



NOVESKE®

Black Rifle Manual

OPERATION, MAINTENANCE AND TROUBLESHOOTING

Thank you for Buying a NOVESKE product.

PLEASE PRACTICE SAFE FIREARMS HANDLING!



CAUTION: CAREFULLY READ THIS INSTRUCTION MANUAL PRIOR TO LOADING AND FIRING THIS FIREARM. FOLLOW ALL INSTRUCTIONS ON THE PROPER HANDLING AND SAFE USE OF THIS FIREARM - LIVES DEPEND ON IT!



CAUTION: USE ONLY CLEAN, DRY, HIGH QUALITY COMMERCIALY MANUFACTURED AMMUNITION IN GOOD CONDITION which is appropriate to the caliber of your firearm. No steel cased ammunition. Noveske does not recommend the use of remanufactured or hand loaded ammunition.



WARNING: IF THIS FIREARM IS CARELESSLY OR IMPROPERLY HANDLED, UNINTENTIONAL DISCHARGE COULD RESULT AND COULD CAUSE INJURY, DEATH, OR DAMAGE TO PROPERTY.



WARNING: EYE PROTECTION SHOULD BE WORN during all assembly and operation of the rifle.



WARNING: THE RIFLE MAY FIRE if the trigger is pulled and selector lever is not fully in the "SAFE" position.



WARNING: THIS WEAPON COULD CHAMBER A ROUND if it is dropped or jarred with a loaded magazine in place - either with the Bolt Carrier Assembly locked to the rear, or in its forward position.

ALWAYS PRACTICE SAFE FIREARMS HANDLING!

FUNDAMENTAL RULES FOR SAFE GUN HANDLING



ALWAYS ASSUME GUN IS LOADED AND KEEP POINTED IN A SAFE DIRECTION. NEVER LOAD THE GUN UNTIL READY TO USE. KEEP SELECTOR IN SAFE POSITION AND YOUR FINGER OFF THE TRIGGER UNTIL READY TO SHOOT. ALWAYS BE SURE OF YOUR TARGET AND WHAT IS BEYOND IT.



WARNING: BEWARE OF DANGEROUS PROCEDURES
Be sure Cam Pin is installed in the Bolt Group. If it isn't, your rifle can still fire and WILL EXPLODE.

- When using a Blank Firing Attachment, NEVER FIRE ANYTHING EXCEPT BLANKS! For your safety, we recommend the visible, military style blank firing attachment.
- If your rifle stops firing with a live round in the chamber of a hot barrel (a misfire), count to 30 before removing the round. However, if you cannot remove it after that 30 seconds, remove magazine and wait 15 minutes with the Rifle Pointing in a SAFE DIRECTION! This way you won't be hurt by a possible round "cooking-off" (i.e. the round detonating just from the heat of the barrel). In any event, keep your face away from the ejection port while clearing a hot chamber.
- If your bolt fails to unlock, and you try to free it by tapping the buttstock on the ground while pulling on the charging handle, keep yourself clear of the Muzzle!
- If there is water in the barrel, do not fire the rifle. IT COULD EXPLODE!
- If a noticeable difference in sound or recoil is experienced, STOP FIRING! Either condition could indicate an incomplete powder burn and/or a bullet stuck in the bore.

NOTE: With the bolt carrier assembly locked to the rear, or in its forward position, if the weapon is dropped or jarred with a loaded magazine in place, a live round could be chambered.

ABOUT YOUR Noveske RIFLE

This Operating Manual covers all Noveske rifles in the M16 family of weapons. They are lightweight, gas operated, air-cooled, magazine-fed rifles, carbines or pistols that are Semi-Automatic in operating mode (i.e., a single round will fire each time the trigger is pulled).

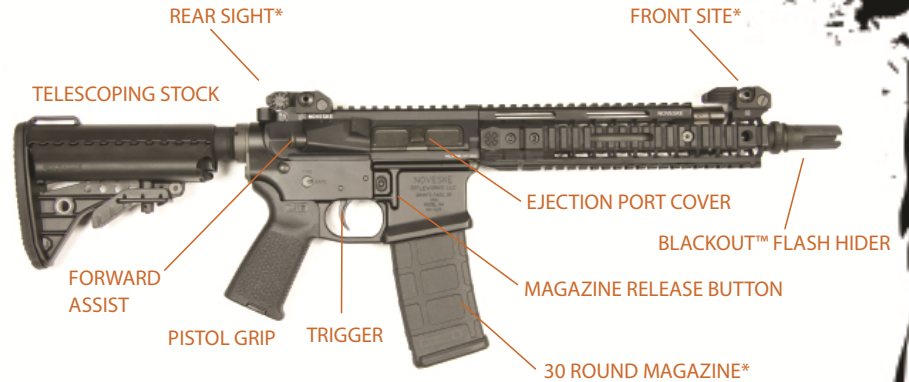
Note: For Law Enforcement and Military markets, Noveske makes similar models in Full-Automatic (continuous fire as long as the trigger is pulled) configurations. Sales of these models are regulated by ATF.

- On all models, the Upper and Lower Receivers are easily opened for cleaning and inspection. All models have forged 7075 aluminum Upper and Lower Receivers.
- Specifications subject to change without notice.
- All models can be configured with either Telescoping Buttstocks or Fixed Rifle Buttstocks. All models feature vertical pistol grips and detachable magazines.*

RIFLE FEATURES & CONTROLS IDENTIFICATION / LOCATION...

Note: ATF Regulations require a minimum barrel length of 16" on commercially available rifles and carbines. This 16" length can be a combination of barrel and permanently fixed (pinned & welded over) muzzle brake / flash suppressor as long as total length equals 16".

*Except for certain models sold to states with detachable magazine restrictions. Rifles with barrel lengths under 16" are available to Military, Law Enforcement and civilians with necessary approved ATF documents.



*NOT INCLUDED



CLEARING YOUR RIFLE

ALWAYS FOLLOW THE RULES OF SAFE GUN HANDLING.

First, assume the gun you are handling is loaded, and then proceed - according to the following steps - to CLEAR YOUR RIFLE

1. Point Rifle in a SAFE DIRECTION! Place Safety Selector Lever on SAFE. NOTE: If the hammer is not cocked, the Safety Selector Lever cannot be pointed toward SAFE. (Figure 1)
2. Press Magazine Catch Button and pull Magazine down to remove. (Figure 2)
3. To Lock Bolt Open, Pull Charging Handle rearward. Press bottom of Bolt Catch and allow Bolt to move forward until it engages Bolt Catch. Return Charging Handle to forward. If you haven't before, now place Safety Selector Lever on SAFE. (Figure 3)

PREVENTATIVE MAINTENANCE CHECKS & SERVICES

1. Check to see that there is NO EXCESSIVE OIL in the Bore. If there is, swab it out with a patch and the cleaning rod.

ALWAYS CLEAN A NEW RIFLE BEFORE FIRING.



WARNING: If the rifle is fired with oil - or water - in the barrel, excessive pressure will be created and may cause the rifle to explode.

2. Retract the Bolt to ensure free movement between Bolt Carrier and Gas Tube. (Figure 4)

3. Perform Safety Function Check (below) to ensure that Safety Selector Lever works properly.

SAFETY FUNCTION CHECK

1. Remove Magazine if installed. Pull Charging Handle assembly to rear. Check that Chamber is clear. Let the Bolt and Bolt Carrier close. Do not pull Trigger. Leave Hammer in cocked position.



WARNING: If Rifle fails any of the following tests, continued use of the Rifle could result in injury to, or death of, people around you.

2. Place Selector Lever in SAFE position, point rifle in a safe direction, and pull Trigger. (Figure 5)

THE HAMMER SHOULD NOT FALL.

3. Place Selector Lever in FIRE position. (Figure 6) Pull the Trigger.

THE HAMMER SHOULD FALL.

NOTE: For purposes of the following check, "SLOW" is defined as one fourth to one half the normal rate of trigger release.



Figure 1



Figure 2

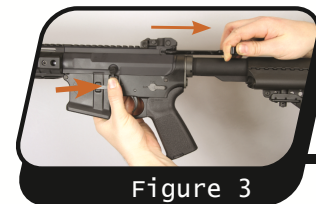


Figure 3



Figure 4



Figure 5



Figure 6

4. Hold Trigger to the rear, pull Charging Handle to the rear and release Charging Handle. Then release pressure on the Trigger with a slow, smooth motion, without hesitations or stops, until the Trigger is fully forward.



Figure 7

AN AUDIBLE CLICK SHOULD BE HEARD - THE HAMMER SHOULD NOT FALL.

5. Repeat the FIRE position test FIVE TIMES. The Rifle must not malfunction during any of these five tests. If the Rifle malfunctions during any of these five tests, have the Rifle checked by a qualified gunsmith or contact Noveske Rifleworks.



Figure 8

PREPARING TO FIRE - LOADING A MAGAZINE

1. Use only quality factory ammunition suitable for your firearm. Not steel cased ammunition. Examine each Cartridge - particularly around the primer. Look for dents, scratches, and other signs of damage.



Figure 9

DO NOT LOAD DAMAGED AMMUNITION!

2. With the Magazine facing forward as shown in figure 7, place a Round between the Feed Lips of the Magazine with the Bullet Tip forward. Push the Round down until it is held by the Magazine Feed Lips.

3. If necessary, give the Round a slight push backward to seat it against the inside back edge of the Magazine Feed Lips. Place next Round on top of the previous Round and repeat steps until desired number of Rounds are loaded into Magazine.



CAUTION: Safe Firearms Handling dictates that you **ONLY LOAD LIVE AMMUNITION INTO YOUR RIFLE WHEN YOU ARE ABOUT TO SHOOT.**

OPERATION OF YOUR RIFLE - LOADING



CAUTION: ALWAYS POINT THE MUZZLE IN A SAFE DIRECTION!

1. With the Hammer cocked, place Selector Lever on SAFE. Open Bolt and check Firing Chamber. Make sure it is CLEAR! (Figure 8)

2. Return Charging Handle to forward, locked position. Push Magazine up into Magazine Well until Magazine Catch engages and holds the Magazine. (Figure 9)

3. While gripping the magazine, firmly push the magazine upwards and pull down to insure the magazine is seated correctly.



CHAMBERING A ROUND FROM AN OPEN BOLT

NOTE: The Magazine may be inserted into the Rifle with the Bolt Assembly Open or Closed.

1. Depress upper portion of Bolt Catch. Bolt should spring forward. This will chamber a round from the Magazine. (Figure 10)

2. TAP the Forward Assist with the heel of your hand to ensure that the Bolt is fully forward and locked. (Figure 11)
RIFLE IS NOW READY TO BE AIMED AND FIRED!

CHAMBERING A ROUND FROM A CLOSED BOLT

1. With a Magazine in the Rifle, pull the Charging Handle fully to Rear. Then release the Charging Handle allowing the Bolt to spring forward - chambering the first round. (Figure 12)
NEVER "Ride" or push the Charging Handle forward
(Figure 13). Let it move forward on its own.

2. TAP the Forward Assist to ensure that the Bolt is fully forward and locked. (Figure 11)

RIFLE IS NOW READY TO BE AIMED AND FIRED!

NOTE: If Rifle is not going to be fired immediately, make sure the Selector Lever is still on SAFE, and close the Ejection Port Cover to keep dirt out of the Chamber and Upper Receiver.

CONDITION: Rifle is now Loaded, a Round is Chambered, and Safety Selector should be on SAFE.



WARNING: ALWAYS KEEP THE MUZZLE POINTED IN A SAFE POSITION.

FIRING THE RIFLE

To FIRE the Rifle in SEMI-AUTOMATIC MODE (one Round fired with each pull of the Trigger), move the Safety Selector from SAFE to FIRE. (Figure 14)

Aim at Target - Pull Trigger - Release. The Rifle will automatically eject the spent Cartridge and chamber another in preparation for the next shot. The cycle of pulling the Trigger to shoot, and the Rifle automatically reloading, can be continued until the Magazine is empty.

NOTE: After the last Round is fired, the Bolt Carrier will lock in the rear position. You can then push the Magazine Release Button to drop out the empty magazine, insert a fresh Magazine, release the Bolt Catch, and a new Round will be automatically chambered in preparation for the next firing sequence.



Figure 10



Figure 11

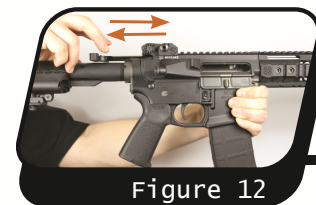


Figure 12



Figure 13

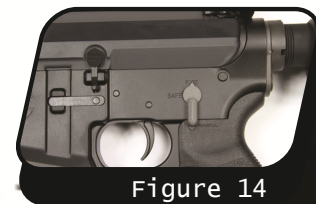


Figure 14



Figure 15



Figure 16



Figure 17



Figure 18



Figure 19



WARNING: IF A NOTICEABLE DIFFERENCE IN SOUND OR RECOIL IS EXPERIENCED, STOP FIRING.

Either condition could indicate an incomplete powder burn and/or a bullet stuck in the bore. Retract the Bolt slowly and remove the fired cartridge case. Clear the weapon and check for unburned powder grains in the Receiver or Bore, and for a Bullet stuck in the Bore (see Page 8). Clean out any unburned powder before resuming firing. If a Bullet is stuck in the Bore, do not attempt to remove it. Take the Rifle to a qualified Gunsmith.

IMMEDIATE ACTIONS - IN CASE OF TROUBLE!



WARNING: ALWAYS KEEP THE MUZZLE POINTED IN A SAFE POSITION.

IF YOUR RIFLE STOPS FIRING, PERFORM THE FOLLOWING IMMEDIATE ACTIONS:

1. While firmly gripping the magazine, push upward then pull down to insure the magazine is properly inserted. (Figure 15)
2. PULL Charging Handle all the way back. Observe the ejection of the Case or Cartridge. Check Firing Chamber for any obstruction. (Figure 16)



WARNING: DO NOT LOAD WITH A HOT CHAMBER – A ROUND MAY “COOK OFF”. “Cooking Off” means that a Round may Detonate (Fire) unexpectedly just from being exposed to the heat of the Rifle’s Firing Chamber.

3. If Cartridge or Case is ejected, or Chamber is clear, RELEASE Charging Handle to feed a new Round. Don’t “ride” the Charging Handle forward. (Figure 17)
4. Tap Forward Assist to ensure Bolt is locked. (Figure 18)
5. Now FIRE. If the Rifle will not fire, look for trouble and apply the Remedial Actions described next. (Figure 19)



REMEDIAL ACTIONS



WARNING: IF YOUR RIFLE STOPS FIRING WITH A LIVE ROUND IN THE CHAMBER OF A HOT BARREL, REMOVE THE ROUND FAST. However, if you cannot remove it within 10 seconds, remove the magazine and wait 15 minutes with the rifle pointing in a safe direction (always check that the “SAFE” direction remains safe during that time). This way you and those around you won’t get hurt by the possibility of a round “cooking off”.

KEEP YOUR FACE AWAY FROM THE EJECTION PORT WHILE CLEARING A HOT CHAMBER.

1. If your Rifle still fails to fire after performing Immediate Action Steps 1 through 5 on previous Page, check again for a jammed cartridge case.

2. If a cartridge case is in the chamber, open the upper and lower receivers, remove the bolt carrier, and try to tap out the case with a cleaning rod.

IF RIFLE STILL FAILS TO FIRE, CHECK THE TROUBLESHOOTING SECTION IN THIS MANUAL – OR TAKE THE RIFLE TO A QUALIFIED GUNSMITH.

BULLET STUCK IN THE BORE...



WARNING: IF AN AUDIBLE “POP” OR REDUCED RECOIL IS EXPERIENCED DURING FIRING, IMMEDIATELY CEASE FIRE: Then,

- 1 Remove the Magazine
- 2 Lock the Bolt to the rear
- 3 Place the Selector Lever on the SAFE and visually inspect and/or insert a Cleaning Rod into the Bore to ensure there is not a Bullet stuck in the Bore.

DO NOT APPLY THE “IMMEDIATE ACTIONS” DESCRIBED ON PREVIOUS PAGES. IF A BULLET IS STUCK IN THE BARREL OF THE WEAPON, DO NOT TRY TO REMOVE IT. TAKE THE RIFLE TO A QUALIFIED GUNSMITH.

FRONT AND REAR SIGHTS

Noveske rifles are made to work with standard AR-compatible flip-up or fixed sights.

DISASSEMBLING YOUR RIFLE

1. **CLEAR YOUR RIFLE!** (as described on Page 4).
2. Push in Takedown Pin (a Bullet tip can help) as far as it will go. Pivot Upper Receiver from Lower Receiver. (Figure 20)
3. Push in Pivot Pin (a Bullet tip can help). (Figure 21)

NOTE: Pivot Pin and Takedown Pin are “captivated” in the Lower Receiver - meaning that they are held in by their Detents and Springs so they cannot fall out and get lost.





Figure 22

4. Separate Upper and Lower Receivers. (Figure 22)



Figure 23

5. Pull back Charging Handle and Bolt Carrier. (Figure 23)

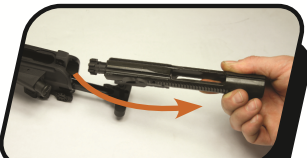


Figure 24

6. Remove Bolt Carrier and Bolt. (Figure 24)



Figure 25

7. Remove Charging Handle by pulling back and up until "Ears" clear cutouts in Receiver. (Figure 25)



Figure 26

8. Remove Firing Pin Retaining Pin. A Bullet tip can help push it out of the Bolt Carrier. (Figure 26)

9. Drop Firing Pin out of rear of Bolt Carrier. (Figure 27)

NOTE: Do Not open or close split end of Firing Pin Retaining Pin, and Do Not substitute a common cotter pin on reassembly.



Figure 27

10. Push Bolt in to locked position. (Figure 28)



Figure 28

11. Remove Cam Pin by rotating 1/4 turn and lifting out. (Figure 29)

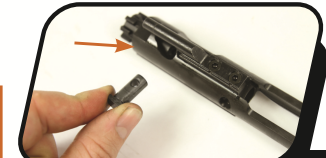


Figure 29

12. Remove Bolt Assembly from Bolt Carrier by pulling straight out. (Figure 30)

DISASSEMBLE USING STEPS 13 THRU 16 ONLY WHEN PARTS ARE DIRTY OR DAMAGED.

NOTE: Press rear of Extractor to check Spring function.

13. Remove Extractor Pin by pushing out with a punch or the tip of a Bullet. (Figure 31)

**PUSH EXTRACTOR PIN OUT...
Don't lose it!**

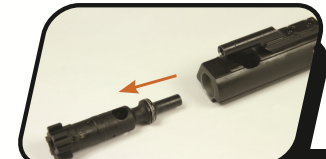


Figure 30



Figure 31



14. Remove Extractor with Spring. (Figure 32)



CAUTION: Extractor Spring may pop out and get lost!

15. With Hammer cocked, depress Buffer Retainer with punch or Bullet tip to release Buffer and Spring. (Figure 33)



CAUTION: Buffer is under tension from Action Spring. NOTE: Hammer needs to be cocked to allow Buffer and Spring to clear Receiver.

16. Pull out Buffer and Action Spring for cleaning. (Figure 34)



Noveske DOES NOT RECOMMEND ANY FURTHER DISASSEMBLY.

INSPECTION / CLEANING / LUBRICATION

AFTER FIRING YOUR RIFLE, clean it as soon as possible to make the job easier and to avoid allowing the development of any corrosion.

When your firearm has not been fired, you should clean it at least once or twice a year if you live in a temperate climate, or as often as once a week in a tropical climate.

If you get your firearm wet, clean it as soon as possible to avoid the onset of corrosion or rust. Use a high quality rifle cleaning kit that includes a cleaning rod; swab holder; cotton flannel bore patches; pipe cleaners; a small toothbrush; brass wire bristle bore and chamber brushes and a Cleaner/

Lubricant/Preservative (CLP in Military terminology). PLUS, an old toothbrush for cleaning parts and dislodging dirt build-up, and pipe cleaners or Q-tips for cleaning Gas Key and Gas Tube and other hard to reach areas.

After you have disassembled the rifle, thoroughly clean, inspect and lubricate all parts.

CLEANING THE UPPER RECEIVER

NOTE: Check to ensure that there is no looseness between the Barrel and the Upper Receiver - if you detect any movement by twisting with your hands, the Barrel Nut must be retorqued. Bring the Rifle to your Gunsmith.

1. Using a "CLP" type product, clean all areas (inside and out) of Powder Fouling, Corrosion and Dirt. Never use a wire brush or any type of abrasive to clean the Aluminum Upper Receiver - you'll scratch and damage the finish. A Toothbrush is good for loosening any dirt buildup, and won't scratch the Receiver.

2. Clean the Firing Chamber - dip the larger Chamber Brush in CLP and use at least 5 plunge strokes and 3 - 360° clockwise rotations. Then swab out the Bore as described previously to remove contaminated solution or loosened crud.

Be sure not to allow the wire center of the chamber brush to damage the rifling of the barrel.

3. Use the Bore Brush - wet with CLP - to clean carbon and powder residue from around the Gas Tube. Clean the Bolt Locking Lugs, Bolt Rings, Firing Pin, Bolt Cam Pin, lip of the Extractor, and inside the Bolt Carrier from both front and rear.

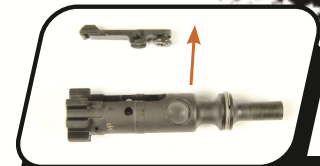


Figure 32



Figure 33



Figure 34

4. Wipe all components clean and dry, and inspect for excessive wear, corrosion or mechanical damage. Have your Gunsmith replace any worn or defective parts before firing again (or contact Noveske for parts needs.)

CLEANING THE BOLT, BOLT CARRIER & COMPONENTS

1. Clean out the Gas Key on top of the Bolt Carrier with a Q-Tip. Also clean out all carbon/powder residue from vent holes in the Bolt Carrier. (Figure 35)

2. Clean and inspect Bolt, Cam Pin, Firing Pin, Firing Pin Retaining Pin, extractor and extractor spring thoroughly. (Figure 36)

CHECK THE BOLT: Look for cracks or fractures, especially in the Cam Pin hole area. Inspect Bolt Face - Bolts with any pitting extending into the firing pin hole should be replaced.

CHECK THE CAM PIN: If it is cracked, pitted or chipped, it should be replaced. NOTE: Cam Pin can only be installed in Bolt from one side - so Ejector will be positioned correctly.

CHECK THE FIRING PIN: If it is bent, cracked, too blunted or too sharp, it should be replaced.

CHECK THE FIRING PIN RETAINING PIN: If it is bent, or badly worn, it should be replaced. Never use a "Cotter Pin" as a substitute for a real Firing Pin Retaining Pin. Cotter pins are not made of heat treated spring steel and their round head shape will cause damage.

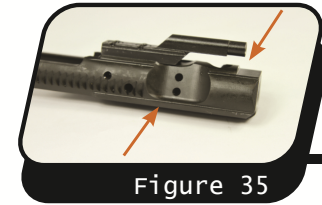


Figure 35

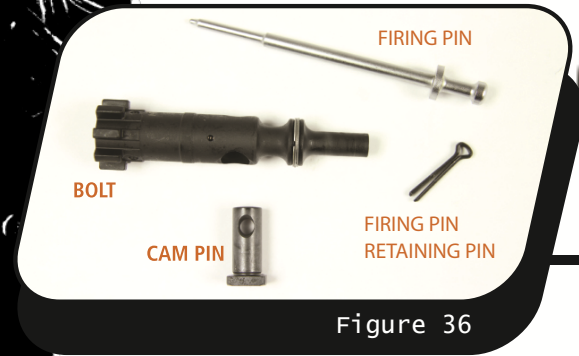
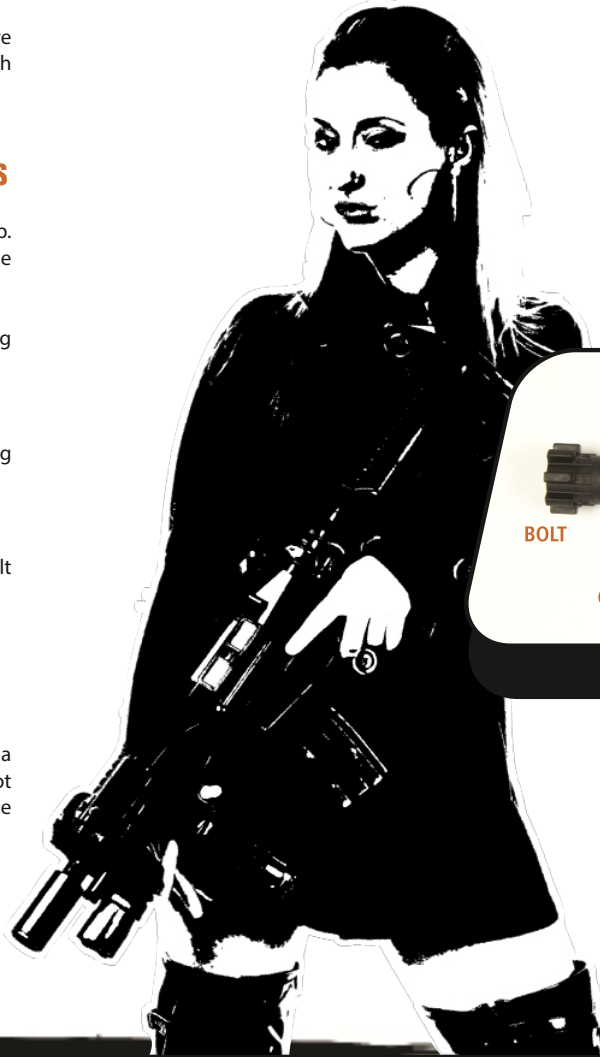


Figure 36





WARNING: IF THE CAM PIN IS MISSING,
DO NOT FIRE THE RIFLE - IT WILL EXPLODE!

CHECK THE EXTRACTOR AND EXTRACTOR SPRING: If the Extractor is chipped, or has broken edges in the area of the lip that engages the cartridge rim, it should be replaced. Check that the rubber insert is inside the Extractor Spring and the Extractor Spring is inside the Black Rubber O-Ring (Figure 37). Clean off any Carbon buildup or powder residue.

CLEANING / LUBRICATING THE EJECTOR

NOTE: The design of the Ejector makes its disassembly for cleaning somewhat impractical (i.e. we don't recommend it). Make sure your Rifle ejects empty cases efficiently by following these steps on a monthly basis:

1. With the Bolt removed from the Bolt Carrier and the Extractor installed, and dribble a few drops of CLP around the Ejector to form a puddle. (Figure 38)

2. Take a fired or dummy case and place it under the lip of the Extractor. With a rocking motion, press the case down against the Ejector. Since the Ejector is spring loaded, some resistance will be felt. Press on the case until it stops against the bolt face. Ease off with your thumb slightly and press down again. Repeat several times. Replace the CLP frequently. Once the spring action of the Ejector is smooth and strong, dry off any excess lubricant.

CLEANING THE LOWER RECEIVER

1. Clean all areas of Powder Fouling, Corrosion, Dirt and Rust. Again, never use a wire brush or any type of abrasive to clean the Aluminum Lower Receiver.

2. Wipe any dirt from the Trigger Mechanism. Carefully clean the Magazine Release Button and the cavity for the Magazine Catch on the left side of the Receiver. Also inspect and clean the Bolt Catch Mechanism and Receiver's Takedown and Pivot Pins. Clean the Buffer, Action Spring, and inside the Lower Receiver Extension (the Buffer Tube). A piece of rag attached to the Cleaning Rod and Patch Holder can be used to wipe inside the Buffer Tube.

3. Buttstocks may require cleaning as necessary. Telescoping Stock Latch can be pulled down to remove Stock.

Clean the Stock Position Lock Holes, and lightly lube the Receiver Extension and Latch Mechanism to ensure proper telescoping action. A2 Solid Buttstocks may require cleaning / lubrication of Storage Compartment Door Latch and Hinge, and interior of Storage Compartment.

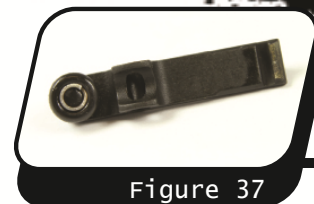


Figure 37

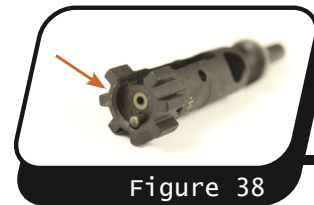
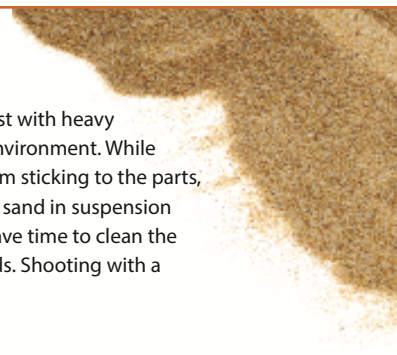


Figure 38

CLEANING/LUBE

Recent US Army testing has shown that ARs work best with heavy lubrication. This is even true when used in a sandy environment. While many have said to avoid heavy lube to keep sand from sticking to the parts, this has been proven to be incorrect. Lube keeps the sand in suspension and allows the gun to function. Even if you do not have time to clean the weapon, add lube (such as CLP) every 300-500 rounds. Shooting with a suppressor requires more frequent lubrication.



LUBRICATION - UPPER & LOWER RECEIVERS...

UPPER RECEIVER

Lightly Lubricate the inside of Upper Receiver, the Bore and Chamber (using the cleaning rod and a patch), the outer surfaces of the Barrel and Front Sight, and surfaces under the Handguards. Be sure you lubricate in and around all the Locking Lugs (Figure 38). The Forward Assist should also be lightly lubed inside the Receiver and checked for function.

LOWER RECEIVER

Lower Receiver Extension: Lightly lubricate inside the Lower Receiver Extension (Buffer Tube), the Buffer and the Action Spring. Also lightly lubricate the Telescop Latch and exterior of the Receiver Extension.

Lower Receiver: Generously lubricate ALL MOVING PARTS INSIDE THE LOWER RECEIVER including the Trigger, Hammer, Safety, Bolt Catch, Magazine Release, etc), and their various Pins and Detents. Don't forget the Takedown and Pivot Pins and their Detents. Use an oiled rag to wipe off any fingerprints on the exterior surfaces (they can start the corrosion process). A black cloth is best as it won't leave visible lint.

Firing Pin: Lightly lubricate the Firing Pin with CLP - also the Firing Pin recess in the Bolt.

Bolt: Generously lubricate the Bolt, its Cam Pin area, the Bolt Gas Rings. A lighter application is good on the Extractor and its Pin.

Charging Handle: Lightly lubricate the Charging Handle and its Latch and Spring.

Bolt Carrier: Lightly lubricate the inner and outer surfaces of the Bolt Carrier. Generously lubricate the Cam Pin area and the "Slide" Rail areas of the Bolt Carrier where they contact the inside of the Receiver. (Figure 39)

Carrier Key: The inside of the Carrier Key on the Bolt Carrier should be dried with a Q-Tip or Pipe Cleaner - then place one drop of CLP inside.

REASSEMBLING YOUR RIFLE

1. Insert Action Spring and Buffer. Depress Buffer Detent and push Buffer in past the Detent, then release.

2. Insert Extractor and Spring.

NOTE: Extractor Assembly has a Rubber Insert within the Spring. Be sure not to lose it. If the Spring comes loose, put the large end of the Spring in the extractor and seat it (a Bullet tip works well). (Figure 40)

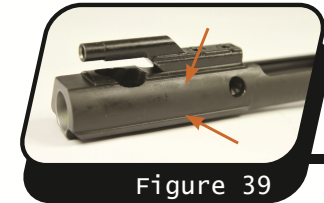


Figure 39

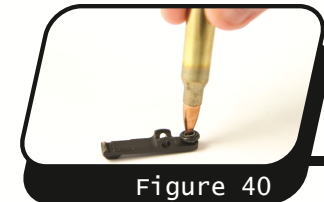


Figure 40



3. Then push down on Extractor to depress Spring, and reinsert Extractor Pin.

4. At the back end of the Bolt, stagger the Gas Ring Gaps to reduce gas pressure loss. Position the three ring gaps 120° apart around the bolt (3rd gap not seen at back side of bolt). (Figure 41) The rings will slide around in their groove by pushing them into position with a small sharp object.

5. Insert Bolt into Bolt Carrier. Twist into position so Cam Pin can be inserted (Figure 42) (Remember, the Cam Pin can only be installed in Bolt from one side, so if it doesn't fit right away, twist the Bolt 180° and try again).

6. Once Cam Pin is inserted, twist it 90° (this will allow insertion of the Firing Pin).



WARNING: THE CAM PIN MUST BE INSTALLED IN THE BOLT GROUP. IF IT ISN'T, YOUR RIFLE CAN STILL FIRE AND WILL EXPLODE!

7. Drop in and seat Firing Pin. Pull bolt until resistance is met by cam pin (Figure 43), then reinsert Firing Pin Retaining Pin. (Figure 44)

NOTE: After inserting Firing Pin Retaining Pin, Firing Pin should not fall out when Bolt Carrier Group is turned upside down.



CAUTION: Noveske DOES NOT RECOMMEND THE PRACTICE OF SWAPPING BOLTS BETWEEN DIFFERENT RIFLES WITHOUT PROPERLY CHECKING HEADSPACE. DOING SO COULD RESULT IN DAMAGE, PERSONAL INJURY OR DEATH.

8. Insert Charging Handle into Upper Receiver and lower the "ears" at front end of Handle into cutouts in Receiver. Then slide Charging Handle partially into Receiver.

9. Lower complete Bolt Carrier Assembly into Upper Receiver. Gas Key will fit into groove in the Charging Handle. (Figure 45) REMEMBER, Bolt must be pulled to "out" position in the Carrier so Cam Pin will fit into the channel in the Upper Receiver.

10. Then slide the Bolt Carrier Assembly and Charging Handle all the way into the Upper Receiver until Charging Handle Latch locks onto the Receiver.

NOTE: If Ejection Port Cover is closed, you will feel some resistance as you push Carrier and Handle in until you pop the Cover open. If Cover is already open, Handle and Carrier should slide in easily.

11. To join Upper and Lower Receivers, position Pivot Pin Lug of Upper Receiver into slot at front of Lower Receiver and push Pivot Pin into place. (Figure 46)



CAUTION: ALWAYS place the Safety Selector Lever on SAFE before pivoting the Upper Receiver to a closed position on the Lower Receiver.

12. After Receivers are closed, push in Takedown Pin. (Figure 47)

NOTE: Pivot Pin and Takedown Pin are "captivated" in the Lower Receiver - meaning that they are held in by their Detents and Springs so they cannot fall out and get lost.

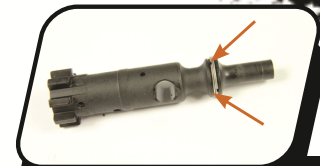


Figure 41

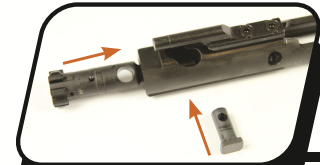


Figure 42

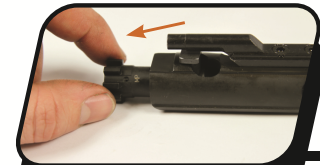


Figure 43



Figure 44

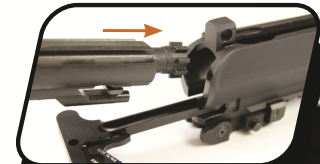


Figure 45



Figure 46



Figure 47

TROUBLESHOOTING

PROBLEM:

CHECK FOR:

WHAT TO DO:

RIFLE WON'T FIRE

SELECTOR LEVER ON SAFE

Put it on fire

IMPROPER ASSEMBLY OF FIRING PIN

Assemble correctly - Retaining pin goes in back of large shoulder on firing pin

TOO MUCH OIL IN FIRING PIN RECESS THROUGH BOLT

Wipe out with pipe cleaner

DEFECTIVE AMMUNITION

Remove and discard

TOO MUCH CARBON ON FIRING PIN OR IN FIRING PIN RECESS

Clean

BOLT WON'T UNLOCK

DIRTY OR BURRED BOLT

Clean, or see your gunsmith

WON'T EXTRACT

BROKEN EXTRACTOR SPRING

See your gunsmith

IMPROPER ASSEMBLY OF FIRING PIN

Remove stuck round Push out with cleaning rod

CARBON IN CHAMBER

Clean chamber

FOULING OR CARBON IN EXTRACTOR RECESS OR LIP

Clean extractor

FROZEN EXTRACTOR

Remove and Clean

RESTRICTED BUFFER ASSEMBLY

Remove and Clean

RESTRICTED MOVEMENT OF BOLT CARRIER GROUP

Remove, clean, and lube
(Before putting bolt back in, make sure Gas tube fits into carrier key and that the carrier moves freely)



TROUBLESHOOTING

PROBLEM:

CHECK FOR:

WHAT TO DO:

WON'T FEED

DIRTY OR
CORRODED AMMO

Replace the ammunition

DIRTY MAGAZINE

Clean

DEFECTIVE MAGAZINE

Replace

TOO MANY ROUNDS
IN MAGAZINE

Take out excess

ACTION OF BUFFER
ASSEMBLY IS RESTRICTED

Take out Buffer and Spring -
Clean them

MAGAZINE NOT
FULLY SEATED

Adjust Magazine Catch:
Press magazine catch button on right side, then turn
catch on left side. Turn catch clockwise to tighten or
counterclockwise to loosen.

DOUBLE FEED

DEFECTIVE MAGAZINE

Replace

WON'T CHAMBER

DIRTY OR
CORRODED AMMO

Replace the ammunition

WON'T LOCK

DAMAGED AMMO

Replace the ammunition

CARBON IN CHAMBER
OR ON GAS TUBE

Clean

DIRT, CORROSION, OR
CARBON BUILDUP IN
BARREL LOCKING LUGS

Clean Lugs



TROUBLESHOOTING

PROBLEM:	CHECK FOR:	WHAT TO DO:
SHORT RECOIL	CORRECT ALIGNMENT OF GAPS IN BOLT GAS RINGS	"Gaps" in the 3 gas rings should be staggered 120° around the bolt body for maximum effectiveness
	CARBON OR DIRT IN CARRIER KEY OR ON OUTSIDE OF GAS TUBE	Clean Carrier Key or around Gas Tube
	Q-TIP, PIPE CLEANER PIECES, OR OTHER DEBRIS STUCK INSIDE CARRIER KEY	Clean out if possible or have rifle checked by gunsmith
BOLT FAILS TO LOCK AFTER LAST ROUND	DIRTY OR CORRODED BOLT LATCH	Clean - or replace - bolt catch check for buffer endcap backout or obstruction. Check for full travel of bolt carrier
	FAULTY MAGAZINE	Replace
SELECTOR LEVER BINDS	NEEDS OIL	Lubricate with CLP
	DIRT OR FOREIGN DEBRIS UNDER TRIGGER	Clean
BOLT CARRIER "HUNG UP"	ROUND JAMMED BETWEEN BOLT AND CHARGING HANDLE AND /OR DOUBLE FED WARNING: KEEP CLEAR OF MUZZLE CAUTION: AFTER ROUND IS REMOVED, BOLT IS UNDER TENSION	<ol style="list-style-type: none"> 1. Remove magazine. 2. Push in on the bottom of the bolt latch. 3. While pulling down on charging Handle, tap the rifle butt on the ground. Bolt should lock to the rear. 4. While bolt is held to the rear, round should fall through the magazine well.

Note: If this procedure fails, use a section of cleaning rod to push the bolt fully to REAR THROUGH THE EJECTION PORT.

BAD GUY WON'T DIE	MAY BE A ZOMBIE	Shoot in the head
	MORE BAD GUYS THAN YOU THOUGHT	Continue to fire
	YOU ARE MISSING	Slow down, relax, aim and fire
	MAY HAVE BODY ARMOR	Aim for face





MAINTENANCE IN EXTREME WEATHER

EXTREME COLD: Clean and lubricate Rifle in a warm room with Rifle at room temperature. Use a light oil in cold weather. Do not lay a warm Rifle directly on snow or ice. Moving Rifle from cold into warmth will cause condensation which could keep Rifle from functioning.

HOT, WET CLIMATES: Clean and lube Rifle more frequently in moist climates. Inspect hidden surfaces of Bolt and Carrier Assembly, Upper Receiver, and Chamber / Barrel Extension (Locking Lugs), and Lower Receiver and Receiver Extension Assembly (Buffer Tube) for rust or corrosion. Also pay close attention to the Spring Loaded Detents on the rifle. Wipe off any hand / finger prints on the Rifle as they can accelerate the onset of rust or corrosion.

HOT, DRY CLIMATES: Take extra care with cleaning and lubrication as rifle will be exposed to blowing sand and fine dust, and extreme temperature shifts (hot in the daytime, freezing at night). Corrosion is less likely to form on metal parts in a dry climate. Lightly lube functional parts only - too much lubrication can attract and hold dust and sand. However, the rifle must have lube to function. Add lube as needed. Inspect and clean frequently.

RAINS: DO NOT FIRE THE RIFLE IF WATER IS PRESENT IN THE BARREL. Excess pressure can cause the Rifle to explode. ALWAYS drain any water from Barrel prior to firing. Dry the Bore with a Swab and Cleaning Rod if wet.



COMPONENT VARIATIONS

This manual is intended to instruct the Noveske Rifle Operator in all necessary aspects of Maintenance, Disassembly, Reassembly, Operation and Troubleshooting of any AR15-style Noveske Rifle. Within the Noveske Weapon System family, there can be nearly infinite variations of Barrel Length, Stock Type, Receiver, Forend and Sights. The rifle you own, or are using, may vary in appearance from the photographs and illustrations in this Manual, but the concepts, procedures and practices recommended in this Manual are universal to the Noveske AR15-style weapon family.

MAGAZINES

Magazines shipped as a standard with all Noveske LLC rifles.

N4 5.56mm - Magpul Pmag 30rd BLK non -window

(10/20rd Mag to states with High Capacity Magazine Ban)

N4 300BLK - GI 30rd Mag

(10/20rd Mag to states with High Capacity Magazine Ban)

N4 6.8SPC - PRi 25rd Mag

(Pri 10rd Mag to states with High Capacity Magazine Ban)

SwitchBlock[®], Rifles, Uppers

OPERATION:

The locking detent on the switchblock must be depressed forward to adjust between the three settings. If the barrel is too hot to touch, use the tip of a projectile, or other pointed object to depress the detent. Rotate the drum to the desired setting. The Switchblock has three settings:

Normal, locking detent to the left,

Off, "O"

Suppressed, "S"

MAINTENANCE:

The Switchblock is constructed of 17-4ph Stainless with a durable nitride finish. Do not lubricate the Switchblock. If the Switchblock is fired for an extended period of time in the same setting, carbon may bind the drum. In this case, use the supplied wrench to assist in rotation, while depressing the detent. It is recommended to switch through all the settings a few times after use.

Switchblock[®] is a registered trademark of Noveske Rifleworks LLC, Patent #: 7,856,917

KX3 FLASH SUPPRESSOR

INSTALLATION INSTRUCTIONS:

Clear the weapon.

For 1/2x28 and 5/8x24 models:

1. Place the supplied crush washer small end first on the barrel threads. (Never reuse the crush washer)

2. Hand tighten the KX3 until it stops against the crush washer.

3. Using a 3/4" wrench, tighten a minimum of approximately 1/4 turn. Continue to tighten until the writing is facing up on the left side, not to exceed a total of 1 and 1/4 turns from hand tight.

For 9/16x24 and M15x1 Models:

1. Hand tighten the KX3 until it stops against the muzzle, then torque to 30 ft.-lbs.

For M14x1 Models:

1. Depress the plunger and hand tighten the KX3 until it stops against the front sight.

2. Loosen the KX3 until the plunger engages into one of the slots on the KX3.



KX3 FLASH SUPPRESSOR CONT...

DISASSEMBLY AND CLEANING INSTRUCTIONS:

1. Clear the weapon.
2. Use a cleaning rod or other pointed object to push the wire retainer out of its locking notch. Be careful not to bend the wire retainer out of shape and do not remove the wire retainer from the cone.
3. Carefully rotate the wire retainer to one side so it will not fall back into the locking notch.
4. Use a GI cleaning rod or other straight edge tool to unscrew the cone from the body. If you encounter resistance apply light oil to the threads through the wire retainer lock notch.
5. Clean the rifle as usual.



CAUTION: If you do not remove the cone you may trap oil and/or solvent inside the body which can result in smoke or damage upon firing.

6. Clean the inside of the KX3 body and cone with a general purpose brush and bore cleaning solvent to remove carbon buildup. Apply a small amount of anti-seize grease to the cone mounting threads.

ASSEMBLY INSTRUCTIONS

1. Screw cone into KX3 body until the wire retainer locking notches align with each other.
2. Carefully rotate the wire retainer until the bent end slides into the locking notch.

INTERNAL CONE EROSION

It is normal for erosion to occur on the rear of the cone. The KX3 is designed with a straight section of cone that can be eroded without impairing the function of the KX3 or the weapon. Replace the cone if the entire straight section of the cone is eroded away. Excessive erosion may occur to the cone in sustained full auto and heavy semi-auto use.

SERIAL NUMBERS

Each KX3 flash suppressor is individually serial numbered for quality control purposes.

US PATENTS 7,836,809 & 8,047,115
NOVESKE.COM

BARREL BREAK-IN AND CLEANING TECHNIQUES

BREAK-IN

It is necessary to clean your barrel well using proper cleaning equipment prior to use of the barrel. We have not found any benefits when using an extended break-in procedure.

CLEANING SUPPLIES & TECHNIQUES

We like the Dewey coated rods, a good bore guide, copper/bronze brushes and cotton flannel patches, the appropriate size to keep that jag and rod in the middle of the bore. When cleaning, the brush or jag should only travel through the barrel from the breech to the muzzle, the same as the path of the bullet. Do not ever pull a brush or jag back through the crown of the barrel. You will need a good carbon solvent, like KG 1. Chemical copper solvents, such as Shooters Choice or CR-10 will chemically

loosen the copper fouling, but KG2 is found to remove the copper without the use of chemical solvents which may attack barrel steel. After cleaning with chemical solvents, neutralize the solvents with denatured alcohol or oil and patch dry. If using KG 2 or any other micro abrasive product, use KG 3 solvent to flush out the bore, spraying from the breech with muzzle end down. Always finish with a wet patch using a quality gun oil. Never shoot a dry bore (chemically stripped) as this will greatly promote copper fouling. Clean the chamber with a cloth chamber mop, not a GI chamber brush.

SPECIAL NOTE FOR POLYGONAL BARRELS:

Polygonal barrels will be marked with the twist rate followed by a capital "P" for example, 7P, 8P, and soon. Polygonal rifling does not have the steep sides to the lands as a standard barrel does, therefore the cleaning brush may not track with the twist of the rifling. Barrels marked 7PT will be easier to clean than 7P. 7PT Rifling is an improvement which aids in the brush tracking with the rifling. The cleaner must install the brush to the rod tightly; holding the rod between the fingers using both hands. Push the rod in while twisting it to the right, (clockwise). You will feel the rod twist. Be sure not to let the brush skip over the lands. Once you push the brush through, remove the brush from the cleaning rod. Pull the cleaning rod out of the barrel and repeat the process. Do not pull the brush back through the barrel.

DO'S AND DON'TS OF BARREL CLEANING

Do:

- Use a good coated rod
- Use a bore guide
- Clean from chamber end
- Use a phosphorous bronze bristle brush
- Follow recommended break-in procedures (listed above)

Do Not:

- Do not pull the brush back through the crown
- Do not use a stainless bore brush
- Do not leave strong ammonia cleaning products in your bore for extended periods of time
- Do not shoot your barrel hot enough to brand cattle!

In our experience, a loss of accuracy can be linked to a dirty or fouled barrel. Barrel life and accuracy is dependent on how the barrel is used. The barrel may be damaged (shortened barrel life and/or accuracy degradation) from excessive heat caused by a high rate of fire. We are not responsible for damage to barrels caused by operator abuse.

Cleaning products can be purchased through Brownells.com. Please contact us if you have any questions regarding the break-in or cleaning of your new barrel.

Special Instructions for Noveske N4 Weapons with the Short Carrier Recoil System

CLEAR THE WEAPON

Always keep the gun pointed in a safe direction and your finger off the trigger.

1. Remove the magazine.
2. Lock the bolt to the rear.
3. Inspect the chamber to ensure it is empty.
4. Let the bolt go forward and put the selector on safe.



CAUTION: Use care during disassembly. The action spring is under tension and there is no buffer retainer on N4 weapons with the Short Carrier Recoil System.



DISASSEMBLY

1. Push in the pivot pin (front pin).
2. Push in the takedown pin while holding both the upper and lower receiver together. Caution, the action spring is under tension and there is no buffer retainer.
3. Remove the upper receiver by pulling it up and forward at about 45 degrees from the lower.
4. Remove the buffer and action spring from the upper receiver.

Further disassembly is done in the same manner as a standard N4/M16.

REASSEMBLY

Reassembly is in reverse order.

SHIPPING & RETURNS

SHIPPING

Our standard shipment is UPS Ground, insured. Signature Required is automatically selected for any package \$200.00 and over.

UPS Next-Day, 2nd Day, and 3rd day shipping are optional, actual charges will apply. All orders must be in before 2:00 p.m. Pacific time to be able to go 3 Day Select, Second Day, Next Day. Any order received after will go out the next business day.

UPS tracking numbers are provided via email automatically at the time of shipment.

Delivery intercept to a different address than on the original order is only available for UPS packages and costs \$13.00 per package. The fee will be waived for "will call" pick up at the local UPS hub or if the change of address is needed due to our error.

We do not process credit card numbers until the actual time of shipment.

We ship to APO addresses via USPS priority. We ship to physical US and US APO addresses only.

We do our best to ship orders within 72 HOURS if they are in stock, however it is NOT guaranteed. Freight Policy:

Noveske Rifleworks LLC ships via UPS Ground Service unless instructed otherwise. Requests for expedited service or other shipping instructions must be made at time of order. A fee of \$25 will be added to all drop-ship orders.

RETURN POLICY

All custom work completed by Noveske Rifleworks LLC is considered a final sale and not eligible for returns or refunds.

All products returned to Noveske Rifleworks LLC must have a Return Merchandise Authorization Number (RMA) issued by Noveske Rifleworks LLC clearly marked on shipping carton or shipment may be refused. Call Noveske Rifleworks LLC for an RMA and shipping instructions before returning any merchandise.

Products ordered in error may be returned to NOVESKE RIFLEWORKS LLC if a request is made within 30 days of receipt of order. All products returned must be in new, unused condition in the original packaging. Return freight must be pre-paid. A 10% Restocking fee will be deducted from the credit issued.

Products shipped in error by NOVESKE RIFLEWORKS LLC. May be returned if a request is made within 60 days of receipt of order. A credit or replacement will be issued at the original price paid including all freight.

Shipping cost both to and from Noveske Rifleworks LLC are the customers responsibility.



HOW TO MAKE A RETURN

To make a return, please take the following steps:

- Please contact us first at 541-479-6117 or email us at www.noveske.com
- Ship the item back in the original packaging. If that is not possible, please wrap the item in bubble wrap or other quality padding and place in an appropriate box. The item must be securely wrapped inside the box during transport as we cannot be responsible for shipping damages, and please obtain tracking information in case the package is lost in transit.
- Include a note containing all contact info including your name, shipping address, phone number and email, and reason for the return (include as much information about the firearm, ammo, and usage environment for defective returns). Please include a copy of the receipt if possible as well.
- Packages must be returned prepaid by the customer- we do not accept COD packages.

All refunds will be applied to the credit card used for the original purchase or, if the product was purchased elsewhere, store credit will be issued. You should allow one to two billing cycles for the refund to appear on your statement.

Send all returns and exchanges to:
Noveske Rifleworks LLC
ATTN: (ISSUED RMA #)
594 NE E Street | Grants Pass, OR 97526

SUBMISSION OF ORDERS

Orders can be placed by phone, online or through one of our many dealers and distributors listed on our website. All major Credit Cards and US Government Credit Cards are accepted. We do not process credit cards until actual item(s) are in-stock and ready to ship. Military and US Law Enforcement Pricing is available for both agencies and individuals. Email or call for a quote.

PAYMENT

All orders must be paid in advance. No open accounts. We accept Cashiers Check, Money Orders and all major credit cards. All NFA items require a 50% Deposit once forms are submitted. A 10% Restocking fee will be charged if order is canceled prior to shipping. All Custom/Modified orders must be paid for BEFORE item will be built.

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Noveske Rifleworks LLC is veteran owned and operated.

CONTACT NOVESKE FOR REPLACEMENT PART NUMBERS

PART	RECREATIONAL USE	MILITARY/LE/ SELF DEFENSE
Gas Tube	WHEN FAILS	5,000 ROUNDS
Extractor	WHEN FAILS	5,000 ROUNDS
Gas rings	10,000 ROUNDS	5,000 ROUNDS
Bolt	WHEN FAILS	5,000 ROUNDS
Extractor spring/ insert/o-ring	15,000 ROUNDS	5,000 ROUNDS
Ejector spring	15,000 ROUNDS	5,000 ROUNDS
Barrel	25,000 ROUNDS	10,000 ROUNDS
Action spring	15,000 ROUNDS	5,000 ROUNDS



