



7.62×39mm Semi-Auto Rifle

Type T815A Manual

Operation & Maintenance Instructions for the 7.62×39mm Semi-Auto Rifle Type T81SA

1 Fundamental rules of safe operation

Please carefully read the following fundamental rules of safe operation before using the rifle, and again read, review and memorize these rules when you're going to use or to take the rifle out of the packing box. Remember, safety with the rifle depends on yourself! Keep in mind that the fundamental rules of safe operation will prevent accidents from happening: The four ACTS of firearms safety and PROVE it safe that were taught in your firearms safety course. Anyone who operates the rifle must follow these rules of safe operation wherever they may be.

Article 1 Remember the four ACTS of safe operation

- A – Assume the rifle is always loaded
Always treat the rifle as a loaded weapon. Never assume it is empty.
- C – Control the muzzle direction at all times.

It is strictly prohibited to point the rifle at any non-target objects. Ensure the muzzle is pointed towards a safe direction at all times. This way, if one ever misfires, it will not cause injury to the operator or other people, or material damage. Adequate attention must be paid to this rule upon disassembling and reassembling the rifle.

- T – Trigger finger must remain off the trigger and away from the trigger guard.
Ensure that the trigger is never accidentally pulled by keeping your trigger finger away from the trigger until you are ready to shoot.

- S – See that the rifle is unloaded
PROVE that the rifle is safe

Article 2 PROVE that the rifle is unloaded and safe

Warning! It is strictly prohibited to go over fences, climb trees, wade across streams or make any violent movements by carrying the rifle with cartridge in its chamber. When you are not sure about the state of the rifle, remove the magazine and disassemble the rifle for inspection!

Warning! It is strictly prohibited to push cartridge into or pull it from the chamber while the rifle is pointed toward yourself or others.

Warning! It is strictly prohibited to put the rifle loaded with ammo in its case or packing box.

Once completing your four ACTS, you must now PROVE that your rifle is unloaded.

- P – Point your rifle in the safest available direction.
- R – Remove the magazine.
- O – Observe the chamber. Check that the chamber is indeed empty.
- V – Verify the feeding path
- E – Examine the bore. Ensure there aren't any foreign objects stuck in the bore.

Article 3 Do not rely solely on the rifle's safety device

Like any other devices, the rifle's safety device may malfunction or fail in some of the worst cases. Do not assume that the rifle will not misfire, and never rashly operate it or touch the trigger when the Safety is set in the "Safe" (S) position. It is strictly forbidden to pull the trigger when the Safety is in between the "Safe" and "Fire". The Safety is a supplementary device for proper operation rather than an alternative device. It is strictly forbidden to put any finger on the trigger when mounting or removing the magazine or loading cartridges. After removing the magazine, PROVE it safe while keeping all fingers clear of the trigger.

Warning! It is forbidden to touch the trigger before shooting.

Article 4 Verification of the target and objects behind it

Shots cannot be taken back. Therefore, prior to shooting, know where shots are going and what they will hit to ensure that no one gets hurt nor will any damage be done to anything behind the target. It is strictly prohibited to shoot at unidentified objects or materials capable of ricochets. Make sure that shots are safely stopped behind the target. Remember that you are responsible for your behavior and judgment.

Article 5 Using cartridges of the right specifications

It is very important to use cartridges of the right specifications. The rifle's operation manual contains the information of proper use of the right ammo. Using cartridges of wrong specifications, corroded cartridges or incorrect cartridge-loading is likely to cause damage to the rifle and even serious human casualties. One should develop a good habit of checking the specifications and status of cartridges before loading.

Article 6 Be cautious in case of misfire when the trigger is pulled

In case of misfire when the trigger is pulled, follow the rules in Article 1 by keeping the rifle muzzle pointed towards a safe direction, wait 60 seconds to see that no hang fire happens, before unloading the cartridge and handling it safely.

Article 7 Wear eye and ear protective devices while shooting

The shooting noise may cause permanent damage to your hearing, while the cartridge fragments (for example, debris and cartridge cases) may hurt your eyes. Therefore, safety glasses and protective headsets should be worn during shooting. When cleaning and disassembling the rifle, wearing the eye protection can also help prevent detergents and springing parts from hurting your eyes.

Article 8 Before firing, make sure that there are no foreign objects in the barrel

If there is any foreign object inside the rifle barrel upon firing, it may cause damage to the rifle, properties or even casualties. Prior to loading the chamber with a cartridge, check to make sure that there is no cartridge therein, that the magazine is loaded with cartridges of the right specifications and that there is no foreign object in the barrel. Even a little bit of mud, snow or excess oil lubrication inside the barrel is possible to cause barrel bulging or bursting, causing casualties to the shooter and bystanders. One should develop a good habit of clearing the chamber and removing all foreign objects from the barrel before each shooting operation. In case of any phenomenon found with the shooting noise or the recoil, cease fire immediately and check to make sure that there is no foreign object in the barrel. A cartridge or case of a smaller size loaded may remain in the barrel, resulting in obstruction, which may cause bursting of the firing rifle and casualties to the shooter and bystanders. Please see and review Article 5.

Article 9 Carry out periodic maintenance but do not modify the rifle

The rifle is a complex mechanical device and can function normally only in its original state. Any changes or modification of the rifle as delivered from its manufacturer may result in potential danger and jeopardize the warranty. Do not try to modify the trigger, the safety device or other components of the rifle to avoid causing harm to yourself and others. Regular service and maintenance should be carried out by an authorized factory or agency to ensure the normal function of the rifle.

Article 10 Get familiar with the mechanical and operating features of the rifle

Not all rifles operate the same way. Each rifle is different in terms of characteristics related to carrying, cartridge loading and unloading and operation. Therefore, do not try to hold any rifle if you are not quite clear on how to properly operate it.

Firing, cleaning the rifle and handling of cartridges may expose the operator to lead or other unknown substances, potentially causing birth defects and reproductive damage. Ensure there is good ventilation during shooting and clean your hands thoroughly afterwards.

Article 11 Stay away from alcoholic drinks and medications when using the rifle

The shooter has to keep a clear head during shooting! Do not operate the rifle after drinking alcoholic beverages or taking medication. Alcoholic drinks, certain medication and rifles never be used simultaneously, as your judgment and coordination could be impaired.

2 Introduction

2.1. Use of the rifle

7.62 x 39mm Model T81SA sporting rifle is the best tool for shooting and hunting enthusiasts and also a great collectable.

2.2. Characteristics of Operation

The rifle is gas operated with a rotating bolt. Upon firing, the expanding gases from the cartridge push the piston to move rearward. The piston pushes the bolt carrier, extracting the spent case. The bolt carrier spring pushes the bolt back into place, stripping a fresh round from the magazine and into the chamber.

2.3 Structure

2.3.1. The rifle profile



Fig. 1 The rifle profile

2.3.2. Major components of the rifle



Fig. 2 The exploded view of the rifle

- | | | | |
|-------------------|--------------|------------------------|-----------------|
| 1. Receiver cover | 2. Handguard | 3. Bolt carrier spring | 4. Bolt Carrier |
| 5. Piston spring | 6. Piston | 7. Gas plug | 8. Gun body |
| 9. Cleaning rod | 10. Magazine | | |

2.4. Main specifications

Caliber: 7.62mm
Barrel length: \geq 470mm
Cartridges used: 7.62 x 39mm ball cartridge
Length of whole gun: \approx 985mm
Firing mode: Semi-Automatic, purpose built
Weight of whole gun (with one empty magazine but without accessories): \approx 3.9 kg
Aiming means: Iron sight
Feeding device: Magazine of 5 rounds

3 Operating procedures

3.1. PROVE it safe before use

3.2. Load cartridges

- 3.2.1. Rotate the safety knob to the safe position "S".
- 3.2.2. If the magazine is in the rifle, remove the magazine by pressing the magazine catch (in front of the trigger ring) forward.
- 3.2.3. Load one cartridge of the right specifications (7.62 x 39mm ball cartridge) into the magazine.
- 3.2.4. Press the cartridge downward till it is held reliably by the holding piece.
- 3.2.5. Load the next cartridge in the same way until the magazine is full.

Warning! Prior to loading, make sure that the cartridge is of the right specifications, clean and free of damage. The rifle manufacturer and dealer are not responsible for use of any reproduced, retrofitted or self-made cartridges. Using the latest up-to-standard cartridges is beneficial to the rifle. Use of nonstandard or low quality cartridges may cause property damage or casualty during fire.

Warning: In order to minimize the risk of causing property damage and casualties, load cartridges when everything else is ready for shooting.

3.3 Aiming

The iron sight consists of the notched rear sight, the adjustable sliding seat of the front sight and adjustable front sight. There are 5 graduations of "1" "2" "3" "4" "5" on the rear sight, which are used to aim 100m, 200m, 300m, 400m and 500m distances. The sights are aligned when the front sight post is centrally located inside the rear sight notch, creating a flat line across the top of both sights. Once lined up, the top center point of the front sight is the point of impact.

3.4. Firing

3.4.1. Preparation before firing

Use the four ACTS of safe usage and PROVE it is safe to use

Warning! There are two positions, the fire position and the safe position of the safety selector. When the safety selector points to "S", the rifle is in the "safe" state (see Fig. 3). The rifle is in the firing state when the safety knob points to "F" (see Fig. 4). If the safety selector is not pointing to the "safe" position, pulling the trigger will fire the cartridge. Always be aware of the "Safe" and "Fire" positions of the safety selector to avoid serious casualties or property losses.

The safety selector in the safe position: The safety selector points to "S" shown on the receiver.

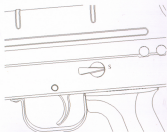


Fig. 3

The safety selector in the firing position: The safety selector points to "F" shown on the receiver.

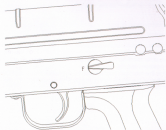


Fig. 4

3.4.1.1. Set the safety selector in the "S" position;

3.4.1.2. Load cartridges as stated herein;

3.4.1.3. Insert the loaded magazine into the magazine slot on the receiver and hook magazine hitch with the receiver until you hear the 'click', indicating the magazine is positioned. After mounting, gently swing the magazine to make sure that it is firmly locked (3 and Fig. 6).



Fig. 5 Remove the magazine by pressing forward the magazine catch



Fig. 6 The Magazine is fitted in position

3.4.1.4. Keep the muzzle towards the safe direction and fingers off the trigger. Set the safety selector to "F" (fire) position (see Fig. 4).

3.4.1.5. Pull the bolt to the rearmost position and then release it (see Fig. 7). The bolt moves quickly forward under the action of the return spring and pushes a cartridge into the chamber at the same time, getting the rifle ready for firing.



Fig. 7 Pull the bolt backward to feed a cartridge into the chamber

3.4.1.6. Set the safety selector to the "S" (safe) position.

Warning! Now the rifle chamber is loaded with a cartridge and the hammer is in the cocked position. Be careful when operating.

Warning! Now the rifle chamber is loaded with a cartridge and will fire if the safety selector is set to the "F" (fire) position and the trigger is pulled. Please be extremely careful and point the muzzle in a safe direction.

3.4.2. Shooting

3.4.2.1. Bear in mind the fundamental rules of safety operating the rifle and conduct aiming within the shooting range.

3.4.2.2. Set the safety selector to the "F" position.

3.4.2.3. Adjust the sights and aim at the target.

3.4.2.4. Put the index finger on the trigger inside the trigger guard.

3.4.2.5. Pull the trigger to fire the first cartridge.

3.4.2.6. Under the action of the powder gas, after firing the first round, unlocking and case extraction and ejection will all be completed. Please ensure that there is nobody in the case ejecting direction to avoid injury caused by the ejected case.

Warning! If the trigger is pulled again, the rifle will fire again! Keep the muzzle toward the target.

3.4.2.7. Keep on firing in the same way until all the rounds in the magazine are finished.

3.4.2.8. At the end of firing, set the safety selector to the "S" (safe) position (see Fig. 3).

3.4.2.9. Remove the magazine and check if there are any cartridges left inside. Pull the bolt a few times and visually check to make sure if there is a cartridge in the chamber. Remove the cartridge, if any, and store the rifle and ammo separately in a place inaccessible to other people.

Warning! If there is a cartridge in the chamber, the rifle will still fire when the trigger is pulled even the magazine has been removed.

Warning! If dropped on to the ground, any rifle with a cartridge in its chamber and with the safety knob set to the "F" position may possibly fire.

Warning! If the rifle fails to fire, it should be kept toward the target for at least 60 seconds to wait for hang fire. If the cartridge is not fired yet, remove the magazine and take out the failed round, which shall be properly kept or handed by a qualified agency or personnel.

3.5. Check for cartridge left in the chamber

Warning! Keep the muzzle pointed towards the safest direction

3.5.1. Set the safety selector to the "S" position (see Fig. 3).

3.5.2. Press the magazine holder to remove the magazine (see Fig. 5).

3.5.3. Set the safety selector to the "F" position. Pull the bolt to the rearmost position (see Fig. 7), check to make sure that there is no cartridge inside the chamber. Prompt: If there is a cartridge therein, that action will drag it out.

3.5.4. Unload any leftover cartridges from the magazine.

3.5.5. Set the safety selector to the "S".

Note: When storing the rifle, set the safety selector to the "S" position and the hammer in the fired position. Place the magazine, cartridges and the rifle separately.

3.6 Folding the stock

3.6.1 When the stock is folded, press down the clamp of the stock first, then turn the stock rightward to the right side of the receiver (See Fig. 8)

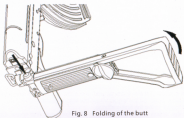


Fig. 8 Folding of the butt

3.6.2 When expanding the stock, press down the clamp of the stock first, then turn the stock backward to its position (See fig.9)

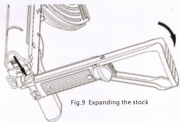


Fig.9 Expanding the stock

4 Disassembly and reassembly

- A. Before disassembling, PROVE it safe.
- B. Operation should be performed as specified, without hard knocking or violent stripping.
- C. Disassembled parts should be placed on a clean surface in sequence.
- D. No parts other than those specified should be disassembled.
- E. Parts should be cleaned and oiled before reassembling.
- F. After reassembly, all the mechanisms of the rifle should function flexibly and reliably.
- G. The reassembled rifle should be set in a safe position after check.

4.1. Disassembly Procedures

Warning! Disassembling the rifle against the rules may cause damage to the rifle.

Warning! Wear eye protector, such as shooting glasses or goggles, to prevent eyes from being injured by springing components during disassembly.

Warning! Prior to breaking down the rifle, follow the steps described above and check to make sure that there is no cartridge in the chamber.

4.1.1. Make the rifle safe

Hold the middle portion of the magazine, and press the magazine release lever to remove the magazine. Check the chamber is clear by pulling the bolt carrier backward.



Fig. 8 Remove the magazine

4.1.2. Disassemble the rifle

a. Remove the accessories

Push the accessory box forward. It is removed from the butt stock by pressing down its locating pin.

b. Remove the cleaning rod

Draw out the cleaning rod with the punch in the accessory box.

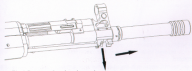


Fig.9 Remove the cleaning rod

c. Remove the receiver cover

Press the bolt carrier spring protrusion (square button on the receiver cover) with the thumb (or punch), and pull the receiver cover upward.

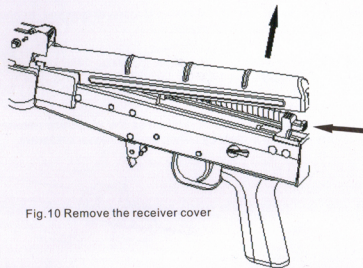


Fig.10 Remove the receiver cover

d. Remove the bolt carrier spring

Push the bolt carrier spring towards the muzzle and once clear remove the spring upward and backward.

e. Remove the bolt carrier

Pull the bolt carrier to the rear end of the receiver. Align the notch on the receiver, and take out the bolt carrier. Then remove the bolt in the bolt carrier.

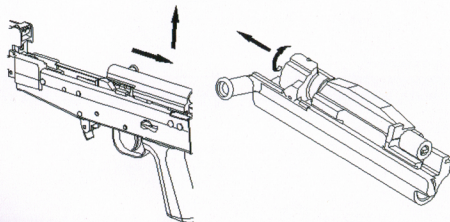


Fig.11 Remove the automatic mechanism

f. Remove the handguard

Set the the rear sight to "1", then pull the wheel to the left and rotate it forward to make the graduation "0" and "1" face to the ball point position. Remove the handguard upward.

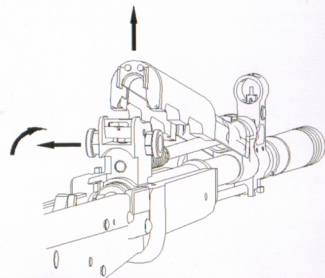


Fig.12 Remove the handguard

g. Remove the gas plug, the piston and the piston spring

Rotate the gas plug (leftward or rightward) to the limiting position, and make the gas plug press the piston spring till the gas plug is released. Remove the gas plug, the piston and the piston spring.

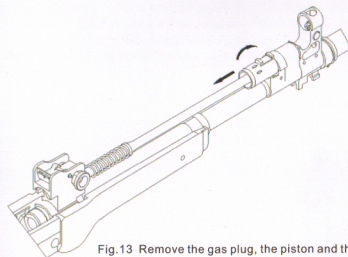


Fig.13 Remove the gas plug, the piston and the piston spring

4.2. Reassembly procedures

Reassembly should be carried out in the reverse order of disassembly. After reassembly, pull the trigger to set the hammer in the fired position with its spring free of tension.

Note:

4.2.1 After the gas plug, the piston and the handguard are reassembled, the gas plug shall be rotated to position "+". See fig.14.

