

AR-15 CLEANING PROCEDURE



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Introduction

This manual illustrates the procedure to safely and properly clean the AR-15/ M16/ M4 rifle. For this procedure you will need the following;

- An AR-15/ M16/ M4 Rifle
- Flat working surface
- Cleaning rods
- Brushes
- Pads
- Solvent
- Lubricating Oil

No Tools are required to perform this procedure because the rifle is designed to be broken down by hand. This manual is broken down into 3 chapters. They are as follows.

Chapter 1: Disassembly

Chapter 2: Cleaning and Lubricating

Chapter 3: Assembly and Function Check

The Components you will need to familiarize yourself with are illustrated in the chart on the following page.

Components

- Upper Receiver
- Lower Receiver
- Bolt Carrier
- Bolt
- Firing Pin
- Firing Pin Retaining Pin
- Cam Pin



Component Chart

Chapter 1: Disassembly

Disassembly

Step 1: Safety Check

As with any firearm a safety check should be conducted BEFORE handling any firearm. In any scenario even if you know it is not loaded. This step is important to ensure safety and minimize the possibility of a negligent discharge.



First point the rifle in a safe direction and pull the charging handle to the rear exposing the chamber pictured in fig. 1. Be sure to see and feel with your finger to be sure that there is no round in the chamber and the rifle is clear as in fig. 2.



After clearing the rifle, run the bolt forward by depressing the bolt catch pictured in fig. 3. Then remove any magazine in the rifle by pressing the magazine release as pictured in fig. 4.

Step 2: Receiver Disassembly



To begin the breakdown process, locate the rear takedown pin on the left side of the rifle shown in fig. 5. and push it through to the rifle until it clicks in place. The weight of the rifle will now swing the top of the rifle open as illustrated in fig. 6.



You may now remove the bolt assembly and the charging handle shown in fig. 7. Once the charging handle and bolt assembly have been removed, set them aside as shown in fig. 8.



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Locate the front takedown pin and press it through the rifle until it clicks into place as shown in fig. 9. The rifle will now separate into the upper receiver and the lower receiver shown in fig. 10.

Step 3. Bolt Disassembly



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Begin disassembling the bolt by removing the "firing pin retaining pin" as shown in fig. 11 and 12.



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Next, flip the bolt carrier over and remove the firing pin and set it aside as shown in figs. 13 and 14.



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Next push the bolt into the bolt carrier and rotate the "cam pin" 90 degrees in either direction and then pull it from the hole. This is shown in figs. 15 and 16.



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Once the "cam pin" has been removed you may now pull the bolt from the bolt carrier. You have now disassembled the bolt assembly and are now ready to clean your rifle.

Chapter 2: Cleaning and Lubricating Your Rifle

Cleaning and Lubricating Your Rifle

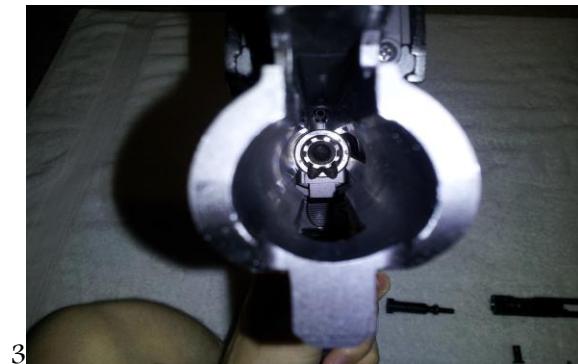
Step 1: Cleaning the Lower Receiver

Begin cleaning your rifle by starting with the lower receiver. Clean around the magazine well and in the trigger assembly. The lower receiver requires no lubrication as it has no moving parts that cause serious friction or parts that could lower the performance of your rifle. Use cotton swabs and brushes to remove residue around the trigger assembly. Keeping this clean will allow for a smooth trigger pull (see fig. 1, 2).



Step 2: Cleaning the Upper Receiver

Begin cleaning your upper receiver by starting with the barrel. This is cleaned by using the rods, cotton swabs, and solvent. Run the rod through the barrel using several cotton swabs until they no longer pick up residue. You may also clean the flash hider at the end of the barrel but it is not required. These components are shown in figs. 3 and 4.



Next, Clean the cannel of the upper receiver where the bolt and charging handle slide. Use cotton swabs to get into the corners where the majority of residue builds up. After the upper receiver has been cleaned it needs to be lubricated. All surfaces that come in contact with moving parts should be lubricated to lower friction. This includes the channels that the bolt and charging handle run through. (See figs. 5 and 6 below)



Step 3. Cleaning the Bolt Assembly

All components of the bolt need to be cleaned and have all residue removed. Once the parts have been cleaned, clean them again. The cleaner the bolt assembly is, the better the performance of the rifle. All components of the Bolt assembly should be thoroughly lubricated. The Bolt and bolt carrier should be well saturated with lubricant as these parts are what make the firearm function. All components that need lubrication can be found in the figures bellow.



Bolt



Bolt Carrier



Firing Pin



Cam Pin

Chapter 3: Reassembling Your Rifle

Reassembly

Step 1: Reassembly of the Bolt carrier



Begin assembly of the bolt by inserting the bolt into the bolt carrier. Next, insert the "cam pin" into the hole on the side of the carrier and rotate it 90 degrees as shown in figs. 1 and 2.



Next, insert the firing pin through the back of the bolt carrier and secure it with the firing pin retaining pin. Insert this in the hole on the side of the rifle and twist until it slides into place. (Fig. 3 and 4)



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Extend the bolt from the bolt carrier until it stops as shown in fig. 5. Then reassemble the upper and lower receivers by lining up the receivers and pushing the front breakdown pin back into the rifle.



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Lay the charging handle into the upper receiver and then slide it into the receiver until it calls into its channel. Then insert the bolt assembly and push both components into the receiver until they both click into place as shown in fig. 7. After inserting all interior components, close the receivers together and push the rear takedown pin through the rifle until it clicks into place.



Your rifle is now clean and assembled. A function check should now be performed. This is done by first doing a second safety check to ensure the firearm is safe. Even though the rifle was just assembled, it is better safe than sorry. First, pull the charging handle to the rear and let the bolt run forward. Then point the rifle in a safe direction and pull the trigger. While keeping the trigger depressed pull the charging

handle to the rear again and run the bolt forward. Then slowly release the trigger until it clicks and then depress the trigger again. If the trigger fires properly you have successfully reassembled your rifle.

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