

# USE AND MAINTENANCE MANUAL

Semiautomatic PCC - REVO ARMS RA9 (Cal. 9x19mm)

REVISION 1-2026

## 1. INTRODUCTION AND GENERAL WARNINGS

This manual forms an integral part of the firearm and is designed to provide clear and detailed instructions regarding safe operation, handling, field stripping, and routine maintenance of pistol caliber carbines (PCC - Pistol Caliber Carbine) in 9x19mm Parabellum caliber.

### **⚠ WARNING — FUNDAMENTAL SAFETY RULES**

1. ALWAYS treat the firearm as if it were loaded.
2. NEVER point the firearm at anything you do not intend to destroy.
3. Keep your finger off the trigger and outside the trigger guard until you are ready to shoot.
4. ALWAYS be sure of your target and what lies beyond it.
5. Store the firearm and ammunition separately, out of reach of minors or unauthorized persons.

## 2. OPERATING INSTRUCTIONS AND USE

### 2.1 Loading the Magazine and Loading the Firearm

Insert the 9x19mm cartridges into the magazine by pressing the rim downward and sliding it backward under the magazine lips. Insert the loaded magazine into the magazine well of the firearm until you hear a firm click indicating it is securely locked in place.

### 2.2 Cocking and Chambering

With the magazine inserted and the bolt closed, pull the charging handle firmly all the way to the rear and release it abruptly. DO NOT ride the charging handle forward to prevent failure to chamber.

### 2.3 Firing

Rotate the selector switch from the SAFE position to the FIRE position. Hold the firearm firmly, align the sights on the target, and apply steady pressure to the trigger until the sear releases the hammer.

## 3. SAFETY CHECK PROCEDURE (INSPECTION)

Before carrying out any cleaning, maintenance, or transportation, it is MANDATORY to perform the safety inspection procedure to check the status of the firearm:

**Step 1:** Point the firearm in a safe direction.

**Step 2:** Press the magazine release button and remove the magazine from the firearm.

**Step 3:** Pull the charging handle fully to the rear to eject any cartridge present in the chamber.

**Step 4:** Lock the bolt in the open position by engaging the bolt catch (Hold Open lever).

**Step 5:** VISUALLY and TACTILEY inspect the chamber and magazine well to ensure no ammunition is present.

**Step 6:** Gently release the bolt and engage the manual safety.

## 4. FIELD STRIPPING

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Field stripping is performed without the use of special tools for ordinary cleaning and inspection operations.

**1. Takedown Pin Removal:** After verifying that the firearm is unloaded, push the rear takedown pin from left to right and pull it out until it is held by its detent in the lower receiver.

**2. Tipping the Upper Receiver:** Pivot the upper receiver downward relative to the lower receiver.

**3. Bolt Carrier Group (BCG) Removal:** Pull the charging handle slightly to the rear and extract the heavy bolt carrier group—specifically designed for PCC—from the rear end of the upper receiver.

**4. Buffer and Spring Removal:** Depress the buffer retainer pin located in the receiver extension (buffer tube) and carefully remove the recoil spring and PCC buffer/weight.

### ⚠ CAUTION REGARDING PCC BUFFER WEIGHTS

Direct blowback 9x19 PCC carbines require significantly higher bolt and buffer masses compared to standard 5.56 AR-15s. Never use lightweight buffers or springs unsuited for 9mm caliber to prevent component failure or overpressure hazards! Where present, the internal mass must remain in front of the buffer.

**5. Front Pivot Pin Removal (Optional / Not Required):** Push the front pivot pin and pull it out to completely separate the upper receiver from the lower receiver.

## 5. ROUTINE MAINTENANCE AND CLEANING

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Regular cleaning extends the service life of the firearm and ensures maximum shooting reliability.

### 5.1 Cleaning Procedure

**Barrel and Chamber:** Pass a bronze bore brush soaked in specific powder/copper solvent from the chamber toward the muzzle. Follow with dry patches until completely clean.

**Bolt Carrier Group (BCG):** Remove carbon residue from the bolt face and extractor using a nylon brush and solvent. Clean carbon residue from the outer surface of the bolt with a rag. Every 1,000 rounds, remove the firing pin and clean it with a rag. Clean around the firing pin hole with a small brush or patches wrapped around a 3mm rod, then blow dry with compressed air.

**Lower and Upper Receiver:** Clean the magazine well, trigger group, and buffer tube with a dry microfiber cloth.

### 5.2 Lubrication

Apply a light coat of high-quality gun lubricating oil to the following friction points:

- Outer surface of the bolt carrier group (BCG).
- Outer surface of the buffer and recoil spring.
- Disconnecter lever pin and trigger group pins (1 drop each).

- Light protective film on the outer barrel surface if exposed to humidity.

## 6. TROUBLESHOOTING

Diagnostic and corrective action table for common malfunctions during operation:

| Problem                                     | Possible Cause                                                                                                                                        | Corrective Action                                                                                                                                                       |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Failure to Feed (FTF)                       | <ul style="list-style-type: none"><li>• Improperly inserted magazine</li><li>• Bent/dirty magazine lips</li><li>• Weak grip (limp wristing)</li></ul> | <ul style="list-style-type: none"><li>• Remove and firmly reinsert magazine</li><li>• Clean or replace magazine</li><li>• Maintain a solid grip during firing</li></ul> |
| Failure to Extract (FTE)                    | <ul style="list-style-type: none"><li>• Dirty/fouled chamber</li><li>• Damaged or dirty extractor</li></ul>                                           | <ul style="list-style-type: none"><li>• Thoroughly clean the chamber</li><li>• Inspect extractor claw and extractor spring</li></ul>                                    |
| Failure to Fire                             | <ul style="list-style-type: none"><li>• Hard or defective primer</li><li>• Dirt accumulation in firing pin channel</li></ul>                          | <ul style="list-style-type: none"><li>• Wait 30 seconds pointing in a safe direction, then eject round</li><li>• Disassemble and clean firing pin channel</li></ul>     |
| Bolt does not remain open on empty magazine | <ul style="list-style-type: none"><li>• Damaged/incompatible magazine</li><li>• Dirty bolt catch (Hold Open) lever</li></ul>                          | <ul style="list-style-type: none"><li>• Try with another genuine Glock/PCC magazine</li><li>• Clean and lubricate the Hold Open mechanism</li></ul>                     |