



OPERATING AND SAFETY INSTRUCTIONS MANUAL

**WARNING: BEFORE USING THIS PRODUCT,
READ AND FOLLOW THESE INSTRUCTIONS**

Manual Reference # WAR LOCK MODELS OSIM March 2020-Rev A

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[Introduction to the War Lock™](#)

All of us here at Frontier Tactical™ would like to personally thank you for purchasing the War Lock™ Multiple Caliber System. We are a veteran owned and operated, U.S. Manufacturer of high quality products. Your purchase from us enables our continued innovation and growth. It is truly appreciated, and we wanted you to know that.

The War Lock™ is a truly unique product that creates true modularity for the AR platform. With the War Lock™ installed, your AR is capable of transitioning through many different barrel system combinations. With each barrel system, there can be a change in caliber, length, twist, finish and/or different accessories. You get to decide.

You will never be saddled with special tools or proprietary parts after installation. We have achieved a great engineering feat to accomplish this task, while creating an adapter that fits in the footprint of a traditional barrel nut.

The War Lock™ is an entirely new concept, but with a firm foundation in the values of our venerable manufacturing in America. We believe in manufacturing the highest quality products. We believe in using the highest quality materials. We are PROUD to do all of this while delivering the most skilled craftsmanship in a manner that leaves this planet better for our children. We are committed to manufacturing products with multiple lifetimes of service.

We do things differently at Frontier Tactical™ because we are different. That's why we're "Departing from the known".

[Parts Diagram Checklist](#)

It is important to us that you receive what you purchased without issue EVERY TIME. We do everything within our control to make sure your order is complete before shipping. Please assist us by taking a few moments to check that all of your parts have been included in your order before attempting the installation of the War Lock™ on your AR.

You should have the following parts (Type 2 and 3 free float adapters are similar to BAA1, but do not come with HRA):

Receiver Adapter Assembly (SKU # RAA)



Type 1 Barrel Adapter Assembly (SKU # BAA1)



Type 2 Barrel Adapter Assembly (SKU # BAA2)



Type 3 Barrel Adapter Assembly (SKU # BAA3)



Installation Fixture (Part # NFIX)



Transportation and Storage Cap (Part # TSC)



Handguard Retainer Assembly (Part # HRA)



[Installation and Removal Instructions](#)

[Receiver Adapter Assembly](#)

Tools needed:

Upper receiver action block (clamping style is recommended)
Workbench with bench vise
AR-15 barrel wrench with torque wrench capability
Calibrated torque wrench
5% molybdenum disulfide grease (recommended)
Latex or nitrile gloves
Applicator brush for grease

Components needed:

AR-15 upper receiver
War Lock™ Receiver Adapter Assembly (SKU # RAA); consisting of:

- Lock Collar Assembly
- Receiver Adapter
- Lock Ring

AR gas tube (rifle or carbine) or a # 14 twist drill (0.182 inch)



WARNING

Visually inspect and physically confirm that your firearm is unloaded before installing the War Lock™. Remove and secure all ammunition away from the work area. Frontier Tactical™ recommends that a qualified gunsmith or armorer installs your War Lock™.

By installing your own War Lock™, you acknowledge that you have read all instructions and warnings, and assume any and all liability for any injury or damage that may occur.

READ ALL INSTRUCTIONS BEFORE INSTALLATION.

Installation of the War Lock™ may void other manufacturer warranties. Do not attempt any firearms modifications if you are not comfortable with the steps, fully understand the process and warnings, or if you are under the influence of any substance.

[Initial Installation of the War Lock™ Receiver Adapter Assembly](#)

1. Following the instructions provided by the upper receiver action block manufacturer, clamp the AR upper receiver in the bench vise. Allow plenty of room to maneuver the barrel wrench and torque wrench.
2. Using the latex/nitrile gloves and an applicator brush, apply the molybdenum disulfide grease to the threads of the AR upper receiver. The molybdenum grease should contain no more than 5% molybdenum. A greater percentage can change the torque specifications. Do not use grease that contains graphite. Graphite is known to increase corrosion on aluminum. Application of molybdenum disulfide grease will help to attain the correct torque specification WITHOUT the jumping, jerking, or chattering of the threads at the higher torque limits. This undesirable possibility is increased by installing the War Lock™ Receiver Adapter onto dry threads. It takes only a fraction of the torque from 50-60 ft-lb

to exceed the maximum 80 ft-lb (108 N-m); something “accidentally achieved” by a “bump” from the threads tightening suddenly. Remove and responsibly discard the gloves and brush before proceeding to step 3.

3. Assemble the Lock Collar Assembly and the Receiver Adapter together by inserting the Receiver Adapter into the Lock Collar Assembly. Confirm that the Lock Collar Assembly threads are away from the AR upper receiver, and the Receiver Adapter flange is toward the receiver. Thread the Lock Ring into the Lock Collar Assembly. Then thread the Lock Collar Assembly and the Receiver Adapter onto the AR upper receiver until it is hand tight. **DO NOT CROSSTHREAD THE LOCK COLLAR/LOCK RING.** Confirm that the Lock Collar Assembly is not pinched between the upper receiver and that the Receiver Adapter spins free without binding.



4. Make sure all barrel wrench lugs are fully seated in the Receiver Adapter clearance holes before tightening. Using the AR barrel wrench and calibrated torque wrench, tighten the Receiver Adapter to 30 ft-lb (40.5 N-m). Torque is measured when both wrenches are used together.
5. Using **ONLY** the barrel wrench (not the torque wrench), loosen the Receiver Adapter.
6. Repeat steps 4 and 5 for a total of **THREE** tightenings and loosening of the Receiver Adapter to the AR upper receiver.

NOTE

The procedure for torquing three times provides for a better thread fit and prevents the Receiver Adapter from loosening.

7. Torque the Receiver Adapter again to 30 ft-lb (40.5 N-m). The Receiver Adapter may be tightened beyond 30 ft-lb (40.5 N-m) to align the clearance holes for proper gas tube alignment. Never loosen the Receiver Adapter for gas tube alignment. Go to the next hole.
8. Check the alignment of the Receiver Adapter with the upper receiver. The front 8 inches (20.32 cm) of an AR gas tube can be used as an alignment aid. Insert the tube into the bolt carrier key and then insert the carrier/tube combination into the rear of the receiver. If the Receiver Adapter clearance hole is

properly aligned, the tube will pass freely through and not be angled to either side. If required, the Receiver Adapter should be tightened to the next hole to achieve proper alignment.

Do not torque over 80 ft-lb (108 N-m).

9. This completes the INITIAL INSTALLATION.

Upon completion of the INITIAL INSTALLATION, the War Lock™ Receiver Adapter Assembly should only need to be removed for warranty service or repair.

[Removal of the War Lock™ Receiver Adapter Assembly](#)

WARNING

Visually inspect and physically confirm that any installed barrel assembly is unloaded and clear before removal of the War Lock™. Remove and secure all ammunition away from the work area.

1. Unlock and separate the barrel assembly from the upper receiver. Set the barrel assembly aside.
2. Following the instructions provided by the upper receiver action block manufacturer, clamp the AR upper receiver in the bench vise. Allow plenty of room to maneuver the barrel wrench.
3. Using the barrel wrench, remove the War Lock™ Receiver Adapter Assembly. No further disassembly is required.

[Barrel Adapter Assembly \(Type 1, 2, and 3\)](#)

Tools needed:

Installation Fixture
Workbench with bench vise
1/16" Hex/Allen key (Type 1)
3/32" Hex/Allen key (Type 2)
Thread locking compound (optional)
JB Weld Bedding Compound (Type 3)

Components needed:

Stripped, non-proprietary AR barrel (caliber, length, twist, finish and other specifications are dependent on user preferences)
War Lock™ Barrel Adapter Assembly (Type 1, 2, or 3)
AR gas tube (rifle or carbine) or a # 14 twist drill (0.182 inch)

WARNING

If using a drill bit, be very careful to avoid cutting yourself during this installation process. Wrapping the cutting edges with tape can protect your fingers from injury.

WARNING

Visually inspect and physically confirm that your firearm is unloaded before installing the War Lock™. Remove and secure all ammunition away from the work area. Frontier Tactical™ recommends that a qualified gunsmith or armorer installs your War Lock™.

By installing your own War Lock™, you acknowledge that you have read all instructions and warnings, and assume any and all liability for any injury or damage that may occur.

READ ALL INSTRUCTIONS BEFORE INSTALLATION.

Installation of the War Lock™ will likely void other manufacturer warranties. Do not attempt any firearms modifications if you are not comfortable with the steps, fully understand the process and warnings, or if you are under the influence of any substance.

[Initial Installation of the War Lock™ Type 1 Barrel Adapter Assembly](#)

1. Clamp the Installation Fixture into your bench vise with the machined surface facing upward. There are four positions available to use for installing barrels. If one position becomes worn from extended use, you may use any of the other positions on the Installation Fixture.



2. Insert the stripped AR barrel into the Installation Fixture. Check that the barrel alignment pin is fully seated in the corresponding Installation Fixture alignment slot. Push the barrel into the Installation Fixture until the barrel is fully seated.



3. Ensure the Barrel Adapter Assembly set screws are backed out far enough that they do not interfere when sliding over the barrel. Slide the Barrel Adapter Assembly onto the stripped barrel. Confirm the dowel pin lugs are to the barrel extension end, and set screws are to the muzzle end of the barrel. Keep the Barrel Adapter Assembly gas tube hole at the Top Dead Center (TDC) location. This is the same position you selected when choosing the slot the barrel extension pin uses. They must be aligned together.



4. Fully seat the Barrel Adapter Assembly into the Installation Fixture. Press down on Barrel Adapter Assembly throughout the installation process to ensure it remains against the face of the Installation Fixture. Check again to confirm that the Barrel Adapter Assembly gas tube clearance hole remains Top Dead Center (TDC).



5. Insert the #14 drill bit (non-cutting end) or AR-15 gas tube (gas block end, not receiver end) into the gas tube hole of the Barrel Adapter Assembly to align it Top Dead Center (TDC) with the Installation Fixture and barrel extension pin.



WARNING

If using a drill bit, be very careful to avoid cutting yourself during this installation process. Wrapping the cutting edges with tape can protect your fingers from injury.

6. The drill bit or gas tube should slide free in the gas tube clearance hole during the entire installation process.



7. Type 1 Only - Using the 1/16" Allen/Hex key loosely between your fingers, lightly take up the distance up to the barrel on all four set screws. Set screws should be done alternately (such as when tightening lug nuts on an automobile). Do not tighten yet. They should just touch the barrel.



8. Recheck that the drill bit or gas tube slides free and does not bind. Press down on Barrel Adapter Assembly throughout the installation process to ensure it remains against the face of the Installation Fixture.



9. Begin alternately tightening the set screws approximately 1/8 turn at a time.



10. Keep checking the free movement of the drill bit or gas tube during this tightening process. The drill bit or gas tube must not bind up. If it becomes bound during the process, lightly loosen individual set screws until it becomes free again. Once free, move directly to the opposite set screw that you loosened and tighten it. Then continue tightening set screws until they are all secure. There is no torque specification on the set screws. When they stop turning the knurled tips are fully engaged.

11. Continue building your Barrel Assembly as it would traditionally be completed (gas block, handguards, muzzle device, etc).



NOTE

It is recommended to occasionally check the tightness of the set screws over the life of the system. Retighten the set screws if the barrel assembly ever feels loose. Loose set screws will not affect the safety of the War Lock™ system. The set screws are not part of the engineered interlocking mechanism; but will affect the rigidity of attached rails or handguards.

NOTE

The Installation Fixture should be used when installing muzzle devices on your barrel. Attempting to use the upper receiver will likely result in damage to your upper receiver. As torque is applied to the muzzle device, the steel pin in the barrel extension can crush the aluminum milled slot (keyway). The Installation Fixture is designed to be sacrificial in case of damage. That is the purpose of the four individual positions milled and drilled into the Installation Fixture.



NOTE

Special fitting may be required for “after-market” AR components, parts and accessories. Frontier Tactical™ works diligently to make sure our products are compatible with as many components, parts and accessories as possible. Due to the almost infinite numbers of aftermarket products on the market, we cannot guarantee plug and play compatibility. Thank you for your patience and understanding.

Upon completion of the INITIAL INSTALLATION, the War Lock™ Barrel Adapter Assembly should only need to be removed for warranty service or repair.

[Removal of the War Lock™ Type 1 Barrel Adapter Assembly](#)

WARNING

Visually inspect and physically confirm that any installed barrel assembly is unloaded and clear before removal of the War Lock™. Remove and secure all ammunition away from the work area.

1. Insert the AR barrel with the Barrel Adapter Assembly you desire to remove into the Installation Fixture.
2. Disassemble the barrel assembly components (gas block, gas tube, muzzle device, rail system, et al.) as they would traditionally be removed.
3. After the barrel has been stripped of the other parts and components, loosen the set screws and slide Barrel Adapter Assembly off the stripped AR barrel. No further disassembly is required.

[Initial Installation of the War Lock™ Type 2 Barrel Adapter Assembly](#)

The Installation of the Type 2 Barrel Adapter Assembly is identical to the Type 1 Barrel adapter for Steps 1-6. After completing Steps 1-6, please follow the next steps. For the following Steps 1-4, you may refer to the Type 1 installation images.

1. Type 2 Only - Using the 3/32" Allen/Hex key loosely between your fingers, lightly take up the distance up to the barrel on all eight set screws. Set screws should be done alternately (such as when tightening lug nuts on an automobile). Do not tighten yet. They should just touch the barrel.
2. Recheck that the drill bit or gas tube slides free and does not bind. Press down on Barrel Adapter Assembly throughout the installation process to ensure it remains against the face of the Installation Fixture.
3. Begin alternately tightening the set screws approximately 1/8 turn at a time.
4. Keep checking the free movement of the drill bit or gas tube during this tightening process. The drill bit or gas tube must not bind up. If it becomes bound during the process, lightly loosen individual set screws until it becomes free again. Once free, move directly to the opposite set screw that you loosened and tighten it. Then continue tightening set screws until they are all secure. There is no torque specification on the set screws. When they stop turning the knurled tips are fully engaged.
5. Install your handguard on the Type 2 Barrel Adapter Assembly, and check that the handguard is correctly aligned. If the alignment is correct, continue to Step 6. If it is not correct, adjust the eight set screws to bring it into proper alignment. When properly aligned, snug down the eight set screws.



6. Continue building your Barrel Assembly as it would traditionally be completed (gas block, muzzle device, handguards, etc).

[Removal of the War Lock™ Type 2 Barrel Adapter Assembly](#)

WARNING

Visually inspect and physically confirm that any installed barrel assembly is unloaded and clear before removal of the War Lock™. Remove and secure all ammunition away from the work area.

1. Insert the AR barrel with the Barrel Adapter Assembly you desire to remove into the Installation Fixture.
2. Disassemble the barrel assembly components (gas block, gas tube, muzzle device, rail system, et al.) as they would traditionally be removed.
3. After the barrel has been stripped of the other parts and components, loosen the set screws and slide Barrel Adapter Assembly off the stripped AR barrel. No further disassembly is required.

[Initial Installation of the War Lock™ Type 3 Barrel Adapter Assembly](#)

The Type 3 barrel assembly was designed and tested to be a universal freefloat adapter for almost every AR15 handguard on the market. To accomplish this, we tested bedding compounds used in bolt action rifle, free-floating applications. After heavily testing different compounds (Acraglas, Devcon, and JB Weld), we selected JB Weld for its solid bedding, ease of use, and its availability to the average consumer. Most hardware stores carry JB Weld, so you will be able to get some quickly if you are in a pinch.

Tip – You may want to use one of several “release agents” found on the internet (shoe polish, etc.) to coat any surface the bedding compound may come in contact with.



1. Clamp the Installation Fixture into your bench vise with the machined surface facing upward. There are four positions available to use for installing barrels. If one position becomes worn from extended use, you may use any of the other positions on the Installation Fixture.



2. Insert the stripped AR barrel into the Installation Fixture. Check that the barrel alignment pin is fully seated in the corresponding Installation Fixture alignment slot. Push the barrel into the Installation Fixture until the barrel is fully seated.



3. Follow the JB Weld manufacturer's recommendations for cleaning the bonding surfaces (inside of Type 3 barrel adapter, and outside diameter of barrel over the chamber). We recommend using acetone or alcohol to ensure bonding surfaces are clean.
4. Follow the JB Weld manufacturer's recommendations for mixing and apply the JB Weld to the inside of the barrel adapter.



5. Install the barrel adapter onto the stripped barrel. Confirm the dowel pin lugs are to the barrel extension end, and set screws are to the muzzle end of the barrel. Keep the Barrel Adapter Assembly gas tube hole at the Top Dead Center (TDC) location. This is the same position you selected when choosing the slot the barrel extension pin uses. They must be aligned together.



6. Fully seat the Barrel Adapter Assembly into the Installation Fixture. Press down on Barrel Adapter Assembly throughout the installation process to ensure it remains against the face of the Installation Fixture. Check again to confirm that the Barrel Adapter Assembly gas tube clearance hole remains Top Dead Center (TDC).

7. Insert the #14 drill bit (non-cutting end) or AR-15 gas tube (gas block end, not receiver end) into the gas tube hole of the Barrel Adapter Assembly to align it Top Dead Center (TDC) with the Installation Fixture and barrel extension pin.

WARNING

If using a drill bit, be very careful to avoid cutting yourself during this installation process. Wrapping the cutting edges with tape can protect your fingers from injury.

8. The drill bit or gas tube should slide free in the gas tube clearance hole during the entire installation process.



9. Ensure the barrel adapter is flush to the installation fixture and clamp the barrel adapter to the fixture. Leave enough room between the clamps and the barrel adapter to install your barrel nut AND your handguard.



10. Test fit your barrel nut and handguard to ensure it is properly aligned to the barrel. If the alignment is correct, continue to Step 11. If it is not correct, adjust the clamps to bring it into proper alignment. When properly aligned, snug down the clamps.



11. Remove handguard and barrel nut from the barrel adapter assembly. Wipe off any excess JB Weld from all exposed surfaces. Any bedding compound that is not removed, will cure and harden. Allow the bedding compound to fully cure for the recommended 24 hours before any more handling.

12. After the 24-hour curing step is complete, remove clamps and take complete barrel assembly out of the installation fixture. You may need to tap the complete barrel assembly with a soft-faced mallet/hammer to release the assembly. Be careful not to hit your gas tube.

13. Inspect the complete barrel assembly for any visible JB Weld. Any excess bedding compound that has hardened near or around the barrel extension or gas tube areas should be removed to prevent any interference with the function of your War Lock system. This bedding compound is very hard and may need to be removed with a pick or punch to chip it away.

The JB Weld bedding compound is considered to be a “semi-permanent” installation. Their product begins to break down at 550-600 degrees Fahrenheit. It is possible to remove, but this extreme heat is outside of our recommendation for AR-15 components.

[Operation of the War Lock™](#)

Your War Lock™ has been designed and manufactured with ease of use, ergonomics, function, modularity, and quality in mind. No special tools are required. You will need a basic understanding of the AR platform and the War Lock™. Frontier Tactical™ recommends that you research the internet for informative videos on assembling AR platforms from parts. Our favorites are the videos at Brownells.com. [Brownells How to Build an AR Video Series](#) Other sources for AR education can be found on Youtube.com and other sites, but Frontier Tactical™ cannot recommend any of them specifically.

Now we'll focus on educating you about your new War Lock™ Multiple Caliber System.

The War Lock™ is essentially an adapter that replaces the barrel nut assembly on the AR-15 platform. Once initially installed, this adapter allows the user to quickly change the barrel systems without special tools. The ability to change barrels opens the door to true modularity in the AR platform; as the barrel holds the chamber, and the chamber determines the caliber.

To change barrels on a War Lock™ installed AR, a basic understanding of the parts and components is needed. Let's get familiar with them.

[The Lock Collar Assembly](#)

The Lock Collar Assembly is made up of the Lock Collar, the Locking Pin, the Locking Pin Spring, and the Spring Retainer. The Lock Collar Assembly is the component that tightens the barrel to the upper receiver. The Locking Pin engages the Lock Ring to lock and unlock the Barrel Adapter Assembly. It was engineered with a robust gripping surface to allow for an average person to sufficiently tighten the War Lock™ by hand. It also has specially designed grooves, to allow for the use of a common adjustable hook spanner wrench (optional) for use when grip strength or surface conditions (oil, mud, freezing temperatures, etc) doesn't allow enough force to adequately tighten the War Lock™.



[The Receiver Adapter](#)

The Receiver Adapter is designed to thread onto the upper receiver and capture the Lock Collar Assembly. It's the foundation that the rest of the War Lock™ is built around. By creating a fixed reference point, the War Lock™'s other components can offer the necessary adjustment required to accommodate different manufacturer's barrels.



[The Lock Ring](#)

The Lock Ring is the engineering marvel that is the heart of the War Lock™. The Lock Ring spins freely on the Receiver Adapter. Half of the Lock Ring has been threaded to screw into the Lock Collar Assembly. The other half features milled slots to engage the dowel pin lugs of the Barrel Adapter Assembly.

Of importance to note on the Lock Ring, are the FOUR slots milled into the outside of the threaded end. These four slots are provided for the Locking Pin to engage and disengage the Lock Ring. The provision was made so that the Lock Ring can be engaged with a simple quarter turn in either direction. This makes it quick and easy to find a slot for the Locking Pin to use.



The Lock Ring provides the mechanical interlock between the AR upper receiver and your barrel assembly.

[The Barrel Adapter Assembly \(Type 1, 2, and 3\)](#)

The Barrel Adapter Assembly completes the union between your AR, the War Lock™, and your barrel assembly. It is designed with EIGHT hardened dowel pin lugs that engage the milled slots of the Lock Ring. Once engaged, the Receiver Adapter Assembly draws the Barrel Adapter Assembly and your barrel tightly to the upper receiver.

You may have noticed the FOUR set screws in the Type 1 Barrel Adapter Assembly, with EIGHT on the Type 2 Barrel Adapter Assembly. These knurled tip set screws are part of the [Initial Installation](#) process and help to provide a solid, repeatable experience when barrel assemblies are removed and switched between your War Lock™ installed AR receiver. These set screws also work to keep rail systems and handguards secure once mounted to the Barrel Adapter Assembly. Frontier Tactical™ recommends that thread locking compound be used on the set screws. Optionally, you may want to make dimples in your barrel to provide the set screws with extra “bite” to help them do their job.



[Switching barrel assemblies](#)

Switching between multiple calibers requires War Lock™ installed barrel assemblies and receivers. Once the War Lock™ has been Initially Installed, the following steps can be followed to switch between barrel assemblies.

It is important to note that the AR is capable of firing MANY different calibers. However, it is not commonly known that some calibers require using not only a different barrel, but a different bolt and/or a different magazine. Some calibers can also require different buffers, buffer springs, magazine blocks or entire bolt carrier assemblies.

WARNING

Visually inspect and physically confirm that any installed barrel assembly is unloaded and clear before removal of the War Lock™. Remove and secure all ammunition away from the work area.

1. Place the AR selector lever on SAFE.
2. Remove the magazine. Getting into the habit of removing the magazine is good practice. It removes the possibility of forgetting to put the magazine with the “new caliber” ammunition back in later. Adding this step for safety makes sense.
3. Lock the bolt to the rear of the action and ensure the chamber is clear.
4. Turn the Lock Collar to unscrew the War Lock™.
5. Rotate the Lock Collar one full turn, then place light pressure on the Locking Pin while continuing to loosen the Lock Collar.
6. When the Locking Pin engages the Lock Ring slot, fully depress the Locking Pin and continue rotating in the same direction to unlock the War Lock™. The locking and unlocking requires less than a 1/4” of movement in either direction once the Locking Pin is engaged.
7. You may now remove the entire barrel assembly from the AR upper receiver by pulling it away from the AR.
8. Install the new barrel assembly by lining the gas tube Top Dead Center (TDC) to the Top Dead Center (TDC) Receiver Adapter gas tube clearance hole and inserting the barrel extension into the receiver.
9. Align the Barrel Adapter Assembly dowel pin lugs with the matching milled slots on the Lock Ring. Fully seat the barrel assembly into the AR.
10. Tighten the Lock Collar while placing light pressure on the Locking Pin.
11. When the Locking Pin engages the Lock Ring slot, fully depress the Locking Pin and continue rotating in the same direction to lock the War Lock™. The locking and unlocking requires less than a 1/4” of movement in either direction once the Locking Pin is engaged.
12. Release the Locking Pin and continue to tighten the Lock Collar until it will not tighten any more.
13. Attempt to pull barrel assembly out of the AR receiver. It should not move.
14. If the barrel assembly comes out, back the Lock Ring out of the Lock Collar one or two full revolutions and repeat steps 8 through 13. Don’t worry, it’s going to take a little practice to get it down.
15. Your new barrel assembly is now ready to go.

WARNING

It is very important that you physically check to ensure the barrel is locked after every barrel change, but BEFORE firing. There should be NO movement between the barrel or the upper receiver. If you feel any play, stop and recheck the locking mechanism.

WARNING

For potential safety purposes, Frontier Tactical™ recommends that you only use the same bolt with the barrel it is headspaced to. Mixing bolts and barrels may be a recipe for an accident.

[Switching barrel assemblies that require different bolts](#)

WARNING

Visually inspect and physically confirm that any installed barrel assembly is unloaded and clear before removal of the War Lock™. Remove and secure all ammunition away from the work area.

1. Place the AR selector lever on SAFE.
2. Remove the magazine. Getting into the habit of removing the magazine is good practice. It removes the possibility of forgetting to put the magazine with the “new caliber” ammunition back in later. Adding this step for safety makes sense.
3. Lock the bolt to the rear of the action and ensure the chamber is clear.
4. Turn the Lock Collar to unscrew the War Lock™.
5. Rotate the Lock Collar one full turn, then place light pressure on the Locking Pin while continuing to loosen the Lock Collar.
6. When the Locking Pin engages the Lock Ring slot, fully depress the Locking Pin and continue rotating in the same direction to unlock the War Lock™. The locking and unlocking requires less than a 1/4” of movement in either direction once the Locking Pin is engaged.
7. You may now remove the entire barrel assembly from the AR receiver by pulling it away from the AR.
8. After removing the barrel assembly, separate the AR upper and lower receivers. This can be done by pulling one or both receiver takedown pins.
9. Remove the bolt carrier assembly and follow your AR rifle manufacturer’s instructions to change out the bolt. Frontier Tactical™ suggests having a complete bolt carrier assembly for each different bolt. This minimizes the need to frequently change out bolts; thereby reducing the possibility for a dangerous mix up with caliber changes.
10. With the correct new bolt in the upper receiver, reassemble the AR upper and lower receiver.

11. Install the new barrel assembly by lining the gas tube Top Dead Center (TDC) to the TDC Receiver Adapter gas tube clearance hole and inserting the barrel extension into the receiver.
12. Align the Barrel Adapter Assembly dowel pin lugs with the matching milled slots on the Lock Ring. Fully seat the barrel assembly into the AR.
13. Tighten the Lock Collar while placing light pressure on the Locking Pin.
14. When the Locking Pin engages the Lock Ring slot, fully depress the Locking Pin and continue rotating in the same direction to lock the War Lock™. The locking and unlocking requires less than a 1/4" of movement in either direction once the Locking Pin is engaged.
15. Release the Locking Pin and continue to tighten the Lock Collar until it will not tighten any more.
16. Attempt to pull barrel assembly out of the AR receiver. It should not move.
17. If the barrel assembly comes out, back the Lock Ring out of the Lock Collar one or two full revolutions and repeat steps 11 through 16. Don't worry, it's going to take a little practice to get it down.
18. Your new barrel assembly and bolt combination is now ready to go.

WARNING

It is very important that you physically check to ensure the barrel is locked after every barrel change, but BEFORE firing. There should be NO movement between the barrel or the upper receiver. If you feel any play, stop and recheck the locking mechanism.

[Safety of the War Lock™](#)

Your safety is always our concern, and we want to give you the knowledge needed to keep you safe when installing, using or removing the War Lock™ Multiple Caliber System.

[Headspacing](#)

Frontier Tactical™ recommends that you check the headspace of every barrel with calibrated headspace gages every time you change barrels. The AR platform design is extremely safe with regard to mitigating potential headspace issues. However, we don't see any good reason to take unnecessary risks.

Headspace on the AR platform is determined by the dimensions and interlocking connection between the bolt and the barrel extension, NOT between the barrel and the upper receiver. For this reason, the War Lock™ Multiple Caliber System should never have an effect on the headspacing of your firearm. We still recommend that headspace checks are performed to rule out components from other sources. Your safety matters to us.

For potential safety purposes, Frontier Tactical™ recommends that you only use the same bolt with the barrel it is headspaced to. Mixing bolts and barrels may be a recipe for an accident.

[Testing](#)

All of our products are inspected as part of our rigorous quality program. This process includes certified Non-Destructive Testing (NDT) from an independent third party that specializes in NDT. In addition, we thoroughly inspect our own parts in our own machine shop using precision metrology. We make our own product which we test randomly and meticulously.

[Quality](#)

Safety of our products hinges heavily on the quality of our materials and the skill in our craftsmanship. We don't cut corners or sacrifice in either of these. The War Lock™ is machined out of a solid block of 1045 steel before it is sent to NDT and finished in black oxide. This proven industrial process has an extensive, proven history in creating high strength parts with excellent resistance to corrosion and wear. Every product we make is made and assembled in the USA. We take pride in crafting world-class products that last a REALLY long time.

[Multiple Calibers](#)

This is one subject that we hope you take seriously. Changing calibers on your AR platform requires your attention. It means that you need to select the correct barrel assembly, bolt, magazine and ammunition EACH time you change calibers. With proper planning and good practices, this can be done very safely.

This owner's manual cannot cover every potential issue with mixing the wrong caliber ammunition, barrel, magazine, or bolt combination. It is up to the user to safely operate their firearm in accordance with the manufacturer specifications for those components. Frontier Tactical™ is not liable for damage, injury, or liability due to the misuse or mixing of improper caliber components. Frontier Tactical™ recommends creating your own system to keep each component, system and caliber separate from the components of dissimilar systems (we recommend color coding, numbering, labeling, individual gear bags/boxes, etc).

This potential for a safety concern may seem tremendous or daunting, but keep in mind that many people own multiple firearms chambered in different calibers; with the corresponding ammunition for them. Keeping these firearms and their ammunition from dangerous intermingling is simply one aspect of responsible firearms ownership.

[Mechanical Interlock](#)

As with any mechanical device, improper usage, maintenance, or conditions can create the potential for failure. Frontier Tactical™ has worked diligently during the engineering, research, development, and testing process to mitigate risk. We care about our customers. Our customers include our friends and family. Please become familiar with how your War Lock™ operates. You will be the first one to notice anything abnormal. If that ever occurs, immediately stop using the War Lock™ and call or email our [Technical Support](#) or 1-844-WARLOCK (927-5625).

We recommend that you frequently check the tightness of the Barrel Adapter Assembly set screws. You should also frequently check the tightness of the Lock Collar Assembly throughout the operation of firing your AR. This added step goes a long way to assure your safety.

The War Lock™ mechanical interlock does not affect headspace, which means that if there ever is a failure, it will most likely be from the AR attempting to fire out of battery. With an AR, this ordinarily results in the firing pin not striking the primer of the cartridge.

While the cartridge is feeding, but not yet fully into the chamber, the extractor spring is providing enough force to keep the extractor from getting past the cartridge rim until the round is fully stopped against the chamber. This physically separates the firing pin from the primer up to the point that the round stops against the chamber and provides enough force against the extractor spring. An AR firing out of battery usually results in that small gap between the bolt and the rear of the cartridge. You'll typically hear the "click" of the hammer, and not the "BOOM" of your AR being destroyed. All of us at Frontier Tactical™ prefer that if there ever is a problem, that it's that "click" and not a "BOOM".

[Maintenance of the War Lock™](#)

Your War Lock™ is designed to be relatively hassle-free. Simply clean it the same way you would clean the rest of your AR. We recommend brushing the War Lock™ with a mild gun cleaning solvent, wiping clean, and applying a light coat of gun oil to ensure your War Lock™ lasts you many lifetimes. It is important to keep the metal surfaces of the War Lock™ protected from surface rust.

Within the topic of maintenance, we know you'll appreciate the ease at cleaning your War Lock™ installed receiver and barrel systems. By unlocking and removing each barrel system, you now have access to the chamber that was never before possible. Gone are the days of improvised tools to get in to access the chamber for cleaning. You can now inspect your chamber fully, and do away with the silly contraptions.

We credit the refined design and high quality craftsmanship for providing us such a short section on maintenance.

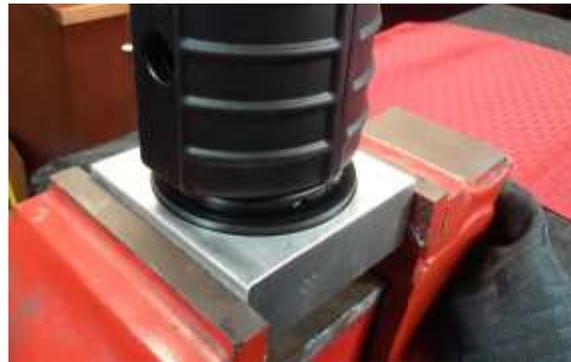
[Troubleshooting the War Lock™](#)

Due to the design of the War Lock™, there are very few problems that can happen. It is an adapter that replaces the traditional barrel nut assembly that allows for the user to change out barrel assemblies without tools. That doesn't mean problems can't occur. This section will help you self-diagnose and correct basic problems.

[My War Lock™ won't go together](#)

Alignment of the individual parts at [Initial Installation](#) is the key to iron out this wrinkle. Check that the alignment pin on the top of the barrel is vertically aligned with the gas tube. Ensure that the Receiver Adapter gas tube clearance hole is aligned with the AR upper receiver gas tube clearance hole. Improper alignment is the primary cause for the adapter to not interlock completely. This is one of many reasons that we have supplied you with the Installation Fixture. The Installation Fixture is also used as a GO/NO GO Gauge for your completed barrel assemblies.

A complete barrel assembly that has been properly assembled should easily drop into the Installation Fixture. If your barrel assembly does not readily slide into the Installation Fixture, it needs to be reinstalled for proper alignment.



Another issue may be from debris, dirt, or objects obstructing the functionality of the War Lock™. Look closely to verify that foreign objects are not obstructing the threads or locking mechanism.

If your War Lock™ is not installed or used properly, the threads may become “cross-threaded”. This can occur if the War Lock™ is not properly aligned during installation or operation. Observe the angle of the Barrel Adapter Assembly in relation to the Receiver Adapter Assembly to confirm it is not tilted or canted.

[My War Lock™ is damaged](#)

Your War Lock™ is manufactured to be exceptionally durable, but damage can occur. If your War Lock™ becomes damaged, please stop using it and contact [Technical Support](#) or 1-844-WARLOCK (927-5625) for assistance in getting replacement parts. The War Lock™ is designed to be modular so that it can be user maintained. We can replace parts; we can't replace you.

[My War Lock™ won't come apart](#)

This should never happen when used properly. If it does occur, a problem may be the causing it to operate safely. Immediately stop using the War Lock™ and contact [Technical Support](#) or 1-844-WARLOCK (927-5625) for assistance in getting your entire upper receiver to our service department. Do not attempt to remove the War Lock™ yourself, as this may further damage your upper receiver, War Lock™, barrel assembly, etc.

[My \(rail system, handguards, gas block, other component\) doesn't fit](#)

Frontier Tactical™ has worked hard to make the War Lock™ compatible with as many parts, components and accessories as possible. We are working every day to create additional adaptations to further expand our compatibility. Unfortunately, there are many manufacturers with a wide variance of dimensions, tolerances and even proprietary products. As much as we'd like to, we are unable to make the War Lock™ "plug and play" with everything on the AR market.

Special fitting may be required to get some components to fit your specific build. In other cases, compatibility just might not be possible. If you are unable to use your component with our product, please contact [Technical Support](#) or 1-844-WARLOCK (927-5625) for assistance in either getting your product to work with the War Lock™, or providing Frontier Tactical™ with information so that we may design a product to resolve this issue. We will do our best to design products to solve your problem. Your assistance also helps others who may have the same compatibility issue. By working together, everyone benefits.

[Service and warranty repair of the War Lock™](#)

We appreciate your loyalty and your trust in our company. It is our intent to provide the highest level of service to our customers. Should your War Lock™ ever need warranty repair or service, please contact [Technical Support](#) or 1-844-WARLOCK (927-5625) for immediate and attentive assistance.

[Limited Warranty](#)

LIMITED WARRANTY

IF YOUR FRONTIER TACTICAL "WAR LOCK" IS DEFECTIVE IN MATERIALS OR WORKMANSHIP, PLEASE RETURN IT, POSTAGE PAID, WITH PROOF OF PURCHASE. IT WILL BE REPAIRED OR REPLACED, FREE OF CHARGE. ANY MISUSE, IMPROPER HANDLING, INCORRECT INSTALLATION, OR FAILURE TO FOLLOW MANUFACTURER'S GUIDELINES FOR MAINTENANCE OF THIS PRODUCT WILL RESULT IN TERMINATION OF THE WARRANTY. ALL RETURNED PRODUCTS HAVE TO BE INSPECTED BY OUR SERVICE DEPARTMENT FOR PROOF OF WARRANTY APPLICABILITY.

For warranty service please return to Frontier Tactical, LLC., 316 Marianne Street, Brooksville, FL 34601. If you have any questions, please call our customer service department at 844-WARLOCK.

THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED. FRONTIER TACTICAL DISCLAIMS ALL OTHER WARRANTIES, EXPRESS AND IMPLIED, INCLUDING ANY WARRANTIES OF MERCHANTABILITY. WHERE PERMITTED BY STATE LAW, INDIRECT, INCIDENTAL, AND CONSEQUENTIAL DAMAGES ARE EXCLUDED. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE FACE HEREOF.

A competent gunsmith familiar with your firearm should install this product. FAILURE TO INSTALL THIS PRODUCT CORRECTLY VOIDS ANY WARRANTIES OF THE PRODUCT AND REMOVES ANY LIABILITIES OF THE MANUFACTURER. Be certain the firearm is unloaded and always pointed in a safe direction when working with this product or removing or inserting barrels.

TO INSURE WARRANTY COVERAGE, YOU MUST REGISTER YOUR PRODUCT WITHIN 30 DAYS OF PURCHASE BY GOING TO THE BRAND WEBSITE:

<https://www.frontiertactical.com>

[Return Instructions:](#)

All returns require a “Return Authorization Number” which can be obtained by calling Frontier Tactical directly at:

1-800-992-3771

1. Pack your return in the original shipping package, if possible.
2. Include the packing slip and return label, and indicate the reason for the return.
3. Include all original packing materials, manuals, and accessories.
4. Send your return via USPS or UPS to:

Frontier Tactical
Service and Warranty
316 Marianne Street
Brooksville, Florida 34601

You can initiate a return for most new and unopened items within 60 days of delivery for a full refund. You must return items in new or unused condition with all original materials included with the shipment. We must receive your returned items at our processing facility within 60 days of delivery. We inspect all returned items and may award a partial refund for opened or used products.

If the return is a result of our shipping or packing error, we will refund the full cost of the merchandise and shipping charges once the product is returned to us.

- A copy of the packing slip or the customer receipt must accompany all returns.
- For proof of delivery, we recommend that you return items via UPS or insured USPS.
- Merchandise must be in new condition with original packaging.
- Merchandise must be return shipped in a protective box.
- Full refund including shipping if the return resulted from our error. Otherwise, shipping costs will be deducted from your refund.
- Refund issued in the same form of payment used for purchase.
- The customer will receive a refund within 7 business days of our receipt of your return.

[Repair parts ordering information](#)

We offer all repair parts directly on our website. At Frontier Tactical™ we believe you should never have to worry about support for your War Lock™. If your War Lock™ requires warranty service or repairs, please follow the instructions listed above. If your War Lock™ requires replacement parts not covered by our warranty, please go to:

<http://www.frontiertactical.com>