

4. Using a wrench or combination tool, remove the buttstock nut from the end of the buttstock bolt, then remove the buttstock bolt. Refer to Figure 4.

Figure 4. Removing the Buttstock Nut.
5. Slide the buttstock to the rear and out of the lower receiver. Refer to Figure 5.

![Figure 5. Removing the Buttstock.](image)

6. Using a flathead screwdriver, remove the grip screw and the grip halves. Refer to Figure 6.

![Figure 6. Removing the Pistol Grip Screw and Pistol Grip Halves.](image)

7. Place the selector lever on SAFE to allow access to the trigger pin. Drive out the trigger pin from the right side of the lower receiver. It may be necessary to maintain pressure on the sear while driving out the trigger pin. Refer to Figure 7.

![Figure 7. Driving Out the Trigger Pin.](image)
8. Remove the trigger from inside the lower receiver. Refer to Figure 8.

![Figure 8. Removing the Trigger.](image)

9. Remove the sear and sear spring from the lower receiver. Refer to Figure 9.

![Figure 9. Sear Spring and Sear.](image)

10. Turn the selector lever to the 6 o’clock position. Push the selector lever out from the left side with a punch. Manipulate the trigger back and forth while pulling the selector lever out from the right side of the lower receiver. Refer to Figure 10.

![Figure 10. Selector Lever Removed.](image)
11. Slide the selector lever spring to the rear until the circular end lines up with the circular recess in the lower receiver. Moderate force may be necessary. Remove the selector lever spring from inside the receiver. Refer to Figure 11.

![Figure 11. Removing the Selector Lever Spring.](image11)

**NOTE**

Disassemble buttplate only to repair or replace parts.

12. Remove the two buttplate nuts with the buttplate tool. Refer to Figure 12.

![Figure 12. Removing the Buttplate Bolts.](image12)
NOTE

To remove the buttplate bolt, rock the buttplate catch on and out while pulling out the buttplate bolt.

13. Remove the buttplate bolt, buttplate catch, rear sling swivel, and buttplate in that order from the buttstock. Refer to Figure 13.

![Figure 13. The Buttplate Catch, Buttplate Bolt, Rear Sling Swivel, and Buttplate.](image)

CLEANING

Clean and remove all carbon deposits. Refer to WP 0009 00.

INSPECTION AND REPAIR

1. Inspect the buttstock for cracks. Up to three cracks are acceptable as long as they do not interfere with the operation of the weapon or operator safety. No cracks are acceptable in the critical areas (near bolts). Refer to Figure 14. Replace if unserviceable.

![Figure 14. Critical Areas of the Buttstock.](image)

2. Inspect the pistol grip halves for cracks and damage. Minor defects are acceptable as long as they do not interfere with the operation of the weapon or operator safety.

3. Inspect the drive rod, sear, trigger, safety selector, safety selector spring, lower receiver, buttplate, and buttplate catch for burrs, cracks, wear, deformities, and damage. Replace if unserviceable.
4. Inspect the buttplate door for smooth movement on the buttplate, deformities, and damage. Replace the buttplate if unserviceable.

5. Inspect the drive spring retaining pin for burrs, straightness, a stripped head, and damage. Inspect the lugs on the head of the pin for wear. Replace if unserviceable.

6. Inspect the buttstock bolt, pistol grip screw, buttstock bolt, and rear sling swivel for stripped threads, stripped heads, straightness, and damage. Replace if unserviceable.

7. Inspect the drive spring and sear spring for spring tension, crack, and deformities. Replace if unserviceable.

**LUBRICATION**

Lubricate all metal parts. Refer to WP 0009 00.

**REASSEMBLY**

1. Install the buttplate catch in the buttstock compartment ensuring that the hole aligns with the buttplate bolt hole in the bottom of the buttstock and that the curled end faces the bottom of the buttstock. Place the buttplate on the buttstock. Refer to Figure 15.

![Figure 15. The Buttplate Catch and Buttplate Installed.](image)

2. Install the rear sling swivel through the left side of the buttstock and the buttplate bolt through inside the buttstock compartment. Tighten the buttplate bolts onto the ends of the rear sling swivel and buttplate bolt with the buttplate tool. Refer to Figure 16.

![Figure 16. Tightening the Buttplate Bolts.](image)
3. Insert the circular end of the selector lever spring into the circular recess in the lower receiver with the narrow end pointing to the rear and curving up. Slide the selector lever spring forward in the lower receiver. Refer to Figure 17.

![Circular End of the Selector Lever Spring](image1)

Figure 17. Installing the Selector Lever Spring.

4. Depress the selector lever spring. Insert the selector lever, in the 6 o’clock position, from the right side of the lower receiver. Rotate the selector lever to SAFE. Ensure that the narrow end of the selector lever spring is under the selector lever and seated in the narrow notch in the center of the selector lever. Refer to Figure 18.

![Narrow Notch in the Selector Lever](image2)

Figure 18. The Narrow Notch in the Selector Lever.

5. Place the sear spring in the circular recess in the lower receiver and install the sear over the sear spring by seating the rounded edge of the sear in the groove in the lower receiver. Ensure the top of the sear spring is seated in the circular recess in the bottom of the sear. Refer to Figure 19.

![Rounded Edge and Circular Recess of the Sear](image3)

Figure 19. The Rounded Edge and Circular Recess of the Sear.
6. Install the trigger in the lower receiver. Ensure the top of the trigger hooks through the hole in the sear. Refer to Figure 20.

![Figure 20. Installing the Trigger.](image)

7. Use a punch to install the trigger pin, ensuring to thread it through the trigger. Ensure the trigger pin is flush with both sides of the lower receiver. Refer to Figure 21.

![Figure 21. Installing the Trigger Pin.](image)

8. Place the pistol grip halves on the lower receiver and use a flathead screwdriver to install the pistol grip screw. Refer to Figure 22.

![Figure 22. Install the Pistol Grip Screw and Pistol Grip Halves.](image)
9. Slide the buttstock into the lower receiver and install the buttstock bolt from the right and install the buttstock nut on the end of the buttstock bolt using the combination tool. Refer to Figure 23.

![Figure 23. Installing the Buttstock and Buttstock Bolt.](image)

10. Install the drive spring retaining pin in the end of the drive spring. Refer to Figure 24.

![Figure 24. Installing the Drive Spring Retaining Pin in the End of the Drive Spring.](image)

11. Install the drive rod assembly into the end of the buttstock and use a screw driver to turn the head of the drive spring retaining pin 90 degrees to secure it in the buttstock. Close the buttplate door. Refer to Figure 25.

![Figure 25. Installing the Drive Rod Assembly and the Head of the Drive Rod Spring Secured in the Buttstock.](image)

END OF WORK PACKAGE
REASSEMBLY OF WEAPON

THIS WORK PACKAGE COVERS
Reassembly.

INITIAL SETUP

<table>
<thead>
<tr>
<th>Maintenance Level</th>
<th>Equipment Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organizational</td>
<td>Weapon disassembled into major components</td>
</tr>
<tr>
<td></td>
<td>(WP 0010 00)</td>
</tr>
</tbody>
</table>

References

TM 8370-50037-OR/3
WP 0010 00
WP 0017 00

WARNING

Use care when installing and unloading spring-loaded parts. DO NOT interchange bolt assemblies from one weapon to another. DO NOT keep live ammunition in the work area. Failure to follow these warnings may cause injury or death to personnel.
REASSEMBLY

Refer to Figure 1.

1. Refer to TM 8370-50037-OR/3.

2. Ensure the feed tray and feed tray cover assembly is on the upper receiver.

3. Install the bolt and operating rod assembly into the rear of the upper receiver and barrel assembly.

4. Install the lower receiver and buttstock assembly and the drive rod assembly onto the upper receiver and barrel assembly.

5. Install the cleaning rod onto the left side of the upper receiver.

6. Function check the weapon. Refer to WP 0017 00.

Figure 1. Major Components of the RPD.

END OF WORK PACKAGE
FUNCTION CHECK

THIS WORK PACKAGE COVERS
Function Check.

INITIAL SETUP

Maintenance Level

Organizational

Equipment Conditions

Weapon cleared (TM 8370-50037-OR/3)

References

TM 8370-50037-OR/3

WARNING

Ensure the weapon is clear prior to performing the following function check. Refer to TM 8370-50037-OR/3. If the weapon fails any part of the following function check, continued use may cause injury or death to personnel.

FUNCTION CHECK

This section contains instructions for checking the functions of the RPD light machine gun.

1. Place the weapon on SAFE.
2. Using moderate force, pull the charging handle to the rear. The operating rod and bolt assembly should NOT lock to the rear. Ease the charging handle forward.
3. Place the weapon on FIRE.
4. Pull the charging handle to the rear. The operating rod and bolt assembly should lock to the rear.
5. Place the selector lever on SAFE.
6. While holding the charging handle in hand to prevent dry firing the weapon, pull the trigger. The operating rod and bolt assembly should stay locked to the rear.
7. Place the weapon on FIRE.
8. While holding the charging handle in hand to prevent dry firing the weapon, pull the trigger. The operating rod and bolt assembly should be released forward. Ease the charging handle forward.
9. Place the weapon on SAFE.

END OF WORK PACKAGE
INTENTIONALLY BLANK
STOWAGE

THIS WORK PACKAGE COVERS
Stowage.

INITIAL SETUP

Maintenance Level
Organizational

Equipment Conditions
Weapon cleared (TM 8370-50037-OR/3)

References
TM 8370-50037-OR/3

WARNING

Before stowing a weapon, be sure to clear the weapon Refer to TM 8370-50037-OR/3. Inspect the chamber to ensure it is empty and that no ammunition is in position to be chambered. Failure to follow this warning may cause injury or death to personnel.

STOWAGE

Prior to stowing the weapon in the arms room, perform the following procedures:

1. Clear weapon.
2. Place weapon on SAFE.
3. Close the two port covers on the feed tray.
4. Place weapon on rack.

END OF WORK PACKAGE
PREPARATION FOR STORAGE AND SHIPMENT

THIS WORK PACKAGE COVERS
Storage Procedures.

INITIAL SETUP

Maintenance Level
Organizational

Materials/Parts
Cleaner, Lubricant, and Preservative (CLP)

References
TM 8370-50037-OR/3
MCO P4450.7
WP 0009 00

Equipment Conditions
Weapon cleared (TM 8370-50037-OR/3)

STORAGE PROCEDURES

WARNING

DO NOT store the weapon with live ammunition in the chamber. Always assume that every weapon is loaded until it is determined through visual and physical inspection that it is not. Procedures for clearing and unloading the weapon are outlined in TM 8370-50037-OR/3. Failure to follow these warnings may cause injury or death to personnel.

1. **Storage Procedures.**
   
   a. Ensure that the chamber and feed tray do not contain live ammunition.
   
   b. Inspect the bore and chamber and apply a medium coat of CLP.
   
   c. Apply a light coat of CLP to all other metal surfaces of the weapon to provide extra lubrication and corrosion protection.

2. **Storage for Extended Periods.** When the weapon is to be stored for an extended period (greater than 90 days), follow the procedures outlined in MCO P4450.7, *Preparation for Storage*. Ensure that the weapon is thoroughly cleaned as outlined in WP 0009 00.

3. **Packaging.** If required, packaging for shipping/storage that will not exceed 90 days shall be done as follows:
   
   a. Clean the weapon in accordance with WP 0009 00.
   
   b. Wrap the weapon with MIL-B-12 waterproof material.
c. Place the weapon in a barrier bag MIL-B-117, Type I, Class C, or wrap it with MIL-B-121, Type I, Grade A, and seal with tape, PPP-T-76.

d. Place one or more of the item(s) in minimum size container. Block and brace the items in accordance with MIL-STD-1186. Cushion the weapon and similar weight item(s) with PPP-C-843 and use PPP-B-320 as filler to create a tight pack.

(1) Fiberboard containers shall be in accordance with PPP-B-636 and may be Class Domestic. Gross weight and size of the material shall determine the grade of the fiberboard container. PPP-B-640 may also be used.

(2) Wood containers shall be in accordance with PPP-B-601 or PPP-B-621.

e. Equivalent materials may be used.

4. NSNs are not assigned to all the specific material. If it is necessary to specify an NSN in the TMs, the packing materials will have to be spared and part numbers and NSNs assigned.

5. The specifications used are:

a. MIL-B-117 - Bag, sleeve and tubing - interior packaging (NSN 8135-00-543-6574)

b. MIL-B-121 - Barrier material, greaseproof, waterproof, flexible (NSN 8135-00-753-4661)

c. MIL-STD-129 - Marking for shipment and storage

d. MIL-STD-1186 - Cushioning, anchoring, bracing, blocking and waterproofing with appropriate test methods

e. PPP-B-601 - Boxes, wood, cleated plywood

f. PPP-B-621 - Boxes, wood, nailed and locked - corner

g. PPP-B-636 - Boxes, shipping, fiberboard

h. PPP-B-640 - Boxes, fiberboard, corrugated, triple-wall

i. PPP-C-843 - Cushioning material, cellulosic

j. PPP-F-320 - Fiberboard, corrugated and solid sheet rock (container grade), and cut shapes

k. PPP-T-76 - Tape, packaging, paper.

END OF WORK PACKAGE
FINAL INSPECTION AND FUNCTION TEST

THIS WORK PACKAGE COVERS
Final Inspection and Function Test.

INITIAL SETUP

Maintenance Level
Organizational

Tools and Special Tools
E7900 tool kit
RPD gage kit

References
TM 8370-50037-OR/3
WP 0017 00
WP 0021 00

Equipment Conditions
Weapon cleared (TM 8370-50037-OR/3)

WARNING
DO NOT keep live ammunition near the work area. Failure to follow this warning may result in serious injury or death.

FINAL INSPECTION

1. Visually inspect the general appearance of the weapon. The weapon should appear almost new. All metal surfaces are to have a dull, rust- or corrosion-resistant finish with no burrs or deep scratches.

2. Visually inspect the barrel for serviceability. Check for the following:
   a. Barrels must be straight, clean, and free of rust, powder fouling, bulges, and rings. Fine pitting is allowable.
   b. Using moderate hand pressure, check for rotational movement of the front sight in relation to the barrel. If movement between the front sight and barrel exists, replace the weapon.

3. Visually inspect the machine gun for missing parts. All parts must be securely attached, and all modifications must be applied. Steel parts must be rust-free. Pins must be secure and screws must be tight.

4. Functionally inspect the bolt and operating rod assembly. Refer to TM 8370-50037-OR/3 and use the following procedures:
   a. Charge the weapon with a fluid motion, ensuring the charging handle does not bind.
   b. Ensure that the bolt locks and unlocks freely.
5. Function check the weapon with the selector lever in the SAFE and FIRE positions. Any portion of this check may be used alone to determine the operational condition of any specific firing position selected.

6. Check the rear sight assembly as follows:
   a. Ensure that the sight has positive tension of the leaf spring.
   b. Ensure that the slide clicks into place on range markings on the sight leaf.

7. Perform the following additional checks:
   a. Check the headspace using the headspace “go” gage, P/N 1775011, and headspace “no-go” gage, P/N 1775012 (WP 0021 00).
   b. Check the firing pin protrusion using the firing pin protrusion gage, P/N 1775035 (WP 0021 00).
   c. Check for barrel straightness using the barrel straightness gage, P/N 1775014 (WP 0021 00).
   d. Check for bore erosion using the bore erosion gage, P/N 1775016 (WP 0021 00).
   e. Check the firing pin hole using the plain plug “no-go” gage, P/N 1775033 (WP 0021 00).
   f. Press the drum release to ensure that it functions properly.
   g. Check the sight assemblies. Ensure that proper adjustment is possible with each assembly.
   h. Inspect the upper receiver and ensure that the barrel assembly does not rotate or move within the upper receiver.
   i. Manipulate the pawls and levers of the feed tray cover to ensure they move smoothly and do not bind.
   j. Open and close the feed tray cover to ensure the feed tray cover release latch secures the feed tray cover when closed.

**FUNCTION TEST**

Perform a function check. Refer to WP 0017 00.

**END OF WORK PACKAGE**
GAGING PROCEDURES

THIS WORK PACKAGE COVERS

Gaging.

INITIAL SETUP

Maintenance Level

Organizational

Tools and Special Tools

E7900 tool kit
RPD gage kit

References

TI 8005-24/20E_
TM 8370-50037-OR/3
WP 0010 00

Equipment Conditions

Lower receiver and buttstock assembly removed. (WP 0010 00)
Bolt and operating rod assembly removed. (WP 0010 00)

GAGING

NOTE

Initial gaging is required upon receipt of the weapon. All weapons must be gaged at least once annually.

The gages in the RPD light machine gun gage kit are precision tools. When using the gages, handle them with care and use LIGHT pressure to avoid damaging them.

Gaging requirements along with pre-fire inspection (PFI), in accordance with TI 8005-24/20E_, are to be performed within 30 days of each live fire evolution. Refer to Figure 1.

Figure 1. RPD Gage Kit.
BORE STRAIGHTNESS GAGE

Refer to Figure 2.

Figure 2. Bore Straightness Gage.

1. With the weapon vertical, muzzle down, place one hand under the muzzle to prevent the barrel straightness gage from hitting the deck and being damaged. Drop the bore straightness gage down through the barrel, catching it in hand. If the gage does not fall freely through the barrel, clean the barrel with a patch (TM 8370-50037-OR/3) and regage. If the barrel fails gaging a second time replace the weapon. Refer to Figure 3.

Figure 3. Dropping the Bore Straightness Gage Through the Barrel.
2. The barrel straightness gage should pass freely through the muzzle. Refer to Figure 4.

2. The barrel straightness gage should pass freely through the muzzle. Refer to Figure 4.

**Figure 4. Barrel Straightness Gage Through the Muzzle.**

**BORE EROSION GAGE**

Refer to Figure 5.

1. Lightly push the bore erosion gage into the barrel until it seats in the bore. Refer to Figure 6.

1. Lightly push the bore erosion gage into the barrel until it seats in the bore. Refer to Figure 6.

**Figure 5. Bore Erosion Gage.**

**Figure 6. Inserting the Bore Erosion Gage.**
2. The first line of the bore erosion gage is the warning line. If the warning line on the bore erosion gage enters the chamber, more frequent gaging should be conducted. Refer to Figure 7.

3. The second line of the bore erosion gage is the reject line. If the reject line of the bore erosion gage enters the chamber, the barrel is defective and the weapon needs to be replaced. Refer to Figure 7.

Figure 7. The Warning Line, Reject Line, and Chamber.

PLAIN PLUG “NO-GO” GAGE

The plain plug “no-go” gage checks for the out-of-round condition of the firing pin hole in the bolt face. Refer to Figure 8.

Figure 8. Plain Plug “No-Go” Gage.
1. Attempt to insert the plain plug “no-go” gage into the firing pin hole in the bolt face by slowly rotating the gage. Refer to Figure 9.

![Figure 9. Plain Plug “No-Go” Gage in Firing Pin Hole.](image)

2. If the plain plug “no-go” gage enters the firing pin hole at any point, and enters up to the notch on the pin of the plain plug “no-go” gage, the bolt is defective and needs to be replaced.

**FIRING PIN PROTRUSION GAGE**

The firing pin protrusion gage checks the firing pin protrusion from the bolt face. Refer to Figure 10.

![Figure 10. Firing Pin Protrusion Gage.](image)

1. With the rear of the bolt on a flat surface, sweep the “go” side of the gage across the firing pin. The gage should run freely over the firing pin. If the gage catches on bolt or firing pin, regage with a different firing pin. If the bolt fails gaging again, replace the bolt. Refer to Figure 11.

![Figure 11. Using the “Go” Side of the Firing Pin Protrusion Gage.](image)
2. With the rear of the bolt on a flat surface, sweep the “no-go” side of the gage across the firing pin. The gage should catch and not move freely over the pin. If the gage does not catch on the bolt or firing pin, regage with a different firing pin. If the bolt fails gaging again, replace the bolt. Refer to Figure 12.

![Image of a gage on a bolt](image1)

**Figure 12. Using the “No-Go” Side of the Firing Pin Protrusion Gage.**

**HEADSPACE “GO” GAGE**

Refer to Figure 13.

**CAUTION**

When pushing the bolt closed during headspace gaging, be sure to use LIGHT pressure. Failure to do so may damage the weapon or gage.

![Image of a headspace gage](image2)

**Figure 13. Headspace “Go” Gage.**
1. Insert the headspace “go” gage into the chamber, ensuring the gage is fully seated in the chamber. Refer to Figure 14.

![Figure 14. Inserting Headspace “Go” Gage into the Chamber.](image)

2. Slide the bolt and operating rod assembly into the upper receiver. Refer to Figure 15.

![Figure 15. Inserting the Bolt and Operating Rod.](image)

3. Using LIGHT pressure, push the operating rod forward. The bolt should lock on the headspace “go” gage. If the bolt does not lock on the “go” gage, replace the locking blocks and regage. If the bolt does not lock again, replace the bolt and regage. If the second bolt does not lock, replace the weapon. Refer to Figure 16.

![Figure 16. The Operating Rod Pushed Forward With the Bolt Locked on the Headspace “Go” Gage.](image)
HEADSPACE “NO-GO” GAGE

Refer to Figure 17.

CAUTION

When pushing the bolt closed during headspace gaging, be sure to use LIGHT pressure. Failure to do so may damage the weapon or gage.

Figure 17. Headspace “No-Go” Gage.

1. Insert the headspace “no-go” gage into the chamber, ensuring the gage is fully seated in the chamber. Refer to Figure 18.

Figure 18. Inserting the Headspace “No-Go” Gage into the Chamber.
2. Slide the bolt and operating rod assembly into the upper receiver. Refer to Figure 19.

![Figure 19. Inserting the Bolt and Operating Rod.](image1)

3. Using LIGHT pressure, push the operating rod forward. The bolt should NOT lock on the headspace “no-go” gage. If the bolt does lock on the “no-go” gage, replace the locking blocks and regage. If the bolt locks again, replace the bolt and regage. If the second bolt locks, replace the weapon. Refer to Figure 20.

![Figure 20. The Operating Rod Pushed Forward With the Bolt Not Locked on the Headspace “No-Go” Gage.](image2)

END OF WORK PACKAGE
CHAPTER 4

AUXILIARY EQUIPMENT
GENERAL
The following auxiliary equipment items are used in conjunction with the RPD light machine gun:

1. RPD tool kit. Refer to Figure 1.

![Figure 1. RPD Tool Kit.](image)

2. Drum bag. Refer to Figure 2.

![Figure 2. Drum Bag.](image)
3. Drum and ammunition belt. Refer to Figure 3.

Figure 3. Drum and Ammunition Belt.

END OF WORK PACKAGE
CHAPTER 5
SUPPORTING INFORMATION
REFERENCES

SCOPE

This work package lists all forms, field manuals, technical manuals, tables, regulations, standards, and miscellaneous publications referenced in this manual.

TECHNICAL BULLETINS/INSTRUCTION MANUALS/ORDERS

Preparation for Storage ................................................................................................................. MCO P4450.7
Ammunition and Explosives Safety Standards................................................................................. PAM 385-64
Pre-fire Inspection, Small Arms Weapons, Ordnance Material .................................................. TI 8005-24/20E
Organizational Corrosion Prevention and Control Procedures for USMC Equipment ............... TM 4795-12/1
Ground Equipment Record Procedures ...................................................................................... TM 4700-15/1
Procedures for Destruction of Equipment.................................................................................... TM 750-244-7
Materials Used for Cleaning, Preserving, Abrading, and Cementing Ordnance Materials and Related Materials Including Chemicals ............................................................... TM 9-247
Operators Manual for Light Machine Gun, 7.62 MM, RPD ....................................................... TM 8370-50037-OR/3

FORMS

Weapon Custody Receipt Card .................................................................................................... NAVMC 10520
Memorandum Receipt for Individual Weapons and Accessories ............................................... NAVMC 10576
Recommended Changes to Technical Publications ..................................................................... NAVMC 10772
Report of Discrepancy .............................................................................................................. SF 364

END OF WORK PACKAGE
EXPENDABLE AND DURABLE ITEMS LIST

SCOPE
This work package lists the expendable and durable items that are needed to operate and maintain the RPD light machine gun.

EXPLANATION OF COLUMNS
1. **Column (1) - Item Number.** This number is assigned to the entry in the list and is referenced in the narrative instructions to identify the item.

2. **Column (2) - National Stock Number (NSN).** This is the NSN assigned to an item and is used when requisitioning the item.

3. **Column (3) - Description, Commercial and Government Entity Code (CAGEC), and Part Number.** This provides other information that may be needed to identify the item.

4. **Column (4) - Unit of Measure (U/M).** This code shows the physical measurement or count of an item, such as pint (PT), gallon (GL), ounce (OZ), pair (PR), each (EA), bottle (BT), package (PG), book (BK), sheet (SH), can (CN), or bale (BE).

Table 1. Expendable and Durable Items List for the RPD Light Machine Gun.

<table>
<thead>
<tr>
<th>(1) Item Number</th>
<th>(2) National Stock Number (NSN)</th>
<th>(3) Description, CAGEC, and Part Number</th>
<th>(4) U/M</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>7920-00-018-3581</td>
<td>Brush, cleaning, tools and parts</td>
<td>EA</td>
</tr>
<tr>
<td>2</td>
<td>6850-00-965-2332</td>
<td>Carbon removing compound</td>
<td>GL</td>
</tr>
<tr>
<td>3</td>
<td>9150-01-079-6124</td>
<td>Cleaner, Lubricant, and Preservative (CLP)</td>
<td>BT</td>
</tr>
<tr>
<td></td>
<td>9150-01-054-6453</td>
<td>CLP - 4 oz (118.30 mL) bottle</td>
<td>BT</td>
</tr>
<tr>
<td></td>
<td>9150-01-053-6688</td>
<td>CLP - 1 gal (3.78 L) can</td>
<td>CN</td>
</tr>
<tr>
<td>4</td>
<td>9920-00-292-9946</td>
<td>Cleaner, tobacco pipe, cotton turf, wire core, dills pipe cleaner (36 per package)</td>
<td>PG</td>
</tr>
<tr>
<td>5</td>
<td>5350-00-221-0872</td>
<td>Cloth, abrasive</td>
<td>PG</td>
</tr>
<tr>
<td>6</td>
<td>8415-00-823-7458</td>
<td>Gloves, chemical and oil protective</td>
<td>PR</td>
</tr>
<tr>
<td></td>
<td>8415-00-823-7459</td>
<td>Size 9</td>
<td>PR</td>
</tr>
<tr>
<td></td>
<td>8415-00-823-7460</td>
<td>Size 10</td>
<td>PR</td>
</tr>
<tr>
<td>7</td>
<td>9150-01-260-2534</td>
<td>Lubricant, solid film 16 oz (473.18 mL) spray can</td>
<td>CN</td>
</tr>
<tr>
<td>8</td>
<td>9150-00-292-9689</td>
<td>Lubricant, Arctic, Weapons (LAW) 1 qt (0.95 L) can</td>
<td>CN</td>
</tr>
</tbody>
</table>
Table 1. Expendable and Durable Items for RPD Light Machine Gun - Continued.

<table>
<thead>
<tr>
<th>(1) Item Number</th>
<th>(2) National Stock Number (NSN)</th>
<th>(3) Description, CAGEC, and Part Number</th>
<th>(4) U/M</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>9150-00-935-6597</td>
<td>Lubricating oil, Semi-fluid, Automatic weapons, (LSA)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>9150-00-889-3522</td>
<td>2 oz (59.15 mL) plastic bottle</td>
<td>BT</td>
</tr>
<tr>
<td></td>
<td>9150-00-687-4241</td>
<td>4 oz (118.30 mL) plastic bottle</td>
<td>BT</td>
</tr>
<tr>
<td></td>
<td>9150-00-753-4686</td>
<td>1 qt (0.95 L) can</td>
<td>CN</td>
</tr>
<tr>
<td>10</td>
<td>3990-00-795-3595</td>
<td>Pan, wash (box, tote)</td>
<td>EA</td>
</tr>
<tr>
<td>11</td>
<td>6850-00-826-0981</td>
<td>Inspection Penetrant kit</td>
<td>KT</td>
</tr>
<tr>
<td>12</td>
<td>7290-00-205-1711</td>
<td>Rag, wiping 50 lb (22.68 kg) bundle</td>
<td>BD</td>
</tr>
<tr>
<td>13</td>
<td>6850-00-281-1985</td>
<td>Solvent, dry cleaning 1 gal. (3.79 L) can</td>
<td>CN</td>
</tr>
<tr>
<td>14</td>
<td>6850-01-474-2319</td>
<td>Solvent, general MIL-PRF-680 Type II</td>
<td>GL</td>
</tr>
<tr>
<td></td>
<td>6850-01-474-2317</td>
<td>1 gal. (3.79 L)</td>
<td>GL</td>
</tr>
<tr>
<td></td>
<td>6850-01-474-2316</td>
<td>5 gal. (18.93 L)</td>
<td>DR</td>
</tr>
<tr>
<td>15</td>
<td>1005-00-288-3565</td>
<td>Swab, cleaning, small arms (7.62 mm patch)</td>
<td>PG</td>
</tr>
</tbody>
</table>

END OF WORK PACKAGE
SCOPES
This work package lists the common tools and special tools authorized for support of the RPD light machine gun.

EXPLANATION OF COLUMNS
1. **Column (1) - Item Number.** This column indicates the number of the figure, if available, that shows the item.

2. **Column (2) - Item Name.** This column lists the item by noun nomenclature and other descriptive features.

3. **Column (3) - National Stock Number (NSN).** This column lists the NSN assigned to an item and is used when requisitioning the item.

4. **Column (4) - Part Number/CAGEC.** This column indicates the primary number used by the manufacturer which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items.

5. **Column (5) - Unit of Measure (U/M).** This column shows the count of an item when issued, such as each (EA), kit (KT), package (PG), book (BK), or bale (BE).

Table 1. Tools Identification List for RPD Light Machine Gun.

<table>
<thead>
<tr>
<th>(1) Item Number</th>
<th>(2) Item Name</th>
<th>(3) National Stock Number (NSN)</th>
<th>(4) Part Number/CAGEC</th>
<th>(5) U/M</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Gage kit, RPD</td>
<td>TBD</td>
<td>N/A</td>
<td>KT</td>
</tr>
<tr>
<td>2</td>
<td>Gage, bore erosion</td>
<td>TBD</td>
<td>1775016/19204</td>
<td>EA</td>
</tr>
<tr>
<td>3</td>
<td>Gage, bore straightness</td>
<td>TBD</td>
<td>1775014/19204</td>
<td>EA</td>
</tr>
<tr>
<td>4</td>
<td>Gage, firing pin protrusion</td>
<td>TBD</td>
<td>1775035/19204</td>
<td>EA</td>
</tr>
<tr>
<td>5</td>
<td>Gage, headspace “go”</td>
<td>TBD</td>
<td>1775011/19204</td>
<td>EA</td>
</tr>
<tr>
<td>6</td>
<td>Gage, headspace “no-go”</td>
<td>TBD</td>
<td>1775012/19204</td>
<td>EA</td>
</tr>
<tr>
<td>7</td>
<td>Gage, plain plug “no-go”</td>
<td>TBD</td>
<td>1775033/19204</td>
<td>EA</td>
</tr>
<tr>
<td>8</td>
<td>Tool, scraper</td>
<td>TBD</td>
<td>N/A</td>
<td>EA</td>
</tr>
<tr>
<td>9</td>
<td>Tool kit, RPD</td>
<td>TBD</td>
<td>N/A</td>
<td>KT</td>
</tr>
<tr>
<td>10</td>
<td>Case</td>
<td>TBD</td>
<td>N/A</td>
<td>EA</td>
</tr>
<tr>
<td>11</td>
<td>Extractor</td>
<td>TBD</td>
<td>N/A</td>
<td>EA</td>
</tr>
<tr>
<td>12</td>
<td>Spring, Sear</td>
<td>TBD</td>
<td>N/A</td>
<td>EA</td>
</tr>
<tr>
<td>13</td>
<td>Attachment, cleaning rod</td>
<td>TBD</td>
<td>N/A</td>
<td>EA</td>
</tr>
<tr>
<td>14</td>
<td>Punch, small</td>
<td>TBD</td>
<td>N/A</td>
<td>EA</td>
</tr>
<tr>
<td>15</td>
<td>Punch, large</td>
<td>TBD</td>
<td>N/A</td>
<td>EA</td>
</tr>
<tr>
<td>16</td>
<td>Tool, removal, ruptured casing</td>
<td>TBD</td>
<td>N/A</td>
<td>EA</td>
</tr>
<tr>
<td>17</td>
<td>Tool, combination</td>
<td>TBD</td>
<td>N/A</td>
<td>EA</td>
</tr>
<tr>
<td>18</td>
<td>Tool, buttplate</td>
<td>TBD</td>
<td>N/A</td>
<td>EA</td>
</tr>
<tr>
<td>19</td>
<td>Tool kit, USMC E7900</td>
<td>5180-01-504-5663</td>
<td>TK-2111</td>
<td>KT</td>
</tr>
</tbody>
</table>
Figures 1 through 9 represent items 1 through 17 listed in Table 1.

Figure 1. Gage Kit, RPD Light Machine Gun.

Figure 2. Gage, Bore Erosion (1775016).

Figure 3. Gage, Bore Straightness (1775014).

Figure 4. Gage, Firing Pin Protrusion (1775035).
Figure 5. Gage, Headspace “Go” (1775011).

Figure 6. Gage, Headspace “No-Go” (1775012).

Figure 7. Gage, Plain Plug “No-Go” (1775033).

Figure 8. Tool, Scraper.
Figure 9. Tool Kit, RPD.

END OF WORK PACKAGE
REPAIR PARTS LIST (RPL) INTRODUCTION

SCOPE
This repair parts list (RPL) authorizes spares, repair parts, and other special support equipment required for the performance of organizational maintenance of the RPD light machine gun. It authorizes the requisitioning, issue, and disposition of spares and repair parts indicated by the source, maintenance, and recoverability (SMR) codes. Parts lists are composed of functional groups listed in figure and item number sequence.

EXPLANATION OF COLUMNS
1. Item No. (Column 1). The item number indicates the number used to identify items called out in an illustration.

2. SMR Code (Column 2). The SMR code is a five-position code containing supply and requisition information, maintenance level authorization criteria, and disposition instructions as shown in the following manner. Refer to Table 1 for an explanation of the five positions in the SMR code. Refer to Tables 2-5 for explanations of the source codes, maintenance codes, and recoverability codes that make up the SMR code.

<table>
<thead>
<tr>
<th>Source Code</th>
<th>Maintenance Code</th>
<th>Recoverability Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>XX 1st and 2nd positions</td>
<td>X 3rd position</td>
<td>X 4th position</td>
</tr>
<tr>
<td>How to obtain an item</td>
<td>Who can install, replace, or use the item</td>
<td>Who can perform repair* on the item</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X 5th position</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Who determines the disposition action on an unserviceable item</td>
</tr>
</tbody>
</table>

NOTE
Complete repair: maintenance capacity, capability, and authority to perform all corrective maintenance tasks of the repair function in a user environment in order to restore serviceability to a failed item.

a. Source Code. The source code indicates how to obtain an item needed for maintenance, repair, or overhaul of equipment and is entered in the first and second positions of the SMR code as shown in Table 2.

<table>
<thead>
<tr>
<th>Code</th>
<th>Application/Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA</td>
<td>Item: Stocked</td>
</tr>
<tr>
<td>PB</td>
<td>Item: Stocked, insurance</td>
</tr>
<tr>
<td>PC</td>
<td>Item: Stocked, deteriorative</td>
</tr>
<tr>
<td>PD</td>
<td>Item: Support, initial issue or outfitting and stocking only for additional initial issue.</td>
</tr>
<tr>
<td>PE</td>
<td>Equip: Support, stocked, initial issue, or outfitting of specified maintenance activities (also used for “special tools”).</td>
</tr>
<tr>
<td>PF</td>
<td>Equip: Support, non-stocked, and centrally procured on demand.</td>
</tr>
<tr>
<td>PG</td>
<td>Item: Stocked, for sustained support, uneconomical to produce at later time.</td>
</tr>
</tbody>
</table>
Table 2. Source Codes - Continued.

<table>
<thead>
<tr>
<th>Code</th>
<th>Application/Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>KD</td>
<td>Items with these codes are not to be requested/requisitioned individually. These items are part of a kit authorized to the maintenance level indicated in the 3rd position of the SMR code. The complete kit must be requisitioned and applied for this weapon.</td>
</tr>
<tr>
<td>KF</td>
<td></td>
</tr>
<tr>
<td>KB</td>
<td></td>
</tr>
<tr>
<td>MO</td>
<td>Items with these codes are not to be requisitioned individually. They must be made from bulk material identified by the part number in the description column. No bulk material items are applicable for this weapon.</td>
</tr>
<tr>
<td>MF</td>
<td></td>
</tr>
<tr>
<td>MH</td>
<td></td>
</tr>
<tr>
<td>ML</td>
<td></td>
</tr>
<tr>
<td>MD</td>
<td></td>
</tr>
<tr>
<td>AO</td>
<td>Items with these codes are not to be requested/requisitioned individually. The parts that make the assembled items must be requisitioned, fabricated, or assembled at the level of maintenance indicated by source code. If the 3rd position code of the SMR code authorizes the item to be replaced, but the source code indicates the item is assembled at a higher level, order the item from the higher level of maintenance.</td>
</tr>
<tr>
<td>AF</td>
<td></td>
</tr>
<tr>
<td>AH</td>
<td></td>
</tr>
<tr>
<td>AD</td>
<td></td>
</tr>
<tr>
<td>XA</td>
<td>Do not requisition an XA-coded item. Order its next higher assembly. (Also refer to the NOTE below).</td>
</tr>
<tr>
<td>XB</td>
<td>If an XB item is not available from salvage, order it using the CAGEC and part number given.</td>
</tr>
<tr>
<td>XC</td>
<td>XC installation drawing, diagram, instruction sheet, and field service drawing identified by the manufacturer’s part number.</td>
</tr>
<tr>
<td>XD</td>
<td>XD are items not stocked. Order an XD-coded item through normal supply channels using the CAGEC and part number given.</td>
</tr>
</tbody>
</table>

**NOTE**

Cannibalizing or controlled exchange, when authorized, may be used as a source of supply for items with the above source codes, except for those coded XA. Items coded PC are subject to deterioration.

b. **Maintenance Code.** The maintenance code indicates the levels of maintenance authorized to use and repair the support items. The maintenance codes are entered in the third and fourth positions of the SMR code format as follows:

(1) The maintenance code entered in the third position indicates the lowest maintenance level authorized to remove, replace, and use an item. Refer to Table 3 for an explanation of the maintenance code that indicates the level of maintenance required.

Table 3. Third Position Maintenance Codes.

<table>
<thead>
<tr>
<th>Code</th>
<th>Application/Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>Crew or operator maintenance done within unit maintenance.</td>
</tr>
<tr>
<td>O</td>
<td>Organizational level can remove, replace, and use the item.</td>
</tr>
<tr>
<td>F</td>
<td>Third echelon can remove, replace, and use the item.</td>
</tr>
<tr>
<td>H</td>
<td>Fourth echelon can remove, replace, and use the item.</td>
</tr>
<tr>
<td>L</td>
<td>Specialized repair activity can remove, replace, and use the item.</td>
</tr>
<tr>
<td>D</td>
<td>Depot level can remove, replace, and use the item.</td>
</tr>
</tbody>
</table>
(2) The maintenance code entered in the fourth position indicates whether the item is to be repaired at the lowest maintenance level with the capability to perform complete repair (i.e., all authorized maintenance functions).

**NOTE**

Some limited repair may be done on the item at a lower level of maintenance, if authorized by the SMR codes.

Table 4. Fourth Position Maintenance Codes.

<table>
<thead>
<tr>
<th>Code</th>
<th>Application/Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>O</td>
<td>Organizational level is the lowest level that can completely repair the item.</td>
</tr>
<tr>
<td>F</td>
<td>Intermediate third echelon is the lowest level that can completely repair the item.</td>
</tr>
<tr>
<td>H</td>
<td>The lowest maintenance level capable of complete repair of the support item is the general support level.</td>
</tr>
<tr>
<td>D</td>
<td>Depot level is the lowest level that can completely repair the item.</td>
</tr>
<tr>
<td>L</td>
<td>Specialized repair activity (designated the specialized repair activity) is the lowest level that can completely repair the item.</td>
</tr>
<tr>
<td>Z</td>
<td>Non-repairable. No repair is authorized.</td>
</tr>
<tr>
<td>B</td>
<td>No repair authorized. No parts or special tools are authorized for maintenance of a B-coded item. However, the item may be reconditioned by adjusting or lubricating at the user level.</td>
</tr>
</tbody>
</table>

Table 5. Recoverability Codes.

<table>
<thead>
<tr>
<th>Code</th>
<th>Application/Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z</td>
<td>Non-repairable item. When unserviceable, condemn and dispose of the item at the level of maintenance shown in the third position of the SMR code.</td>
</tr>
<tr>
<td>O</td>
<td>Repairable item. When uneconomically repairable, condemn and dispose of at the organizational level.</td>
</tr>
<tr>
<td>F</td>
<td>Repairable item. When uneconomically repairable, condemn and dispose of at the third echelon level.</td>
</tr>
<tr>
<td>H</td>
<td>Repairable item. When uneconomically repairable, condemn and dispose of at the fourth echelon level.</td>
</tr>
<tr>
<td>D</td>
<td>Repairable item. When uneconomically repairable, condemn and dispose of at the depot level.</td>
</tr>
<tr>
<td>L</td>
<td>Repairable item. Condemnation and disposal not authorized below specialized repair activity.</td>
</tr>
<tr>
<td>A</td>
<td>Item requires special handling or condemnation procedures because of specific reasons (e.g., precious metal content, high dollar value, or hazardous material). Refer to the appropriate manuals/directives for specific instructions.</td>
</tr>
</tbody>
</table>

c. **Recoverability Code.** The recoverability code is assigned to support items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the SMR code format. Refer to Table 5 for code explanations.

3. **NSN (Column 3).** The national stock number for the item is listed in this column.

4. **CAGEC (Column 4).** The commercial and government entity code is a 5-digit code used to identify the manufacturer, distributor, or government activity that supplies the item.
5. **Part Number (Column 5).** Indicates the primary number used by the manufacturer that controls the design and characteristics of the items by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items.

   **NOTE**

   When an NSN is used to requisition an item, the item received may be a different part number from the part ordered.

6. **Item Identification (Column 6).** This column includes the following information:

   a. Federal item name and, when required, a minimum description identifying the items.

   b. The statement END OF FIGURE appears just below the last item description in columns 6 and 7 for a given figure.

7. **QTY (Column 7).** The quantity (QTY) column indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, sub-functional group, or an assembly. The letter V appearing in this column in lieu of a quantity indicates the quantity is variable and may vary from application to application.

**HOW TO LOCATE REPAIR PARTS**
WP 0027 00 contains the repair parts listings.

1. Unknown national stock number (NSN) or part number.

   a. Identify the item from the illustration and note the item number.

   b. Look in the repair parts list (RPL) for the figure and item numbers. The NSNs and part numbers are on the same lines as the associated item numbers.

2. Known NSN or part number.

   a. Using the NSN or part number, locate the item in the RPL. Note the pertinent information.

   b. Verify the identity of the item.

**END OF WORK PACKAGE**
Figure 1. RPD Light Machine Gun.
Table 1. RPD Light Machine Gun.

<table>
<thead>
<tr>
<th>Item No</th>
<th>SMR Code</th>
<th>NSN</th>
<th>CAGEC</th>
<th>Part Number</th>
<th>Description And Useable on Codes (UOC)</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PAOZZ</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Assembly, upper receiver and barrel (see Figure 2 for breakdown)</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>PAOZZ</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Tray, feed</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>PAOZZ</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Assembly, cover, feed tray (see Figure 3 for breakdown)</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>PAOZZ</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Pin, retaining, feed tray and feed tray cover</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>PAOZZ</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Assembly, bolt and operating rod (see Figure 4 for breakdown)</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>PAOZZ</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Assembly, lower receiver and buttstock; and Assembly, drive rod (see Figure 5 for breakdown)</td>
<td>1</td>
</tr>
</tbody>
</table>

Figure 1. RPD light machine gun

End of Figure
Figure 2. Upper Receiver and Barrel Assembly.
Table 2. Upper Receiver and Barrel Assembly.

<table>
<thead>
<tr>
<th>Item No</th>
<th>SMR Code</th>
<th>NSN</th>
<th>CAGEC</th>
<th>Part Number</th>
<th>Description And Useable on Codes (UOC)</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PAOZZ</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Assembly, bipod</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>PAOZZ</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Hinge, bipod</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>PAOZZ</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Pin, side, bipod</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>PAOZZ</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Base, front sight</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>PAOZZ</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Aperture, front sight</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>PAOZZ</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Post, front sight</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>PAOZZ</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Spring, flat</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>PAOZZ</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Screw, windage adjustment</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>PAOZZ</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Nut, windage adjustment screw</td>
<td>1</td>
</tr>
<tr>
<td>10</td>
<td>PAOZZ</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Pin, front sight base</td>
<td>2</td>
</tr>
<tr>
<td>11</td>
<td>PAOZZ</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Protector, thread</td>
<td>1</td>
</tr>
<tr>
<td>12</td>
<td>PAOZZ</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Regulator, gas</td>
<td>1</td>
</tr>
<tr>
<td>13</td>
<td>PAOZZ</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Screw, gas regulator</td>
<td>1</td>
</tr>
<tr>
<td>14</td>
<td>PAOZZ</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Handguard, right</td>
<td>1</td>
</tr>
<tr>
<td>15</td>
<td>PAOZZ</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Handguard, left</td>
<td>1</td>
</tr>
<tr>
<td>16</td>
<td>PAOZZ</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Screw, handguard</td>
<td>4</td>
</tr>
<tr>
<td>17</td>
<td>PAOZZ</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Washer</td>
<td>4</td>
</tr>
<tr>
<td>18</td>
<td>PAOZZ</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Handle, charging</td>
<td>1</td>
</tr>
<tr>
<td>19</td>
<td>PAOZZ</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Receiver, upper and barrel</td>
<td>1</td>
</tr>
<tr>
<td>20</td>
<td>PAOZZ</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Pin, takedown</td>
<td>1</td>
</tr>
</tbody>
</table>

End of Figure
Figure 3. Feed Tray Cover Assembly.
Table 3. Feed Tray Cover Assembly.

<table>
<thead>
<tr>
<th>Item No</th>
<th>SMR Code</th>
<th>NSN</th>
<th>CAGEC</th>
<th>Part Number</th>
<th>Description And Useable on Codes (UOC)</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PAOZZ</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Catch, slide, right, rear sight</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>PAOZZ</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Catch, slide, left, rear sight</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>PAOZZ</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Spring, slide, rear sight</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>PAOZZ</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Slide, rear sight</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>PAOZZ</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Leaf, sight, rear sight</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>PAOZZ</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Spring, feed tray cover release latch</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>PAOZZ</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Latch, release, feed tray cover</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>PAOZZ</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Screw, feed tray cover release latch</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>PAOZZ</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Lever, feed tray cover, short</td>
<td>1</td>
</tr>
<tr>
<td>10</td>
<td>PAOZZ</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Lever, feed tray cover, long</td>
<td>1</td>
</tr>
<tr>
<td>11</td>
<td>PAOZZ</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Spring, feed pawl</td>
<td>1</td>
</tr>
<tr>
<td>12</td>
<td>PAOZZ</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Pawl, feed</td>
<td>1</td>
</tr>
<tr>
<td>13</td>
<td>PAOZZ</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Pin, retaining, feed pawl</td>
<td>1</td>
</tr>
<tr>
<td>14</td>
<td>PAOZZ</td>
<td>TBD</td>
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Figure 3. Feed tray cover assembly.

End of Figure
Figure 4. Bolt and Operating Rod Assembly.
Table 4. Bolt and Operating Rod Assembly.

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<th>(3) NSN</th>
<th>(4) CAGEC</th>
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<th>(6) Description And Useable on Codes (UOC)</th>
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Figure 4. Bolt and operating rod assembly.

End of Figure
Figure 5. Lower Receiver and Buttstock Assembly.
Table 5. Lower Receiver and Buttstock Assembly.

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Figure 5. Lower receiver and buttstock assembly.

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