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REC10

OPERATOR'S MANUAL

READ THE INSTRUCTIONS AND WARNINGS IN THIS MANUAL CAREFULLY BEFORE OPERATING THIS FIREARM; DO NOT DISCARD THIS MANUAL.



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MANUFACTURER'S DISCLAIMER

BFMI will not be responsible for injury, death, or damage to property resulting from either intentional or accidental discharge of this firearm or from its function when used for purposes or subjected to treatment for which it was not designed.

WARRANTY AND SERVICE

For one year from date of purchase, Barrett Firearms Manufacturing Inc. (BFMI), warrants to the original owner, that this product was manufactured free of defects in materials and workmanship. BFMI will correct any defect covered under the warranty by repair or replacement with the same or comparable model. BFMI will not be responsible for injury, death, or damage to property resulting from either intentional or accidental discharge of this firearm or from its function when used for purposes or subjected to treatment for which it was not designed. BFMI will not honor claims involving this product which result from careless or improper handling, unauthorized adjustment or parts replacement, corrosion, neglect, the use of the wrong caliber ammunition, or the use of other than commercially manufactured ammunition in good condition, or any combination thereof. Please visit **barrett.net** for any additional information.

If you need factory service, whether covered under warranty or not, please contact BFMI for instructions on how to have your rifle repaired.

Barrett Firearms Manufacturing Inc.
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USE OF THIS MANUAL

Read this manual before you use or manipulate your Barrett product. It is important that you understand the principles of safe gun handling in general and the features of this product. This manual is not a substitute for training from a qualified instructor. Important safety topics are discussed in this chapter and throughout this manual. This manual should remain with the product and it should be transferred with the product to subsequent owners. Additional manuals can be ordered from Barrett Firearms Manufacturing Inc. or can be downloaded from the company website, **barrett.net**. Technical specifications are subject to change without notice.

SAFETY GUIDELINES

WARNING

FAILURE TO FOLLOW SAFETY GUIDELINES MAY CAUSE INJURY OR DEATH .

MUZZLE CONTROL

Always keep the muzzle pointed in a safe direction. Never allow your muzzle to point at anything that you do not intend to shoot. Upon firing, the muzzle device releases high-pressure gas from its ports that can damage objects or cause injuries. Keep everything away from the vicinity of the muzzle.

KEEP YOUR FINGER OFF THE TRIGGER

Keep your finger off the trigger and out of the trigger guard until your sights are aligned on your target and you intend to fire.

ASSUME EVERY FIREARM IS LOADED

Always treat every firearm as if it were loaded. Look and feel for an empty chamber. Do not trust the extractor to provide an empty chamber.

KEEP YOUR SAFETY ON

Keep your safety on until your sights are aligned on your target and you intend to fire.

AMMUNITION

Do not use hand loaded, re-manufactured, or surplus ammunition. Always use new, clean, dry, properly stored, and correct caliber ammunition from reputable manufacturers.

FAILURE TO FIRE

If your rifle fails to fire when you pull the trigger, do not open the action. Keep the rifle pointed toward a safe area and wait 2 minutes. If a hang-fire (slow ignition) has occurred, the round will probably fire within two minutes. If the round does not fire, remove and inspect the cartridge. If the primer is indented properly, discard it in a safe manner.

BEWARE OF BARREL OBSTRUCTIONS

Ensure the barrel's bore and chamber are free of obstructions before you fire your rifle. Even the smallest obstruction such as a stuck patch or grease will cause increased pressures that can rupture the barrel.

MAINTAIN YOUR RIFLE PROPERLY

Performing proper maintenance, as outlined in this manual, ensures that your rifle will be safe to shoot and will perform to design specification for many years. Alterations, modifications or adjustments may damage your rifle, make it unsafe to fire and will void warranty claims.

SAFETY DISTANCE

Bullets fired from this rifle may travel as far as 4 miles. Make certain that you have an adequate backstop.

HEARING PROTECTION

Always wear adequate hearing protection when the rifle is firing; wear both earplugs and shooting muffs together for maximum protection. This includes observers. Observers should always be behind the shooter.

EYE PROTECTION

Appropriate eye protection should be worn when both shooting and maintaining your rifle. It is normal for firing to generate airborne dust and debris. Protect your eyes from solvents and parts under spring pressure while performing maintenance on your rifle.

STORE YOUR RIFLE SAFELY

It is your responsibility to take reasonable precaution to secure your rifle, keep it properly secured and prevent unauthorized use.

ALCOHOL, MEDICATIONS AND DRUGS

Do not handle or operate your rifle under the influence of alcohol, medication or drugs.

LEAD EXPOSURE

Discharging firearms in poorly ventilated areas, cleaning firearms, or handling ammunition may result to exposure to lead and other substances. Maintain adequate ventilation at all times. Thoroughly wash hands after exposure.

⚠ WARNING

THIS PRODUCT CAN EXPOSE YOU TO CHEMICALS, INCLUDING LEAD, WHICH IS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. FOR MORE INFORMATION GO TO www.P65Warnings.ca.gov.

DESCRIPTION OF FIREARM

The REC10 is a semi-automatic, hammer fired, magazine fed, precision rifle with a rotating bolt actuated by direct gas impingement. User-selected accessories may be mounted on the Mil-Std 1913 top rail or on the Barrett Rail System (BRS) with the aid of M-Lok attachment points. The REC10 is available in several configurations however the safety, operation, cleaning and troubleshooting procedures outlined in this manual are applicable to all configurations of the REC10.

CONFIGURATIONS - FIGURE 1

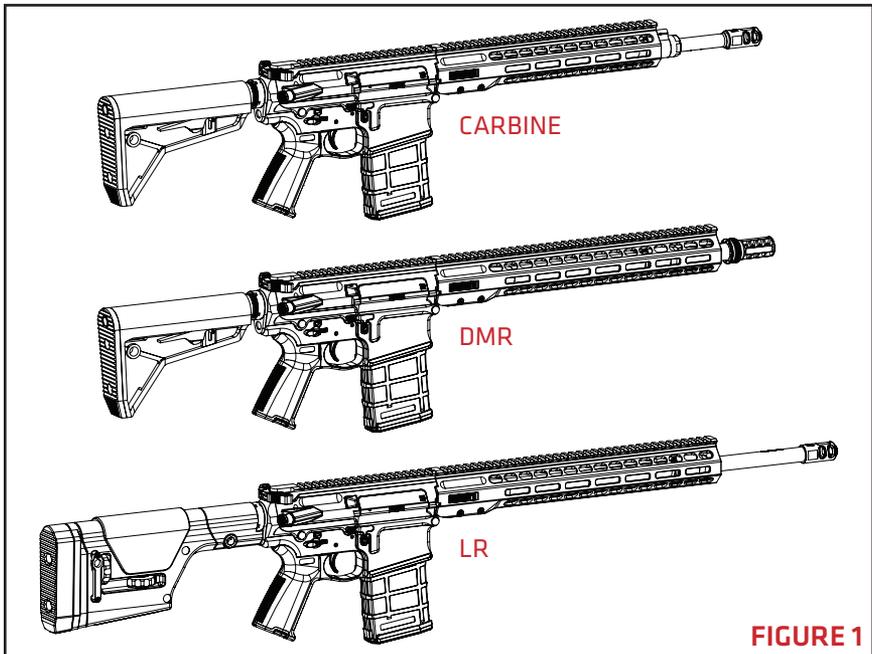


FIGURE 1

SPECIFICATIONS

MODEL	CALIBER	BARREL LENGTH	BARREL MATERIAL	TWIST RATE	WEIGHT	LENGTH (COLLAPSED)
Carbine	.308 Winchester	16 in (406.4 mm)	CMV Chrome Lined	1:10 in (254 mm)	8.0 lbs (3.6 kg)	34.5 in (876.3 mm)
DMR	.308 Winchester	16 in (406.4 mm)	SS	1:10 in (254 mm)	9.0 lbs (4.1 kg)	34.5 in (876.3 mm)
DMR	6.5 Creedmoor	16 in (406.4 mm)	SS	1:8 in (203.2 mm)	9.1 lbs (4.13 kg)	34.5 in (876.3 mm)
LR	.308 Winchester	20 in (508 mm)	SS	1:10 in (254 mm)	10.9 lbs (4.9 kg)	41.375 in (1050.9 mm)
LR	6.5 Creedmoor	20 in (508 mm)	SS	1:8 in (203.2 mm)	11.0 lbs (5.0 kg)	41.375 in (1050.9 mm)

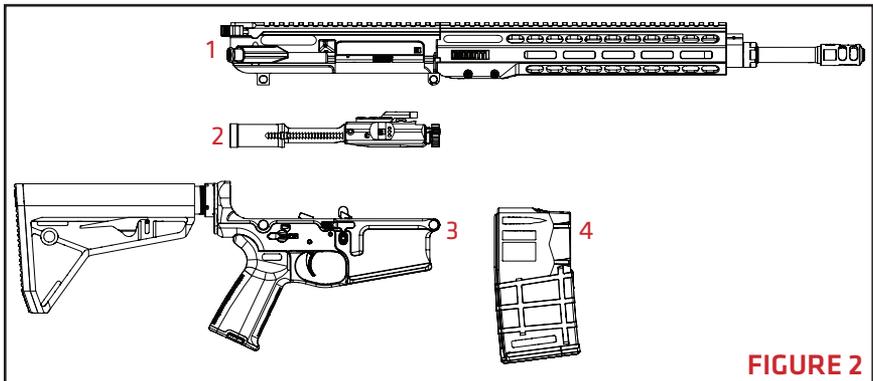
Operation: Direct impingement; semi-automatic

NOTE: INDIVIDUAL RIFLE SPECIFICATIONS AND WEIGHT MAY VARY PER ORDER AND CONFIGURATION.

Barrett reserves the right to change specifications without notification. Check barrett.net for updates.

MAJOR COMPONENTS - FIGURE 2

1. Upper Assembly
2. Bolt Carrier Assembly
3. Lower Assembly
4. Magazine



SAFETY MECHANISM - FIGURE 3

The REC10 rifle has a two-position safety:  (Safe) or  (Fire). Rotate the safety lever to the  (safe) position to prohibit the rifle from firing. The factory REC10 safety features ambidextrous safety levers and can be adjusted to operate 90 or 45 degrees between safe and fire.

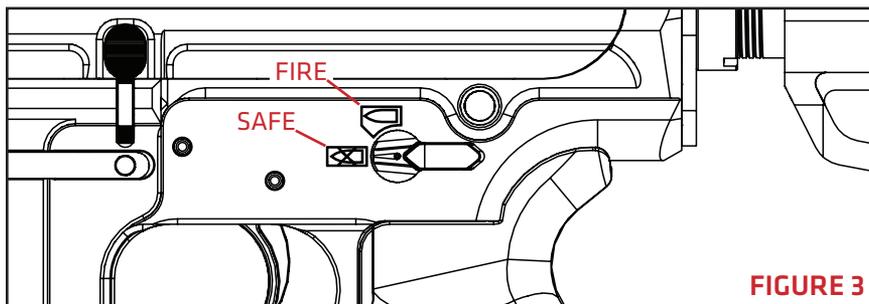


FIGURE 3

NOTE: THE HAMMER MUST BE COCKED IN ORDER FOR THE SELECTOR TO BE PLACED ON "SAFE".

LOADING AND FIRING

WARNING

KEEP MUZZLE POINTED IN A SAFE DIRECTION UNTIL READY TO FIRE

1. Ensure the safety lever is in the  (Safe) position.
2. Insert a loaded magazine fully into the magazine well until the catch engages and holds the magazine in place (**FIGURE 4**). Tap the magazine upward to ensure the magazine is fully seated, then pull down on the magazine to ensure proper retention.

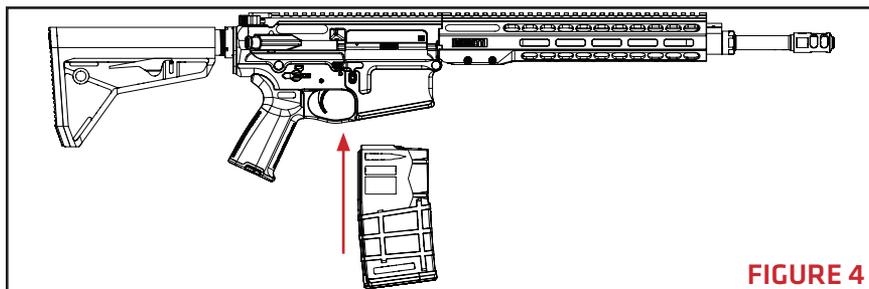
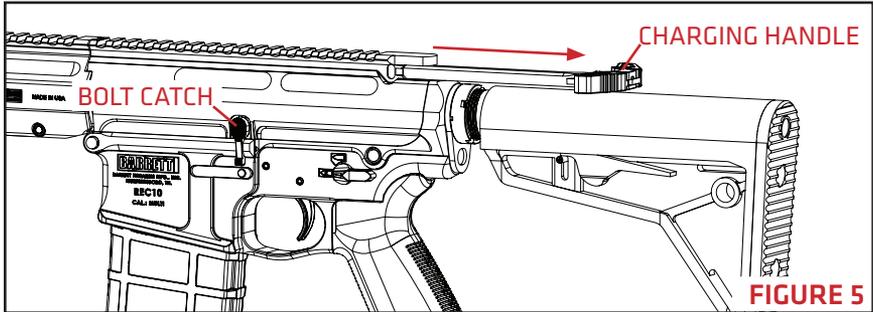


FIGURE 4

3. Pull the charging handle back to the rear. Once the charging handle is in the rearward most position, release handle with both fingers and let the handle go forward without any assistance. This will ensure the full force of the buffer spring is utilized to chamber the first round (**FIGURE 5**).

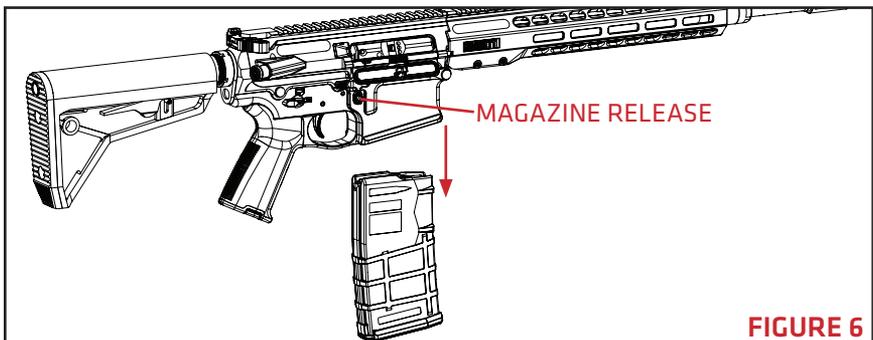


NOTE: IF THE BOLT IS LOCKED IN THE REARWARD POSITION THE BOLT CATCH CAN BE USED TO CLOSE THE BOLT ON A LOADED MAGAZINE AND CHAMBER THE FIRST ROUND.

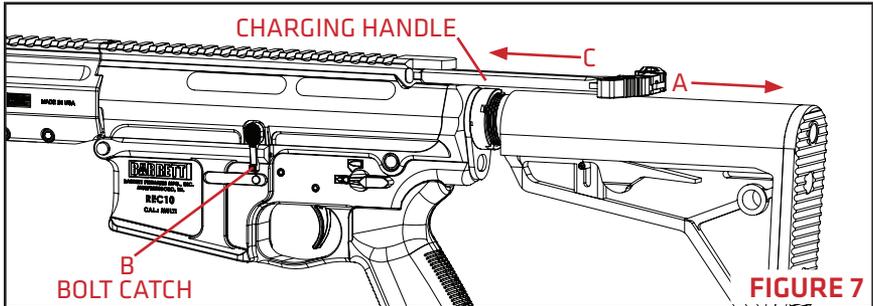
4. Rotate the safety lever to the  (fire) position. The rifle is now able to fire. The rifle will fire one round for each pull of the trigger until the magazine and chamber are empty.
5. After the magazine is emptied, or you are done firing, place the safety lever in the  (safe) position. Unload the rifle by following the procedure outlined in the **UNLOADING** section.

UNLOADING

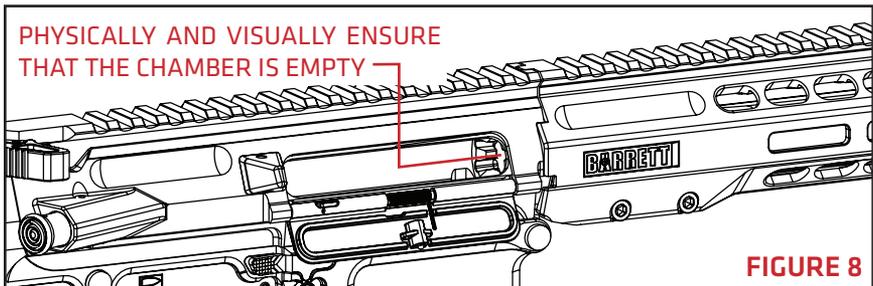
1. Rotate the safety lever to the  (safe) position.
2. Remove the magazine by depressing the magazine release button and allowing it to fall free (**FIGURE 6**).



- To lock the bolt open, pull the charging handle rearward to hold the bolt carrier to the rear (**FIGURE 7-A**). While holding the charging handle rearward, depress the bottom of the bolt catch (**FIGURE 7-B**). Release tension on the charging handle and ensure the bolt is held open. Push the charging handle forward until it latches (**FIGURE 7-C**).



- With the bolt locked open, visually and physically inspect the chamber and magazine well to ensure that it is empty of any live ammunition (**FIGURE 8**).



- Ensure the selector switch is on SAFE (☒). Always store the rifle with the bolt forward in the closed position. Close the bolt by pulling back on the charging handle and slowly allowing the bolt to slide forward.

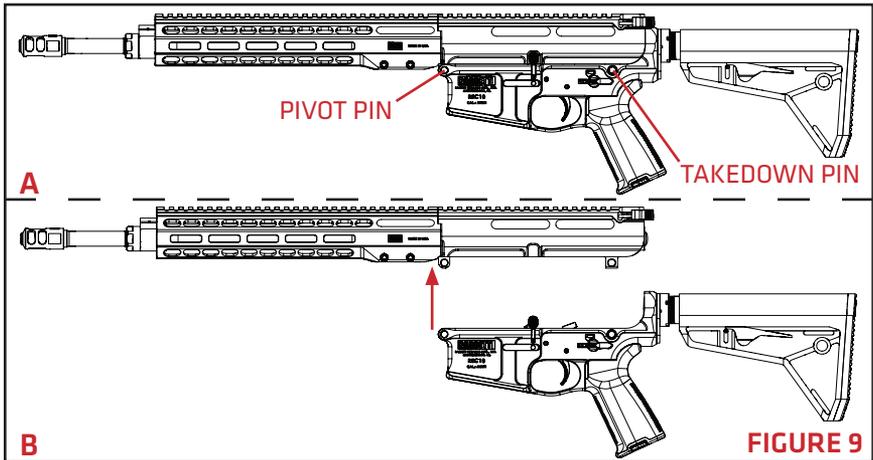
FIELDSTRIP

⚠ WARNING

UNLOAD THE RIFLE BEFORE DISASSEMBLY. ENSURE THAT LIVE AMMUNITION IS NOT PRESENT DURING THE DISASSEMBLY OR ASSEMBLY PROCESS.

The REC10 can be fieldstripped without tools into the major components (**FIGURE 2**).

1. Remove the magazine and ensure the rifle is unloaded by following the steps in the **UNLOADING** section.
2. With the safety on and bolt closed, push the takedown pin (rear most pin) and the pivot pin (forward most pin) until they stop (**FIGURE 9-A**). Both pins are retained in the receiver and should not be completely removed. Separate the upper and lower receivers (**FIGURE 9-B**).



3. Pull back the charging handle and withdraw the bolt carrier assembly (**FIGURE 10-A**).
4. Slide the charging handle out of its track and remove it (**FIGURE 10-B**).

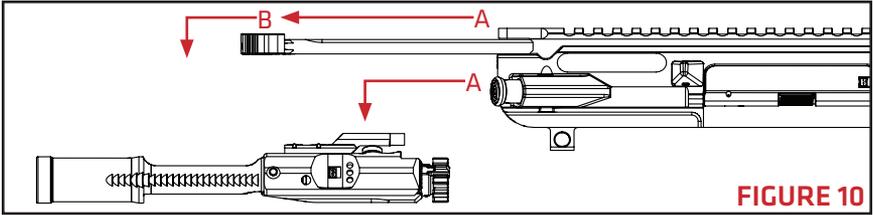


FIGURE 10

ADVANCED DISASSEMBLY

NOTE: DISASSEMBLY OF THE BOLT CARRIER IS NOT REQUIRED FOR REGULAR CLEANING AND IS NOT RECOMMENDED. DISASSEMBLE THE BOLT CARRIER ONLY WHEN EXCESSIVE DEBRIS PREVENTS NORMAL OPERATION OR PARTS ARE DAMAGED.

DISASSEMBLY OF THE BOLT CARRIER - FIGURE 11

1. Disengage the firing pin retaining pin in the bolt carrier by gently pushing or pulling the pin to the side the bolt carrier. The firing pin retaining pin is retained in the bolt carrier and should not be completely removed.
2. Remove the firing pin from the bolt carrier. Using a clean soft surface, lightly strike the rear of the bolt carrier to assist in removal (Never use a sharp object to push the firing pin out of the bolt).
3. To remove the cam pin, push the bolt into the bolt carrier then remove the cam pin. The cam pin should extract by hand.
4. Remove the bolt from the bolt carrier.

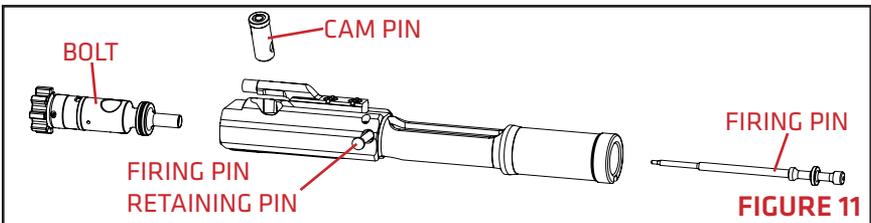


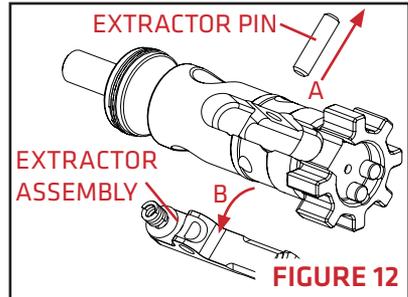
FIGURE 11

NOTE: THE REASSEMBLY PROCEDURE OF THE BOLT CARRIER IS THE REVERSE OF THE DISASSEMBLY PROCESS.

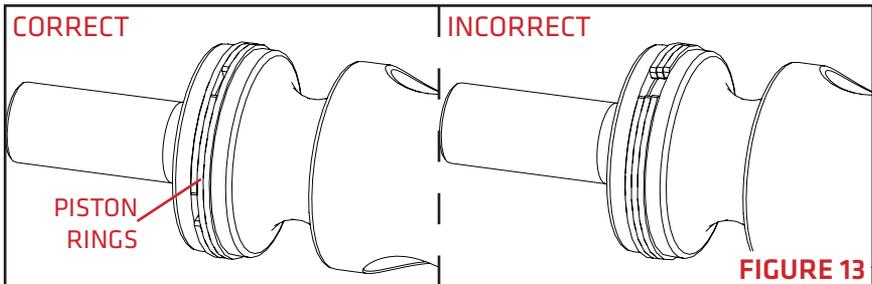
DISASSEMBLY OF THE BOLT

NOTE: DISASSEMBLY OF THE BOLT IS NOT REQUIRED FOR REGULAR CLEANING AND IS NOT RECOMMENDED. DISASSEMBLE THE BOLT ONLY WHEN EXCESSIVE DIRT/DEBRIS PREVENTS NORMAL OPERATION OR PARTS ARE DAMAGED.

1. Use a pin punch to remove the extractor pin. Applying downward pressure to the rear of the extractor directly above the extractor spring will aid in removal of extractor pin. Be aware that the extractor is under spring tension (**FIGURE 12-A**).



2. Remove the extractor assembly (**FIGURE 12-B**).
3. Ensure the three piston rings on the bolt are rotated so their open ends are NOT aligned (**FIGURE 13**).



NOTE: THE REASSEMBLY PROCEDURE OF THE BOLT IS THE REVERSE OF THE DISASSEMBLY PROCESS.

DISASSEMBLY OF LOWER RECEIVER

⚠ CAUTION

THE DISASSEMBLY OF TRIGGER COMPONENTS SHOULD ONLY BE ACCOMPLISHED BY A QUALIFIED ARMORER.

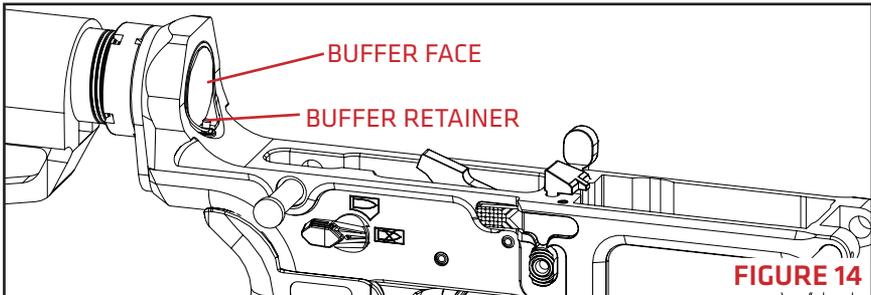
⚠ WARNING

THE BUFFER RETAINER IS UNDER STRONG SPRING PRESSURE. IF NOT PROPERLY RETAINED, IT CAN BE LAUNCHED FROM ITS TUBE AND CAUSE INJURY.

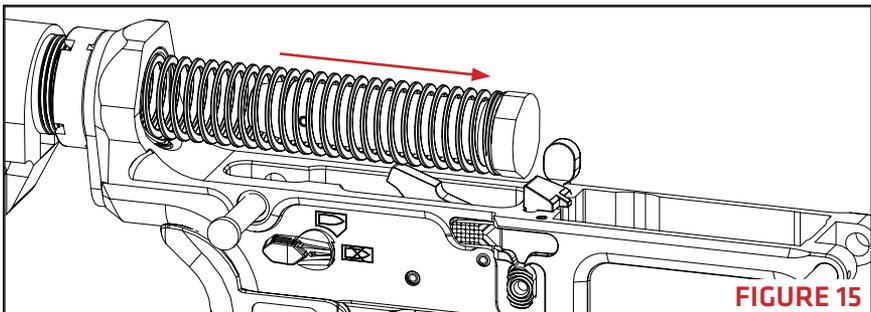
⚠ CAUTION

DO NOT PULL THE TRIGGER WHILE THE LOWER RECEIVER IS DISASSEMBLED FROM THE UPPER RECEIVER. THE HAMMER WILL STRIKE THE RECEIVER AND MAY DAMAGE OR BREAK THE RECEIVER AND/OR BOLT CATCH.

1. Push on the buffer face with finger pressure while holding the buffer retainer down with a suitable tool (**FIGURE 14**).



2. Carefully remove the buffer and spring assembly (**FIGURE 15**).



NOTE: THE REASSEMBLY PROCEDURE OF THE LOWER RECEIVER IS THE REVERSE OF THE DISASSEMBLY PROCESS.

MAINTENANCE GUIDE

WARNING

ENSURE THE RIFLE IS UNLOADED AND ALL AMMUNITION IS REMOVED FROM AREA PRIOR TO PERFORMING MAINTENANCE.

CLEANING PROCEDURE

Periodic cleaning is important for a long life of high performance from your rifle and prevents the corrosive effects of moisture.

1. Perform the following tasks to clean the bore and chamber:
 - Wet a cleaning patch with rifle bore cleaner and push the patch through the bore from breech to muzzle using a cleaning rod. Several patches may be used if bore is especially dirty.
 - While the bore is wet from the patches, scrub the bore with a bore cleaning brush attached to the cleaning rod.
 - Apply a small amount of rifle bore cleaner to a chamber brush and clean the chamber.
 - Push dry cleaning patches through the bore from breech to muzzle until the patches come out of the bore clean.

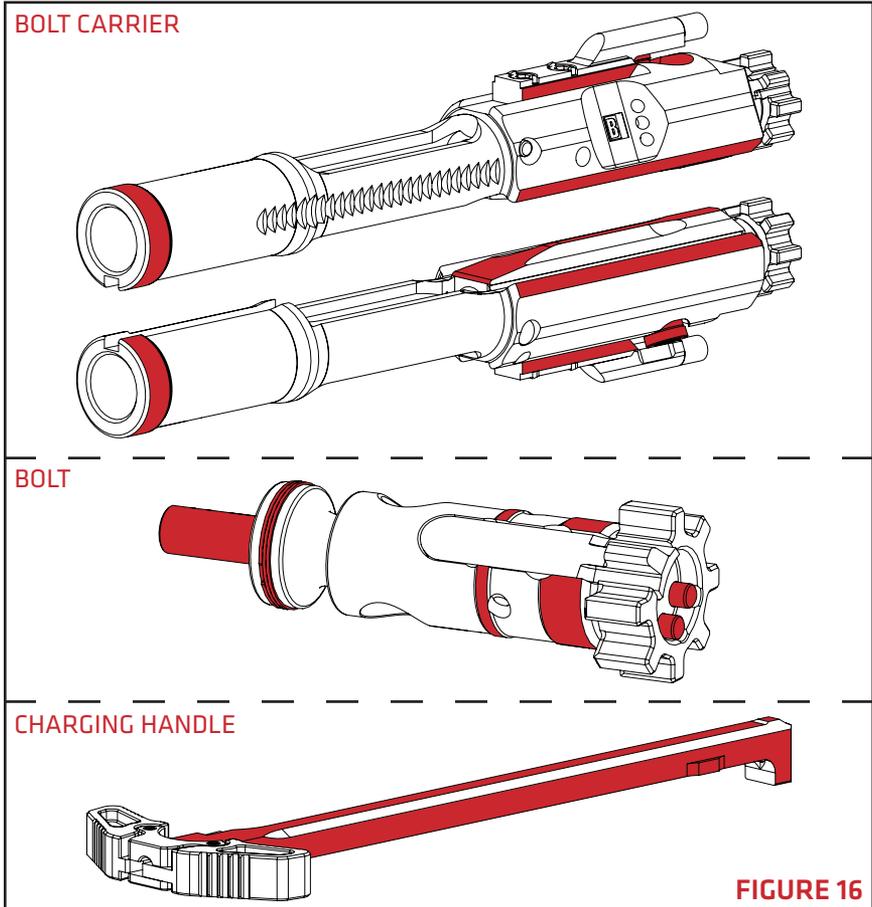
CAUTION

DO NOT INSERT CLEANING RODS THROUGH THE MUZZLE. THE BARREL CROWN COULD BE DAMAGED WHICH WOULD SEVERELY DEGRADE THE ACCURACY OF THE RIFLE.

2. Clean the muzzle device with a stiff plastic brush and bore solvent. It is best to clean the muzzle device at the same time the barrel is being cleaned as the bore solvent will help loosen carbon build-up on its interior walls.
3. Clean the bolt face with bore solvent. Use a stiff plastic brush to remove debris from both the extractor and the ejector. Depress the ejectors and extractor by hand or a spent casing to test their smooth function.
4. Use dry patches as necessary to remove cleaner and remaining carbon build up from the bolt face, locking lugs, gas rings, and bolt tail.
5. Clean the remainder of the rifle with cotton-tipped swabs, general purpose brushes and cleaning cloths.

LUBRICATION GUIDE

It is advised to apply a light coat of temperature appropriate lubricant to all mechanical metal surfaces. Critical lubrication points are shown in red (**FIGURE 16**). Do NOT lubricate ammunition, interior of the magazine, chamber, or bore.



TROUBLESHOOTING GUIDE

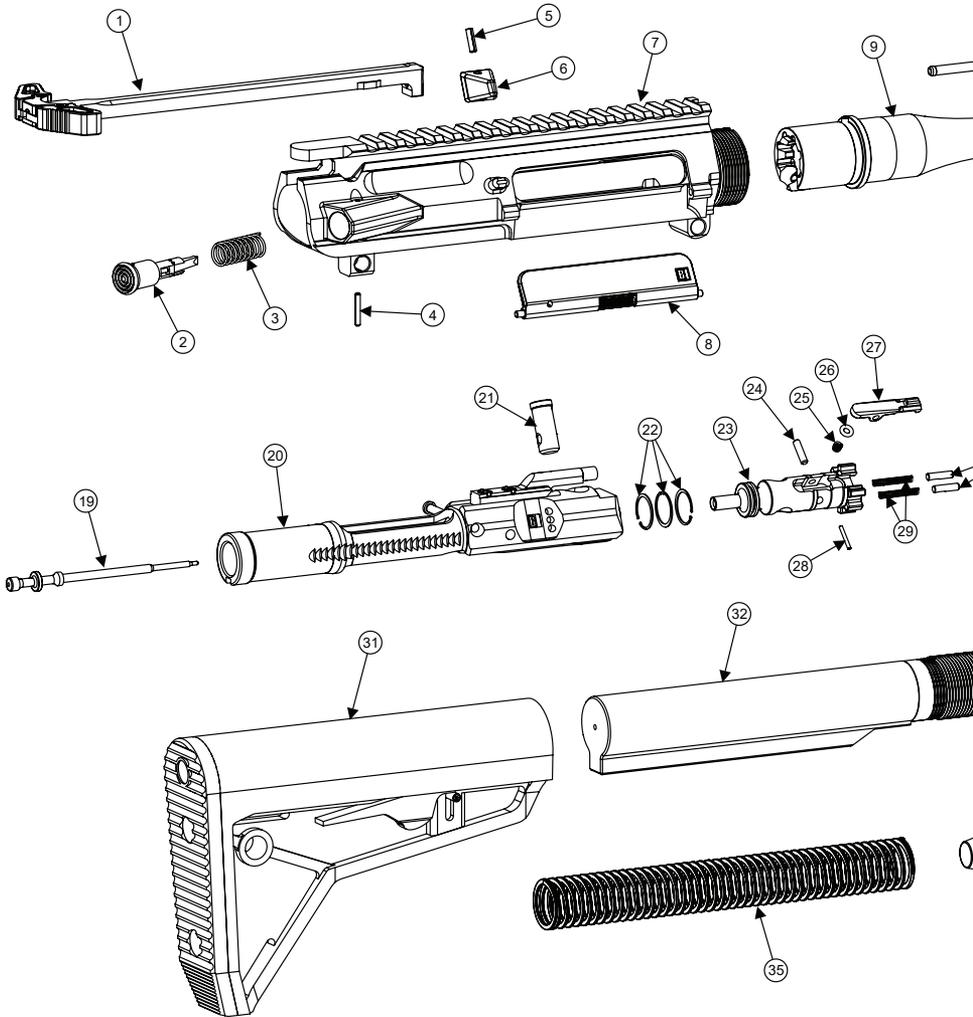
Malfunctions are caused by procedural or mechanical failures of the rifle, magazine, or ammunition. Utilize the following table in determining the cause and corrective actions for the most common malfunctions. If you need additional support or factory service, whether covered under warranty or not, please contact BFMI for instructions on how to have your rifle repaired.

MALFUNCTION	CAUSE	CORRECTIVE ACTION
FAILURE TO FEED	Did not draw bolt carrier fully to rear	Retract bolt carrier fully to the rear
	Magazine not seated	Seat magazine
	Damaged magazine	Replace or repair magazine
FAILURE TO CHAMBER	Damaged cartridge	Remove and replace cartridge
	Dirty or obstructed chamber	Clean chamber
FAILURE TO GO INTO OR OUT OF BATTERY	Obstruction in barrel extension	Disassemble and clean
	Bolt and barrel extension binding upon closing	Ensure proper installation of bolt and bolt carrier.
FAILURE TO FIRE	Faulty ammunition	Replace ammunition
	Obstructed or damage firing pin	Disassemble and clear obstruction; replace firing pin if necessary
FAILURE TO CYCLE	Faulty ammunition	Replace ammunition
	Excessive fowling	Clean the rifle following the cleaning procedure
	Non-lubricated surfaces	Lubricate components following the lubrication guide
	Broken/Worn buffer spring	Replace buffer spring
	Gas rings openings are aligned	Disassemble the bolt and align the gas rings properly

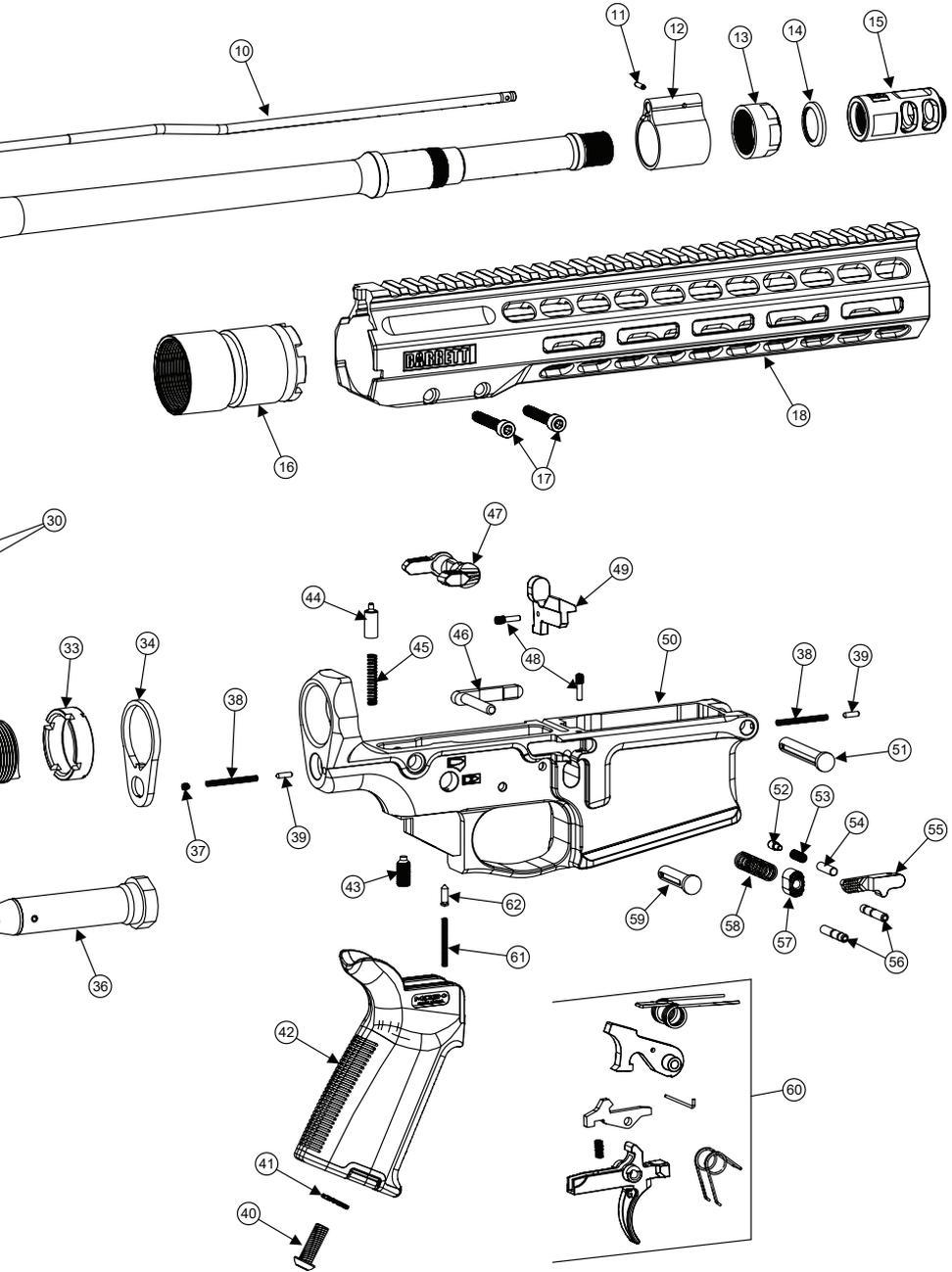
MALFUNCTION	CAUSE	CORRECTIVE ACTION
FAILURE TO EXTRACT	Broken or worn extractor spring	Replace extractor spring
	Extractor not moving freely	Clean extractor, extractor spring, and hole
	Dirty ammunition or chamber	Clean chamber and ensure ammunition is clean
	Broken case rim	Clear chamber
FAILURE TO EJECT	Broken or worn ejector	Replace ejector
	Broken or worn ejector spring	Replace ejector spring
	Ejector not moving freely	Clean ejector, ejector spring, and hole

NOTES

EXPLODED VIEW AND PARTS LIST



NOTE: RIFLE COMPONENTS MAY VARY PER CALIBER AND CONFIGURATION. SEE WEBSITE FOR CONFIGURATION INFO.



PART NO.	DESCRIPTION	QTY.
1	Charging Handle	1
2	Forward Assist Assembly	1
3	Forward Assist Spring	1
4	Forward Assist Retaining Pin	1
5	Shell Deflector Pin	1
6	Shell Deflector	1
7	Upper Receiver	1
8	Ejection Port Cover	1
9	Barrel Complete	1
10	Gas Tube	1
11	Gas Block Pin	1
12	Gas Block	1
13	Gas Block Nut	1
14	Crush Washer	1
15	Muzzle Brake	1
16	Barrel Nut	1
17	BRS Cross Bolts	2
18	BRS (Barrett Rail System)	1
19	Firing Pin	1
20	Bolt Carrier	1
21	Roller Cam Pin	1
22	Piston Ring	3
23	Bolt	1
24	Extractor Pin	1
25	Extractor Spring	1
26	Extractor Damper	1
27	Extractor	1
28	Ejector Pin	1
29	Ejector Spring	2
30	Ejector	2
31	Buttstock, Collapsible	1

PART NO.	DESCRIPTION	QTY.
32	Receiver Extension	1
33	Receiver Extension Nut	1
34	Receiver End Plate	1
35	Buffer Spring	1
36	Buffer Assembly	1
37	Detent Retaining Screw	1
38	Takedown Detent Spring	2
39	Takedown Detent	2
40	Pistol Grip Screw	1
41	Pistol Grip Washer	1
42	Pistol Grip	1
43	Tensioner Set Screw	1
44	Buffer Retainer	1
45	Buffer Retainer Spring	1
46	Magazine Catch	1
47	Safety, 45/90, Ambi	1
48	Retaining Screw	2
49	Bolt Catch	1
50	Lower Receiver	1
51	Pivot Pin	1
52	Bolt Catch Plunger	1
53	Bolt Catch Spring	1
54	Bolt Catch Pin	1
55	Bolt Catch Release	1
56	Trigger/Hammer Pin	2
57	Magazine Catch Button	1
58	Magazine Catch Spring	1
59	Takedown Pin	1
60	Trigger Assembly	1
61	Safety Detent Spring	1
62	Safety Detent	1



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