U.S. MARINE CORPS TECHNICAL MANUAL

# OPERATOR'S MANUAL WITH COMPONENTS LIST

FOR

RIFLE, 7.62 MM, AK-47, NSN: 1005-LL-MUS-2940, P/N TBD




DECEMBER 2009
PCN 184 837000 00

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DEPARTMENT OF THE NAVY
Headquarters, U.S. Marine Corps
Washington, DC 20380-0001

31 December 2009

1. This Technical Manual (TM), authenticated for Marine Corps use and effective upon receipt, describes the technical characteristics and components for the rifle, 7.62 mm, AK-47, NSN: 1005-LL-MUS-2940.

2. Submit notice of discrepancies or suggested changes on 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., Albany, Georgia 31704-0343.

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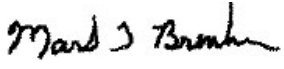

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# LIST OF EFFECTIVE PAGES/WORK PACKAGES

Date of issue for original manual is: 31 December 2009.

**TOTAL NUMBER OF PAGES FOR FRONT AND REAR MATTER IS 24 AND TOTAL NUMBER OF WORK PACKAGES IS 21 CONSISTING OF THE FOLLOWING:**



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## WARNING SUMMARY

This warning summary contains a general safety warning 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

Immediately cease fire if there is an audible popping sound or reduced recoil during firing. DO NOT apply immediate action. DO NOT attempt to remove a projectile that is lodged in the barrel. Either condition could indicate an improper powder burn or a round stuck in the bore. Notify the unit armorer. Failure to follow these warnings may result in injury or death to personnel.

### WARNING

Check the bore to ensure it is clean and free of obstruction. Failure to follow this warning may result in injury or death to personnel.

### WARNING

If the weapon is dropped or jarred with a loaded magazine in place, it could chamber a round and subsequently cause a negligent discharge. Failure to follow this warning may result in injury or death to personnel.

**WARNING**

Be sure the weapon is pointed in a safe direction at all times. If your weapon stops firing with a live round in the chamber of a hot barrel, immediately try to eject the round. If you cannot eject the round within 10 seconds, remove the magazine and wait an additional 15 minutes prior to attempting to fire again. This will prevent a possible round from cooking-off. Keep your face away from the ejection port when clearing a weapon with a hot barrel.

If immediate action fails to return the weapon to operational status, clear the weapon and move the selector lever to the SAFE position. Failure to follow these warnings could result in injury or death to personnel.

**WARNING**

Always assume the weapon is loaded until verified through visual and physical inspection that it is not. Refer to WP 0005 00 for clearing procedures. Confirm the weapon is clear and on SAFE before performing the following procedures. Failure to follow these warnings may result in injury or death to personnel.

**WARNING**

Store ammunition under protective cover and away from excessive heat and extreme temperatures. Failure to follow this warning may result in injury or death to personnel.

**WARNING**

DO NOT attempt to disassemble a cartridge or any of its components. DO NOT polish brass components of cartridges. Failure to follow this warning may result in injury or death to personnel.

**WARNING**

Use only authorized ammunition manufactured to U.S. or NATO specifications.

**WARNING**

DO NOT fire seriously corroded ammunition, dented cartridges, cartridges with loose projectiles, cartridges exposed to extreme heat (135°F) until they are cooled, or cartridges with loose projectiles are pushed in (short rounds). Failure to follow these warnings may result in injury or death to personnel.

**WARNING**

Do not interchange bolts between weapons. Failure to follow this warning may cause injury or death to personnel.

**WARNING**

Ensure the weapon is clear before performing the following procedures. Do not keep live ammunition near the work area. Failure to follow this warning may cause injury or death to personnel.

## WARNING

DO NOT store the weapon with live ammunition in either the chamber or magazine. The magazine should be kept separate from the rifle. Always assume every weapon is loaded until it is determined through visual and physical inspection that it is not loaded. The rifle should be stored with the bolt locked and the hammer forward. Failure to follow these warnings may cause injury or death to personnel.

## WARNING

Do not stand closer than 10 meters from the muzzle when blank cartridges are being fired. Failure to follow this warning may result in serious injury or death to personnel. Only blank ammunition may be fired when the blank firing device is in place. DO NOT use the cap of the combination tool kit as a blank firing device.

## CAUTION SUMMARY

### CAUTION

Ensure ammunition is free of sand, mud, moisture, frost, snow, ice, grease, or other foreign matter.

### CAUTION

Never ride the charging handle. Allow it to move forward on its own.

### CAUTION

The use of oil or grease on cartridges is prohibited.

### CAUTION

After a round is removed, the bolt is under tension.

### CAUTION

Do not dry clean the weapon. Do not use hot water or other solvents to clean the weapon. This will remove the lubricant built up as a result of using CLP.

### CAUTION

Apply only a light coat of CLP to the firing pin and firing pin recess in the bolt.

**CAUTION**

Do not mix lubricants. The weapon must be cleaned thoroughly during any change from one lubricant to another. Do not use dry cleaning solvent (SD).

**CAUTION**

When using the bore brush, do not reverse the direction while the brush is in the bore.

**TECHNICAL MANUAL**
**TM 8370-50007-OR/1**

**MARINE CORPS SYSTEMS COMMAND**
**Quantico, VA, DECEMBER 2009**

# U.S. MARINE CORPS TECHNICAL MANUAL WITH COMPONENTS LIST

# OPERATOR'S MANUAL

# FOR

# RIFLE, 7.62 MM, AK-47, NSN: 1005-LL-MUS-2940, P/N TBD

# Table of Contents

# Table of Contents – Continued

# HOW TO USE THIS MANUAL

## INTRODUCTION

1. This manual contains operating instructions, maintenance instructions, troubleshooting procedures, and supporting information for the AK-47 rifle. 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 located 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, etc.

3. Read through this manual to become familiar with its organization and contents before attempting to operate or maintain the weapon.

## CONTENTS OF THIS MANUAL

1. A *Warning Summary* and *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, *Operating Instructions*, provides information about the proper use of the AK-47 rifle.

5. Chapter 3, *Troubleshooting*, provides symptoms and procedures pertaining to failures that could occur during operation of the AK-47 rifle.

6. Chapter 4, *Maintenance Instructions*, which includes *PMCS Introduction, and General Maintenance Instructions*, provide procedures to maintain the AK-47 rifle at the operator level.

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 AK-47 rifle.

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: “Attach the patch holder to the cleaning rod and insert a patch in the patch holder (WP 0014 00)”, go to WP 0014 00 in this manual for instructions.

## END OF WORK PACKAGE

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# CHAPTER 1

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

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# GENERAL INFORMATION

## SCOPE

1. **Type of Manual**. This manual contains operating and maintenance instructions for the 7.62 x 39 mm, AK-47 rifle and its variants.

2. **Equipment Name and Model Number**. The AK-47 has a fixed stock. The stock and handguards may be made of wood, plastic, or metal. The lower handguard may include a foregrip. The AKS-47 has a folding metal stock.

## MAINTENANCE FORMS AND PROCEDURES

The Marine Corps forms and record procedures used for equipment maintenance will be those prescribed in the current edition of TM 4700-15/1_, *Ground Equipment Record Procedures.*

## CORROSION PREVENTION AND CONTROL (CPC)

Corrosion prevention and control (CPC) of weapons material is a continuing concern. While corrosion is typically associated with rusting metal, it can also include the deterioration of other items such as contacts, injection molded plastics, wood, and foam inserts in the case. Unusual cracking, softening, swelling, or breaking of these or other materials may be signs of corrosion.

## DESTRUCTION OF MATERIAL TO PREVENT ENEMY USE

To render the equipment useless to the enemy, U.S. Marine Corps personnel shall destroy the equipment by weapons fire, smashing, disassembly, burning, or other means.

## END OF WORK PACKAGE

## EQUIPMENT DESCRIPTION AND DATA

### -GENERAL DESCRIPTION

1. The AK-47 rifle is a lightweight, air-cooled, gas-operated, magazine-fed, shoulder-fired weapon that can be selectively fired in the fully or semi-automatic modes.

2. Other features include:

   a. Cleaning Rod. Is stored under the barrel.

   b. Receiver Assembly. Has an adjustable front sight post, front sight windage drum, and rear leaf sight.

   c. Magazine Release. Is located between the magazine well and trigger on the bottom of the receiver.

   d. Selector Lever. Selects the firing mode and prevents the weapon from being charged when in the SAFE position.

   e. Top Cover. Removes from the receiver for easy cleaning and inspection.

   f. Fixed Buttstock. Has a spring-loaded trapdoor which stores the combination tool kit.

## LOCATION AND DESCRIPTION OF MAJOR COMPONENTS

1. **Receiver Assembly**. The receiver assembly includes the barrel, front sight assembly, gas block, gas tube, upper and lower handguards, rear sight assembly, top cover, auto sear, auto sear spring, hammer assembly, trigger assembly, magazine release, selector lever, pistol grip, and buttstock.

2. **Bolt Carrier Assembly and Bolt Assembly**. The bolt carrier assembly includes the gas piston, bolt carrier, charging handle, and houses the bolt assembly. It provides the feeding, chambering, locking, firing, extraction, and ejection of cartridges.

3. **Magazine**. The magazine has a 30-round capacity and can be metal or plastic. It is inserted into the magazine well and is held in place by the magazine release.

4. **Recoil Spring and Guide Rod Assembly**. The recoil spring and guide rod assembly is inserted into the rear of the bolt carrier and returns the bolt carrier assembly to the locked position during the cycle of operation.

5. **Cleaning Rod**. Is stored under the barrel.

6. **Sling**. The sling is adjustable and provides a means of carrying the weapon.

## MAJOR COMPONENTS

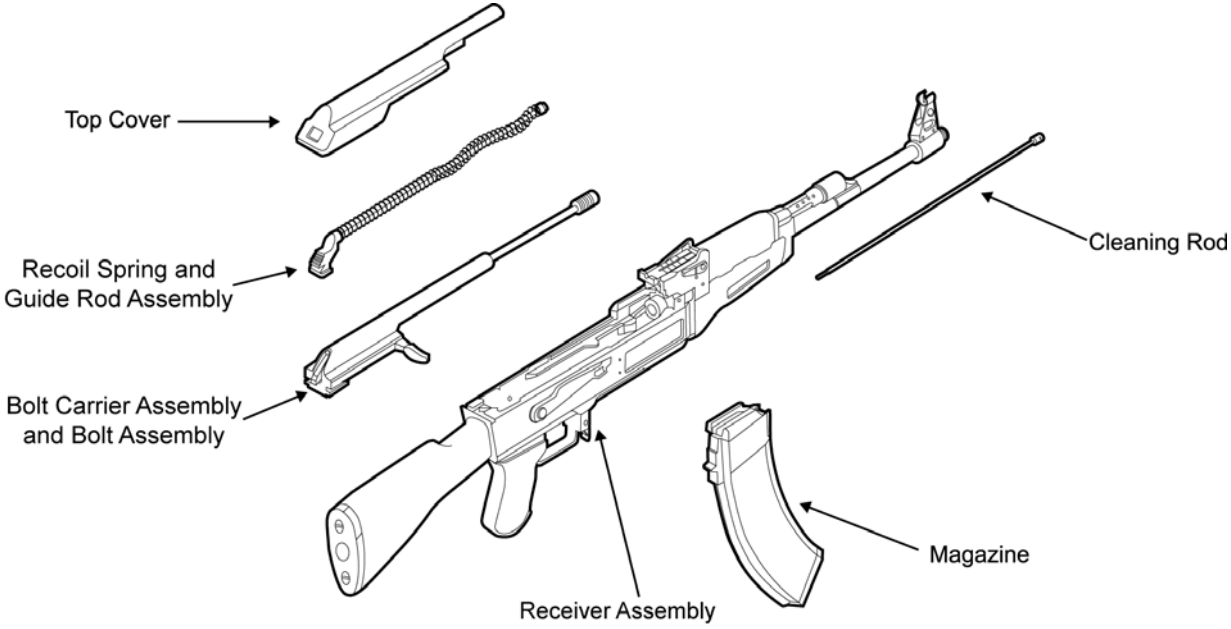


Figure 1. Major Components of the AK-47.

## DIFFERENCES BETWEEN MODELS

The AK-47 rifle can have a fixed or threaded muzzle and it can have a fixed or folding buttstock. The handguards and fixed buttstock can be made of wood, metal, or plastic. The lower handguard may include a fore grip. The country of origin can be identified by the manufacturer's markings or selector lever setting markings on the right side of the receiver. Refer to Tables 2 and 3.

## EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES

Table 1 contains the characteristics, capabilities, and features of the AK-47 rifle. Table 2 contains manufacturer markings of the AK-47. Table 3 contains selector lever setting markings for manufacturers of the AK-47.

Table 1. AK-47 Characteristics.

| AK-47 | |
|---|---|
| Caliber | 7.62 x 39 mm |
| Weight (Empty) | Approx. 9.48 lbs |
| Length:<br>Fixed Buttstock/Folding Buttstock-Extended<br>Folding Buttstock-Folded | <br>Approx. 34.2 inches<br>Approx. 27.5 inches |
| Rifling | 4 grooves, right-hand twist<br>1 turn in 12 inches |
| Muzzle Velocity: | Approx. 2346 fps |
| Sustained Rate of Fire | 12/15 rounds per minute |
| Maximum Effective Range | 400 meters |
| Fire Selector | SAFE, AUTO, SEMI |
| Sights:<br>Front<br><br>Rear | <br>Adjustable front sight post for elevation<br>Adjustable windage drum for windage<br>Adjustable leaf sight for elevation |
| Magazine Capacity | 30 rounds |

Table 2. Manufacturer's Markings.

| Marking | Producer | Marking | Producer | Marking | Producer |
|---|---|---|---|---|---|
|   | Bulgaria |   | Bulgaria |   | Bulgaria |
|   | China/PRC (Polytec) |   | China/PRC |   | China/PRC |
|   | China/PRC |  | China/PRC |   | China/PRC (Norinco) |
|   | China/PRC |  | E. Germany |  | East Germany |
|  | East Germany (Suhl Factory) |   | East Germany (Ernst Thaelmann Factory) |  | Egypt |

Table 2. Manufacturer's Markings - Continued.

| Marking | Producer | Marking | Producer | Marking | Producer |
|---|---|---|---|---|---|
|  | Iraq |  | North Korea |   | Poland |
|  | Romania |  | Russia |  | Russia (Izhevsk Factory) |
|  | Russia (Polyany Arsenal) |  | Russia (Tula Arsenal) |  | Russia (Tula Arsenal) |
|  | Russia (Izhevsk Factory) | | | | |

Table 3. Selector Lever Setting Markings.

| Upper or AUTO Symbol | Lower or SEMI Symbol | Producer | Indigenous Name or Remarks |
|---|---|---|---|
| AB | EA | Bulgaria | AK-47 & AKM |
|  |  | China/PRC | Early production |
| L | D | China/PRC | Type 56 & 56-1 |
| 30 | 1 | Czechoslovakia | M58 |
| D | E | East Germany | May not have a cleaning rod. |
| D | E | Egypt | MISR |
| ● ● ● | ● | Finland | Rynnakokivaari (M60 & M62) |

Table 3. Selector Lever Setting Markings - Continued.

| Upper or AUTO Symbol | Lower or SEMI Symbol | Producer | Indigenous Name or Remarks |
|---|---|---|---|
|  | 1 | Hungary | AKM-63 & AMD-65 |
| L | D | Iran | KLS (AKM); KLF (AKMS) |
|  |  | Iraq | TABUK (AKM) |
|  |  | North Korea | Type 58 (AK-47) & Type 68 (AKM) |
| C | P | Poland | PMK, PMK-DGn & KbK AK |
| FA | FF | Romania | M63; “S” at top for SAFE position |

Table 3. Selector Lever Setting Markings - Continued.

| Upper or AUTO Symbol | Lower or SEMI Symbol | Producer | Indigenous Name or Remarks |
|---|---|---|---|
| AB or AV | OA or O | Russia | AK-47, AKS-47, AKM & AKMS |
| R | J | Yugoslavia | “U” at top for SAFE position |

**END OF WORK PACKAGE**

## PRINCIPLES OF OPERATION

### SEMI-AUTOMATIC

1. **Cycle of Operation**. The cycle of operation is similar in all small arms. Knowledge of what happens during the cycle of operation will help both the operator understand the cause of and remedy for various stoppages.

2. **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.

3. **Description of Eight Steps**. The eight steps of the cycle of operation are explained below. Assume that a full magazine is loaded in the weapon.

   a. Feeding. A magazine containing ammunition is inserted into the receiver. The magazine follower forces the top cartridge into the path of the bolt. The magazine follower is under pressure from the magazine spring.

   b. Chambering. Chambering occurs when a cartridge is driven into the chamber as the bolt goes forward under pressure from the expanding action spring. The bolt picks up the top cartridge in the magazine and drives it forward into the chamber. Chambering is complete when the extractor snaps into the extracting groove on the cartridge.

   c. Locking. Locking occurs when the bolt is fully closed. The closed bolt prevents the loss of gas pressure until the bullet has left the muzzle. The bolt is rotated by the cam pin as the bolt carrier completes its forward motion, locking the bolt into the barrel extension.

   d. Firing. Firing occurs when the firing pin strikes the primer in the rear of the cartridge. When the trigger is pulled, the trigger hooks disengage from the hammer and the hammer is released. The hammer moves forward under pressure from the hammer spring and strikes the tang of the firing pin. This drives the firing pin against the primer, which in turn ignites the propellant in the cartridge case and propels the bullet through the barrel into its trajectory.

e. Unlocking. Unlocking occurs after a cartridge is fired. As the bullet is forced through the barrel by expanding gases, a small amount of gas enters the gas tube and pushes the gas piston, and the rest of the bolt carrier assembly and bolt assembly, to the rear. Excessive gas is vented through the ports in the gas tube. As the bolt carrier moves rearward, the bolt rotates in the bolt carrier and unlocks from the barrel extension. Any remaining gas follows the bullet out of the muzzle.

f. Extracting. As the bolt moves to the rear, the bolt extractor holds the base of the cartridge 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 rear, the empty cartridge case is held by the extractor. The base of the cartridge strikes the fixed ejector in the receiver. The extractor serves as a pivot point for the cartridge, which is then deflected out of the ejection opening of the receiver.

h. Cocking. As the bolt moves to the rear, the bottom portion of the bolt carrier rides over the hammer, pushing the hammer down and to the rear until it is caught by the disconnector, if the trigger is still held to the rear, or by the trigger hook(s), if the trigger is released.

## AUTOMATIC

1. **Cycle of Operation**. The cycle of operation is similar to semi-automatic operation, with some minor differences in operation due to differences in internal fire control components.

2. **Eight Steps**. The automatic cycle of operation contains the same fundamental eight steps as the semi-automatic.

3. **Description.** With the selector lever in the AUTO position, the weapon will fire repeatedly as long as the trigger is held or until the magazine empties. This is accomplished through the use of an auto sear that momentarily holds the hammer rearward until the bolt has fed, chambered, and locked on the next round.

   a. The trigger is pulled and held, releasing the hammer, which fires the first round.

   b. As the bolt carrier moves rearward, the hammer is forced to the rear and is caught by the auto sear.

   c. As the bolt carrier returns to the locked position, the auto sear releases the hammer and the next round is fired.

   d. The sequence repeats as long as the trigger is held rearward or the magazine empties.

   e. The cycle of operation will stop when the trigger is released and the hammer is caught by the trigger hooks.

**END OF WORK PACKAGE**

# CHAPTER 2

# OPERATING INSTRUCTIONS

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## DESCRIPTION AND USE OF OPERATOR CONTROLS AND INDICATORS

### GENERAL

This section describes the various controls for the proper operation of the 7.62 mm AK-47 rifle, and accessories.

### OPERATOR CONTROLS AND INDICATORS

1. **Right Side View**. Refer to Figure 1.

   a. Front Sight. Allows the operator to adjust the windage and elevation of the strike of the round.

   b. Bayonet Lug. Allows for attachment of a bayonet.

   c. Rear Sight. Contains the rear sight aperture on the end of the sight leaf. The slider on the sight leaf to allow the operator to adjust for target distance.

   d. Charging Handle. Is part of the bolt carrier and allows the operator to chamber a round and cock the weapon.

   e. Magazine. Contains up to 30 rounds of 7.62 x 39 mm ammunition.

   f. Magazine Release. Allows the operator to release the magazine to remove it from the weapon.

   g. Selector Lever. Allows the operator to select the mode of fire and place the weapon on SAFE.

h. Trigger. Fires the weapon when pulled.

i. Sling. Provides the operator a means of carrying the weapon

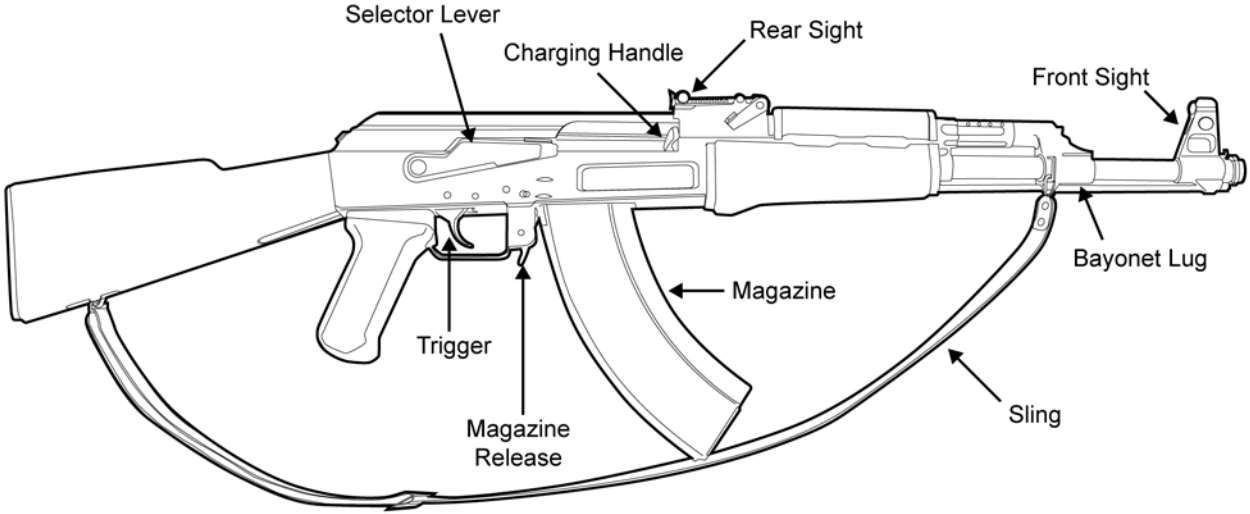


Figure 1. Right Side View of the Weapon.

2. **Sling Swivels**. The sling swivels allow the operator to attach a sling to the weapon. Refer to Figure 2.

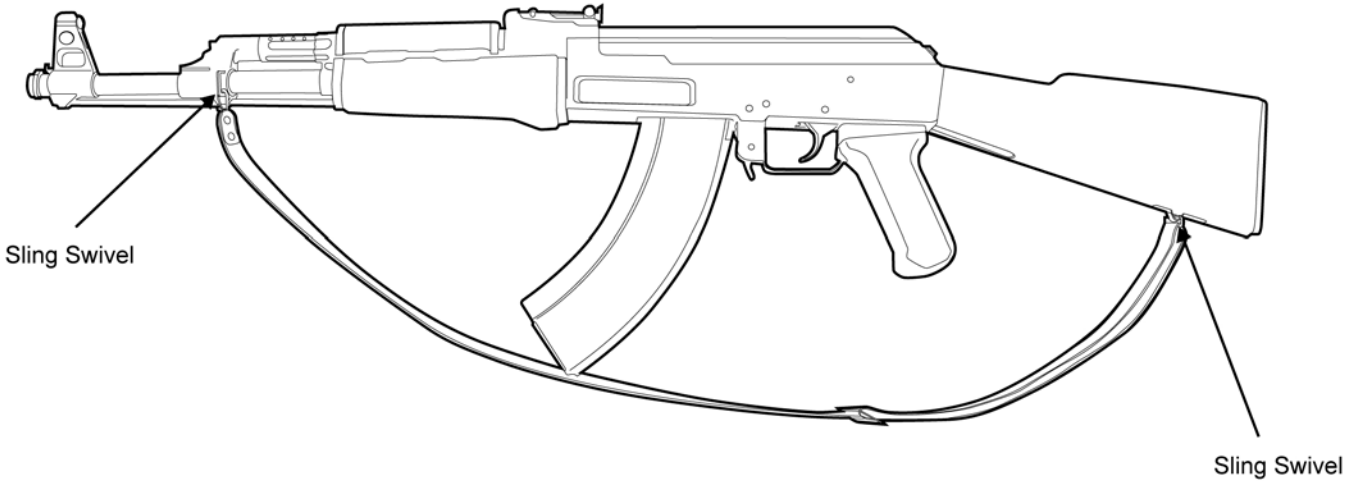


Figure 2. The Sling Swivels.

3. **Front Sight**. Refer to Figure 3.

   a. Front Sight Post. The front sight post is screwed up or down when zeroing the rear sight. The AK-47 combination tool (or the AK-47 front sight adjustment tool) is used to adjust the front sight.

   b. The Windage Drum. The windage drum is moved left or right to adjust for windage. An AK-47 front sight adjustment tool (or an M249 front sight adjustment tool) is used to adjust the windage drum.

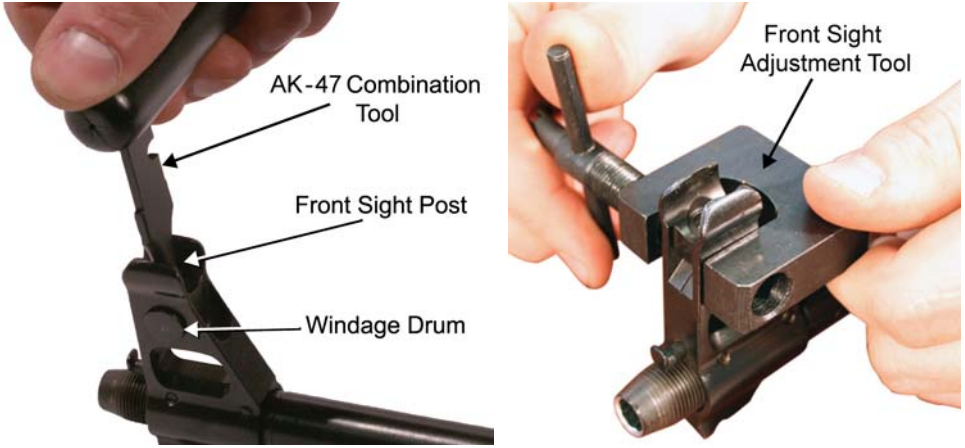


Figure 3. Using the Front Sight and the AK-47 Front Sight Adjustment Tool.

4. **Rear Sight**. Refer to Figure 4.

   a. Rear Sight Aperture. The rear sight aperture is on the end of the sight leaf.

   b. Sight Leaf. The sight leaf has distance markings for up to 800 meters.

   c. Slide Assembly. To adjust for distance to target, move the slide assembly to the proper distance marking on the sight leaf (e.g. “S” for less than 100 meters, “1” for 100 meters, and “2” for 200 meters).

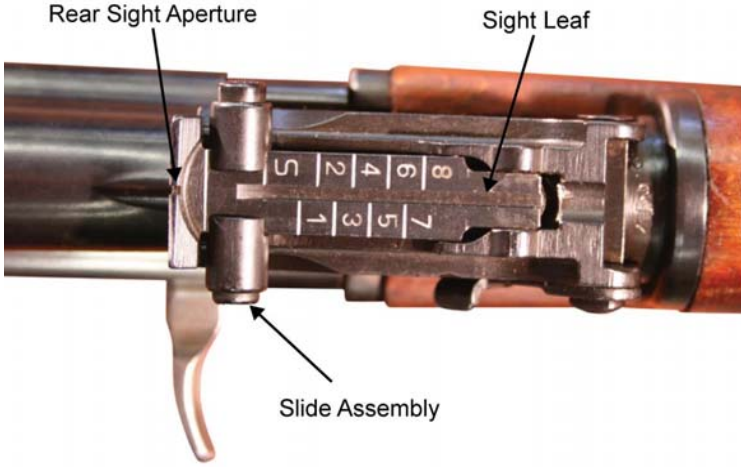


Figure 4. The Rear Sight with the Slide Assembly set on “S”.

5. **Buttstock Assembly**. AK-47 models with wooden buttstocks have a storage area for the AK-47 combination tool kit inside the buttstock that is accessible through a trapdoor in the buttplate. Refer to Figure 5.

Figure 5. Accessing the AK-47 Combination Tool Kit.

6. **Selector Lever**.

a. SAFE. The weapon will not fire when the selector lever is set on SAFE. The selector lever must be off SAFE to chamber a round or to clear the weapon. Always place the selector lever on SAFE when inserting and removing a magazine. The selector lever can be set on SAFE even when the hammer is forward. Refer to Figure 6.


Figure 6. Selector Lever Placed on SAFE.

b. SEMI. When the selector lever is placed on SEMI, the weapon will fire one round each time the trigger is pulled. The selector lever must be set on SEMI or AUTO to chamber a round or to clear the weapon. Refer to Figure 7.


Figure 7. The Selector Lever Placed on SEMI.

c. AUTO. When the selector lever is placed on AUTO, the weapon will continue to fire as long as the trigger is held to the rear or until the magazine is empty. The selector lever must be set on SEMI or AUTO to chamber a round or to clear the weapon. Refer to in Figure 8.


Figure 8. The Selector Lever Placed on AUTO.

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# OPERATION UNDER USUAL CONDITIONS

## GENERAL

This section contains instructions for the operation of the 7.62 mm, AK-47 rifle under conditions of moderate temperature and humidity.

## PREPARATION FOR FIRING

**WARNING**

Check the bore to ensure it is clean and free of obstruction. Failure to follow this warning may result in injury or death to personnel. Do not use the cap of the combination tool kit as a blank firing device.

1. Ensure the weapon is properly lubricated.
2. Check the weapon for correct assembly and proper operation.
3. Check the ammunition for grade, identification markings, and serviceability.
4. Operate and inspect the controls for satisfactory functionality.

## PLASTIC MAGAZINE

In addition to metal AK-47 magazines there are plastic AK-47 magazines, which are lighter and more water resistant.

## LOADING A MAGAZINE

**CAUTION**

Ensure ammunition is free of sand, mud, moisture, frost, snow, ice, grease, or other foreign debris. Also, check the ammunitionfor dents in cartridges or bad primers.

To load ammunition into a magazine, follow these instructions:

1. Hold the magazine with the one hand, with the follower facing up.
2. With the opposite hand, insert the rounds into the feed mechanism of the magazine.
3. Ensure the rounds are seated against the rear of the magazine.

## LOADING THE WEAPON

**WARNING**

If the weapon is dropped or jarred with a loaded magazine in place, it could chamber a round and subsequently cause a negligent discharge. Failure to follow this warning may result in injury or death to personnel.

**CAUTION**

NEVER ride the charging handle forward. Allow it to move forward on its own.

1. Set the selector lever on SAFE.

2. Seat the front lip of the magazine against the front of the magazine well and rock the magazine up and to the rear, until an audible “click” is heard indicating that the magazine release has locked the magazine in place. Push up and pull down on the magazine to ensure that it is firmly seated. Refer to Figure 1.


Figure 1. Inserting a Magazine.

3. Place the selector lever on SEMI.

4. Charge the weapon to chamber the first round. DO NOT ride the charging handle forward.

5. Place the selector lever on SAFE.

## UNLOADING AND CLEARING THE WEAPON

1. Point the weapon in a safe direction and set the selector lever on SAFE.

2. To remove the magazine, press the magazine release toward the magazine and rock the magazine down and forward. Refer to Figure 2.


Figure 2. Removing the Magazine.

6. Place the selector lever on SEMI or AUTO. Refer to Figure 3.


Figure 3. Selector Lever on SEMI (left) or AUTO (right).

7. Pull and hold the charging handle to the rear.

8. Visually and physically inspect the chamber and receiver to ensure they contain no ammunition.

9. Release the charging handle, allowing it to return forward. Set the selector weapon on SAFE.

10. The weapon is now cleared and SAFE.

## SETTING THE SIGHTS AND FIELD FIRING TECHNIQUES

### NOTES

Detailed zeroing procedures will be covered in a separate period of instruction. This section will describe how to set the front and rear sight to adjust the strike of the round

The front sight post and windage drum are used to zero the rear sight. The rear sight assembly is used to adjust for distance to target during field fire.

A rule of thumb for adjusting the front sight post and the windage drum is to move the post or drum in the OPPOSITE direction of the desired adjustment of the strike of the round.

1. **Front Sight**.

   a. Front Sight Post. Screwing the front sight post down will move the strike of the round UP, screwing the front sight post up will move the strike of the round DOWN. The combination tool (or the handle of the front sight adjustment tool) is used to screw the front sight post down or up. Refer to Figure 4.

   b. The Windage Drum. Pushing the windage drum left will move the strike of the round RIGHT, pushing it right will move the strike of the round LEFT. The front sight adjustment tool (or an M249 front sight adjustment tool) is used to move the windage drum. Refer to Figure 4.

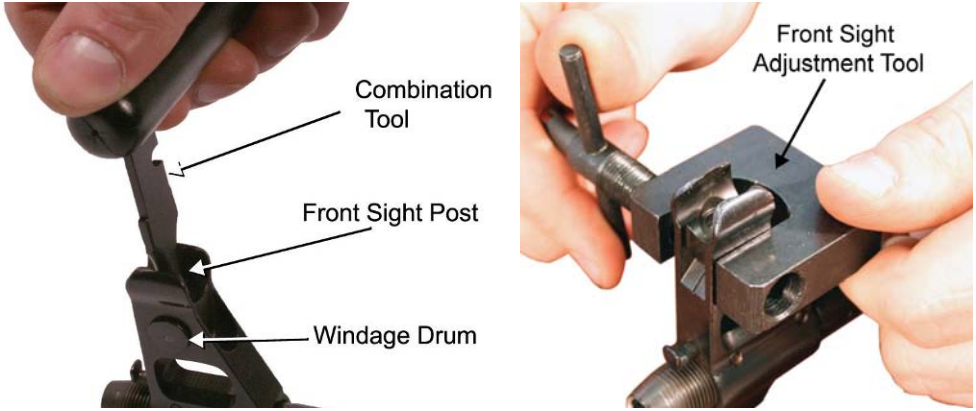


Figure 4. Setting the Front Sight Post and the Windage Drum.

2. **Rear Sight**. The rear sight aperture is on the end of the sight leaf. Moving the slide assembly to different distance markings on the sight leaf adjusts for distance to target. The slide assembly snaps into place on the distance markings on the sight leaf. Set the slide on “S” for ranges under 100 meters, “1” for 100 meters, “2” for 200 meters. Refer to Figure 5.

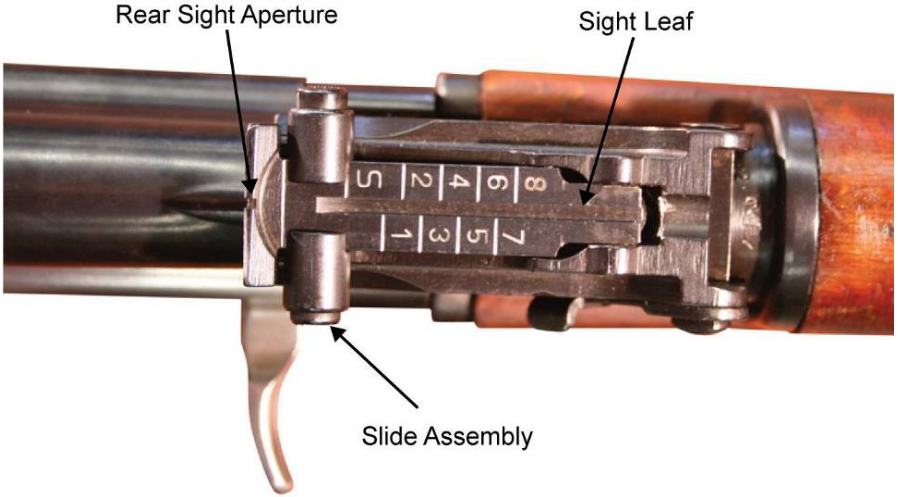


Figure 5. The Rear Sight with the Slide Assembly Set on the “S” Setting.

3. **Aiming**. Obtain a good sight picture and good sight alignment with the front sight post centered in the rear sight aperture.

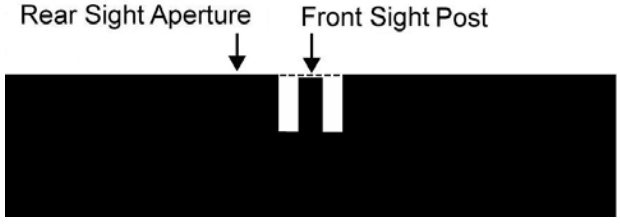


Figure 6. The Front Sight Post Centered in the Rear Sight Aperture.

4. **Firing**. Squeeze the trigger and fire.

## FAILURE TO FIRE

### WARNINGS

If a noticeable difference in sound or recoil of the weapon is experienced, stop firing. Either condition could indicate an incomplete powder burn or a projectile lodged in the bore.

## WARNINGS - CONTINUED

If the weapon stops firing with a live round in the chamber of a hot barrel, remove the round immediately. If the round cannot be removed within 10 seconds, wait 15 minutes with the weapon pointed in a safe direction. This will avoid possible injury to personnel from the cook-off of the chambered round. Keep the face away from the ejection port while clearing a hot chamber. Failure to follow these warnings may result in injury or death to personnel.

If the weapon stops firing, seek cover and perform the following actions:

1. **Immediate Action.** Follow the acronym SPORTS:

   a. Slap upward on the magazine to ensure it is properly seated.

   b. Pull and hold the charging handle to the rear.

   c. Observe the chamber for rounds and debris.

   d. Release the charging handle to strip a round from the magazine.

   e. Tap the charging handle forward to ensure the bolt is fully seated.

   f. Shoot the weapon.

2. **Notify the Unit Armorer**. If immediate action (step 1) has been applied and the weapon fails to fire, notify the unit armorer when the situation permits.

3. **Remedial Action**.

**WARNING**

If the weapon stops firing with a live round in the chamber of a hot barrel, remove the round immediately. If the round cannot be removed within 10 seconds, wait 15 minutes with the weapon pointed in a safe direction. This will avoid possible injury to personnel from cook-off of the chambered round. Keep the operator's face away from the ejection port while clearing a hot chamber. Failure to follow these warnings may result in injury or death to personnel.

Use the following steps to clear a cartridge case stuck in the chamber.

a. Remove the magazine. Refer to *Unloading and Clearing the Weapon* in this work package.

b. Pull the charging handle and hold it to the rear.

c. Insert the cleaning rod into the barrel from the muzzle end and tap out the cartridge case. Refer to Figure 7.

Figure 7. Cleaning Rod Inserted into the Muzzle.

4. **Projectile Lodged in the Barrel**.

**WARNING**

Immediately cease fire if an audible popping sound or reduced recoil is experienced during firing. DO NOT apply immediate action. DO NOT attempt to remove a projectile that is lodged in the barrel. Notify the unit armorer. Failure to follow these warnings may result in injury or death to personnel.

Use the following steps if projectile is lodged in the barrel:

a. Retract the bolt slowly and remove the spent cartridge case.

b. Clear the weapon and check for unburned powder grains in the receiver or the bore. Check for a projectile lodged in the bore.

c. Remove unburned powder from the bore before resuming fire.

d. If a projectile is lodged in the bore, notify the unit armorer.

## AMMUNITION

Only approved 7.62 mm ammunition should be used in the AK-47 rifle.

## USING TRACER AMMUNITION

Use tracer ammunition to help hit targets during hours of darkness or low light levels. Tracer ammunition is not as effective as ball ammunition against most targets. When available, mix tracer ammunition with ball ammunition in the magazine.

## CHANGING MAGAZINES

In combat, insert a fully loaded magazine before the one being used is completely empty (if possible).

## CARE, HANDLING, AND PRESERVATION

1. **Packing**. Ammunition is packed to withstand conditions ordinarily encountered in the field. Care must be exercised to keep packing from becoming broken or otherwise damaged. All broken packing must be repaired immediately and all markings must be transferred to replacement parts. Ammunition may be packed in metal-lined wooden boxes or metal boxes. Damaged boxes containing metal liners should be air-tested and sealed if equipment to perform this work is available.

**WARNING**

Store ammunition under protective cover and away from excessive heat and extreme temperatures. Failure to follow this warning may result in injury or death to personnel.

2. **Storing in the Open**. When it is necessary to leave ammunition in the open, raise it at least 6 inches from the ground and cover it with tarpaulins. Whenever possible, use wood between each row to permit full air circulation. Dig suitable trenches to prevent water from running under the stack. Arrange tarpaulins to permit air circulation through the stack, keeping the tarps at least 6 inches from the top, ends, and sides of the stack.

3. **Moisture and High Temperature**.

   a. Keep boxes closed until the ammunition is needed. Ammunition removed from airtight containers, particularly in damp climates, can corrode and become unserviceable.

   b. Protect the ammunition from high temperatures and prolonged exposure to direct sun rays. Such exposure is likely to affect the ballistic performance of the cartridges. The combination of high temperature and humidity can destabilize propellant and the tracer mixture in tracer ammunition.

**WARNING**

DO NOT attempt to disassemble a cartridge or any of its components. DO NOT polish brass components of cartridges. Failure to follow this warning may result in injury or death to personnel.

**CAUTION**

The use of oil or grease on cartridges is prohibited.

4. **General Care**.

   a. Protect the ammunition from sand, mud, moisture, frost, snow, ice, grease, and other foreign matter. Immediately wipe off wet or dirty ammunition with a clean, dry cloth. If corrosion forms on cartridges, wipe it off with a clean, dry cloth.

   b. Brass cartridge cases are easily dented. Protect them from damage.

   c. Protect a partially used box of ammunition from unauthorized use by firmly fastening the box cover in place.

## PREPARATION FOR FIRING

After removing all packing materials, cartridges for the AK-47 are ready for use. Return unfired cartridges to their original packing or pack them in suitable boxes. Use these cartridges first in subsequent firings in order to reduce stocks of opened containers. Mark packing containers with the cartridge nomenclature, the quality of the cartridges, and the ammunition lot number.

## PRECAUTIONS IN FIRING

### WARNINGS

Use only authorized ammunition manufactured to U.S. or NATO specifications.

DO NOT fire seriously corroded ammunition, dented cartridges, cartridges with loose projectiles, cartridges exposed to extreme heat (135°F or more) until they are cooled, or

cartridges with loose projectiles are pushed in (short rounds). Failure to follow these warnings may result in injury or death to personnel.

## SLING

1. The sling is affixed to the weapon by first unlooping the sling from its buckle, then threading it through the rear sling swivel on the buttstock.

2. Rethread the sling through its buckle.

3. Snap the sling hook onto the front sling swivel, located on the left side of the gas block. Refer to Figure 8.

Figure 8. Sling Attached to the Weapon.

4. Adjust the sling for fit using the sling buckle.

## BAYONET

1. To install the bayonet, slide the guard over the thread protector and slide the butt of the bayonet over the bayonet lug until the bayonet snaps into place on the lug. Ensure the bayonet is secure. Refer to Figure 9.

2. To remove the bayonet from the weapon, press the release button on the butt of the bayonet and slide the bayonet away from the bayonet lug and off the thread protector. Refer to Figure 9.

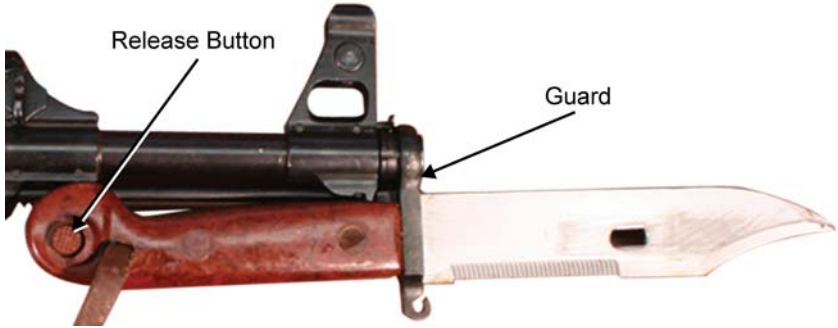


Figure 9. Bayonet Attached to the Weapon.

## END OF WORK PACKAGE

## OPERATION UNDER UNUSUAL CONDITIONS

1. **Extreme Cold Climate - Arctic**.

   a. Use lubricating oil, arctic, weapons (LAW) to clean and lubricate the weapon daily. Apply a light coat of LAW to all functional parts. Do not use cleaner, lubricant, and preservative (CLP).

   b. Cleaning and lubrication should be done inside a warm room. The weapon should be at room temperature if possible.

   c. To prevent condensation and freezing, allow gradual cooling by keeping the weapon covered when moving from a warm area to a cold area.

   d. Always attempt to keep the weapon dry. Do not lay a warm weapon directly in snow or ice.

   e. Unload and hand function the weapon every 30 minutes to prevent freezing of functional parts.

   f. When moving a cold weapon into a warm area, condensation will form in and on the weapon. If possible, leave the weapon in a protected, cold area outside. When the weapon is brought into a warm area, as it reaches room temperature, it should be disassembled and wiped dry several times.

   g. Ensure the insides of the magazines and ammunition are wiped dry. Moisture can freeze and cause malfunctions. Do not lubricate ammunition.

h. The use of a muzzle cap, a protective magazine bag, and an overall weapon cover will help protect the weapon. Use the items whenever the tactical situation permits.

i. Check the bore for snow or ice obstructions before firing the first shot.

2. **Hot, Humid Climate - Jungle**.

a. Use CLP to clean and lubricate the weapon daily. Inspect hidden surfaces of the bolt carrier assembly, bolt assembly, and receiver for corrosion. Pay close attention to all spring-loaded detents on the weapon.

b. To help prevent corrosion, remove hand prints with a dry wiping rag. Lubricate lightly with CLP.

c. Unload and check the insides of magazines frequently for corrosion and moisture. Wipe ammunition dry before reloading.

d. Use a magazine bag and muzzle cap for protection when the tactical situation permits.

e. Protect the weapon from rain whenever possible.

3. **Hot, Dry Climate - Desert**.

a. Use CLP to clean and lubricate the weapon daily. Use a smaller than normal amount of CLP for cleaning.

b. Dust and sand will get into the weapon and magazines causing malfunctions. Perform a thorough cleaning of the weapon daily and after all firing missions.

c. Corrosion is less likely to form on metal parts in a dry climate. Therefore, lubrication should only be applied to internal working surfaces and functioning parts. Use normal amounts of CLP for internal lubrication. Unload magazine and dry the inside of magazines daily. Wipe down ammunition daily. DO NOT lubricate magazines.

d. Use an overall weapon protection cover, muzzle cap, and spare magazine bags when the tactical situation permits to keep blowing sand and debris out of the weapon and magazines.

4. **Heavy Rain and Fording Operations - All Climates**.

a. Perform maintenance in accordance with climate conditions.

**WARNING**

DO NOT fire the weapon if water is present in the barrel. Failure to follow this warning may result in injury or death to personnel.

b. Always attempt to keep weapon dry. Always drain any water from the barrel prior to firing. Dry the bore with a clean swab.

5. **Nuclear, Biological, and Chemical (NBC)**. General procedures can be found in *Marine Corps Warfighting Publication: MCWP 3-37.2A_ and MCWP 3-37.3_*.

**END OF WORK PACKAGE**

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# CHAPTER 3

# TROUBLESHOOTING

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# TROUBLESHOOTING INTRODUCTION

## TROUBLESHOOTING

This chapter contains troubleshooting information for locating and correcting malfunctions that may develop with the AK-47. The *Troubleshooting Symptom Index* (WP 0008 00) will serve as a quick reference to aid in troubleshooting the weapon. Table 1, in WP 0009 00, is a guide for troubleshooting.

Perform the tests, inspections, and corrective actions in the order shown in the table. The table does not cover all possible malfunctions; it includes only the more common malfunctions. If the weapon malfunction is not listed or actions listed do not correct the fault, notify the unit armorer.

## END OF WORK PACKAGE

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## TROUBLESHOOTING SYMPTOM INDEX



**END OF WORK PACKAGE**

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## TROUBLESHOOTING PROCEDURES

### GENERAL

Table 1 contains troubleshooting procedures for the AK-47 rifle. In all cases where probable cause is not explained or corrective action does not correct the malfunction, evacuate the weapon to the unit armorer.

Table 1. Troubleshooting Procedures.

| Malfunction | Probable Cause | Corrective Action |
|---|---|---|
| 1. Weapon will not Fire. | a. Selector lever on SAFE. | Place the selector lever on AUTO or SEMI. |
| | b. Magazine not properly seated. | Reseat the magazine. |
| | c. Magazine damaged. | Replace the magazine. |
| | d. Light indentation on cartridge primer. | Evacuate to the unit armorer. |
| | e. Defective ammunition. | Remove and discard ammunition. |
| | f. Excessive carbon on the firing pin or in the firing pin recess. | Clean the firing pin and/or the firing pin recess. Refer to WP 0014 00. |
| 2. Weapon Double Fires on SEMI. | Worn auto sear, auto sear spring, disconnector, hammer, or broken firing pin. | Evacuate to the unit armorer. |

Table 1. Troubleshooting Procedures – Continued.

| Malfunction | Probable Cause | Corrective Action |
|---|---|---|
| 3. Failure to Unlock | Dirty or burred bolt. | Clean if dirty. Evacuate to the unit armorer if burred. |
| 4. Failure to Extract. | a. Dirty or corroded ammunition. | Remove the magazine. Push the jammed cartridge out with the cleaning rod. |
| | b. Broken extractor spring. | Evacuate to the unit armorer. |
| | c. Carbon in chamber. | Clean the chamber. Refer to WP 0014 00. |
| | d. Restricted movement of the bolt carrier assembly and bolt assembly. | Remove, clean, and lubricate the bolt carrier assembly and bolt assembly. Refer to WP 0014 00 and WP 0015 00. |
| | e. Fouling or carbon in the extractor recess or lip. | Clean the extractor. Refer to WP 0014 00. |
| | f. Frozen extractor. | Evacuate to the unit armorer. |
| 5. Failure to Eject Cartridge Case from the Weapon. | a. Ejector is defective. | Evacuate to the unit armorer. |
| | b. Fouled chamber. | Clean and lubricate the chamber. Refer to WP 0014 00. |

Table 1. Troubleshooting Procedures – Continued.

| Malfunction | Probable Cause | Corrective Action |
|---|---|---|
| 6. Failure to Feed. | a. Magazine not fully seated. | Fully seat the magazine. |
| | b. Dirty or corroded ammunition. | Clean or replace the ammunition. |
| | c. Dirty magazine. | Clean the magazine. Refer to WP 0014 00. |
| | d. Defective magazine. | Replace the magazine. |
| | e. Too many rounds loaded into the magazine. | Remove the excess rounds. |
| 7. Double Feed. | Defective magazine. | Replace the magazine. |
| 8. Failure to Chamber. | a. Dirty or corroded ammunition. | Clean or replace the ammunition. |
| | b. Damaged ammunition. | Replace the ammunition. |
| | c. Carbon in the chamber or on the gas tube. | Clean the chamber or gas tube. Refer to WP 0014 00. |
| 9. Bolt Fails to Lock. | a. Dirt, corrosion, or carbon build-up in the locking lugs of the bolt or barrel. | Clean the lugs. Refer to WP 0014 00. |
| | b. Dent in the receiver. | Evacuate to the unit armorer. |
| | c. Weapon is loaded improperly. | Clear the weapon and reload properly. Refer to WP 0005 00. |

Table 1. Troubleshooting Procedures – Continued.

| Malfunction | Probable Cause | Corrective Action |
|---|---|---|
| 10. Short Recoil. | Weapon is fouled or dirty. | Clean the bolt carrier assembly and gas tube. Refer to WP 0014 00. If cleaning does not correct the malfunction, evacuate to unit armorer. |
| 11. Selector Lever Binds. | a. Lack of lubrication. | Lubricate with cleaner, lubricant, and preservative (CLP). |
| | b. Dirt or sand under the trigger. | Clean the trigger. Refer to WP 0014 00. |

**END OF WORK PACKAGE**

# CHAPTER 4

# MAINTENANCE INSTRUCTIONS

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## SERVICE UPON RECEIPT

### INSPECTING THE WEAPON

**WARNING**

Confirm the weapon is unloaded and on SAFE before performing the following procedures. Failure to follow this warning may cause injury or death to personnel.

Inspect all assemblies for missing, broken, or loose parts. Refer to Table 1. Inspect all assemblies for cracks, dents, burrs, excessive wear, rust, or corrosion. Refer to Table 1. Ensure all items are cleaned and lubricated. If defects described in this work package are noted, bring them to the immediate attention of the unit armorer. The unit armorer will determine if a defect exists.

Table 1. Points of Inspection.

| Item Inspected | Procedure/Condition |
|---|---|
| Receiver Assembly | Check the entire assembly for damage, corrosion, and overall finish. The gas tube should be free of dents. The handguards, pistol grips, and buttstock should be secure and free of damage. Up to three cracks are allowed in the fixed buttstock, unless near pins and screws or if they limit serviceability. The magazine release and selector lever should move freely without binding. The selector lever must engage and retain its position when set in each firing-mode. Check the ejector for excessive wear, cracks, or bends. |
| Rear Sight | Check the assembly for damage and to verify it is tight and secure. The slide assembly should “click” into place on the range markings on the sight leaf. |
| Front Sight | Check that the front sight post is not bent or damaged and that it adjusts up and down. Ensure the windage drum adjusts left and right with the front sight tool. |
| Bolt Carrier Assembly and Bolt Assembly | Cycle the charging handle back and forth, feeling for any roughness that may indicate wear, corrosion, or dirt in the receiver. Check the firing pin for chipping or damage. Check the extractor for chips, wear, and spring tension. |

Table 1. Points of Inspection - Continued.

| Item Inspected | Procedure/Condition |
|---|---|
| Trigger Mechanism | The trigger moves smoothly without binding when the selector lever on AUTO and SEMI, NOT when on SAFE. |
| Top Cover | The top cover should be secure and free of major dents the hinder smooth movement of the bolt carrier assembly and bolt assembly. |
| Cleaning Rod | Check for bends or breaks. Ensure the threading will accept combination tool kit accessories. |
| Combination Tool Kit | Ensure all the accessories are present. Refer to Figure 1. |
| Magazine Assembly | Check for dents, spring tension, and serviceability of the follower. Check for correct position of cartridges in the magazine. Check that the magazine fits and releases properly. |
| Sling | Check for mold, tears, cuts, and cracks. All hooks must be present. Clean with soap and water. Let air dry. |

For the combination tool kit accessories, refer to Figure 1.

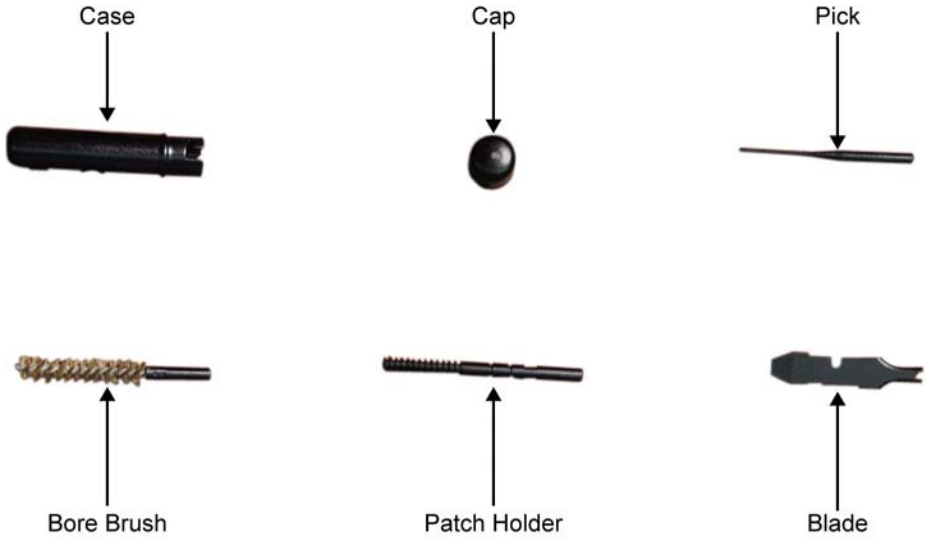


Figure 1. Combination Tool Kit Accessories.

**END OF WORK PACKAGE**

# PREVENTIVE MAINTENANCE CHECK AND SERVICES (PMCS) INTRODUCTION

## GENERAL

The operator will perform *Preventive Maintenance Checks and Services* (*PMCS*) (WP 0012 00) before, during, and after firing a 7.62 mm, AK-47 rifle, along with disassembly and reassembly procedures required for PMCS.

## END OF WORK PACKAGE

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# PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS), INCLUDING LUBRICATION INSTRUCTIONS

## THIS WORK PACKAGE DESCRIBES

Preventive Maintenance Checks and Services (PMCS) Procedures and Lubrication Instructions.

## INITIAL SETUP

**Maintenance Level**

Operator

**Equipment Conditions**

Weapon cleared (WP 0005 00)

**References**

WP 0005 00
WP 0014 00
WP 0015 00

## 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 minimal interference between the persons performing checks simultaneously on the same end item.

## EXPLANATION OF COLUMNS

1. **Item Number**. Numbers in this column act as references. When completing an *Equipment Inspection and Maintenance Worksheet*, include the item number for the check/service item. Item numbers appear in the order in which the checks and services are to be performed.

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

   a. BEFORE procedures are performed prior operating the weapon for its intended mission.

   b. DURING procedures are performed while operating the weapon for its intended mission.

   c. AFTER procedures are performed after finishing operating the weapon for its intended mission.

3. **Location, Item to Check/Service**. This column lists the items and locations to be checked or serviced.

4. **Procedure**. This column contains a brief description of PMCS procedures to be performed. The procedure must follow the time stated in the interval column.

5. **Not Fully Mission Capable if**. 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. Follow standard operating procedures for correcting or reporting weapon failure.

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

**WARNING**

Confirm the weapon is unloaded, clear, and 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.

Table 1. PMCS for AK-47 Rifle.

| (1) Item No. | (2) Interval | (3) Location of Item to Check/Service | (4) Procedure | (5) Not Fully Mission Capable if: |
|---|---|---|---|---|
| 1 | Before | Visual Inspection of the Weapon | Check the weapon for missing or damaged parts. Report missing or damaged parts to the unit armorer. | Parts are missing or damaged to the point of being unserviceable. |
| 2 | During | Periodic Inspection of the Weapon | Periodically inspect the weapon to ensure it is clean and there is no foreign material in the bore. If foreign material is present, clean the bore. | Foreign material is in the bore. |
| 3 | Before and After | Magazine | a. Verify the magazine rocks easily into the magazine well and locks into place.<br>b. Ensure the magazine follower has spring tension and moves easily inside the magazine. | The magazine is distorted or hard to seat in the magazine well.<br>The magazine follower is stuck or has weak spring action. |

Table 1. PMCS for AK-47 Rifle - Continued.

| (1) Item No. | (2) Interval | (3) Location of Item to Check/Service | (4) Procedure | (5) Not Fully Mission Capable if: |
|---|---|---|---|---|
| 4 | Before and After | Receiver - Thread Protector | Check for looseness. | The thread protector is loose. |
| 5 | Before and After | Receiver - Barrel | Check for barrel looseness (using hand pressure only). | The barrel is loose in the receiver. |
| 6 | Before and After | Receiver - Handguards | Check for looseness, cracks, or missing parts. | The handguards are loose on the barrel or are damaged. |
| 7 | Before and After | Receiver - Magazine Release | Check the magazine release for spring tension and retention of the magazine. | The magazine release has no spring tension or does not retain or release the magazine. |
| 8 | Before and After | Receiver - Buttstock | Check for cracks, looseness, and missing parts. | The buttstock is loose, has more than three cracks, or has any cracks near pins or screws. |

Table 1. PMCS for AK-47 Rifle - Continued.

| (1) Item No. | (2) Interval | (3) Location of Item to Check/Service | (4) Procedure | (5) Not Fully Mission Capable if: |
|---|---|---|---|---|
| 9 | Before and After | Weapon Sights | Move the front and rear sights to ensure they can be adjusted. Return the sights to the zero setting on the weapon. | The sights are damaged, missing, or cannot be adjusted. |
| 10 | During | Maintenance Performed during Firing Operations | Clean and lubricate the weapon after firing approximately 200 rounds of ammunition or at the day's end. Refer to WP 0014 00. | |

Table 1. PMCS for AK-47 Rifle - Continued.

| (1) Item No. | (2) Interval | (3) Location of Item to Check/Service | (4) Procedure | (5) Not Fully Mission Capable if: |
|---|---|---|---|---|
| 10 Cont. | After | Maintenance of the Weapon and Equipment | a. Disassemble the weapon. Refer to WP 0015 00.<br>b. Clean and lubricate the weapon. Refer to WP 0014 00.<br>c. Disassemble, inspect, and clean the magazine. Refer to WP 0014 00.<br>d. Clean and lubricate the bayonet and scabbard. Refer to WP 0014 00.<br>e. Report all missing or damaged parts to the unit armorer. | Parts are missing or damaged. |

Table 1. PMCS for AK-47 Rifle - Continued.

| (1) Item No. | (2) Interval | (3) Location of Item to Check/Service | (4) Procedure | (5) Not Fully Mission Capable if: |
|---|---|---|---|---|
| 11 | Before and After | Selector Lever: SAFE | a. Unload and clear the weapon. Refer to WP 0005 00. | |
| | Function Check | | b. Place the selector lever on SAFE and pull the trigger. The hammer should not fall. | The hammer falls. |
| 12 | Before and After | Selector Lever: SEMI | a. Place the selector lever on SEMI. | |
| | Function Check | | b. Pull the trigger to the rear and hold. The hammer should fall. | The hammer does not fall. |
| | | | c. Charge the weapon. Release the trigger and pull it again. The hammer should fall. | The hammer does not fall. |

Table 1. PMCS for AK-47 Rifle - Continued.

| (1) Item No. | (2) Interval | (3) Location of Item to Check/Service | (4) Procedure | (5) Not Fully Mission Capable if: |
|---|---|---|---|---|
| 13 | Before and After | Selector Lever: AUTO | a. Pull the charging handle to the rear and release to cock the weapon. | |
| | Function Check | | b. Pull the trigger and hold to the rear. The hammer should fall. | The hammer does not fall. |
| | | | c. Pull the charging handle to the rear and release. | |
| | | | d. Release the trigger and pull it again. The hammer should not fall. | The hammer falls. |
| | | | e. The hammer should have fallen when the charging handle was released and the bolt moves forward. | |

## LUBRICATION

1. **Inspect Before Lubrication**.

If items are found to be unsatisfactory during inspection, notify the unit armorer.

**WARNING**

Do not interchange bolt assemblies between weapons. Failure to follow this warning may cause injury or death to personnel.

a. Bolt. Inspect for cracks or fractures, especially in the bolt lug area. Bolts containing pits extending into the firing pin hole need to be replaced.

b. Firing Pin. Inspect the firing pin for a bent, cracked, blunted, or sharp end.

c. Extractor and Extractor Spring. Inspect the extractor for chipped or broken edges in the area of the lip that engages the cartridge rim. Check the extractor spring tension.

2. **Cleaner, Lubricant, and Preservative (CLP)**.

a. CLP performs the following:

(1) Dissolves firing residue and carbon.

(2) Provides a layer of teflon for lubrication of parts.

(3) Prevents rust from forming.

**CAUTION**

Do not dry clean the weapon. Do not use hot water or other solvents to clean the weapon. This will remove the teflon lubricant built up as a result of using CLP.

b. Use CLP as follows:

(1) Shake the bottle well before each use.

(2) Place a few drops on a patch or rag.

(3) Clean the weapon with patches or rags until no residue is found.

(4) Use another patch or rag to apply a fresh, light coat.

3. **Lubrication**. CLP is the lubricant to be used under all but the coldest arctic conditions when lubricant, arctic, weapons (LAW) is used. Remove excessive lubricant from the bore and chamber before firing. For a lubricant guide, refer to Figure 1.

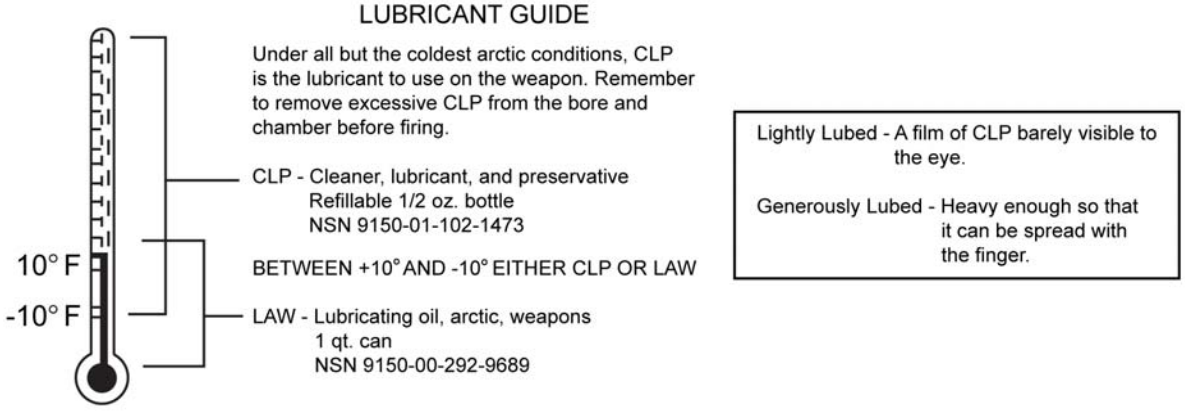


Figure 1. Lubricant Guide.

**NOTE**

Dry cleaning solvents may be used to remove lubricants completely. When moving to extreme cold weather operations, remove traces of CLP before applying LAW.

a. Receiver.

(1) Lightly lubricate the inside of the receiver, bore and chamber, outer surfaces of the barrel, front sight, magazine release, gas tube, and barrel surfaces under the handguards.

(2) Apply one drop of CLP to the front sight post, rotate to work in the CLP, wipe away excess CLP, and return to original position. Refer to Figure 2.

Figure 2. Lubricating the Front Sight Post.

b. Bolt Carrier Assembly and Bolt Assembly.

(1) Dry the bolt carrier assembly (bolt carrier and gas piston) and lightly lubricate with CLP. Generously lubricate the cam recess and receiver rail recesses of the bolt carrier. Refer to Figure 3.

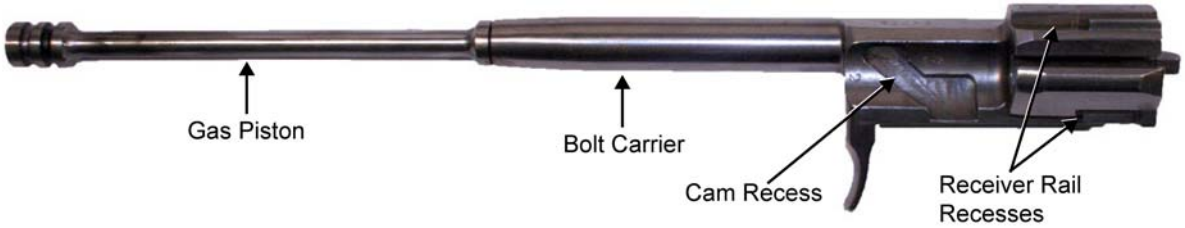


Figure 3. Bolt Carrier Assembly.

**CAUTION**

Apply only a light coat of CLP to the firing pin and firing pin hole in the bolt.

(2) LIGHTLY lubricate the firing pin and the firing pin hole in the bolt Refer to Figure 4.

(3) Generously lubricate the extractor, extractor retaining pin, firing pin retaining pin, and outside of the bolt. Refer to Figure 4.

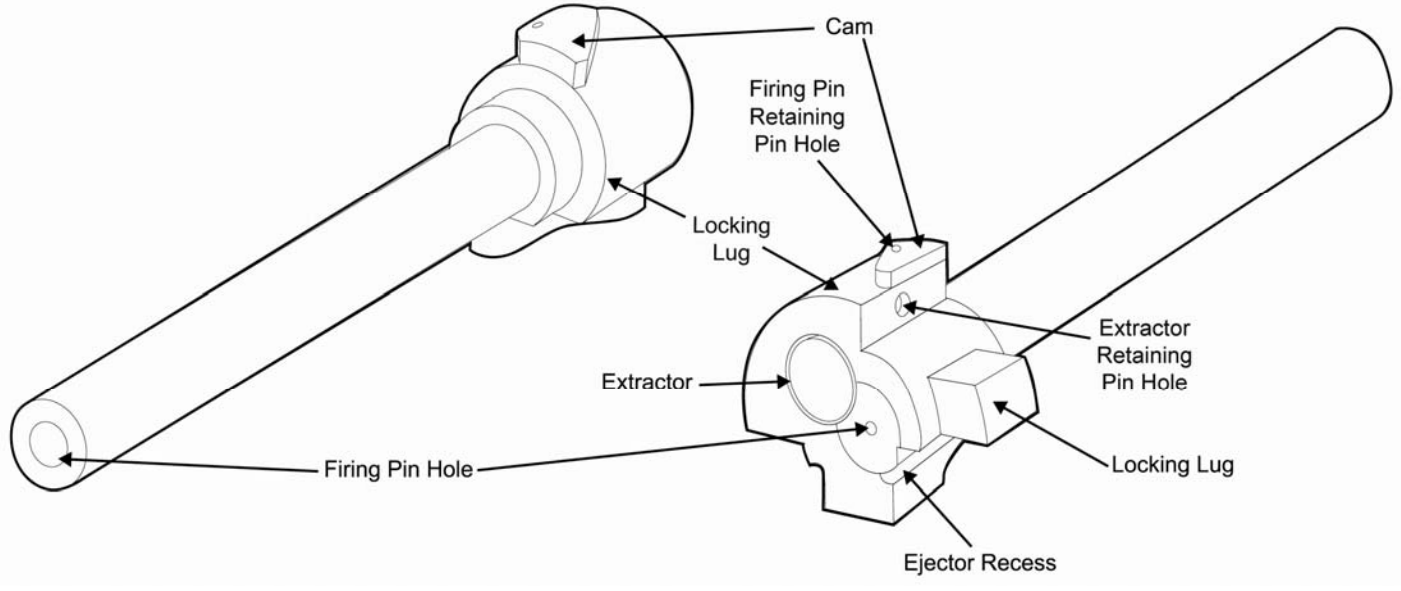


Figure 4. Bolt Assembly.

(4) Lightly lubricate the recoil spring and guide rod assembly. Refer to Figure 5.

Figure 5. Lubricating the Recoil Spring and Guide Rod Assembly.

(5) Lightly lubricate all moving parts and pins inside the receiver. Refer to Figure 6.

Figure 6. Moving Parts and Pins in the Receiver.

c. Rear Sight. Note the position of the sight before beginning. Refer to Figure 9

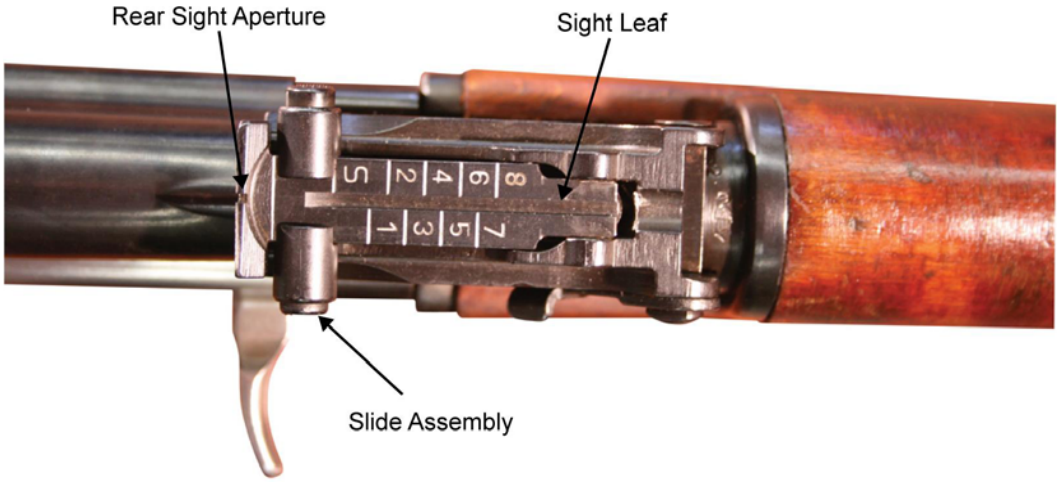


Figure 9. Rear Sight.

(1) Apply one drop of CLP to the sight leaf. Flip up and down to work in the CLP.

(2) Apply one drop of CLP to the slide assembly. Press the button several times and slide up and down the sight leaf to work in the CLP.

(3) Reset the rear sight to its original setting.

**NOTE**

After amphibious salt water operations, thoroughly rinse the rear sight in fresh water until the tactical situation allows for thorough cleaning and lubrication.

**END OF WORK PACKAGE**

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# GENERAL MAINTENANCE INSTRUCTIONS

## THIS WORK PACKAGE DESCRIBES

Scope, Work Safety, General Information, Cleaning Instructions, Inspection Instructions, and Lubrication Instructions.

## INITIAL SETUP

**Maintenance Level**

Operator

**References**

WP 0012 00
WP 0014 00
WP 0019 00

## SCOPE

The following general maintenance instructions contain general shop practices and specific methods to properly maintain the AK-47 rifle.

## WORK SAFETY

1. Before starting a task, think about the risks and safety hazards. Wear protective gear such as safety goggles or lenses, safety shoes, a rubber apron, and gloves.

2. Observe all WARNINGs, CAUTIONs, and NOTEs.

## GENERAL INFORMATION

**CAUTION**

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

When the term cleaner, lubricant, and preservative (CLP) or the word lubricant is cited in this TM, it is to be interpreted to mean that CLP, lubricating oil, semi-fluid, automatic weapons (LSA); or lubricating oil, arctic, weapons (LAW) can be used.

1. Disassemble, thoroughly clean, inspect, and lubricate the weapon.

2. Always shake CLP prior to use.

3. After firing, clean the weapon with CLP according to instructions in WP 0014 00. Wipe the weapon dry and lubricate according to instructions in WP 0012 00.

**NOTE**

Contact the unit armorer if parts from the cleaning kit are missing or defective.

4. Cleaning materials (e.g., patches, pipe cleaners, and CLP) are expendable items. For a complete list of cleaning materials refer to WP 0019 00.

## CLEANING INSTRUCTIONS

**NOTES**

Use only CLP for cleaning and lubrication in all but the most severe conditions.

Cloths or rags saturated with CLP must be disposed of in accordance with authorized facilities' procedures.

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

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

**NOTES**

Clean all parts before inspection, after repair, and before assembly.

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

After cleaning, all parts should be covered or wrapped to protect them from dust and dirt. Parts that are subject to rust should be lightly oiled.

1. **Cleaning Disassembled Parts**.

   a. Dry and cover all cleaned parts.

   b. All parts subject to rusting must be lightly oiled and wrapped.

   c. Keep all related parts and components together. Do not mix parts.

2. **Castings**.

   a. Clean the inner and outer surfaces of castings with CLP.

b. Use a stiff brush to remove sludge and gum deposits.

3. **Machined Surfaces**.

   a. Clean machined surfaces with CLP.

   b. Dry surfaces thoroughly.

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 or if they must be scrapped.

2. **Castings**.

   a. Replace all cracked castings.

   b. Inspect machined surfaces for nicks, burrs, or raised metal. Mark damaged areas for repair or replacement.

   c. Inspect all screws and screw openings for damaged or stripped threads.

3. **Machine-Tooled Parts**. Inspect for cracks, breaks, elongated holes, wear, and chips.

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

5. **Mating Surfaces**. Inspect mating surfaces for seal, secure fit, and pitting.

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

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

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

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

## LUBRICATION INSTRUCTIONS

Refer to *PMCS* (WP 0012 00) for detailed, illustrated instructions on proper lubrication. The following are some general practices to remember:

1. Use the correct lubricant.

2. Keep lubricants clean.

3. Lubricate clean, disassembled, and new parts to prevent rust.

## END OF WORK PACKAGE

# WEAPON CLEANING

## THIS WORK PACKAGE DESCRIBES

Field Expedient Cleaning, Detailed Cleaning, and Thorough Cleaning.

## INITIAL SETUP

**Maintenance Level**

Operator

**Materials/Parts**

Cleaner, lubricant, and preservative (CLP)
Cleaner, tobacco pipe
Patch, small caliber, 7.62 mm
Patch, small caliber, 7.62 mm, round
Rag, wiping

**References**

WP 0005 00
WP 0015 00
WP 0019 00
WP 0020 00

**Equipment Conditions**

Weapon field stripped (WP 0015 00)

**WARNING**

Ensure the weapon is clear before performing the following procedures. DO NOT interchange parts from one weapon to another. Failure to follow this warning may cause injury or death to personnel.

## CLEANING THE WEAPON

Cleaning is part of scheduled maintenance and should always begin with an inspection of the weapon. Use the equipment listed in WP 0019 00 for cleaning and lubrication. The weapon should be cleaned within two hours of firing or as soon as the tactical situation permits.

1. **Field Expedient Cleaning**.

**NOTE**

After cleaning and before reassembly, lightly lubricate all parts with CLP.

a. Clear the weapon. Refer to WP 0005 00.

b. Check the bore and chamber for fouling.

c. Remove the bolt carrier assembly and bolt assembly. Refer to WP 0015 00.

d. Clean carbon and oil from the firing pin and all surfaces of the bolt and bolt carrier with clean, dry rag.

e. Clean the firing pin hole.

f. Apply a light coat of CLP. Give special attention to the cam recess and receiver rail recesses.

g. Swab the bore with a patch with CLP.

**CAUTION**

Ensure that the patch goes completely through the muzzle. Do not reverse the direction while the patch is in the bore or muzzle.

The bore of the weapon has lands and grooves called rifling. Allow the cleaning rod to rotate (following the rifling grooves) as it is pulled through the bore. This will provide better cleaning of the bore and rifling grooves.

(1) Attach the patch holder to the cleaning rod and insert a clean patch in the patch holder. Apply several drops of CLP to the patch. Refer to Figure 1.

Figure 1. Cleaning Rod with Patch Holder Attached and Patch Inserted.

(2) Point the muzzle down. Holding the receiver in one hand, insert the end of the rod without the patch holder into the chamber. Allow the rod to fall straight through the bore. Two to three inches will stick out of the muzzle.

(3) Pull the cleaning rod out the muzzle. The rod will twist as it is pulled through. Refer to Figure 2.

Figure 2. Swabbing the Bore.

2. **Detailed Cleaning Techniques - Standard Kit**. To perform detailed cleaning techniques with a standard kit, use the following instructions:

**CAUTION**

When using the bore brush, do not reverse the direction while the brush is in the bore.

a. Swab the bore with a patch with CLP as described in *Field Expedient Cleaning* in this work package.

b. Replace the patch and patch holder with the bore brush. Refer to Figure 3.

Figure 3. Bore Brush.

c. Re-insert the cleaning rod into the chamber, down through the bore.

d. Pull the bore brush through the bore and out of the muzzle. The rod will twist as it is pulled through. Refer to Figure 4.

Figure 4. Running the Bore Brush though the Bore and out of the Muzzle.

e. Repeat the process several times.

f. Occasionally, pull a patch with CLP through the bore to help remove dirt and debris loosened by the bore brush. Always have the bore wet with CLP prior to pulling the bore brush through the barrel.

3. **Detailed Cleaning Techniques - with an Otis Kit**.

a. Attach the bore obstruction remover tip to one end of the flexible cleaning rod and attach the slotted tip to the other end of the rod.

b. Place the slotted tip into an outside hole on a cleaning patch.

**NOTE**

The size of the patch may be varied by pinching the patch in locations further away from the slot.

c. Pinch a portion of the patch and insert it through the slot in the slotted tip. Pull it tight to tie the knot and ensure that the patch scrubs efficiently.

d. Turn the outer edge of the patch down over itself.

**NOTE**

If done correctly, the patch forms a symmetrical cone centering it in the bore, ensuring 360° cleaning occurs. Always use a clean patch each time it is passed through the bore.

e. Apply three to five drops of CLP to the front end of the knot in the patch. Do not dip the patch into the CLP.

f. Insert the bore obstruction remover tip and flexible cleaning rod into the chamber until the patch enters the receiver.

g. Use the patch to mop out the receiver and slides.

h. Hold the flexible cleaning rod by the knurled bore obstruction remover and rotate the rod as the patch enters the locking lugs. Use fingers or the cleaning brush to force the patch into the recess in front of the locking lugs.

**NOTE**

Give special attention to the following areas in step i, particularly if the weapon has been firing blank rounds.

i. Continue to turn the patch as it passes through the chamber and enters the neck area.

j. Continue to pull the flexible cleaning rod and patch through the barrel until the patch exits the muzzle.

k. Remove the patch and slotted tip from the flexible cleaning rod.

l. Attach the chamber brush to one end of the short chamber cleaning rod and the T-handle to the other end.

m. Cover the chamber brush with a used patch. Mop out the locking lugs and chamber while turning it in a clockwise direction with the T-handle. Let the brush feed itself into the chamber.

n. Give the brush and patch several turns while in the chamber, ensuring the shoulder of the chamber is cleaned.

o. Turn and pull the brush and patch from the chamber.

p. Attach the bore brush to the flexible cleaning rod.

**NOTE**

Do not push the bore brush into the bore at first.

q. Insert the flexible cleaning rod into and down through the bore.

r. Turn the flexible rod as the bore brush enters the chamber and into the neck so that the brush can be felt scrubbing the shoulder of the neck.

s. Pull the bore brush into and through the bore in a “breech-to-muzzle” direction.

t. Using a clean, dry patch for each pass through the chamber and bore, repeat steps f through k.

u. If the patch does not come out clean, repeat steps p through s until the patch comes out clean.

4. **Thorough Cleaning**.

a. Receiver. Clean with CLP.

(1) Clean all areas of powder fouling, corrosion, dirt, debris, and rust.

(2) Clean the chamber, locking lugs, and gas block.

(3) Bore. Clean as described in *Detailed Cleaning Techniques - Standard Kit* in this work package.

(4) Handguards. Remove and wipe the handguards with a cloth.

(5) Front and Rear Sights. Clean the front and rear sights with a brush and CLP.

b. Bolt Carrier Assembly and Bolt Assembly.

(1) Scrub the outer and inner surfaces of the bolt carrier and gas piston with a well worn bore brush and CLP.

(2) Clean the firing pin hole (using a pipe cleaner) and firing pin with CLP.

(3) Check the extractor for spring tension and clean any carbon and debris from under the extractor lip.

(4) Apply CLP to the extractor and depress it several times to work in the CLP.

c. Magazine.

(1) Disassemble the magazine. Refer to WP 0015 00.

(2) Clean with CLP. Wipe dirt from the body, spring, follower, locking plate, and base.

(3) Lightly lubricate the spring.

(4) Reassemble the magazine. Refer to WP 0015 00.

**END OF WORK PACKAGE**

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# WEAPON MAINTENANCE (FIELD STRIPPING AND REASSEMBLY)

## THIS WORK PACKAGE DESCRIBES

Weapon Disassembly/Field Stripping and Reassembly, Magazine Disassembly and Reassembly.

## INITIAL SETUP

**Equipment Conditions**

Weapon cleared (WP 0005 00)

**References**

WP 0005 00

## DISASSEMBLY/FIELD STRIPPING OF THE WEAPON

**WARNING**

Ensure the weapon is clear and on SAFE before performing these procedures. Failure to follow this warning may cause injury or death.

1. Clear the weapon. Refer to WP 0005 00.
2. Remove the sling.

3. Remove the cleaning rod by pulling it down and away from the barrel until the head is clear of the stop under the front sight base. Pull the cleaning rod forward until it is free from the weapon. Refer to Figure 3.

Figure 3. Removing the Cleaning Rod.

4. **Remove the Top Cover**.

a. Push in on the recoil spring lock until it clears the hole in the top cover. Refer to Figure 4.


Figure 4. Pushing in the Recoil Spring Lock.

b. Some models have a two-piece recoil spring lock that needs to be pushed down, then in to disengage the recoil spring lock from the hole in the top cover. Refer to Figure 5.

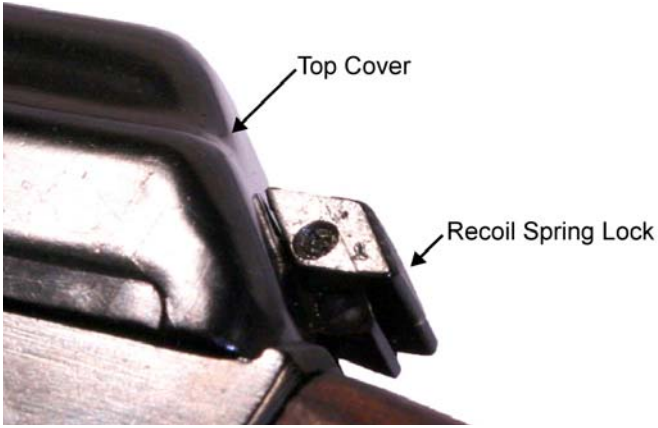


Figure 5. Two-Piece Recoil Spring Lock.

c. Pull the top cover up and to the rear to remove it from the receiver. Refer to Figure 6.


Figure 6. Lifting and Removing the Top Cover.

5. Remove the recoil spring and guide rod assembly by pushing forward on the recoil spring lock until it clears the lock recess in the rear of the receiver. Lift the the recoil spring and guide rod assembly up and pull it back. Refer to Figure 7.


Figure 7. Lifting the Recoil Spring and Guide Rod Assembly Up and Out of the Receiver.

6. Remove the bolt carrier assembly and bolt assembly by sliding the bolt carrier to the rear of the receiver and pulling it up and to the rear, out of the rear of the receiver. Refer to Figure 8.


Figure 8. Removing the Bolt Carrier Assembly and Bolt Assembly.

7. Remove the bolt assembly by pushing it to the rear of the bolt carrier, turning it until the bolt cam comes out of the cam recess in the bolt carrier, and pulling the bolt assembly out (toward the gas piston). Refer to Figure 9.

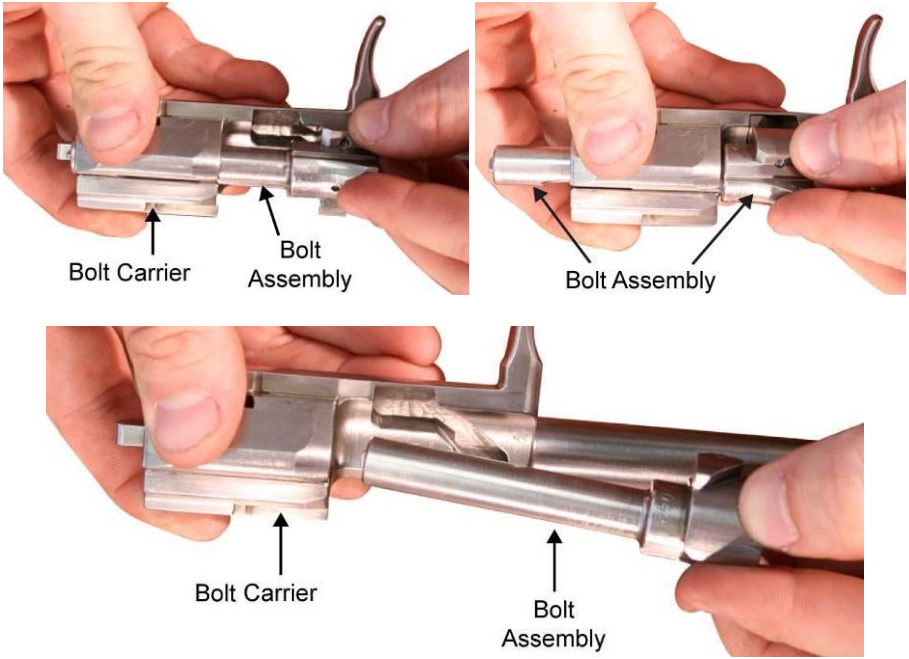


Figure 9. Removing the Bolt Assembly.

8. **Remove the Gas Tube and Handguard**.

**NOTES**

Occasionally, the gas tube and handguard is very tight and may require a light tap to move the locking lever from the locked down position to the unlocked up position.

Ensure the flat surface of the locking lever axle is perpendicular to the receiver to allow adequate clearance for the gas tube and handguard.

a. To remove the gas tube and handguard, push upward on the locking lever until it clears the rear of the gas tube and handguard. Refer to Figure 10.


Figure 10. Pushing the Locking Lever to the Up Position.

b. Unseat the rear of the gas tube and handguard from the rear sight base.

c. Pull up and to the rear on the gas tube and handguard to disengage and remove it from the gas block. Refer to Figure 11.

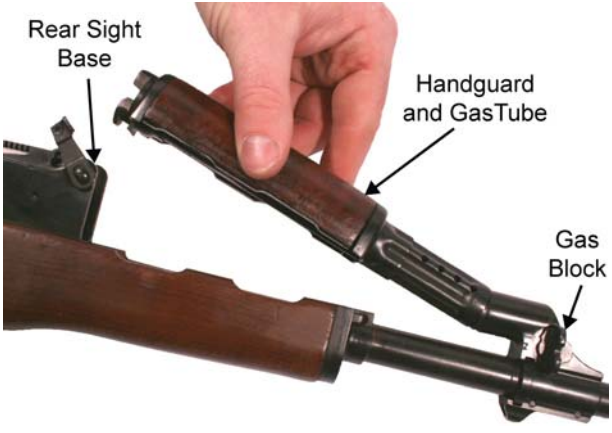


Figure 11. Removing the Gas Tube and Handguard.

9. To remove the handguard, swing the locking lever forward. Refer to Figure 12. Slide the ring forward and remove the handguard. Refer to Figure 12. It may be necessary to use a field expedient tool to move the locking lever.

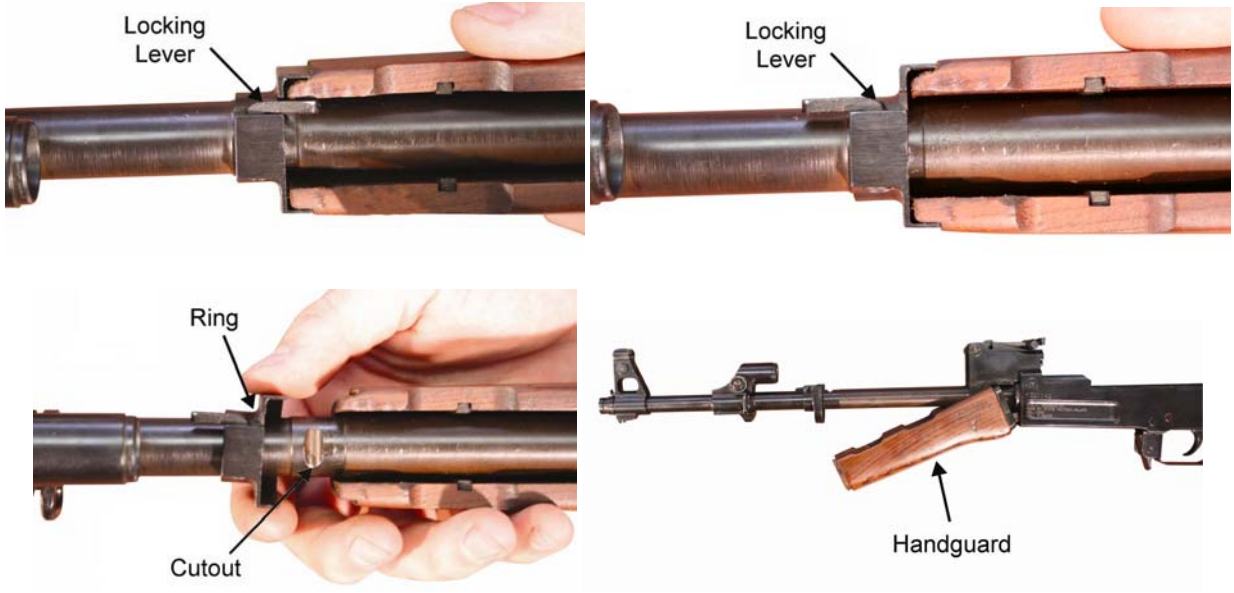


Figure 12. Removing the Handguard.

10. To remove the thread protector from the muzzle, depress the locking detent with a finger or field experient tool and unscrew the thread protector until it comes off the muzzle. Refer to Figure 13.


Figure 13. Thread Protector and Locking Detent.

## REASSEMBLY OF THE WEAPON

1. While depressing the locking detent with a finger or field expedient tool, screw on the thread protector until it is seated on the muzzle. Ensure the locking detent is seated in one of the grooves in the thread protector. Refer to Figure 14.

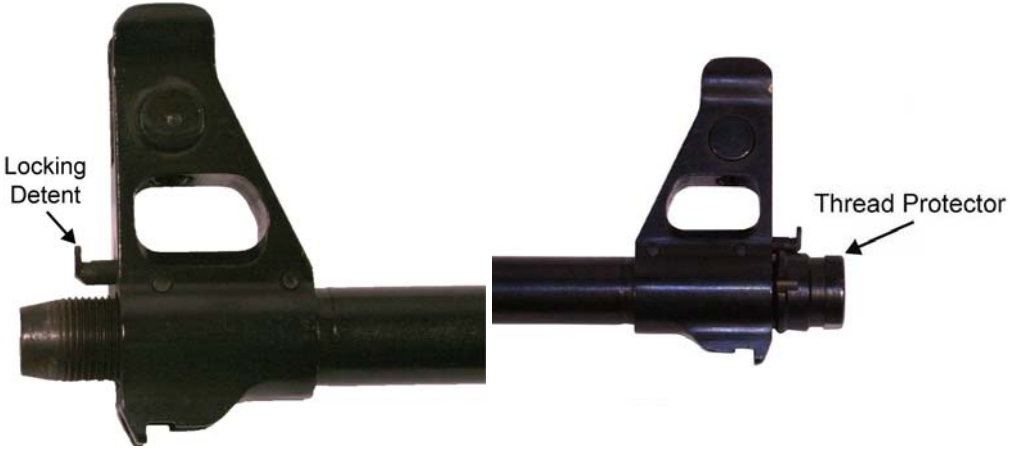


Figure 14. Thread Protector and Locking Detent.

2. To install the handguard, seat it under the barrel, slide the ring onto the front of the handguard ensuring it is secure on the barrel cutout, and swing the locking lever rearward until it lays flush with the handguard. Refer to Figure 15.

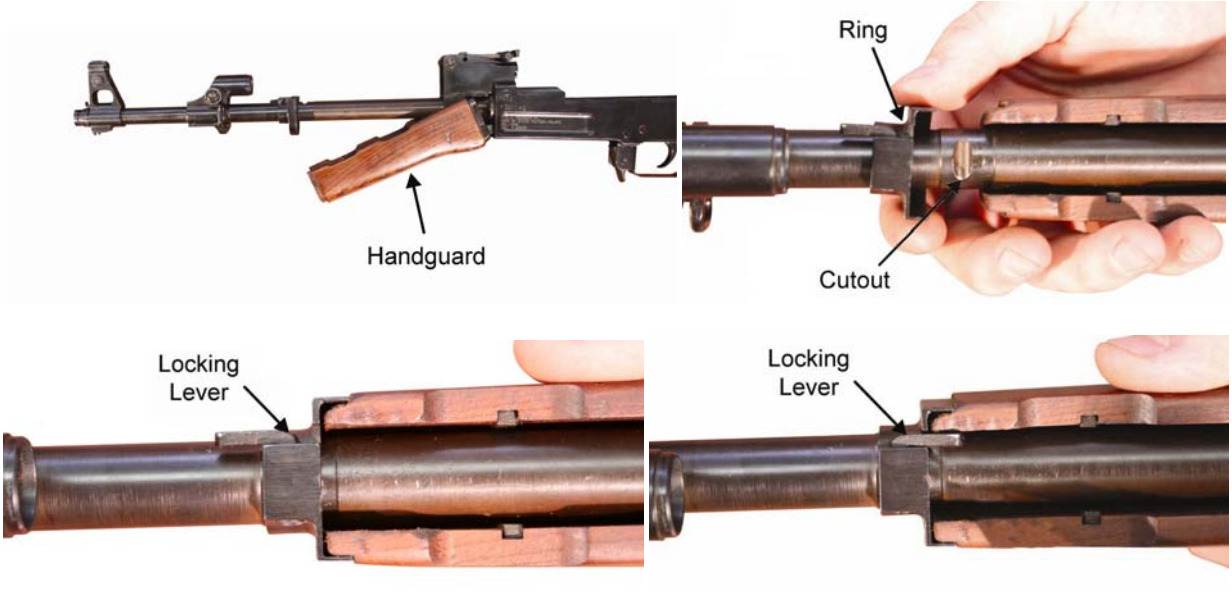


Figure 15. Installing the Handguard.

3. **Install the Handguard and Gas Tube**.

a. Insert the front of the of the gas tube in the gas block with the locking lever in the up position. Refer to Figure 16.


Figure 16. Inserting the Gas Tube.

b. Push the rear of the handguard down, seating it against the rear sight base. Push the locking lever down until it clicks, locking in place. Refer to Figure 17.

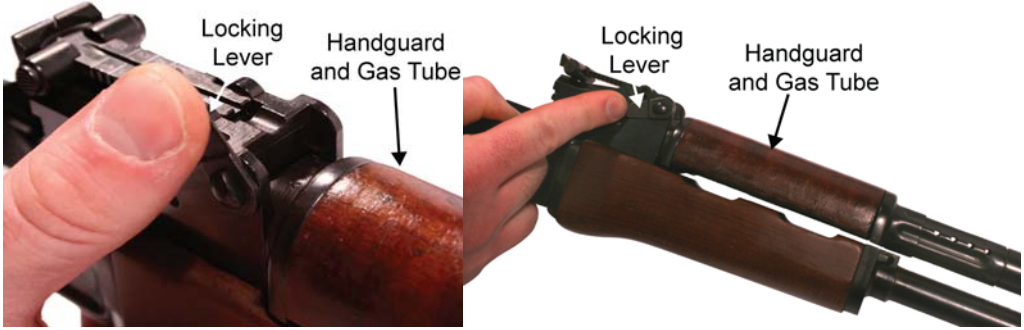


Figure 17. Locking the Rear of the Handguard in Place.

4. Install the bolt assembly in the bolt carrier by pushing the bolt assembly into the bolt carrier, turning the bolt assembly so the bolt cam seats into the cam recess of the bolt carrier, and pulling the bolt assembly forward in the bolt carrier so the bolt cam engages the cam recess, turning the bolt as it moves forward. Refer to Figure 18.

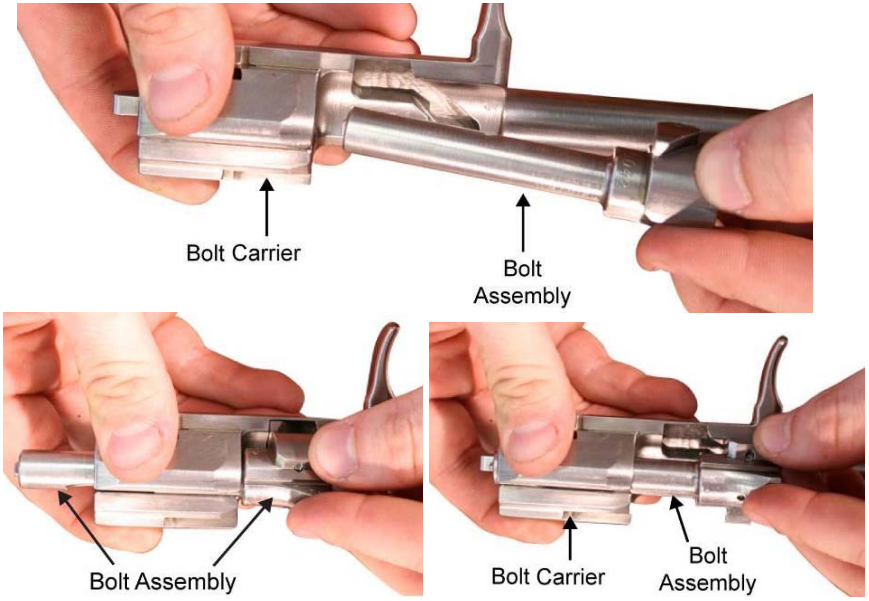


Figure 18. Installing the Bolt Assembly into the Bolt Carrier.

**NOTE**

Ensure the hammer is down and the selector lever is off SAFE before installing the bolt carrier assembly and bolt assembly.

5. Install the bolt carrier assembly and bolt assembly by pushing the front of the gas piston into the rear sight base, pushing the bolt carrier down and forward into the rear of the receiver so the rail recesses on the bottom of the bolt carrier set on the rails in the receiver, and sliding it forward. Refer to Figure 19.


Figure 19. Inserting the Bolt Carrier Assembly and Bolt Assembly.

6. **Install Recoil Spring and Guide Rod Assembly**.

   a. Push the recoil spring and guide rod assembly into the rear of the bolt carrier. Refer to Figure 20.

   b. Push the recoil spring lock forward past the rear of the receiver then allow it to expand to the rear, ensuring that it seats in the rear of the receiver. Refer to Figure 20.


Figure 20. Installing the Recoil Spring and Guide Rod.

7. **Install the Top Cover**.

   a. Slide the front of the top cover into the receiver over the bolt carrier and pushing the rear of the top cover down and forward until the recoil spring lock pops out of the hole in the rear of the top cover. Refer to Figure 21.


Figure 21. Installing the Top Cover.

b. If the weapon has a top-piece recoil spring lock, after the lock sticks out of the hole in the rear of the top cover, lift up on the recoil spring lock to secure the top cover in place. Refer to Figure 22.

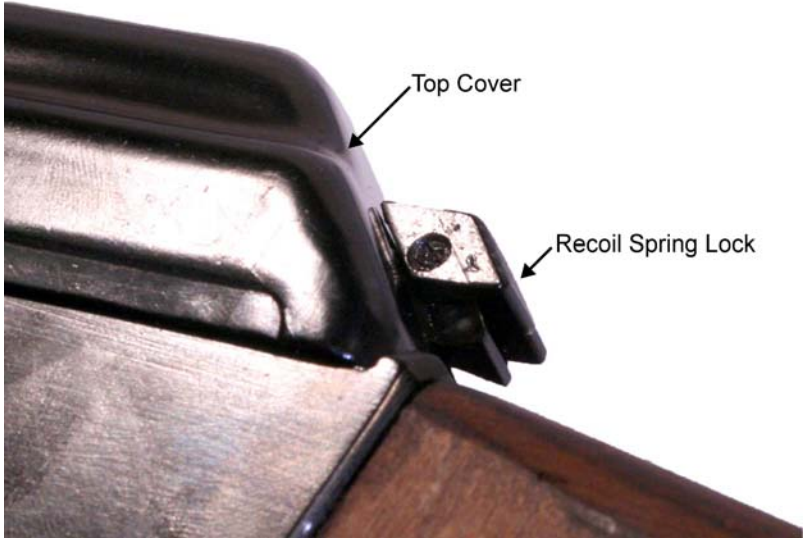


Figure 22. Two-Piece Recoil Spring Lock.

8. Install the cleaning rod by sliding the threaded end of the cleaning rod under the stop under the front sight base, through the loop under the gas block, and into the handguard ring. Bend the head of the cleaning rod under and behind the stop under the front sight base. Refer to Figure 23.

Figure 23. Installing the Cleaning Rod.

9. **Attach the Sling**.

   a. Unloop the sling from its buckle (if necessary), then thread it through the rear sling swivel on the buttstock.

   b. Rethread the sling through its buckle.

   c. Snap the sling hook onto the front sling swivel on the left side of the gas block. Refer to Figure 24.


Figure 24. Sling Attached to Weapon.

   d. Adjust the sling for fit using the buckle.

## DISASSEMBLY OF THE MAGAZINE

1. Use the cleaning rod, or other field expedient tool, to push in the locking plate, which is seated under spring tension behind the floor plate. With the locking plate depressed, slide the floor plate to the rear and off of the magazine body. Refer to Figure 25.

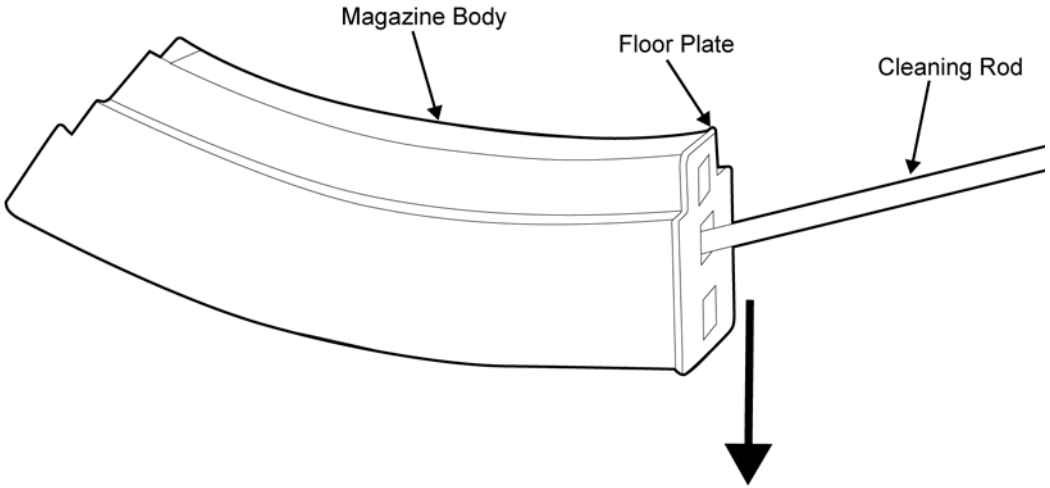


Figure 25. Pushing in the Locking Plate and Sliding the Floor Plate off of the Magazine.

2. Remove the locking plate, spring, and follower from the magazine body. Refer to Figure 26.

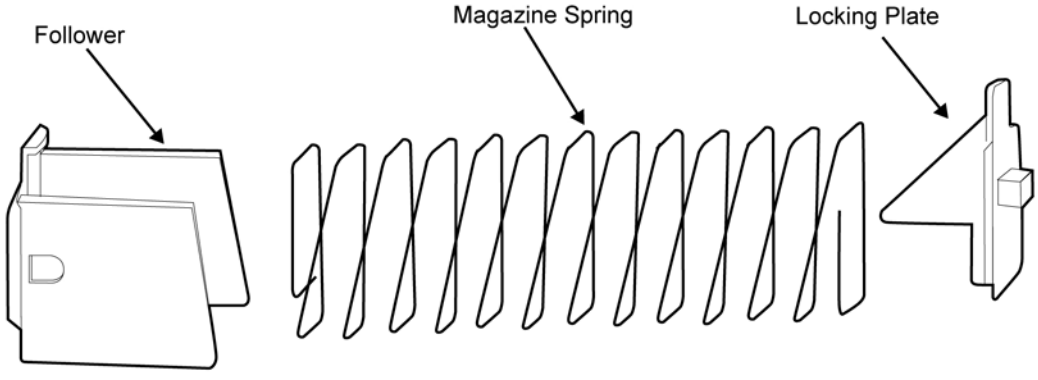


Figure 26. Follower, Magazine Spring, and Locking Plate Removed.

## REASSEMBLY OF MAGAZINE

1. Insert, in the following order, the follower, magazine spring, and locking plate into the bottom of the magazine body. Refer to Figure 27.

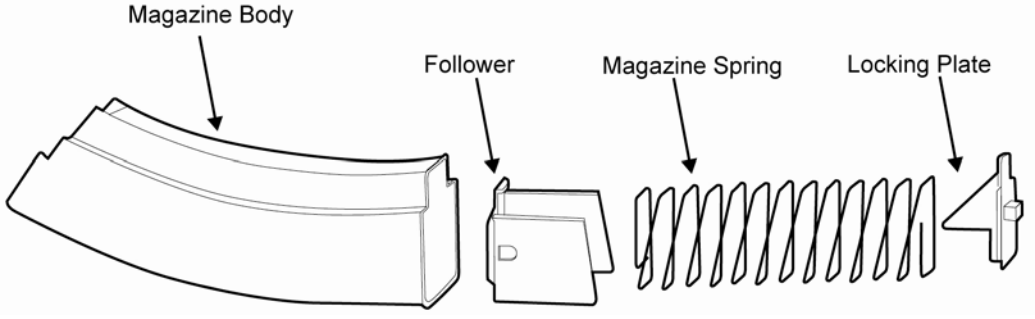


Figure 27. Inserting the Follower, Magazine Spring, and Locking Plate into the Bottom of the Magazine Body.

2. Insert the cleaning rod, or other field expedient tool, through the hole in the floor plate to depress the locking plate With the locking plate depressed, slide the floor plate forward onto the bottom of the magazine body. Refer to Figure 28.

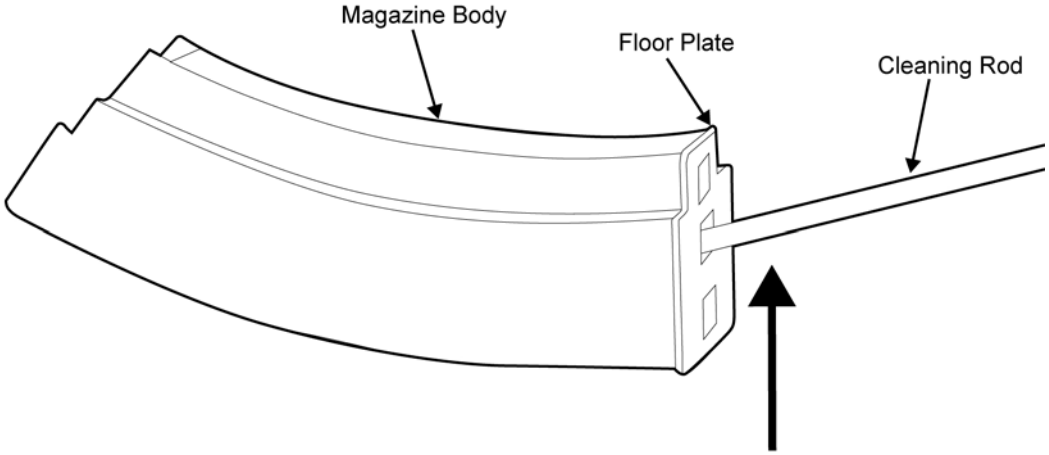


Figure 28. Installing the Floor Plate onto the Bottom of the Magazine Body.

**END OF WORK PACKAGE**

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## PREPARATION FOR STORAGE

## STORAGE PROCEDURES

**WARNING**

DO NOT store the weapon with live ammunition in either the chamber or magazine. Always assume every weapon is loaded until it is determined through visual and physical inspection that it is not loaded. Refer to WP 0005 00 for clearing and unloading procedures. Failure to follow these warnings may cause injury or death to personnel.

1. **Stored 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 the weapon is thoroughly cleaned as outlined in WP 0013 00 and WP 0014 00.
2. **Storage Procedures**.
   a. Ensure that both the chamber and the magazine do not contain live ammunition.
   b. Inspect the bore and chamber and apply a medium coat of cleaner, lubricant, and preservative (CLP).
   c. Apply a light coat of CLP to all other metal surfaces of the weapon to provide extra lubrication and corrosion protection.

## END OF WORK PACKAGE

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# CHAPTER 5

# SUPPORTING INFORMATION

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# REFERENCES

## SCOPE

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

## TECHNICAL MANUALS/ORDERS

Preparation for Storage ..... MCO 4450.7
Organizational Maintenance Manual with Repair Parts List for Rifle, 7.62 mm, AK-47 ..... TM 8370-50007-IN/2
Ground Equipment Record Procedures ..... TM 4700 -15/1_
Military Use of Cleaner, Lubricant, and Preservative (CLP) for Weapons and Support Equipment ..... TM 9150-15/1_

## FORMS

Recommended Changes to Technical Publications ..... NAVMC 10772
Weapon Custody Receipt Card ..... NAVMC 10520

## END OF WORK PACKAGE

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## SUPPLY SYSTEM RESPONSIBILITY ITEMS (SSRI) LIST

### SCOPE

This work package lists supply system responsibility items (SSRI) required for operation of the 7.62 mm, AK-47 rifle. The list contains SSRI that are essential for operating the end item. Refer to Table 1.

### 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) - Level**. This column identifies the lowest level of maintenance that requires the listed item.

**C – Operator/Crew**

3. **Column (3) - National Stock Number**. This is the NSN assigned to the item that will be used for requisitioning purposes.

4. **Column (4) - Description, Part Number, and CAGEC**. This column provides the other information you need to identify the item.

5. **Column (5) - Unit of Measure (U/M)**. This code shows the physical measurement or count of an item, such as package (PKG), kit (KT), each (EA), bottle (BT), or bale (BE).

6. **Column (6) - Quantity Recommended (QTY REC'M)**. The QTY REC'M column indicates the quantity recommended.

Table 1. SSRI for AK-47 Rifle.

| (1) Item Number | (2) Level | (3) National Stock Number | (4) Description, Part Number, and CAGEC | (5) U/M | (6) QTY REC'M |
|---|---|---|---|---|---|
| 1 | C | 1005-LL-MUS-2940 | Rifle, 7.62 mm, AK-47<br>P/N TBD; CAGEC TBD | EA | 1 |

**END OF WORK PACKAGE**

## USING UNIT RESPONSIBILITY ITEMS (UURI) LIST

### SCOPE

This work package lists using unit responsibility items (UURI) authorized for support of the AK-47 rifle. Items listed will not be issued with the weapon and must be requisitioned through the system.

### EXPLANATION OF COLUMNS

1. **Column (1) - National Stock Number**. This column indicates the National Stock Number (NSN) assigned to the item that will be used for requisitioning purposes.

2. **Column (2) - Description, Part Number, and CAGEC**. This column indicates the Federal item name followed by a minimum description when needed. The entry for each item ends with the Commercial and Government Entity Code (CAGEC) proceeded by the part number.

3. **Column (3) - Usable on Code**. This column indicates a code if the item needed is not the same for different models of equipment.

4. **Column (4) - Unit of Measure (U/M)**. This column indicates how the item is issued for the NSN shown in Column (1), such as package (PKG), kit (KT), each (EA), bottle (BT), book (BK), or bale (BE).

5. **Column (5) - Quantity Recommended (QTY REC'M)**. This column indicates the quantity recommended.

Table 1. UURI for the AK-47 Rifle.

| (1) National Stock Number | (2) Description, Part Number, and CAGEC | (3) Usable on Code | (4) U/M | (5) QTY REC'M |
|---|---|---|---|---|
| 9150-01-102-1473 | Break-free solvent (CLP), 2/3 oz<br>P/N 900; CAGEC 65983 | | BT | 1 |
| 1005-00-288-3565 | Patches, cleaning, small caliber, 7.62 mm<br>P/N 5019316, CAGEC 19204 | | EA | 10 |
| 1005-00-494-6602 | Brush, cleaning, small arms<br>P/N 8448462; CAGEC 19204 | | EA | 1 |
| TBD | Magazine, cartridge: 30 round<br>P/N TBD; CAGEC TBD | | EA | 6 |
| 1005-01-451-5119 | Cleaning kit,7.62 mm, Otis (soft belt-pack)<br>P/N 308-6; CAGEC 01VS3 | | EA | 1 |
| **Otis, 7.62 mm Cleaning Kit consisting of:** | | | | |
| TBD | Case, soft pack (w/ ALICE clips)<br>P/N 915-DMR, CAGEC 01VS3 | | EA | 1 |
| 1005-01-449-8902 | T-Handle<br>P/N C-01-5; CAGEC 01VS3 | | EA | 1 |

Table 1. UURI for the AK-47 Rifle – Continued.

| (1) National Stock Number | (2) Description, Part Number, and CAGEC | (3) Usable on Code | (4) U/M | (5) QTY REC'M |
|---|---|---|---|---|
| **Otis, 7.62 mm Cleaning Kit consisting of - Continued:** | | | | |
| 9150-01-102-1473 | Cleaner, Lubricant, and Preservative<br>P/N 901-T-10; CAGEC 01VS3 | | BT | 1 |
| 1005-01-445-6798 | Brush, lens, mohair<br>P/N 3762; CAGEC 01VS3 | | EA | 1 |
| 1005-01-445-5889 | Handle, rod, female<br>P/N 9098-5; CAGEC 01VS3 | | EA | 1 |
| 1005-01-445-6728 | Patch, small caliber, 7.62 mm, round<br>P/N 970-10; CAGEC 01VS3 | | EA | 10 |
| 1005-01-449-9674 | Adapter, NATO<br>P/N 316-5; CAGEC 01VS3 | | EA | 1 |
| 1005-01-449-8999 | Brush, bore, 7.62 mm,<br>P/N 330; CAGEC 01VS3 | | EA | 1 |
| 1005-01-449-9282 | Brush. Chamber, .45 cal,<br>P/N 345, CAGEC 01VS3 | | EA | 1 |

Table 1. UURI for the AK-47 Rifle – Continued.

| (1) National Stock Number | (2) Description, Part Number, and CAGEC | (3) Usable on Code | (4) U/M | (5) QTY REC'M |
|---|---|---|---|---|
| **Otis, 7.62 mm Cleaning Kit consisting of - Continued:** | | | | |
| TBD | Reflector, bore, P/N 905-1, CAGEC 01VS3 | | EA | 1 |
| TBD | Reflector, bore, P/N 905-1, CAGEC 01VS3 | | EA | 1 |
| 1005-01-449-8928 | Brush, end, nylon<br>P/N 318-5; CAGEC 01VS3 | | EA | 1 |
| 1005-01-445-6798 | Rod, flex, 30" P/N C-30-5; CAGEC 01VS3 | | EA | 1 |
| 1005-01-445-4889 | Rod, flex, 8" P/N C-8_5 CAGEC 01VS3 | | EA | 1 |
| 1005-01-449-9943 | Pick, gas port<br>P/N 100-39-5; CAGEC 01VS3 | | EA | 1 |
| 1005-01-449-6728 | Brush, compact, all-purpose (A/P)<br>P/N 324 CAGEC 01VS3 | | EA | 1 |
| 1005-01-449-9674 | Scraper P/N 206-5 CAGEC 01VS3 | | EA | 1 |

Table 1. UURI for the AK-47 Rifle – Continued.

| (1) National Stock Number | (2) Description, Part Number, and CAGEC | (3) Usable on Code | (4) U/M | (5) QTY REC'M |
|---|---|---|---|---|
| **Otis, 7.62 mm Cleaning Kit consisting of - Continued:** | | | | |
| 1005-01-449-8999 | Tip, slotted, 7.62 mm<br>P/N 203-5 CAGEC 01VS3 | | EA | 1 |
| 1005-01-449-9282 | Remover, obstruction, 7.62 mm<br>P/N 105-5 CAGEC 01VS3 | | EA | 1 |
| **End of Otis, 7.62 mm Cleaning Kit** | | | | |
| 1005-01-912-4248 | Q-tips P/N 240-5 | | EA | 10 |
| 9150-00-935-6597 | Lubricating oil, semi-fluid<br>P/N MILL 46000; CAGEC 81349 (2 oz.) | | BT | A/R |
| 9150-00-889-3522 | Lubricating oil, semi-fluid<br>P/N 8436793; CAGEC 19204 (4 oz.) | | EA | A/R |

**END OF WORK PACKAGE**

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# EXPENDABLE AND DURABLE ITEMS LIST

## SCOPE

This work package lists expendable and durable items authorized for the support and operation of the AK-47 rifle.

## EXPLANATION OF COLUMNS

1. **Column (1) - Item Number**. This column indicates the number is assigned to the entry in the list, and is referenced in the narrative instructions to identify the item [e.g., Rag, wiping (WP 0020 00, item 8)].

2. **Column (2) - National Stock Number**. This column indicates the National Stock Number (NSN) assigned to the item that will be used for requisitioning purposes.

3. **Column (3) - Item Identification**. This column indicates other information that is provided about the item.

4. **Column (4) - Unit of Measure (U/M)**. This code shows the physical measurement or count of an item, such as package (PKG), kit (KT), each (EA), bottle (BT), book (BK), or bale (BE).

Table 1. Expendable and Durable Items for the AK-47 Rifle.

| (1) Item Number | (2) National Stock Number | (3) Item Identification | (4) U/M |
|---|---|---|---|
| 1 | 9150-01-102-1473 | Cleaner, lubricant, preservative (CLP), (65983) (2/3 oz.) | BT |
| 2 | 9920-00-292-9946 | Cleaner, tobacco pipe (89855), 36 per pkg | PKG |
| 3 | 9150-00-292-9689 | Lubricating oil, arctic weapons (LAW), (81349) MIL-L-14107, 1 qt (0.95 L) can | EA |
| 4 | 9150-00-889-3522 | Lubricating oil, semi-fluid, (19204) (4 oz.) | BT |
| 5 | 1005-00-288-3565 | Patch, small caliber, 7.62 mm | SH |
| 6 | 1010-01-445-6728 | Patch, small caliber, 7.62 mm, round | SH |
| 7 | 1005-01-912-4248 | Q-tips | PKG |
| 8 | 7290-00-205-1711 | Rag, wiping (58536) A-A-531, (50 lb, 22.68 kg) | BE |

**END OF WORK PACKAGE**

## INVENTORY SHEET

Table 1. Inventory Sheet.

| Inventory Sheet | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Name of Equipment: AK-47 Equipment | | | | | | | | | | | | | | | | | |
| Item No. | National Stock Number | Item ID | Unit of Measure / Qty Used in Unit / Month | | J | F | M | A | M | J | J | A | S | O | N | D |
| 1 | 9150-01-102-1473 | Cleaner, lubricant, and preservative (CLP), 2/3 oz | EA | 1 | | | | | | | | | | | | |
| 2 | 005-00-494-6602 | Brush, cleaning, small arms | EA | 1 | | | | | | | | | | | | |
| 3 | 1005-01-451-5119 | Cleaning kit, 7.62 mm, Otis (soft belt-pack) | | | | | | | | | | | | | | |

Table 1. Inventory Sheet - Continued.

| Inventory Sheet | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Name of Equipment: AK-47 Equipment | | | | | | | | | | | | | | | | | |
| Item No. | National Stock Number | Item ID | Unit of Measure / Qty Used in Unit / Month | | J | F | M | A | M | J | J | A | S | O | N | D |
| Otis, 7.62 mm Cleaning Kit consists of: | | | | | | | | | | | | | | | | | |
| 4 | TBD | Case, soft pack | EA | 1 | | | | | | | | | | | | |
| 5 | 1005-01-449-8902 | T-Handle | EA | 1 | | | | | | | | | | | | |
| 6 | 9150-01-102-1473 | Cleaner, lubricant, and preservative | EA | 1 | | | | | | | | | | | | |
| 7 | 1005-01-445-6798 | Brush, lens, mohair | BT | 1 | | | | | | | | | | | | |
| 8 | 1005-01-445-5889 | Handle, rod, female | EA | 1 | | | | | | | | | | | | |

Table 1. Inventory Sheet - Continued.

| Inventory Sheet | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Name of Equipment: AK-47 Equipment | | | | | | | | | | | | | | | | | |
| Item No. | National Stock Number | Item ID | Unit of Measure | Qty Used in Unit Month | | | | | | | | | | | | | |
| | | | | | J | F | M | A | M | J | J | A | S | O | N | D | |
| Otis, 7.62 mm Cleaning Kit consists of - Continued: | | | | | | | | | | | | | | | | | |
| 9 | 1005-01-445-6728 | Patch, small caliber, 7.62 mm, round | EA | 1 | | | | | | | | | | | | | |
| 10 | 1005-01-449-9674 | Adapter, NATO | EA | 1 | | | | | | | | | | | | | |
| 11 | 1005-01-449-8999 | Brush, bore, 7.62 mm | EA | 1 | | | | | | | | | | | | | |
| 12 | 1010-01-445-6799 | Brush, end | EA | 1 | | | | | | | | | | | | | |

Table 1. Inventory Sheet - Continued.

| Inventory Sheet | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Name of Equipment: AK-47 Equipment | | | | | | | | | | | | | | | | | |
| Item No. | National Stock Number | Item ID | Unit of Measure / Qty Used in Unit / Month | | J | F | M | A | M | J | J | A | S | O | N | D |
| Otis, 7.62 mm Cleaning Kit consists of - Continued: | | | | | | | | | | | | | | | | | |
| 13 | 1005-01-449-9282 | Brush, chamber, .45 cal | EA | 1 | | | | | | | | | | | | | |
| 14 | TBD | Bore lite, fiber optic | EA | 1 | | | | | | | | | | | | | |
| 15 | 1005-01-449-8928 | Brush, end, nylon | EA | 1 | | | | | | | | | | | | | |
| 16 | 1005-01-445-6798 | Rod, flex, 30” | EA | 1 | | | | | | | | | | | | | |
| 17 | 1005-01-445-4889 | Rod, flex, 8” | EA | 1 | | | | | | | | | | | | | |
| 18 | 1005-01-449-9943 | Pick, gas port | EA | 1 | | | | | | | | | | | | | |

Table 1. Inventory Sheet - Continued.

| Inventory Sheet | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Name of Equipment: AK-47 Equipment** | | | | | | | | | | | | | | | | | |
| **Item No.** | **National Stock Number** | **Item ID** | **Unit of Measure** | **Qty Used in Unit** | **Month** | | | | | | | | | | | | |
| | | | | | | **J** | **F** | **M** | **A** | **M** | **J** | **J** | **A** | **S** | **O** | **N** | **D** |
| **Otis, 7.62 mm Cleaning Kit consists of - Continued:** | | | | | | | | | | | | | | | | | |
| 19 | 1005-01-449-6728 | Brush, compact, all-purpose (A/P) | EA | 1 | | | | | | | | | | | | | |
| 20 | 1005-01-449-9674 | Scraper | EA | 1 | | | | | | | | | | | | | |
| 21 | 1005-01-449-8999 | Tip, slotted, 7.62 mm | EA | 1 | | | | | | | | | | | | | |
| 22 | 1005-01-449-9282 | Remover, obstruction, 7.62 mm | EA | 1 | | | | | | | | | | | | | |
| **End of Otis, 7.62 mm Cleaning Kit** | | | | | | | | | | | | | | | | | |

Table 1. Inventory Sheet - Continued.

| Inventory Sheet | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Name of Equipment: AK-47 Equipment | | | | | | | | | | | | | | | | | |
| Item No. | National Stock Number | Item ID | Unit of Measure | Qty Used in Unit Month | J | F | M | A | M | J | J | A | S | O | N | D |
| 23 | 9150-00-935-6597 | Lubricating oil, semi-fluid | EA | A/R | | | | | | | | | | | | |
| 24 | TBD | Magazine, cartridge | EA | 6 | | | | | | | | | | | | |
| 25 | TBD | Sling, AK-47 | EA | 1 | | | | | | | | | | | | |
| 26 | TBD | Rod, cleaning, AK-47 | EA | 1 | | | | | | | | | | | | |
| 27 | TBD | Bayonet, AK-47 | EA | 1 | | | | | | | | | | | | |

Table 1. Inventory Sheet - Continued.

| Inventory Sheet | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Name of Equipment: AK-47 Equipment | | | | | | | | | | | | | | | | | |
| Item No. | National Stock Number | Item ID | Unit of Measure | Qty Used in Unit Month | J | F | M | A | M | J | J | A | S | O | N | D |
| 28 | TBD | Scabbard, bayonet, AK-47 | EA | 1 | | | | | | | | | | | | |
| 29 | TBD | Kit, combination tool | EA | 1 | | | | | | | | | | | | |
| Combination Tool Kit consists of: | | | | | | | | | | | | | | | | | |
| 30 | TBD | Case | EA | 1 | | | | | | | | | | | | |
| 31 | TBD | Cap, case | EA | 1 | | | | | | | | | | | | |
| 32 | TBD | Blade, combination tool | EA | 1 | | | | | | | | | | | | |

Table 1. Inventory Sheet - Continued.

| Inventory Sheet | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Name of Equipment: AK-47 Equipment | | | | | | | | | | | | | | | | |
| Item No. | National Stock Number | Item ID | Unit of Measure / Qty Used in Unit / Month | | J | F | M | A | M | J | J | A | S | O | N | D |
| Combination Tool Kit consists of - Continued: | | | | | | | | | | | | | | | | |
| 33 | TBD | Pick | EA | 1 | | | | | | | | | | | | |
| 34 | TBD | Brush, bore | EA | 1 | | | | | | | | | | | | |
| 35 | TBD | Holder, patch | EA | 1 | | | | | | | | | | | | |
| End of Combination Tool Kit | | | | | | | | | | | | | | | | |

**END OF WORK PACKAGE**

# INDEX

## INDEX – CONTINUED

*Subject* *Work Package/Page*