



BLACK BRIAR

Owner's Manual

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IMPORTANT!

BBR15 & BBR10 Rifles and Pistols

ATTENTION!

As a proud owner of a Black Briar firearm it is highly recommended that you review this manual prior to handling and use. It is for your safety and the safety of others that the owner complies with all information contained in this manual.

Any questions or concerns please contact:

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Safety Information

WARNING!

Failure to adhere to the following basic firearm safety rules could result in accidental injury/death to you or others in the vicinity.

Prior to handling of the firearm, observe the following firearm safety rules.

- 1. Always treat all Firearms as if they are loaded.**
- 2. Always keep finger off the trigger until ready to shoot.**
- 3. Never point the Firearm at anything you are not willing to destroy.**
- 4. Always make sure of your target(s) and ensure that your back stop is clear.**

Following these basic safety rules will ensure the safety of you and others when operating your Black Briar Firearm. Always remember that you, the owner, are responsible for the safe operation of your firearm.

Function Check

1. With magazine removed, charge rifle/pistol, make sure chamber is clear and place selector lever to safe position.
2. Pull trigger, the hammer should not release.
3. Place selector lever to fire position, pull the trigger and hold to the rear, the hammer should strike the firing pin.
4. While still holding the trigger to the rear, charge the weapon, release trigger and listen for trigger reset (single click).
5. Place selector lever to safe.

CAUTION!

If any failure during the function check, the rifle/pistol must be taken out of service until repairs can be performed. Any repairs should be performed by Black Briar Incorporated, an authorized repair center or a certified Gunsmith.

General Firearms Handling

1. Always exercise good muzzle discipline (up, down or down range).
2. Assume all firearms are loaded and check the chamber for live rounds.
3. **Clear and Safe** - Check chamber by removing magazine (if applicable), charge the rifle/pistol, engage bolt catch, place selector lever on safe and visually inspect the chamber for ammunition.
 - a. If using a Chamber Flag, install the flag in empty chamber and release bolt.
4. **Loading your Black Briar firearm** - Lock the bolt to the rear with bolt catch, load the magazine with ammunition, insert loaded magazine into magazine well until it engages the magazine catch. With muzzle aimed down range, press the bolt release to feed the first cartridge of ammunition.
5. Allow the firearm to feed ammunition from the magazine or from single-round mag block.
 - a. If using a single-round mag block, lay the cartridge on the block and release the bolt while aiming the muzzle down range.

CAUTION!

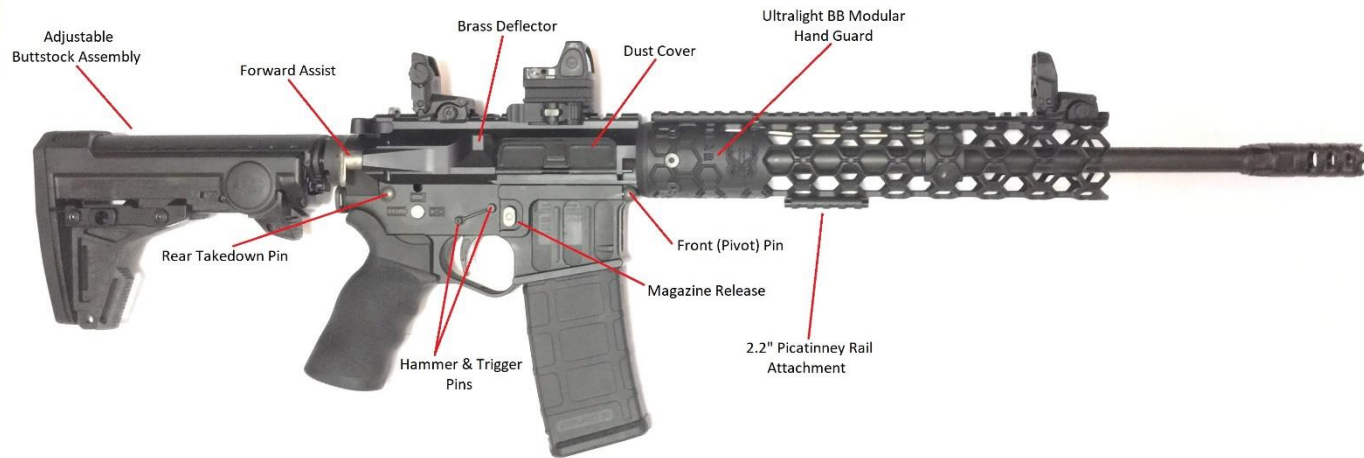
Never hand feed ammunition into the chamber and release the bolt while the muzzle is aiming at the ground. Accidental discharge may occur from slam fire which could result in injury to the shooter.

External Component Identification – Left Side

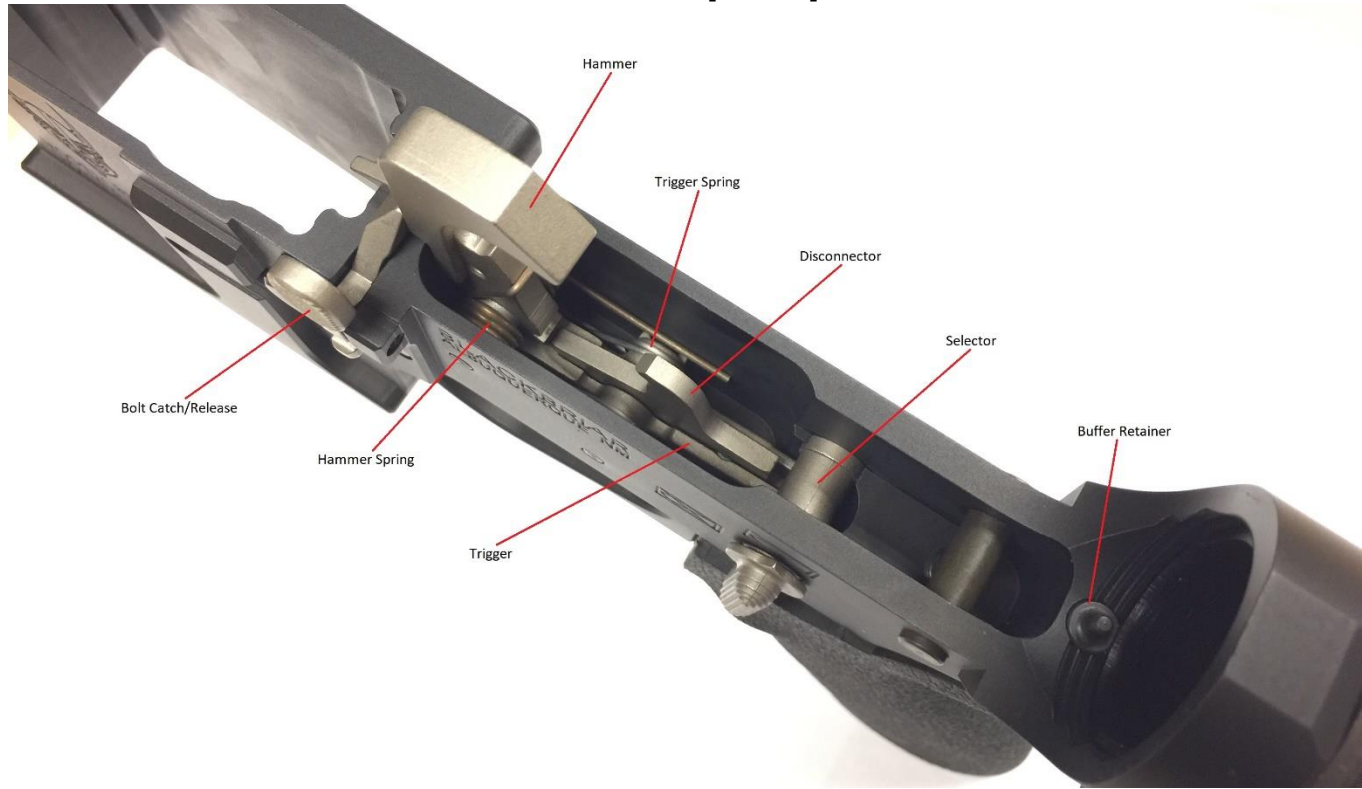


Note: Pistol Configurations will have a different Hand Guard, Shorter Barrel, and the Buttstock Assembly will be replaced by a Pistol Receiver Extension or Brace. BBR15 Rifle Configuration is shown.

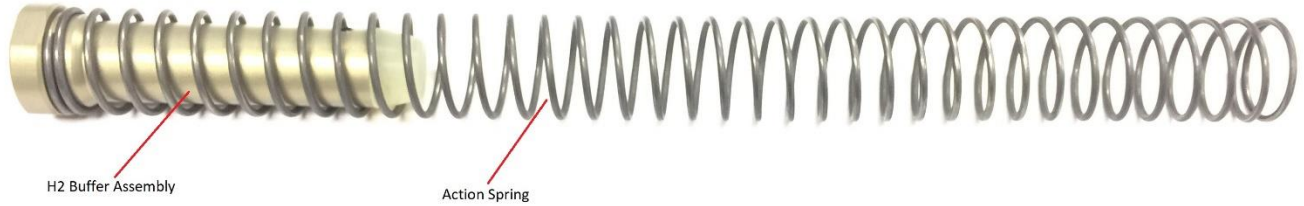
External Component Identification – Right Side



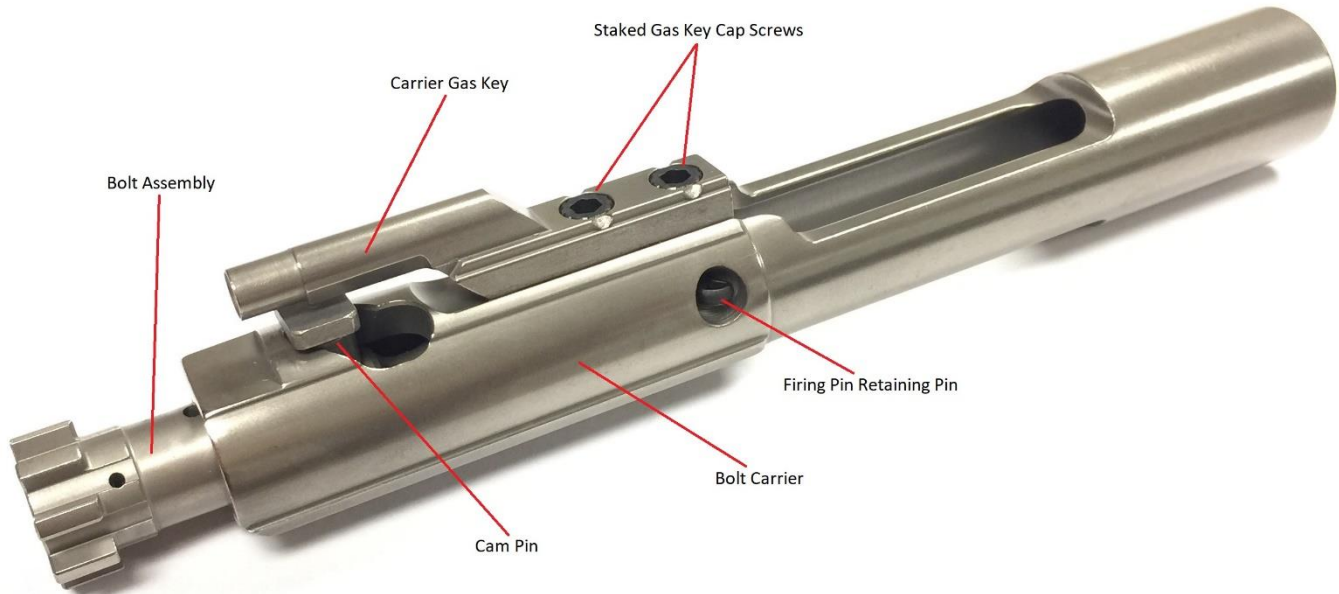
Fire Control Group Components



Buffer System & Bolt Carrier Group



Bolt Carrier Group - Assembled



Bolt Carrier Group - Field Stripped



Cycle of Operation

The Cycle of Operation is an in-depth process of how the BBR15/10 works and should perform. By knowing the cycle, you will be able to diagnose a problem with your firearm if one should occur.

1. **Feeding** – When the BCG is released, the bolt pushes the cartridge from the top of the magazine and begins to feed the cartridge into the barrel extension.
2. **Chambering** – When feeding is complete, the bolt continues forward as the cartridge is pushed through the barrel extension into the chamber and the bolt lugs are fully inserted into the barrel extension.
3. **Locking** – Locking occurs when the BCG has fully chambered the cartridge, the bolt lugs are fully inserted into the barrel extension, and the extractor snaps over the cartridge rim. The BCG continues forward, which cams the bolt counterclockwise, locking the bolt lugs into the barrel extension.
4. **Firing** – When the Trigger is pulled, the sear nose of the trigger moves down and out of the sear notch and the hammer is released striking the firing pin. The firing pin then strikes the primer on the cartridge which ignites the powder and propels the projectile down the barrel.

Cycle of Operation

5. **Unlocking** – The gases that propel the projectile down the barrel are rerouted back to the BCG via the gas tube. The gas enters the BCG and forces the bolt carrier to the rear which causes the bolt to rotate clockwise and unlocks from the barrel extension.
6. **Extraction** – Once the BCG is unlocked, the BCG travels to the rear and extracts the spent cartridge from the chamber and the barrel extension.
7. **Ejection** – Once the spent cartridge has cleared the ejection port, the ejector in the bolt face pushes the spent cartridge out of the firearm.
8. **Cocking** – As the BCG continues to the full rearward position, compressing the action spring, the BCG pushes the hammer down to engage the sear nose on the trigger.

Once the last cartridge in the magazine has been fired, the magazine will engage the bolt catch which will lock the Bolt Carrier Group to the rear. Simply eject the magazine with the Magazine Release, insert a loaded magazine and press the Bolt Release to start the cycle over again.

NOTE: The Cycle of Operation is not considered a Function Check. It is only a description of how the rifle/pistol should operate after passing the function check.

Routine Maintenance

Field Strip (Should be performed after every use)

- Clear and safe the rifle/pistol and send the bolt forward.
- Slide the rear takedown pin from left to right until it stops. The pin is captured and should not fall out of the lower receiver.
- Pivot the Upper Receiver up from the Lower Receiver. Slide the Front Pivot Pin from left to right until it stops to remove the Upper Receiver Assembly from the Lower Receiver Assembly.
- Remove Bolt Carrier Group (BCG) and Charging Handle from the Upper Receiver by pulling the Charging Handle slowly to the rear until you can remove the BCG. Once the BCG is removed, the Charging Handle can be removed through the key way in the Upper Receiver. Place BCG and Charging Handle to the side.
- Remove Buffer and Action Spring by depressing the Buffer Retaining Pin. Clean and coat with a film of oil and reinstall.
- Bolt Carrier Group Disassembly
 - Remove Firing Pin Retaining Pin from Bolt Carrier
 - Remove Firing Pin (should fall freely out the back of the Bolt Carrier)
 - Rotate Cam Pin ¼ turn

- Collapse Bolt into the Bolt Carrier Assembly
- Remove Cam Pin
- Remove Bolt Assembly from Bolt Carrier Assembly
- Remove Extractor Retaining Pin from Bolt Assembly
- Remove Extractor
- Remove Ejector (Tools Required)
- Bolt Carrier Group Reassembly
 - Install Extractor and Ejector (If applicable)
 - Install Bolt Assembly into Bolt Carrier Assembly
 - Rotate Bolt Assembly until Ejector is at the 4 o'clock position and the Extractor is at the 10 o'clock position.
 - Install the Cam Pin (it will only go in one way)
 - Rotate Cam Pin $\frac{1}{4}$ turn
 - Extend Bolt Assembly out from Bolt Carrier Assembly
 - Install Firing pin through the back of the Bolt Carrier Assembly and make sure it is all the way forward.
 - Install Firing Pin Retaining Pin in the Bolt Carrier Assembly and check that firing pin is secure.
 - Lightly lube the BCG with oil and wipe off excess with shop rag before reinstalling. Nickel Boron has a natural lubricity so minimal oil is required. Too much oil will have adverse effects.

Barrel & Barrel Extension Cleaning (Should be performed after every use)

- Clean the Barrel Extension and Chamber with a Chamber Brush and remove residue with Chamber Mop (Available at most gun shops or Brownells.com).
- Use one of the following methods to clean and inspect the barrel bore for fouling and debris.
 - Cleaning Rod Method – Run 3 cleaning patches, with bore cleaner solvent, from chamber to muzzle through the bore. Use 1 dry cleaning patch to remove excess solvent and residue. Repeat as necessary.
 - Bore Snake – You will need 2 of them for this process. Apply bore cleaner to one of the Bore Snakes and pull it through the bore from Chamber to Muzzle 3 times. Take the dry Bore Snake and pull it through the bore to remove excess solvent and residue. Repeat as necessary.

Fire Control Group (FCG) Inspection & Lube

- Visually inspect the Trigger pocket for debris such as dirt, powder, broken spring legs or spent primers. Remove debris and replace components as necessary.
- Apply one drop of oil to each of the visible spring coils and wipe away the excess oil as necessary.
- Always perform a Function Check after any FCG Maintenance.

Reassembly

- Insert the Charging Handle into the Upper Receiver key way but do not push all the way in.
- Bolt extended forward, Insert BCG Carrier Gas Key into the channel on the Charging Handle and then insert both the BCG and Charging Handle full forward in the Upper Receiver. The Charging Handle will latch onto the Upper Receiver, when full forward.
- Line up the holes on the Front of both the Upper and Lower Receivers and secure them together with the Front Pivot Pin.
- Join the Upper Receiver and Lower Receiver Assemblies together and secure with the Rear Takedown Pin.
- Perform Function Check.



Limited Lifetime Warranty

Black Briar Inc Limited Lifetime Warranty applies to the original owner and is non-transferable.

Black Briar Inc. guarantees this product is free from any defects in material and any related workmanship of the rifle and will repair or replace any defective parts of the firearm. All Nickel Boron (NiB-X) parts are guaranteed against chipping and flaking of the Nickel Boron coating for the life of the component(s). In the event of such failure, components will be replaced with equal or suitable substitute.

Black Briar Inc. will not be responsible for defects or damages as result of improper handling, unauthorized adjustments/modifications, neglect, abuse, corrosion, hand-load/faulty ammunition or failure to provide the firearm with proper care and maintenance as described in this manual.

This warranty does not apply to normal wear and tear of barrels, muzzle devices, magazines, gas rings, sights, gas tube, springs, polymers and other related furniture items that do not directly affect the cycle of operation described in this manual.

