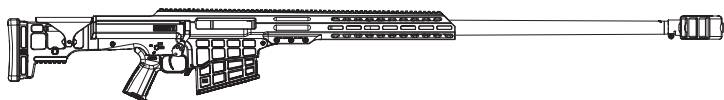


MRAD ELR



MRAD^{ELR}™

MULTI-ROLE ADAPTIVE DESIGN -
EXTREME LONG RANGE

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/ WARRANTY AND SERVICE

For one year from date of purchase, or per contract requirements, 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, the use of ammunition not 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.
P.O. Box 1077
Murfreesboro, TN 37133-1077
615-896-2938

NOTE: THIS RIFLE IS DESIGNED AND INTENDED FOR PERSONAL USE ONLY. DO NOT USE THIS RIFLE FOR COMMERCIAL PURPOSES OR AS A RANGE RENTAL.

USE OF THIS MANUAL

Read this manual before you use or handle your Barrett product. It is important that you understand the principles of safe gun handling 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 SAFETY ON

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

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 rely on the extractor to provide an empty chamber.

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. If a hang-fire (slow ignition) has occurred, the round should discharge 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 9 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

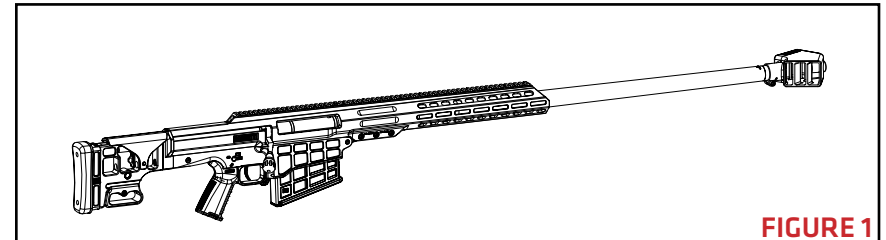
Discharging firearms in poorly ventilated areas, cleaning firearms, or handling ammunition may result in exposure to lead and other substances. Maintain adequate ventilation at all times. Thoroughly wash hands after exposure.

⚠ WARNING

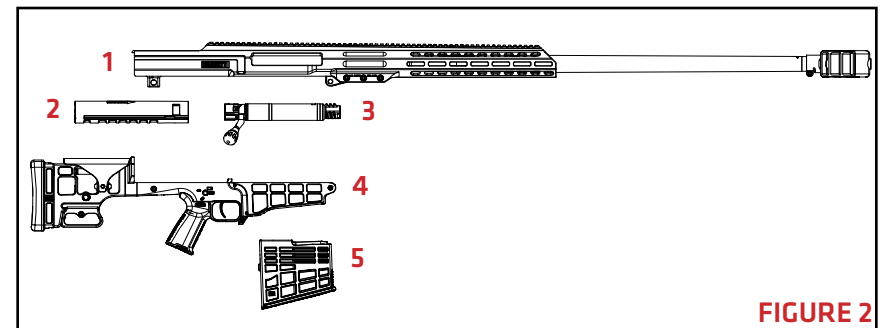
THIS PRODUCT CAN EXPOSE YOU TO CHEMICALS, INCLUDING LEAD, WHICH IS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. FOR MORE INFORMATION GO TO www.P65Warnings.ca.gov.

DESCRIPTION OF FIREARM - FIGURE 1

The MRADEL R is a manually operated bolt-action rifle fed from a detachable magazine. Designed to be a rugged, configurable, precision rifle system. MRADEL R can quickly be converted to multiple calibers or barrel lengths.

**FIGURE 1****MAJOR COMPONENTS - FIGURE 2**

1. Upper Receiver Assembly
2. Bolt Guide
3. Bolt Assembly
4. Lower Receiver Assembly
5. Magazine

**FIGURE 2**

RIFLE ADJUSTMENTS

CHEEK PIECE ADJUSTMENTS

To adjust the height of the cheek piece, first loosen the cheek piece lock knob. Pull the cheek piece lock knob away from the stock while rotating counter clockwise to loosen. Once you set the cheek piece to the desired height, tighten the cheek piece lock knob clockwise (FIGURE 3).

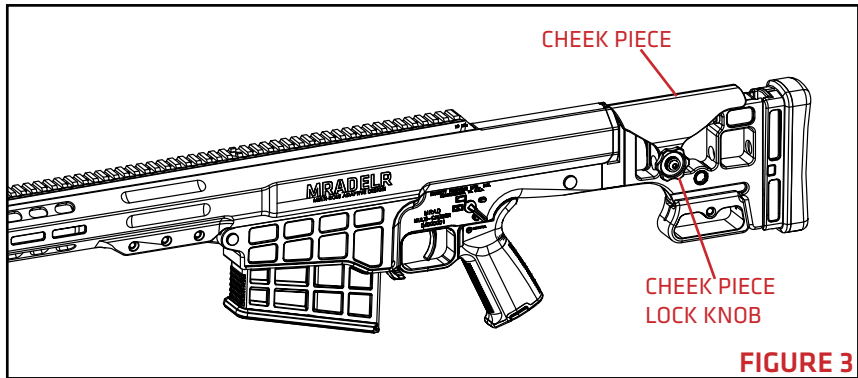


FIGURE 3

LENGTH OF PULL (LOP) AND VERTICAL ADJUSTMENTS

To adjust the length of pull, depress the length of pull adjustment latch and extend the recoil pad. In addition to being adjustable for length of pull, the recoil pad is able to be adjusted vertically for operator preference and comfort.

To adjust the recoil pad vertically, depress the length of pull height adjustment and slide the recoil pad assembly up or down (FIGURE 4).

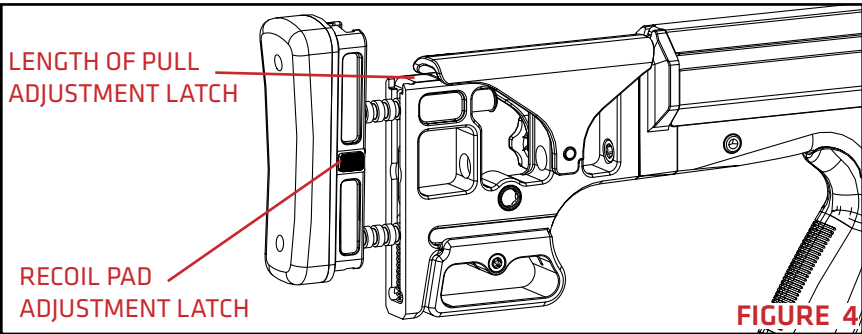


FIGURE 4

LENGTH OF PULL SPACERS - (FIGURE 5)

Spacer kits are available for purchase at **barrett.net** to allow the operator to further increase the length of pull of the rifle.

1. Remove the recoil pad by removing the two recoil pad screws using a T27 Torx bit.
2. Add the desired amount of spacers between the recoil pad and base plate.

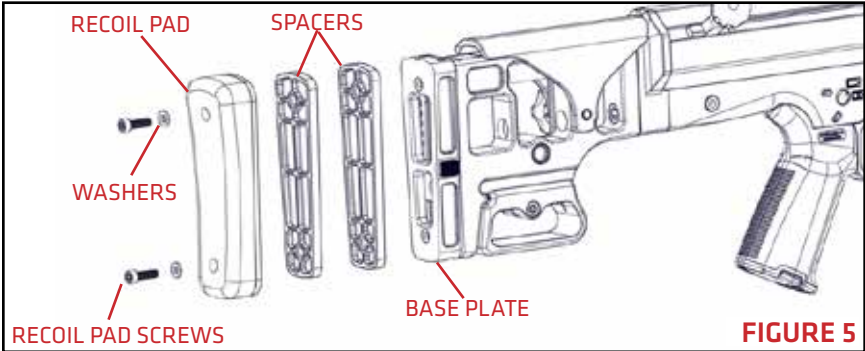


FIGURE 5

3. Using the T27 Torx bit and medium strength thread locker, secure the recoil pad and spacers to the base plate using supplied recoil pad screws and washers. The recoil pad screws should be torqued to 35 IN/LBS. The length of screw needed depends on the number of spacers used; see table (FIGURE 6):

SPACERS EQUIPPED	SCREW LENGTH NEEDED	
0	0.625"	
1	1"	
2	1.25"	
3	1.5"	
4	1.75"	

FIGURE 6

NOTE: USING THE INCORRECT LENGTH RECOIL PAD SCREWS WITH SPACERS WILL CAUSE INTERFERENCE WITH THE VERTICAL ADJUSTMENTS OF THE STOCK.

BAG RIDER/RAIL COVER INSTALLATION AND REMOVAL

1. Loosen the retaining screw on the rail cover with a T30 Torx Plus bit.
2. Slide the bag rider onto the folding stock rail (**FIGURE 7**).
3. Tighten the retaining screw to 90 IN/LBS using a T30 Torx Plus bit (**FIGURE 8**).

⚠ CAUTION

TIGHTENING THE RETAINING SCREW MORE THAN 90 IN/LBS COULD RESULT IN DAMAGE TO THE FOLDING STOCK OR RAIL COVER. DO NOT OVER-TIGHTEN.

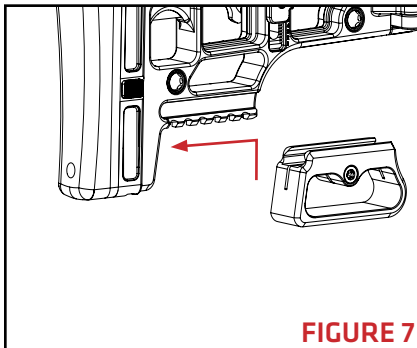


FIGURE 7

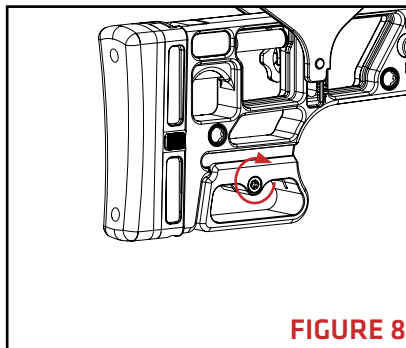




FIGURE 8

SAFETY

The safety is located above the grip on the side of the lower receiver. Near the safety there will be engravings indicating the  (fire) and  (safe) positions (**FIGURE 9**).

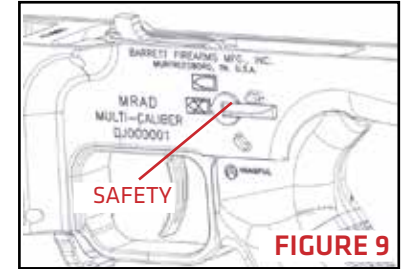



FIGURE 9

LOADING & FIRING

1. Rotate the safety to the  (safe) position. The safety on this rifle is designed so that the safety will not rotate into the safe position unless the rifle is cocked.
2. With the rifle pointed in a safe direction, lift the bolt handle (**FIGURE 10-A**) then pull it to the rear of the rifle (**FIGURE 10-B**).
3. Load cartridges into the magazine by placing the base of the cartridge on the front half of the magazine, pushing downward and sliding the cartridge to the rear of the magazine (**FIGURE 11**).

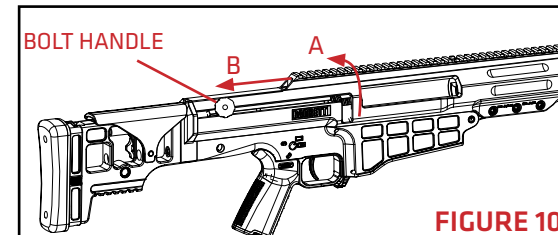


FIGURE 10

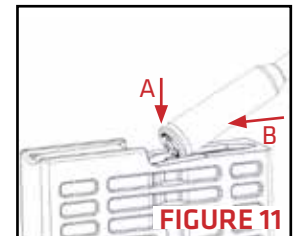


FIGURE 11

4. Insert the loaded magazine into the rifle (**FIGURE 12**).

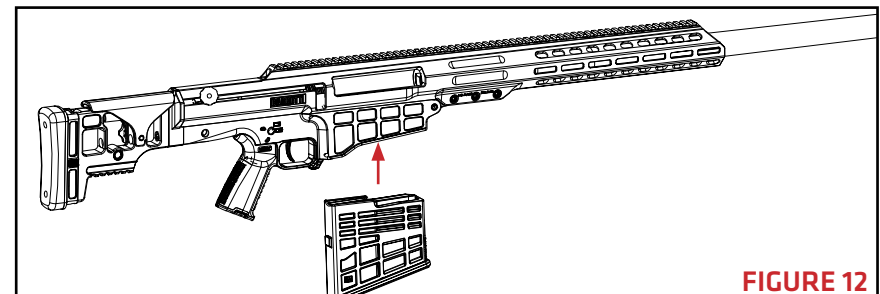


FIGURE 12

5. Push the bolt handle forward (**FIGURE 13-A**) to feed a cartridge from the magazine into the chamber. Then rotate the bolt handle down to close the bolt (**FIGURE 13-B**).

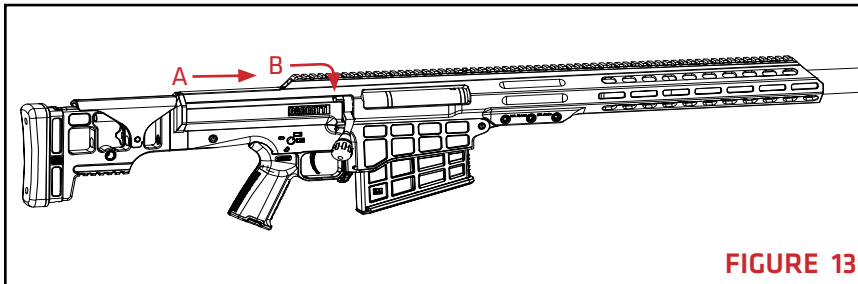



FIGURE 13


⚠ WARNING

DO NOT ATTEMPT TO FORCE A CARTRIDGE INTO THE CHAMBER BY FORCING THE BOLT CLOSED. FORCING THE BOLT CLOSED MAY CAUSE A NEGLIGENT DISCHARGE AND MAY RESULT IN INJURY OR DEATH. IF THE BOLT WILL NOT CLOSE EASILY, REMOVE THE CARTRIDGE AND EXAMINE IT FOR DAMAGE OR DEFECT. CHECK THE CHAMBER FOR OBSTRUCTIONS.

6. When ready to fire, rotate the safety to the  (fire) position. The rifle is now able to fire.

⚠ WARNING

THE SHOOTER MUST BE POSITIONED DIRECTLY BEHIND THE RIFLE WITH THE RECOIL PAD HELD FIRMLY AGAINST THE SHOOTER'S SHOULDER. FIRING THE RIFLE IN ANY OTHER POSITION COULD RESULT IN INJURY BY CONTACT WITH THE RIFLE OR RIFLE SCOPE.

7. Pulling the trigger will result in the rifle firing once.
8. You may repeat operations until ammunition from the magazine is empty or rotate the safety to the  (safe) position until ready to fire again.

NOTE: THE RIFLE MAY BE FIRED WITH OR WITHOUT A MAGAZINE. A SINGLE CARTRIDGE MAY BE LOADED DIRECTLY INTO THE CHAMBER FROM THE EJECTION PORT.

UNLOADING THE RIFLE

1. Place the rifle on safe. Remove the magazine from the rifle by pressing the magazine release lever forward (**FIGURE 14**).

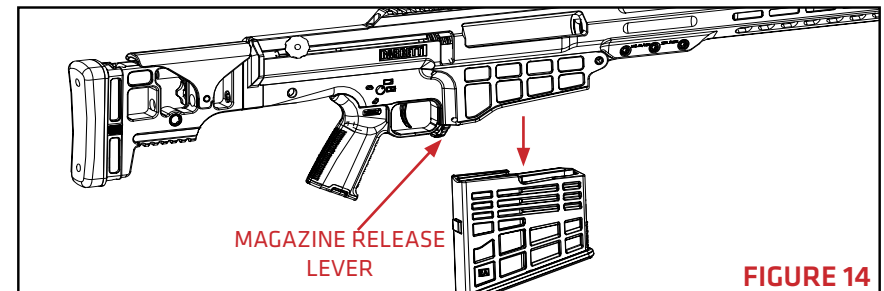


FIGURE 14

2. Lift the bolt handle upward (**FIGURE 15-A**), and pull it to the rear (**FIGURE 15-B**). This will eject any ammunition or fired cartridge case.

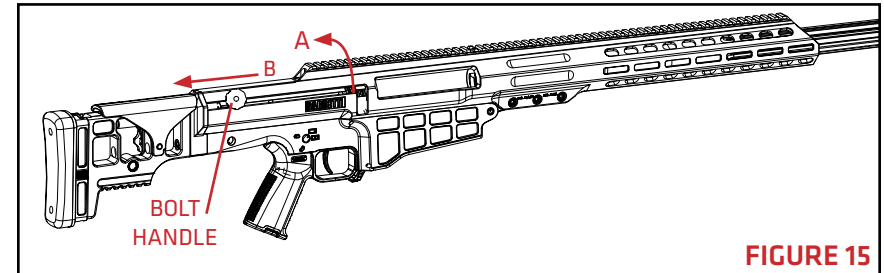


FIGURE 15

3. With the bolt fully to the rear and magazine removed, inspect the chamber ensuring that the rifle is not loaded (**FIGURE 16**).

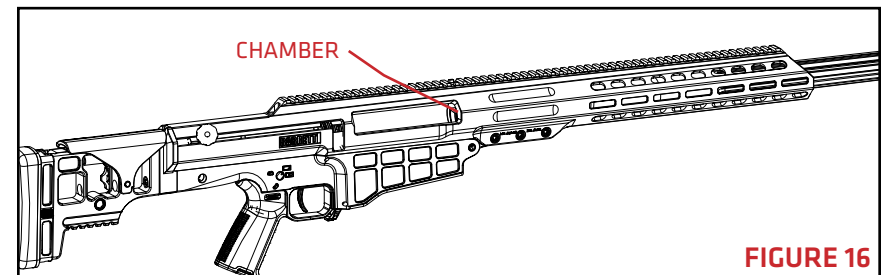


FIGURE 16

⚠ WARNING

REMOVING THE MAGAZINE DOES NOT UNLOAD THE RIFLE! FAILURE TO ENSURE THAT THE RIFLE IS UNLOADED MAY CAUSE INJURY OR DEATH. ALWAYS REMOVE THE MAGAZINE AND CHECK THE CHAMBER TO ENSURE THAT THE RIFLE IS UNLOADED. DO NOT STORE OR TRANSPORT A LOADED RIFLE.

FIELDSTRIP, DISASSEMBLY, AND ASSEMBLY

NOTE: MAJOR COMPONENTS ARE ASSEMBLED IN REVERSE ORDER OF DISASSEMBLY.

⚠ WARNING

UNLOAD THE RIFLE BEFORE DISASSEMBLY. FAILURE TO ENSURE THE RIFLE IS UNLOADED MAY CAUSE INJURY OR DEATH. ENSURE THAT LIVE AMMUNITION IS NOT PRESENT DURING DISASSEMBLY OR ASSEMBLY.

FIELDSTRIP

The rifle can be fieldstripped without the use of tools into the five major components (**FIGURE 2**).

DETACHING THE LOWER AND UPPER RECEIVERS

1. Remove the magazine (**FIGURE 14**) and ensure the rifle is unloaded.
2. Locate the takedown pin of the lower receiver just behind the pistol grip (**FIGURE 17**). Push the takedown pin from the ejection port side of the rifle.

NOTE: DO NOT ATTEMPT TO REMOVE THE TAKEDOWN PIN FROM THE LOWER RECEIVER. THE TAKEDOWN PIN IS CAPTURED BY THE LOWER RECEIVER.

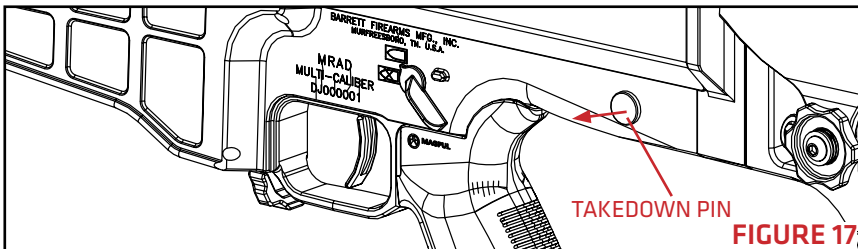


FIGURE 17

3. Pivot the upper receiver from the lower receiver (**FIGURE 18**). The takedown pin will not move unless the bolt handle is fully lifted.

4. Withdraw the bolt assembly and bolt guide from the rear of the upper receiver. Take note of the orientation of the bolt guide while removing. There is an arrow on the bolt guide noting the correct direction of installation (**FIGURE 18**).

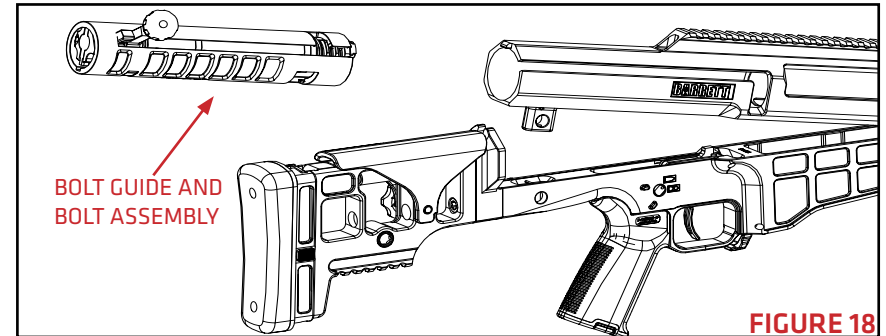


FIGURE 18

5. Push the pivot pin from the ejection port side of the rifle to separate the upper and lower receivers (**FIGURE 19**).

NOTE: DO NOT ATTEMPT TO REMOVE THE PIVOT PIN FROM THE LOWER RECEIVER. THE PIVOT PIN IS CAPTURED BY THE LOWER RECEIVER.

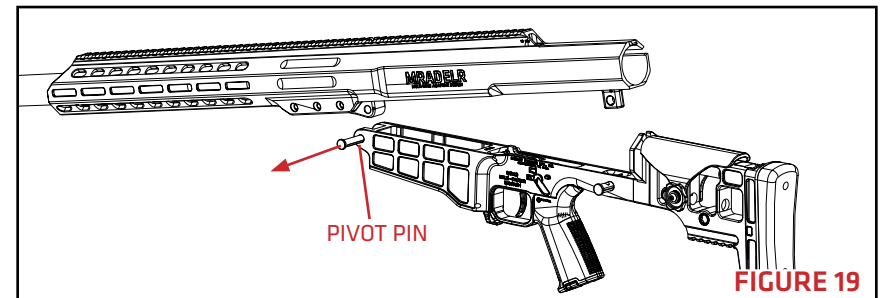


FIGURE 19

DISASSEMBLY OF THE BOLT ASSEMBLY

1. Remove the bolt assembly from the bolt guide (**FIGURE 20**).

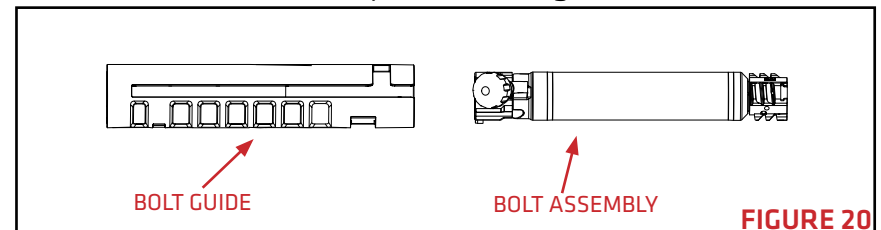


FIGURE 20

NOTE: DURING THIS PROCEDURE, DO NOT ROTATE THE COCKING PIECE SHROUD AS THIS WILL DECOCK THE MECHANISM (FIGURE 21).

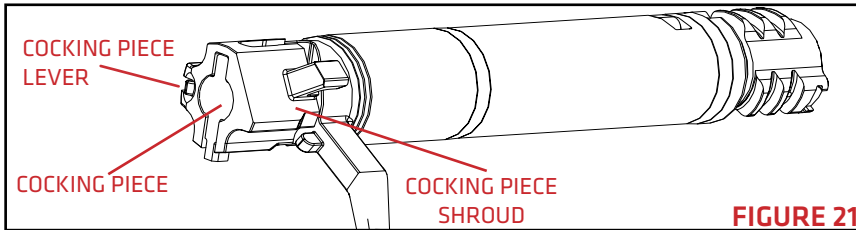


FIGURE 21

2. Rotate the bolt lock to the open position (FIGURE 22-A). Remove the bolt from the bolt body (FIGURE 22-B). Note that the bolt lock is retained in the bolt body and does not need to be removed.

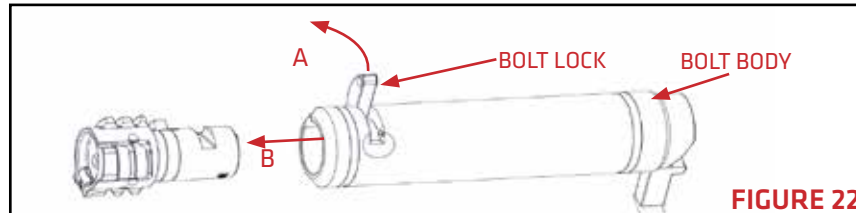


FIGURE 22

3. Rotate the cocking piece lever forward until the lever is locked in place. (FIGURE 23).

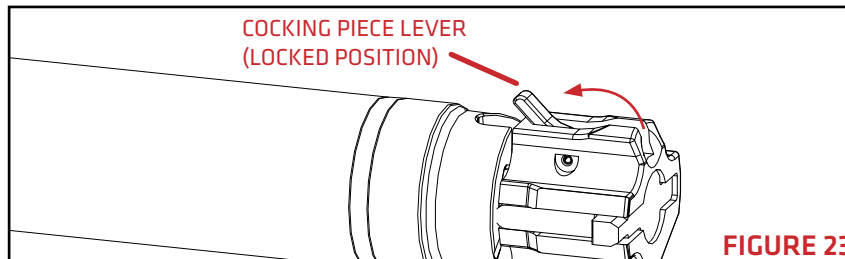


FIGURE 23

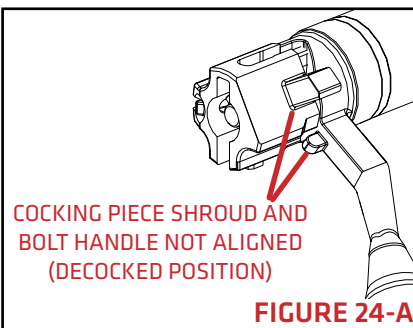


FIGURE 24-A

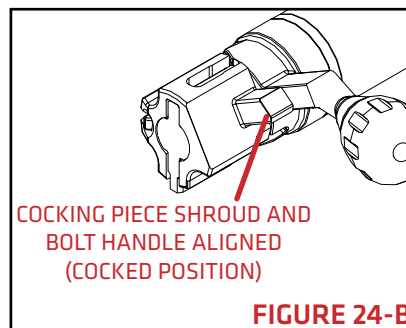


FIGURE 24-B

4. Rotate the firing pin assembly counter clockwise 120 degrees (FIGURE 25-A) and withdraw from the bolt body (FIGURE 25-B).

NOTE: DO NOT UNLOCK THE COCKING PIECE LEVER WITH THE FIRING PIN ASSEMBLY REMOVED FROM THE BOLT BODY.

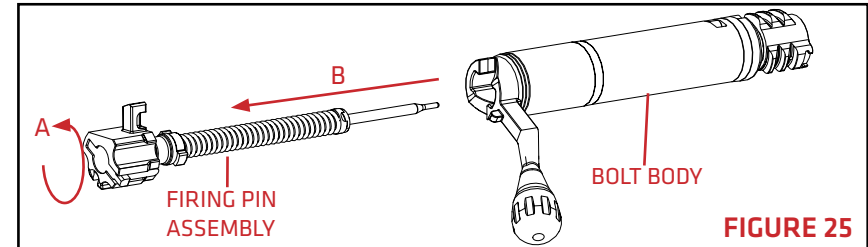


FIGURE 25

NOTE: IF THE COCKING PIECE LEVER BECOMES DECOCKED WHILE REMOVED FROM THE BOLT BODY, INSERT THE FIRING PIN ASSEMBLY BACK INTO THE BOLT BODY. MANUALLY COMPRESS THE FIRING PIN SPRING AND ROTATE THE COCKING PIECE SHROUD BACK INTO THE ASSEMBLED/COCKED POSITION (FIGURE 24).

REMOVING THE EXTRACTOR SPRING AND EXTRACTOR

1. With the bolt removed from the bolt body, rotate the extractor spring out of the recessed groove (FIGURE 26-A) and remove the extractor spring (FIGURE 26-B).
2. Slide the extractor out of the bolt (FIGURE 26-C).

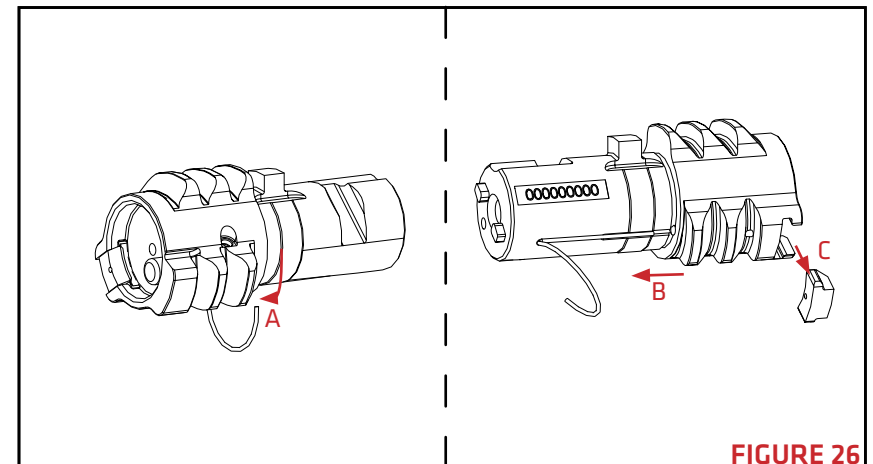
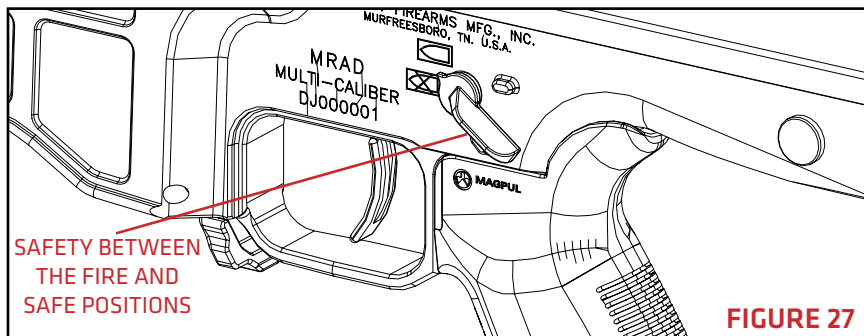


FIGURE 26

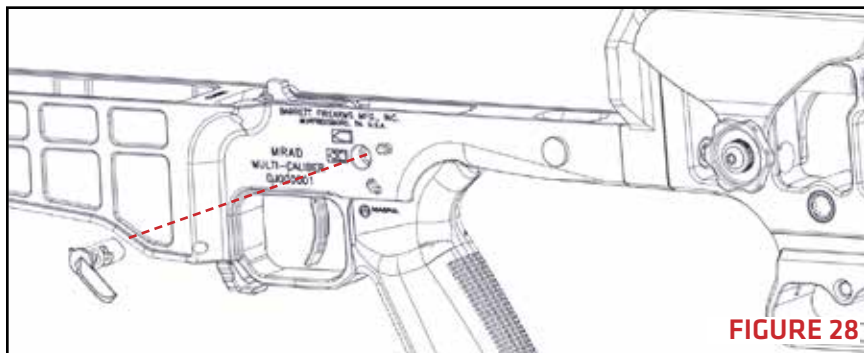
REMOVAL OF THE TRIGGER ASSEMBLY

1. Rotate the safety half way between the fire and safe positions on the receiver (**FIGURE 27**).

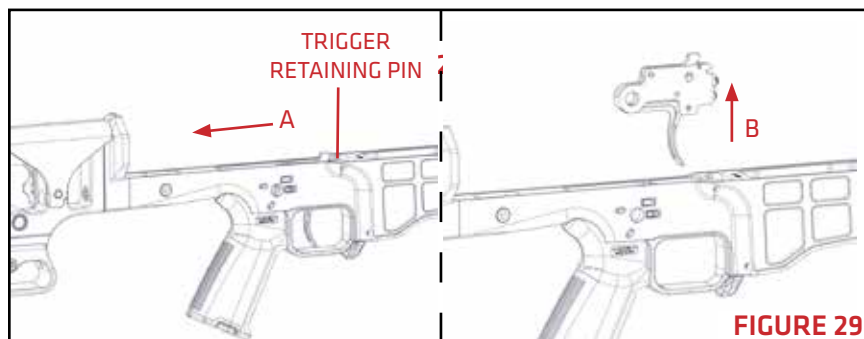


NOTE: THE REVERSIBLE SAFETY CAN BE INSERTED FROM EITHER SIDE TO ACCOMMODATE FOR PERSONAL PREFERENCE.

2. Apply pressure from the opposite side of the safety. Push the safety while slightly rotating and remove it from the receiver (**FIGURE 28**).



3. Slide the trigger rearward to disengage the trigger retaining pin (**FIGURE 29-A**), then lift the trigger out of the receiver (**FIGURE 29-B**).



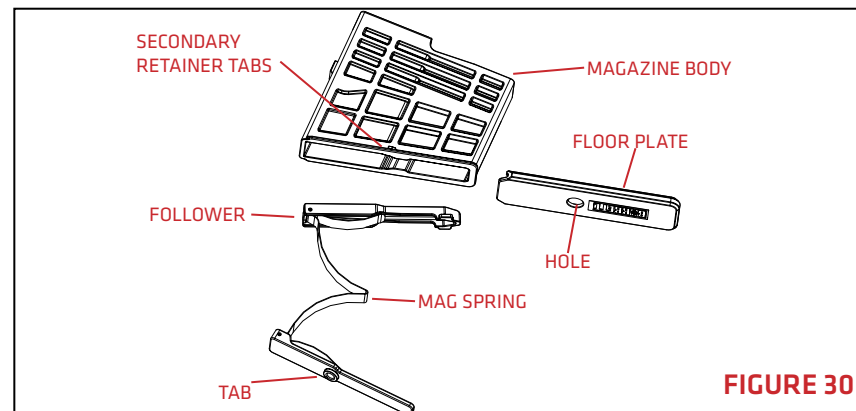
DISASSEMBLY OF THE MAGAZINE - **FIGURE 30**

1. Locate the hole on the bottom of the magazine.
2. Press and hold the tab through the hole in the floor plate.
3. Firmly press the sides of magazine body with thumb and finger near secondary retainer tabs and slide the floor plate forward and remove it from the magazine body.

⚠ WARNING

THE MAGAZINE SPRING IS UNDER TENSION. WHEN ASSEMBLING AND DISASSEMBLING, BE SURE TO MAINTAIN CONTROL OF THE FLOOR PLATE RETAINER. FAILURE TO DO SO MAY RESULT IN INJURY.

4. After removing the floor plate, slowly release the magazine spring tension to remove the follower assembly.



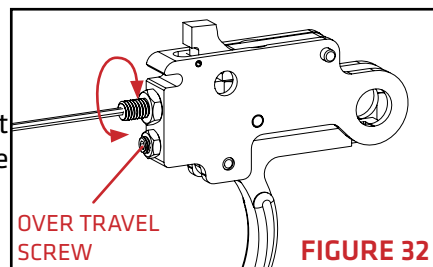
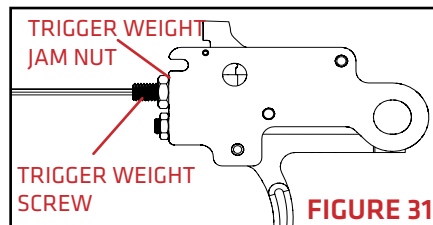
TRIGGER ADJUSTMENTS

The MRADEL R is equipped with a single stage trigger set from the factory to a trigger weight of 3 lbs. The trigger does not require adjustments, however, if you wish to increase the trigger pull weight follow the instructions below.

Fieldstrip the rifle and remove the trigger from the lower receiver. Once adjustments are complete, perform a function check.

ADJUSTING THE TRIGGER PULL WEIGHT

1. Loosen the 5/16" trigger weight jam nut on the trigger weight screw (**FIGURE 31**).
2. Using a 1/16" hex wrench turn the trigger weight screw clockwise to increase trigger pull weight (**FIGURE 32**). The minimum setting on the trigger should not go below 2 lbs.
3. Hold the hex wrench and do not allow the screw to move while tightening the 5/16" jam nut.



NOTE: THE TRIGGER OVER TRAVEL IS SET TO MINIMUM FROM THE FACTORY. ADJUSTMENTS ARE NOT NECESSARY. THE TRIGGER MAY NOT FUNCTION IF THE OVER TRAVEL SCREW IS ADJUSTED.

⚠ WARNING

DO NOT ADJUST THE TRIGGER WEIGHT BELOW 2 LBS. ADJUSTING THE TRIGGER WEIGHT BELOW 2 LBS MAY CAUSE A NEGLIGENT DISCHARGE AND POSSIBLY RESULT IN DAMAGE TO PROPERTY, SERIOUS INJURY, AND/OR DEATH.

NOTE: THE FACTORY TRIGGER PULL WEIGHT SETTING IS 3 POUNDS. DO NOT SET BELOW 2 LBS.

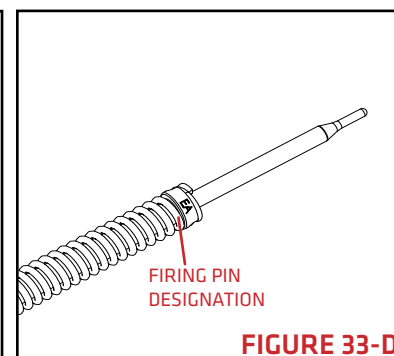
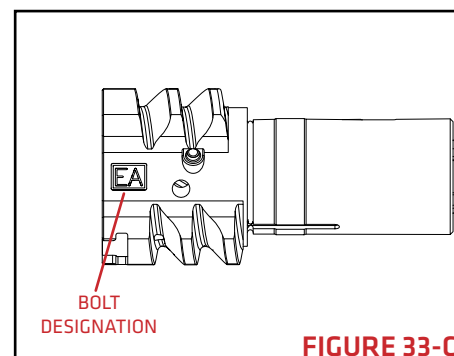
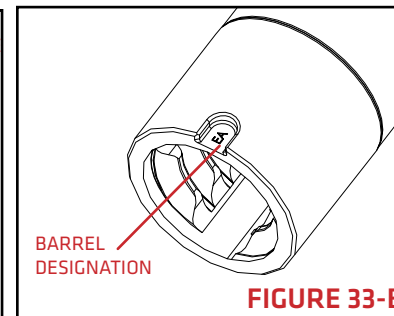
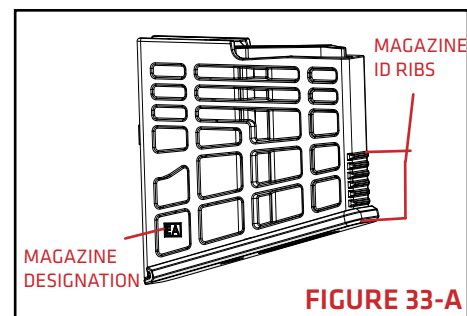
BARREL MAKER KITS

Barrel Maker Kits are offered for MRADEL R at **barrett.net**. Magazines (**FIGURE 33-A**), barrel extensions (**FIGURE 33-B**), bolts (**FIGURE 33-C**), and firing pins (**FIGURE 33-D**), are designated by letter markings "EA" and "EB". Magazines also have a different number of ribs for easy identification in low light conditions (**FIGURE 33-A**). Ensure the calibers/letters on these components match the table below:

CALIBER	MAGAZINE DESIGNATION	BARREL/BOLT DESIGNATION	FIRING PIN	MAGAZINE ID RIBS
416 BARRETT	EA	EA	EA	6
.375 ENABELR	EB	EB	EB	5

⚠ WARNING

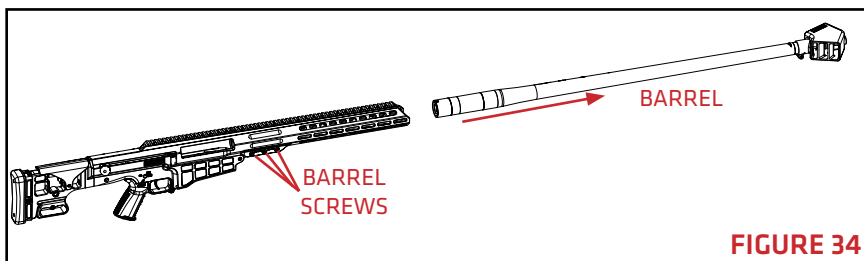
DO NOT INTERCHANGE BOLTS BETWEEN MRADEL R BARRELS. INTERCHANGING BOLTS AND BARRELS MAY CAUSE INJURY OR DEATH. MRADEL R BARRELS ARE PROPERLY HEADSPACED WITH THEIR CORRESPONDING BOLT AT THE FACTORY.



CHANGING BARRELS

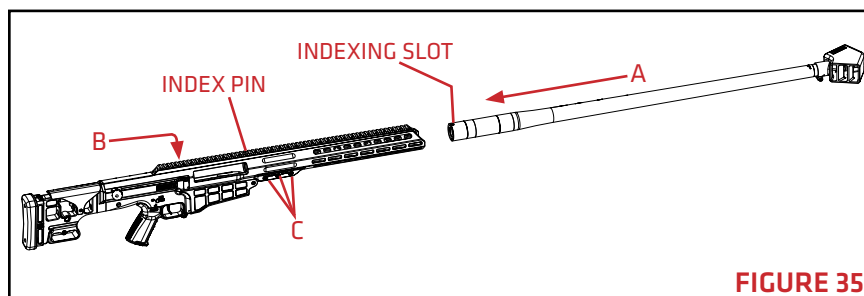
REMOVING THE BARREL

1. Place the rifle on safe, raise the bolt handle and pull to the rear and remove the magazine. Ensure the rifle is unloaded.
2. Loosen, but do not remove the three barrel screws using an IP-30 Torx Plus® wrench (**FIGURE 34**).
3. Remove barrel from the receiver (**FIGURE 34**).



INSTALLING THE BARREL

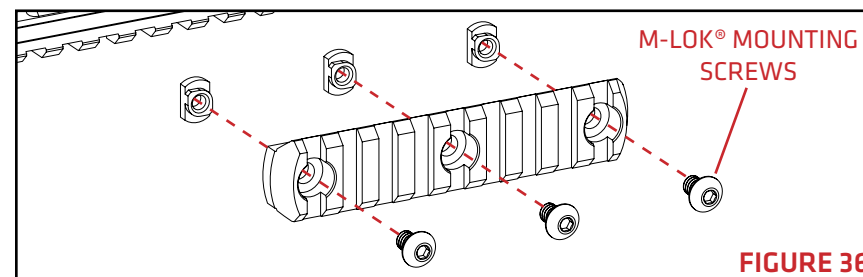
1. Insert the barrel into the upper receiver with indexing slot oriented in the 12 o'clock position (**FIGURE 35-A**). Ensure the indexing slot engages the index pin located inside the upper receiver.
2. When the barrel is fully seated, close the bolt (**FIGURE 35-B**).
3. Torque the three barrel screws to 140 IN/LBS or 15.8 N-m. Fully torque the barrel screws in the following order: rear barrel screw, middle barrel screw, then front barrel screw. Repeat this sequence three times (**FIGURE 35-C**).
4. Cycle the bolt to ensure function and proper assembly.



5. Once the bolt and barrel have been changed, verify that the corresponding magazine for the barrel installed is selected.

M-LOK® ATTACHMENTS

The MRADEL R upper receiver offers M-LOK® mounting slots at the 3, 6, and 9 o'clock positions. M-LOK® accessories may interfere with the MRADEL R barrel removal due to longer mounting screws (**FIGURE 36**). M-LOK® rails and accessories provided by BFMI have been provided with #10-24 x 0.3125" mounting screws instead of the standard #10-24 x 0.4375" screws to ensure they do not interfere with barrel removal.



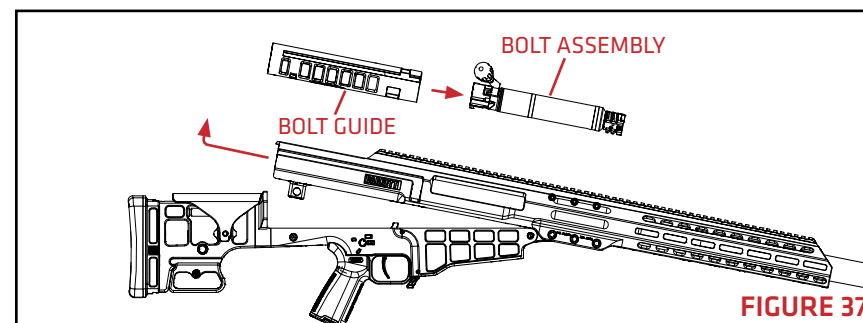
MAINTENANCE GUIDE

⚠ WARNING

THE RIFLE MUST BE UNLOADED AND ALL AMMUNITION REMOVED FROM AREA BEFORE CLEANING. FAILURE TO ENSURE THE RIFLE IS UNLOADED MAY CAUSE INJURY OR DEATH.

CLEANING AND LUBRICATING PROCEDURE

1. The rifle should be cleaned and lightly lubricated after each shooting session. Regular cleaning and lubrication prevents the corrosive effects of moisture.
2. After use, wipe all surfaces of the muzzle brake with a rifle bore cleaner and a rag. Remove any carbon build-up from the internal port areas with a brush or rag.
3. Remove the bolt assembly and bolt guide (**FIGURE 37**).



4. Perform the following tasks to clean the bore:

CAUTION

BARRETT RECOMMENDS AN ACCELERATED CLEANING SCHEDULE. CLEANING SCHEDULES CAN VARY BASED ON THE AMMUNITION COMPONENTS USED. FOR BEST RESULTS, REFERENCE THE RECOMMENDED CLEANING SCHEDULE PROVIDED BY THE AMMUNITION AND/OR PROJECTILE MANUFACTURER.

NOTE: BARRETT RECOMMENDS CLEANING THE BORE WITH THE BARREL INSTALLED IN THE UPPER RECEIVER WITH THE USE OF A BORE GUIDE. IF NO BORE GUIDE IS AVAILABLE, THE BARREL MAY BE CLEANED BY REMOVING THE BARREL FROM THE UPPER RECEIVER AND PLACING THE BARREL INTO A BARREL VISE.

- Using a one-piece cleaning rod and a caliber specific **NYLON** brush, saturate the **NYLON** brush with Patch-Out™. Insert the cleaning rod into the breech end of the bore. Push and pull the brush in each direction a minimum of 10 times.

CAUTION

DO NOT INSERT CLEANING RODS THROUGH THE MUZZLE WHILE CLEANING. INSERTING CLEANING RODS THROUGH THE MUZZLE END MAY DAMAGE THE BARREL CROWN AND MAY SEVERLEY DEGRADE THE PRECISION OF THE RIFLE.

- Saturate the brush with Wipe-Out™ Accelerator and re-insert the cleaning rod into the breech end of the bore. Push and pull the brush in each direction a minimum of 10 times.
- Allow the Patch-Out™ to soak for at least 20 minutes to loosen and dissolve fouling.
- Replace the nylon brush with a caliber specific spearpoint jag on the cleaning rod.
- Using a patch that is saturated with Patch-Out™, insert the cleaning rod from the breech end and push the patch through the muzzle. Repeat this step with a total of 3 patches, wiping the cleaning rod between each pass.
- Repeat Step 4 until heavy deposits are not visible on the patch.
- Once the barrel is free of heavy deposits, insert clean, dry patches until the patches come out clean and free of solvent.
- If using a bore guide, remove the bore guide.

- Clean the chamber with a chamber mop or clean, dry patches.
- If the barrel was removed from the upper receiver, reinstall the barrel.

WARNING

FAILURE TO REMOVE SOLVENTS FROM THE CHAMBER CAN INCREASE CHAMBER PRESSURE. FAILURE TO ENSURE THE CHAMBER IS UNOBSTRUCTED MAY RESULT IN DAMAGE TO THE RIFLE.

5. Use a stiff plastic brush to remove carbon from both the extractor and the ejector.
6. Clean the remainder of the rifle with cotton-tipped swabs, general purpose brushes and rags. Make sure all mechanical metal surfaces are coated with preservative oil. Do not lubricate the bolt face, bolt lugs or chamber/bore.
7. With the firing pin assembly removed, use TW25b Grease to lightly lubricate both cam slots on the bolt body. These are highlighted in red (**FIGURE 38**).

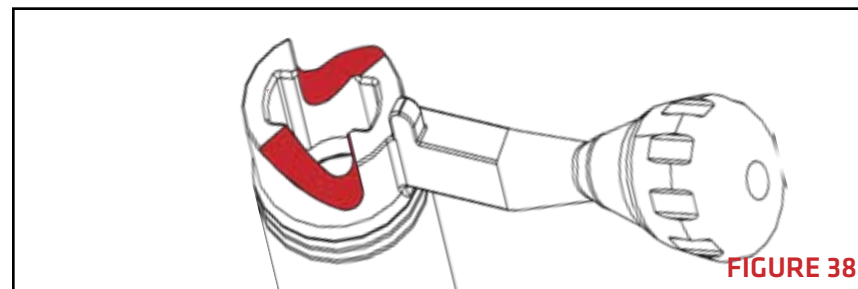


FIGURE 38

8. With the firing pin assembly removed, lubricate the critical surfaces highlighted in red (**FIGURE 39**) using TW25b Grease.

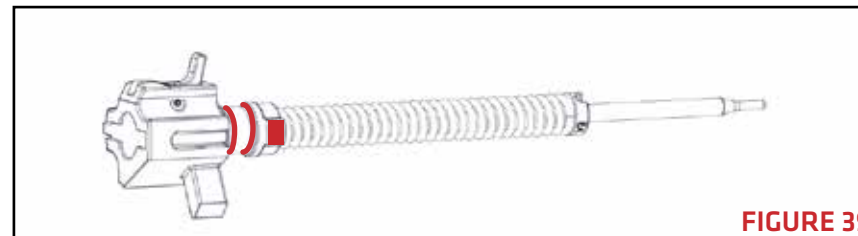


FIGURE 39

NOTE: THE BOLT HAS A CORROSION RESISTANT COATING TO REDUCE FRICTION. DO NOT LUBRICATE THE BOLT LUGS.

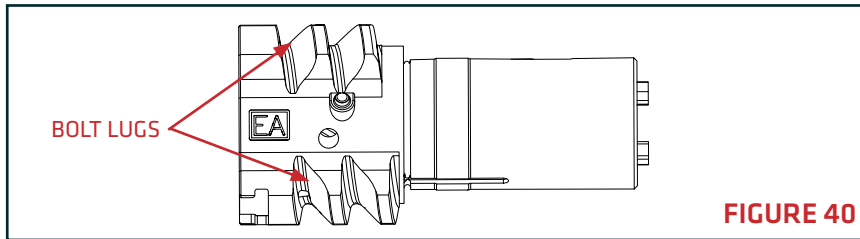


FIGURE 40

CLEANING OF THE MAGAZINE

Clean the entire magazine of debris paying special attention to the interior. DO NOT apply oil or lubrication to the inside the magazine body.

⚠ CAUTION

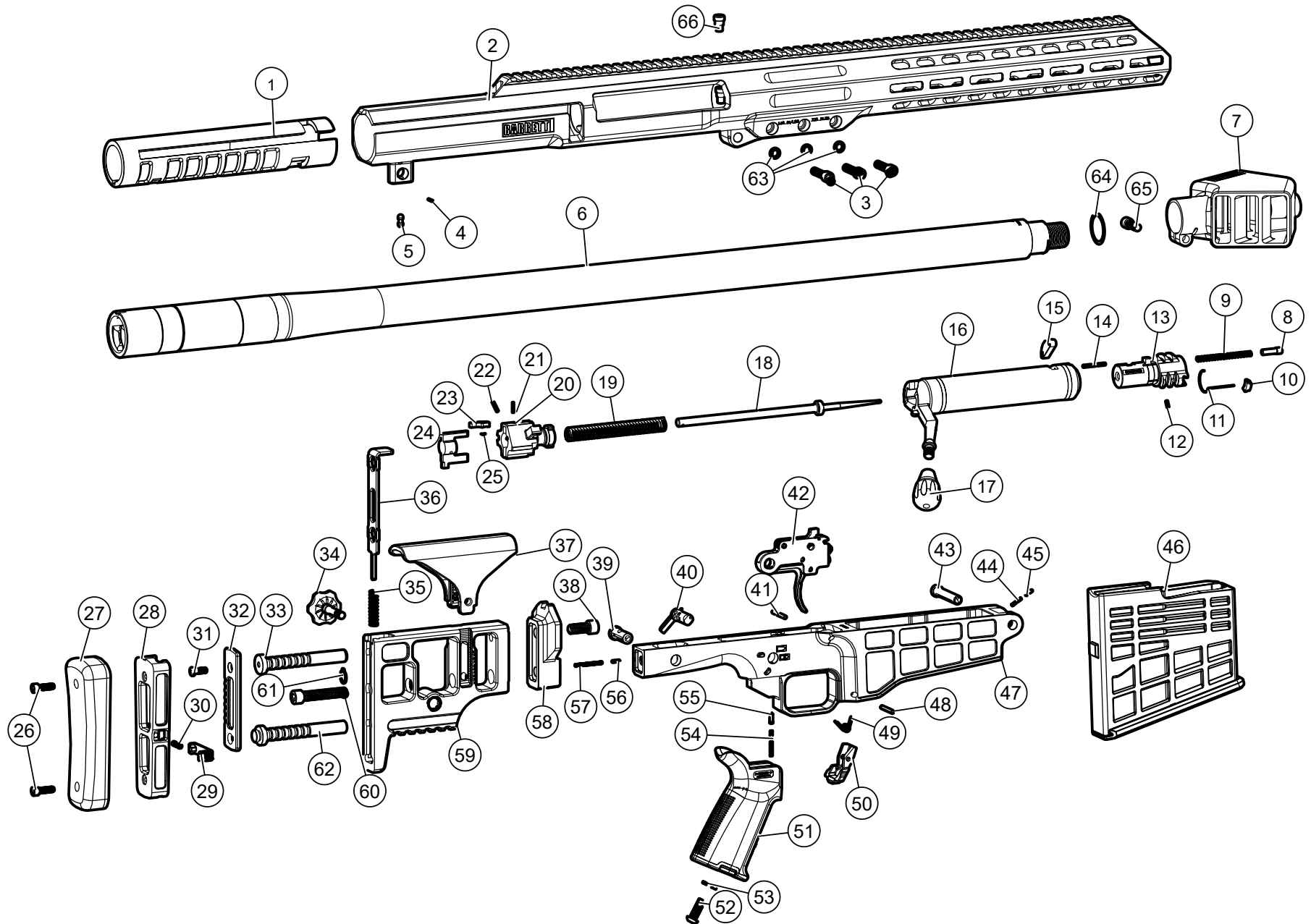
EXCESS LUBRICANT OR GREASE CAN CAUSE CARTRIDGES TO FEED SLUGGISHLY OR FAIL TO EXTRACT. AN ACCUMULATION OF GREASE OR DIRT ON THE FACE OF THE BOLT, UNDER THE EXTRACTOR, IN THE CHAMBER, OR IN THE MAGAZINE CAN CONTRIBUTE TO CARTRIDGE FEEDING PROBLEMS.

TROUBLESHOOTING GUIDE

MALFUNCTION	CAUSE	CORRECTIVE ACTION
FAILURE TO FIRE	Faulty ammunition	Replace ammunition
	Cocking piece is dragging	Clean and lubricate cocking piece
	Firing pin or firing pin spring is broken or damaged	Replace firing pin and firing pin spring
FAILURE TO FEED	Check Magazine: a. Proper Installation b. Dirt/Debris c. Damage	a. Reinstall magazine into the receiver b. Clean magazine c. Replace magazine
FAILURE TO CHAMBER	Check cartridge for damage	Remove damaged round
	Check for dirty/obstructed chamber	Clear and clean chamber

FAILURE TO EXTRACT	Broken or worn extractor	Replace the extractor
	Broken or worn extractor spring	Replace the extractor spring
	Extractor not moving freely	Disassemble, inspect, clean and replace damaged parts
	Dirty ammunition or chamber	Clean chamber and ensure ammunition is clean
	Broken case rim	Clear with cleaning rod
FAILURE TO EJECT	Broken or worn ejector	Contact a certified armorer
	Broken or worn ejector spring	Contact a certified armorer
	Ejector not moving freely	Contact a certified armorer
EXCESSIVE RECOIL	Check for faulty/hot ammunition	Replace or cool ammunition
	Improper shooting position	Firmly shoulder the buttstock
	Check for loose, missing, damaged/clogged muzzle brake	Clean or replace muzzle brake

EXPLODED VIEW



PART LIST

DESCRIPTION			DESCRIPTION		
1	BOLT GUIDE	1	37	CHEEK PIECE	1
2	UPPER RECEIVER	1	38	SHCS 5/16-18 X .750	1
3	BARREL SCREW	3	39	TAKEDOWN PIN	1
4	RP .062 X .375	1	40	SAFETY	1
5	TAKEDOWN PIN LOCK	1	41	DP .125 X 1.00	1
6	BARREL COMPLETE	1	42	TRIGGER ASSEMBLY	1
7	MUZZLE BRAKE	1	43	PIVOT PIN	1
8	EJECTOR	1	44	FRONT ASSEMBLY PIN SPRING	1
9	EJECTOR SPRING	1	45	TAKEDOWN DETENT PIN	2
10	EXTRACTOR	1	46	MAGAZINE ASSEMBLY	1
11	EXTRACTOR SPRING	1	47	LOWER RECEIVER	1
12	RP .093 X .500	1	48	RP .125 X .875	1
13	BOLT	1	49	MAGAZINE RELEASE LEVER SPRING	1
14	RP .093 X .875	1	50	MAGAZINE RELEASE LEVER	1
15	BOLT LOCK	1	51	PISTOL GRIP	1
16	BOLT BODY	1	52	PISTOL GRIP SCREW	1
17	BOLT KNOB	1	53	PISTOL GRIP WASHER	1
18	FIRING PIN	1	54	SAFETY DETENT SPRING	1
19	FIRING PIN SPRING	1	55	SAFETY DETENT	1
20	COCKING PIECE SHROUD	1	56	TAKEDOWN DETENT	1
21	RP .062 X .375	1	57	TAKEDOWN DETENT SPRING	1
22	DP .093 X .500	1	58	RECEIVER END CAP	1
23	COCKING PIECE LEVER	1	59	BUTTSTOCK	1
24	COCKING PIECE	1	60	SHCS, 5/16-18 x 1.75 Lg	1
25	WAVE WASHER	1	61	RETAINING RING	1
26	RECOIL PAD SCREW	2	62	LOWER GUIDE ROD	1
27	RECOIL PAD	1	63	BARREL SCREW WASHER	3
28	RECOIL PAD BASE PLATE	1	64	MUZZLE BRAKE SHIM	1
29	RECOIL PAD ADJUSTMENT LATCH	1	65	MUZZLE BRAKE SCREW	1
30	RECOIL PAD LATCH SPRING	1	66	INDEX PIN	1
31	VERTICAL SLIDER SCREW	1			
32	VERTICAL SLIDER	1			
33	UPPER GUIDE ROD	1			
34	CHEEK PIECE LOCK KNOB	1			
35	LOP ADJUSTMENT LATCH SPRING	1			
36	LOP ADJUSTMENT LATCH	1			

SPECIFICATIONS

CALIBER	BARREL LENGTH	BARREL PROFILE	TWIST RATE	OVERALL LENGTH	RIFLE WEIGHT
.416 Barrett	36 in	Heavy	1 in 9"	62.375"	25.51 lbs

TRIGGER: Single stage
Set at 3 lbs from factory

SAFETY: Reversible (Left or Right)

STOCK: Fixed with adjustable length of pull and recoil pad height

MAG. CAPACITY: 5 Cartridges

LENGTH OF PULL ADJUSTMENT INCREMENTS

VERTICAL ADJUSTMENT INCREMENTS (0.25in/click)	LENGTH OF PULL INCREMENTS (0.25in/click)
0.25 in	0.25 in
0.50 in	0.50 in
0.75 in	0.75 in
1.00 in	1.00 in
1.25 in	1.25 in
1.50 in	1.50 in

NOTES

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