

Wheeler[®] **Engineering**



DELTA SERIES

AR-15 Armorer's Essentials Kit

Product #156111 Instructions #1025769 Revision: B

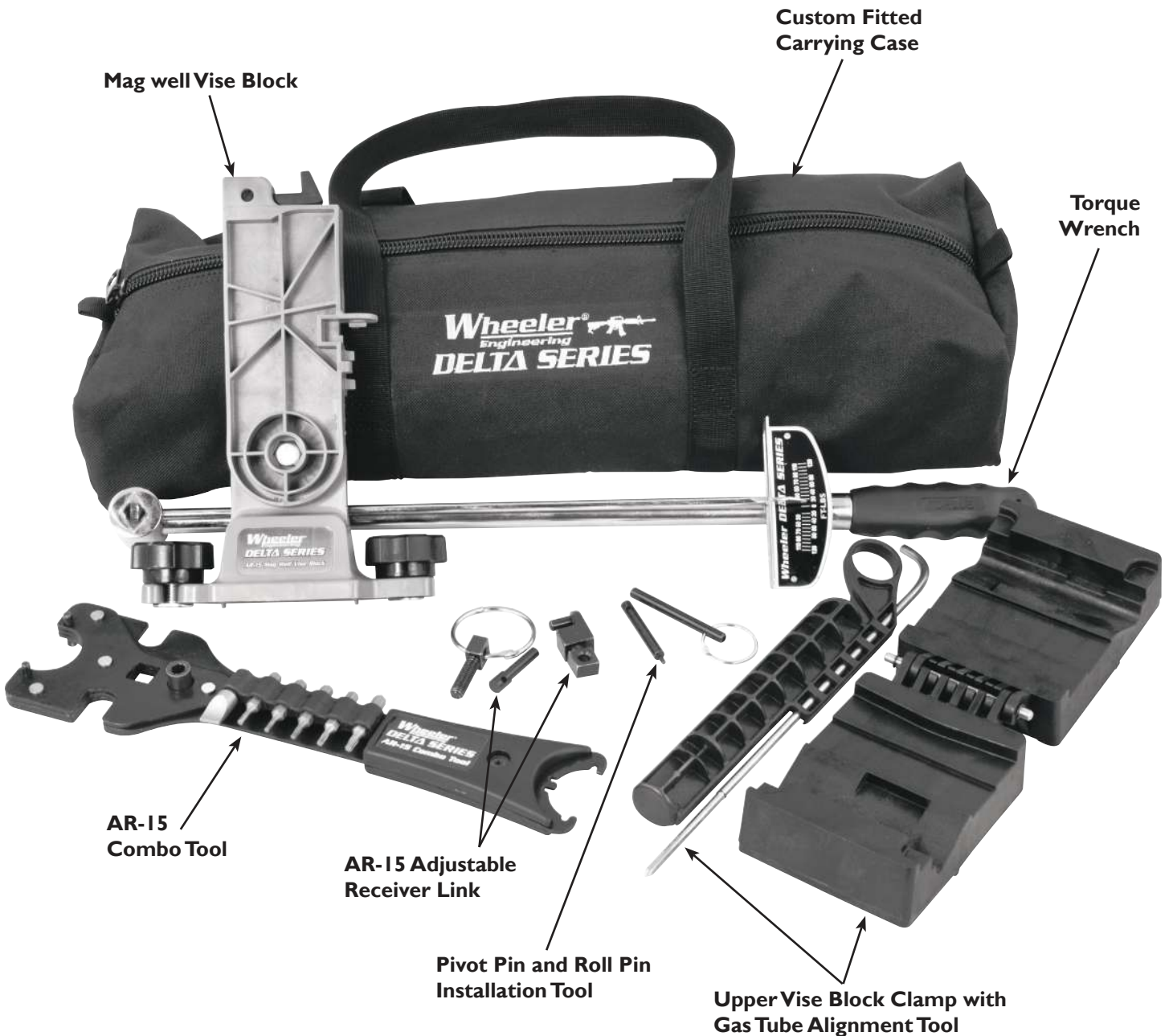


STOP!

If you have a problem with this product, **DON'T RETURN IT TO THE STORE WHERE YOU PURCHASED IT.**

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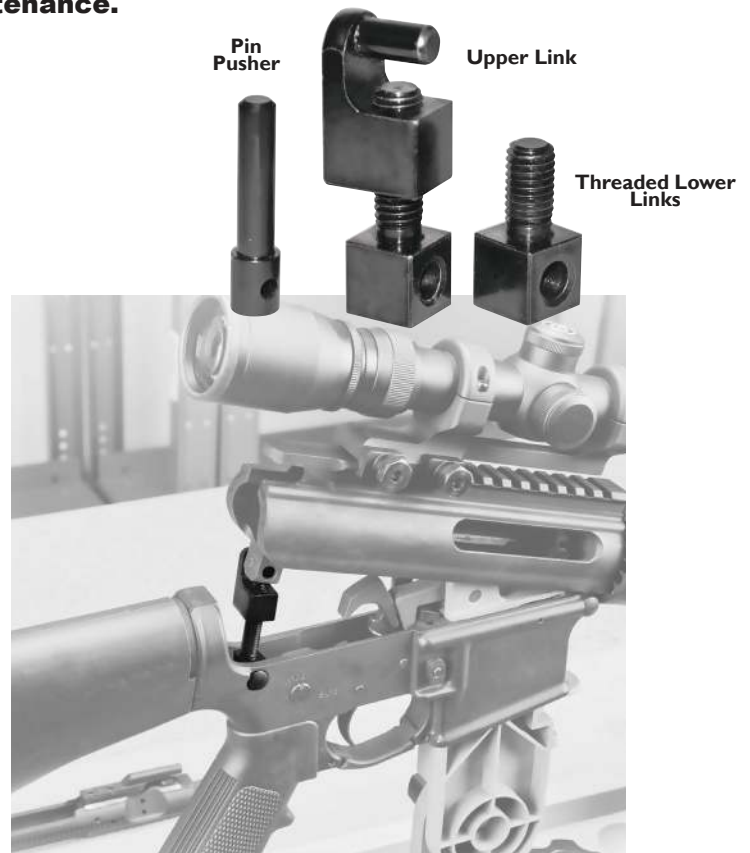


AR-15 Adjustable Receiver Link

The Adjustable Receiver Link is designed to maintain and secure the open position of your AR Upper and Lower assembly during cleaning and maintenance.

Installation:

1. Determine which threaded lower link is needed for your particular application and thread it into the Upper Link. A minimum of three revolutions of thread engagement is recommended.
2. Position your AR lower into a secure holding device. We recommend the Delta Series AR-15 Mag Well Vise Block mounted to a Tipton Best Gun Vise.
3. Depress the rear take down pin and open the receiver forward.
4. Install the Upper Link engaging the hinge pin boss of your AR Upper Receiver.
5. Make the desired length adjustments to the Lower Link and align it with your lower receiver take down pin and press the pin fully through the lower.

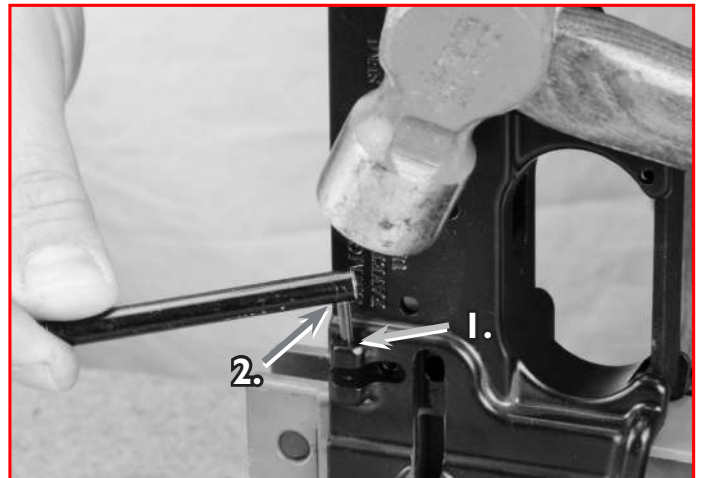


Pivot Pin and Roll Pin Installation Tool



Pivot Pin Instructions:

1. Insert tool into receiver, aligning hole in tool with spring cavity in receiver.
2. Insert Spring and Detent into the cavity through the hole in the tool.
3. Using pin, depress Detent and rotate 90°
4. Carefully slide Pivot Pin into Lower Receiver, pushing tool out simultaneously.



Roll Pin Instructions:

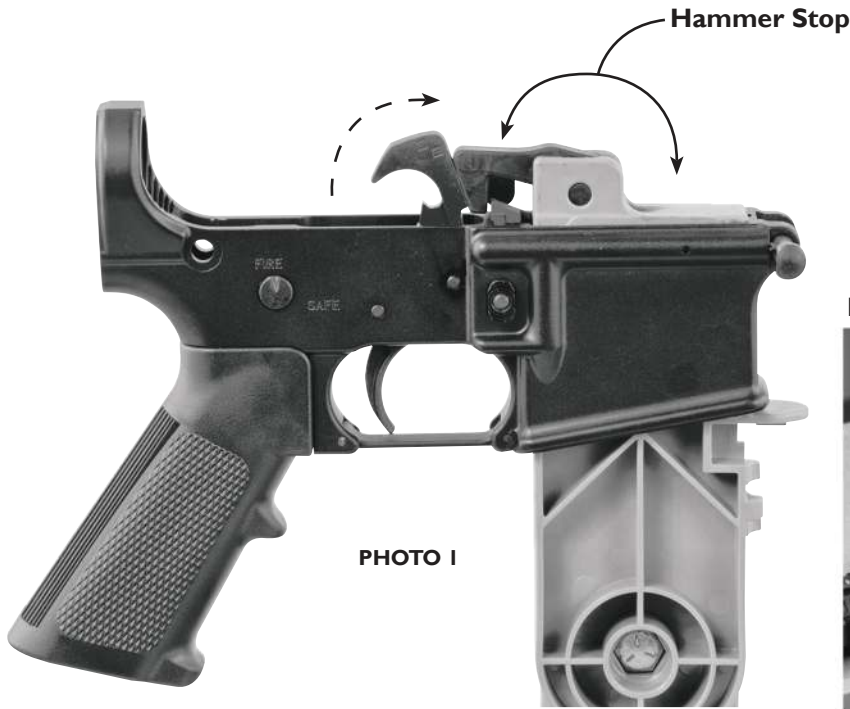
1. Place Roll Pin into hole in Lower Receiver.
2. Place the Blind Hole in the side of the tool onto the roll pin and carefully tap into place.
3. Once started, use the hole on the end of the tool to drive the roll pin into place.
4. Use the narrow tip to finish driving the roll pin flush with the Receiver.

AR-15 Mag well Vise Block

HAMMER STOP FUNCTION:

The Vise Block includes a Hammer Stop to protect the lower receiver while dry firing.

1. Once the receiver is installed onto the Vise Block, simply rotate the hammer block into position. (See Photo I)
2. Once the hammer stop is in position you can safely dry fire the trigger.



Mag well Vise Block mounted to Best Gun Vise



BOLT SERVICE STATION:

1. Before attempting to remove the ejector, you must first remove the extractor. This can be done by simply pushing the extractor pin through the body of the bolt. (See Photo D)

TIP: use the #550-067 pin punch from the Wheeler Deluxe Screw Driver Kit.

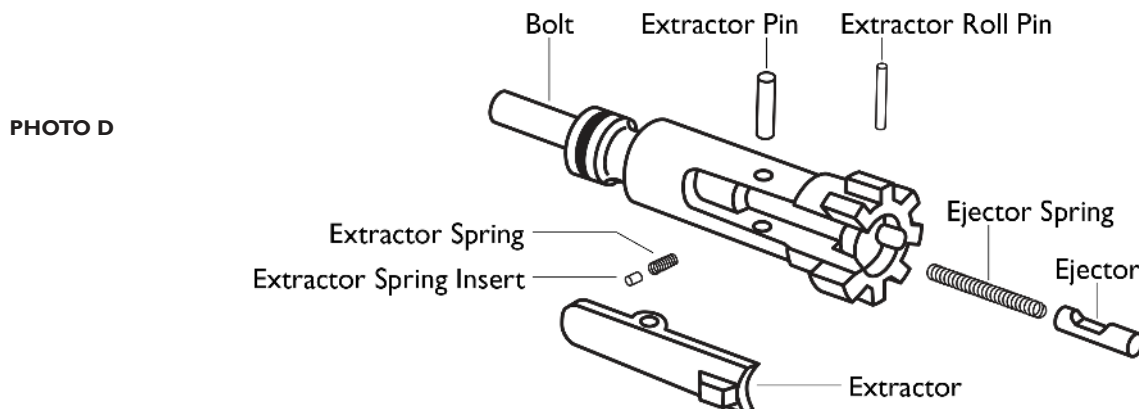


PHOTO D

2. Once the Extractor has been removed, insert the bolt in such a fashion that the locking lugs straddle the bolt lug retaining rib located on the side of the Vise Block. (See Photo E)

3. Carefully position the bolt as shown in Photo F, rotating slightly clockwise to allow the bolt lugs to pass over the bolt lug retaining rib as mentioned above.

Bolt Lug Retaining Rib

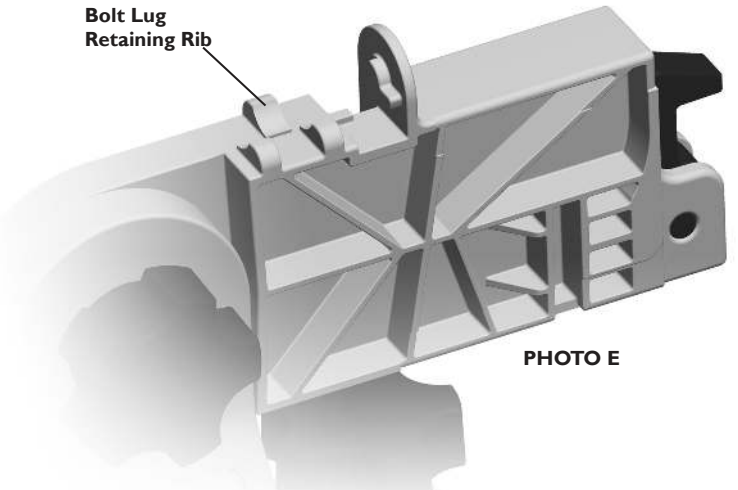


PHOTO E

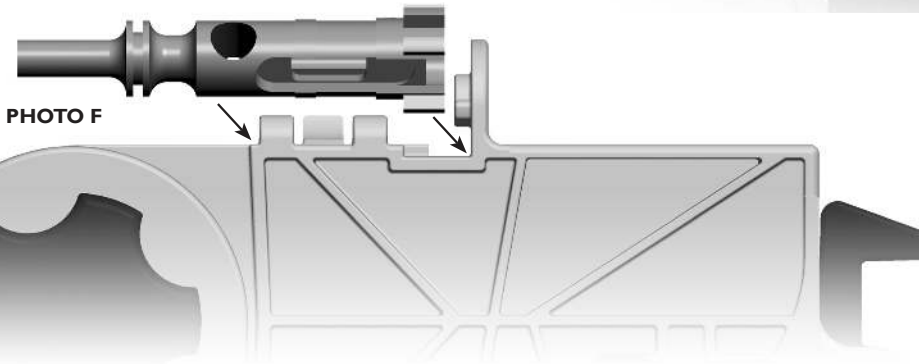


PHOTO F

4. Once the bolt is in position, push the bolt forward depressing the ejector spring and turn counter-clockwise until the bolt lugs stop. (See Photos G & H)

5. The bolt is now held hands free to remove the ejector roll pin.

TIP: use the #611-520 pin punch from the Wheeler Deluxe Screw Driver Kit.

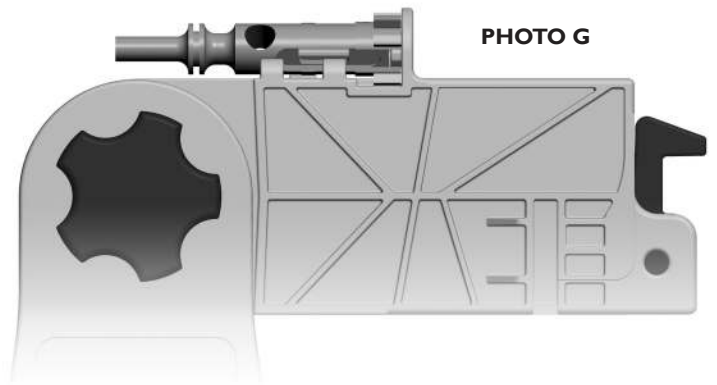
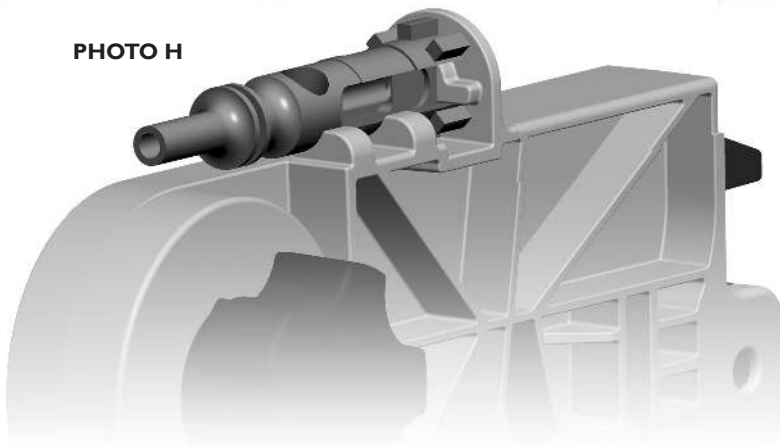


PHOTO G

PHOTO H



BEST GUN VISE USAGE:

The AR-15 Mag well is designed to mount anywhere along the T-Rail of the Tipton Best Gun Vise. (See Photo A)

PHOTO A

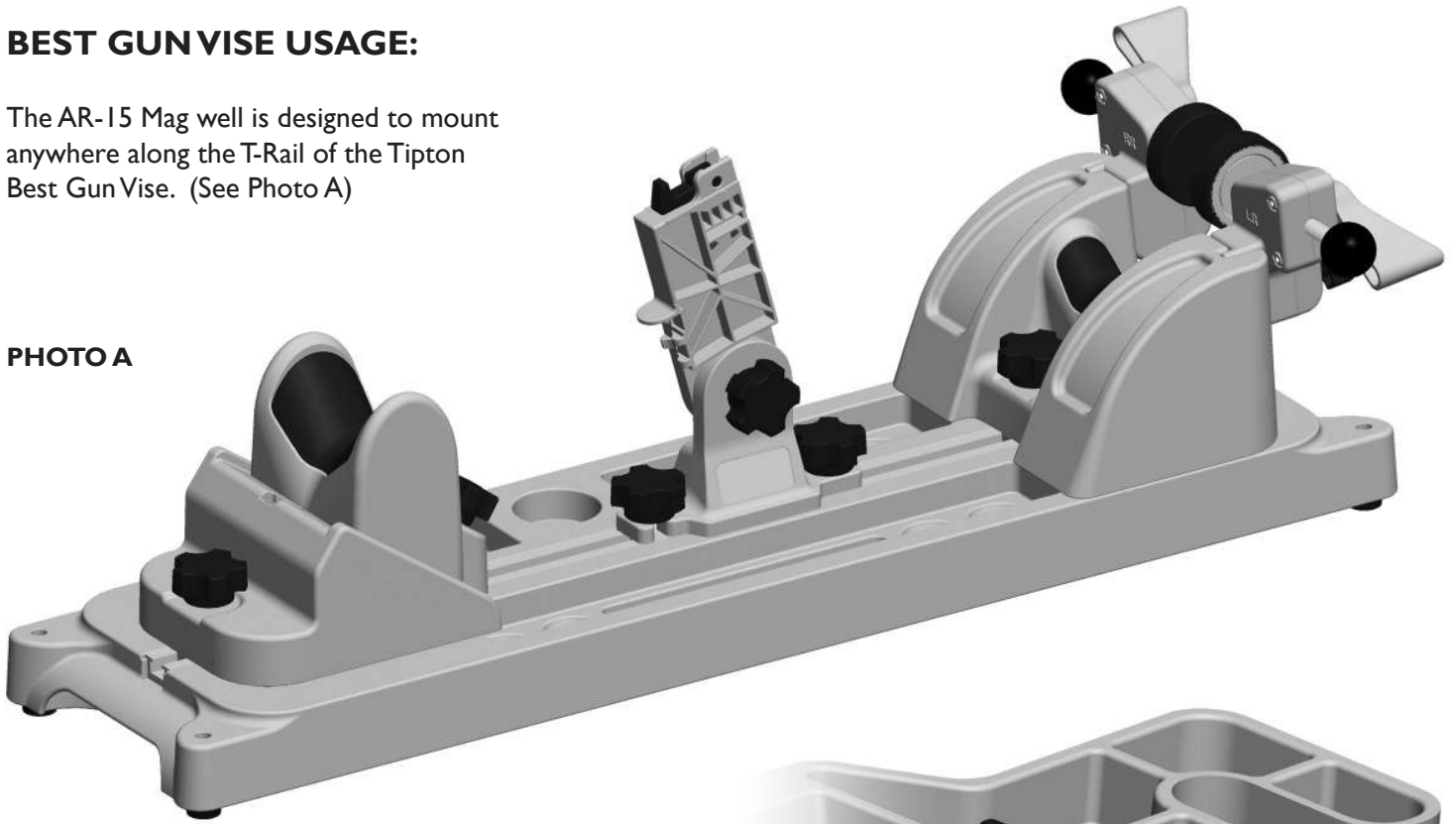


PHOTO B

Bolt Lug
Retaining Rib

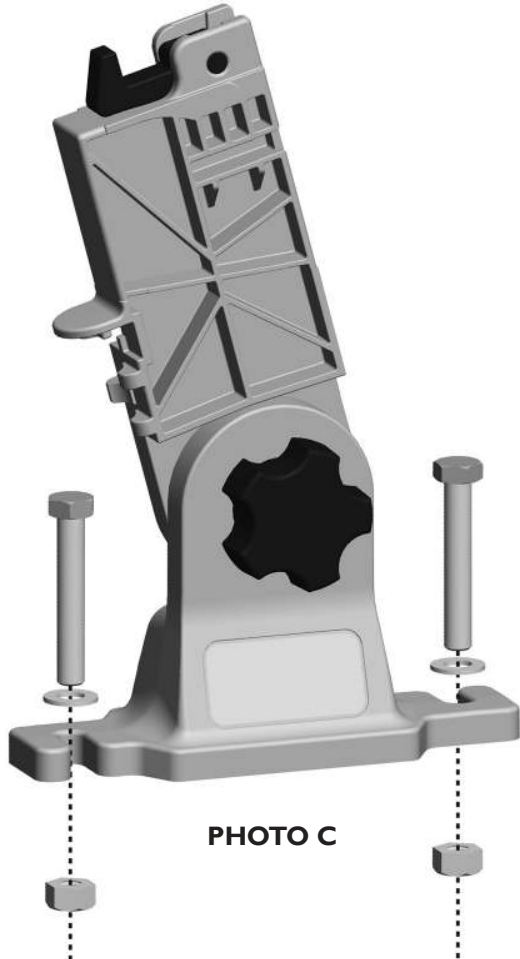
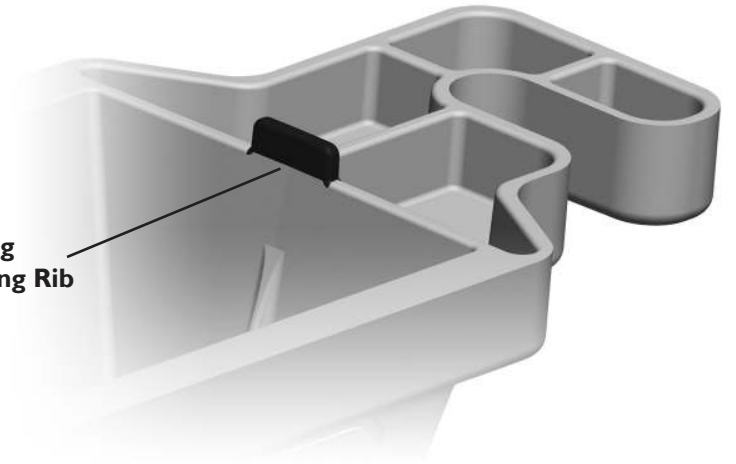


PHOTO C

BENCH TOP USAGE:

The AR-15 Mag well can easily be modified to mount on a bench top. Required tools - safety glasses, pencil, hand pliers, hand drill, 5/16" drill bit

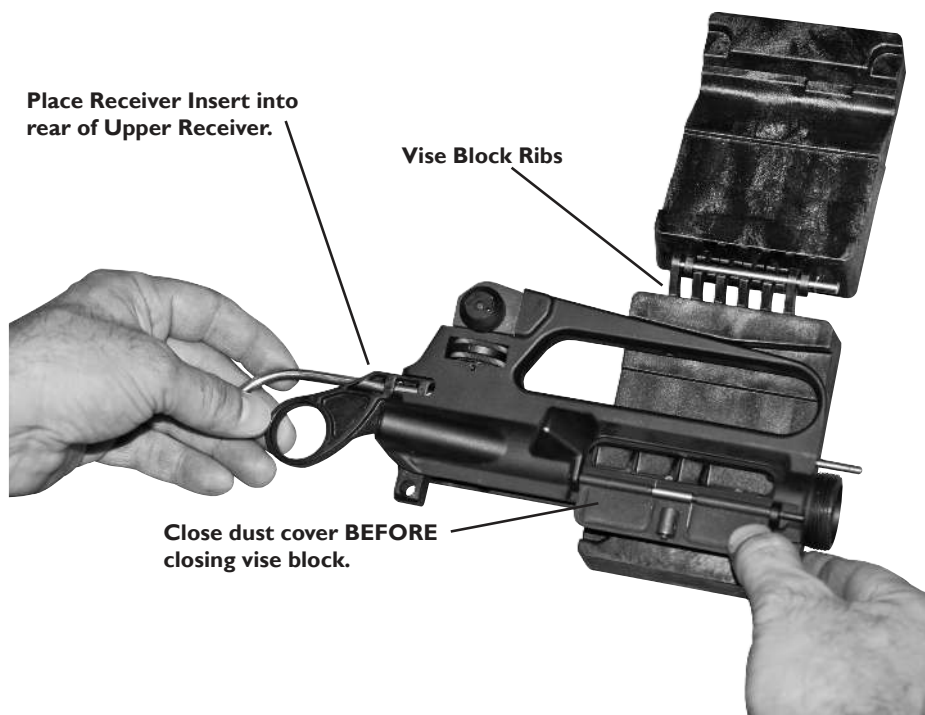
1. Using a pair of pliers, break the two small tabs flush with the bottom of the AR-15 Mag well base. (See Photo B)
2. Place the base in the desired location of your bench top and mark each hole location.
3. Carefully drill the marked locations, be sure to keep the drill perpendicular to the bench top.
4. Place the AR-15 Mag well into position.
5. Place a washer on each hex bolt and insert into the base on either side.
6. Complete the assembly by attaching a nut to each 5/16 hex bolt, be careful not to over tighten. (See Photo C)

AR-15 Upper Vise Block Instructions

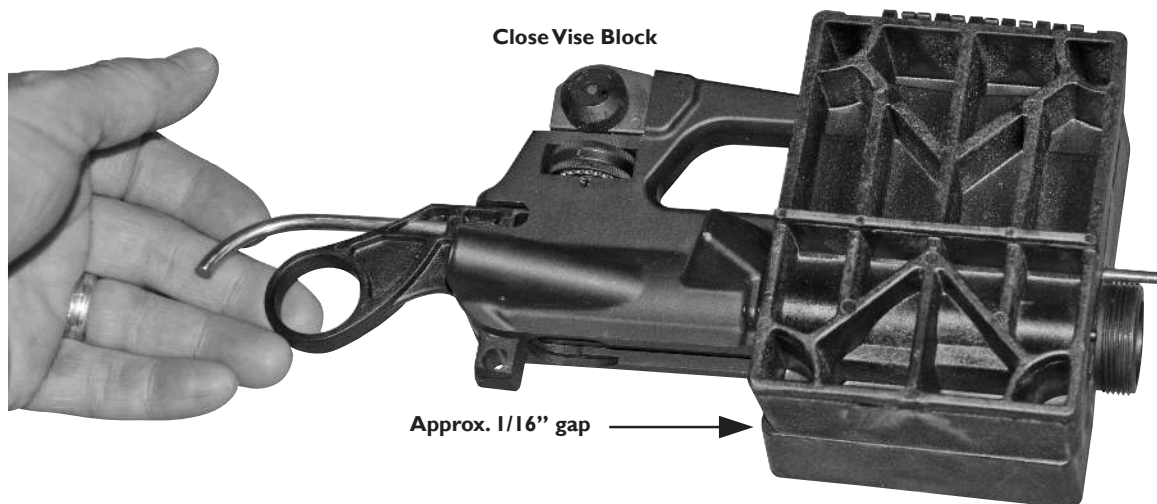
The Delta Series AR-15 Upper Vise Block is optimized for left hand and right hand Mil Spec A2 upper receivers with carry handles, as well as flattop style receivers. Other AR-15 variants may be adapted with special attention to potentially non-conforming surfaces or features. The Block allows you to safely clamp on to your AR-15 upper receiver in a vise holding it securely without twisting, crushing or marring the finish.

Usage Instructions:

1. Place the receiver insert into the rear of the upper receiver; if your receiver is equipped with a dust cover door, the receiver insert is designed to lock in place when the dust door is closed. If your receiver is not equipped with a dust cover, the receiver insert will not be secure until clamping pressure has been applied.

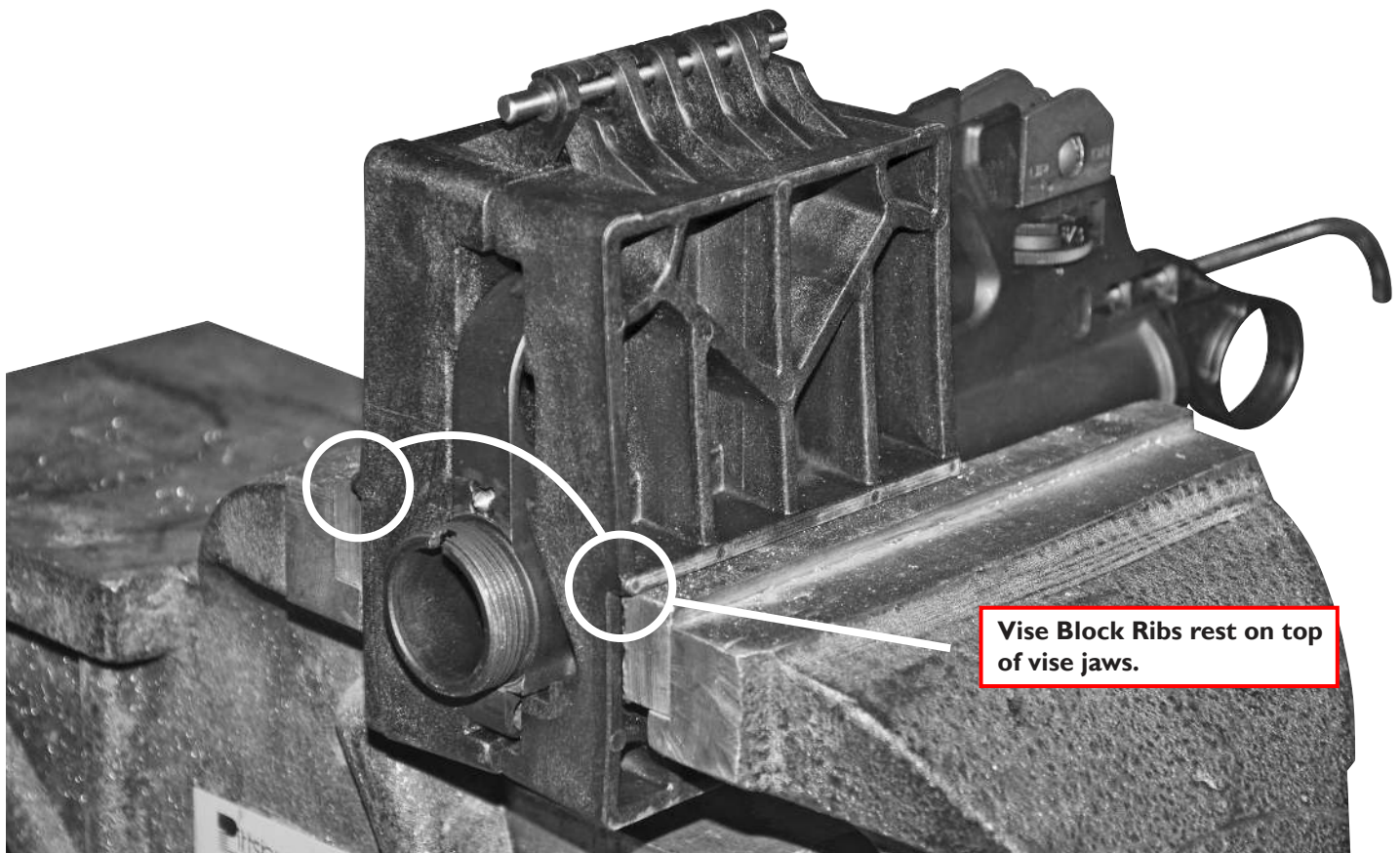


2. Open the UpperVise block on a flat surface with the ribs facing the bench. Position your receiver from either direction and align the front pivot pin lug in the recessed pocket.
3. Close the UpperVise Block and inspect for proper positioning. There should be a gap of approximately 1/16" opposite of the hinge. **A gap in excess of 1/4" may suggest the upper receiver is not Mil Spec and clamping in a vise may damage the Upper Vise Block.** The Wheeler Engineering Delta Series Upper/Pic Rail Vise Block (#156888) will work for these uppers.



Usage Instructions:

4. The Upper Vise Block is designed to rest on top of the vise jaws using the two ribs along the outside surfaces.



5. Once the Upper Vise Block has been securely clamped into a bench top vise, your upper receiver is ready for all your maintenance needs.
-

Installing a Barrel:

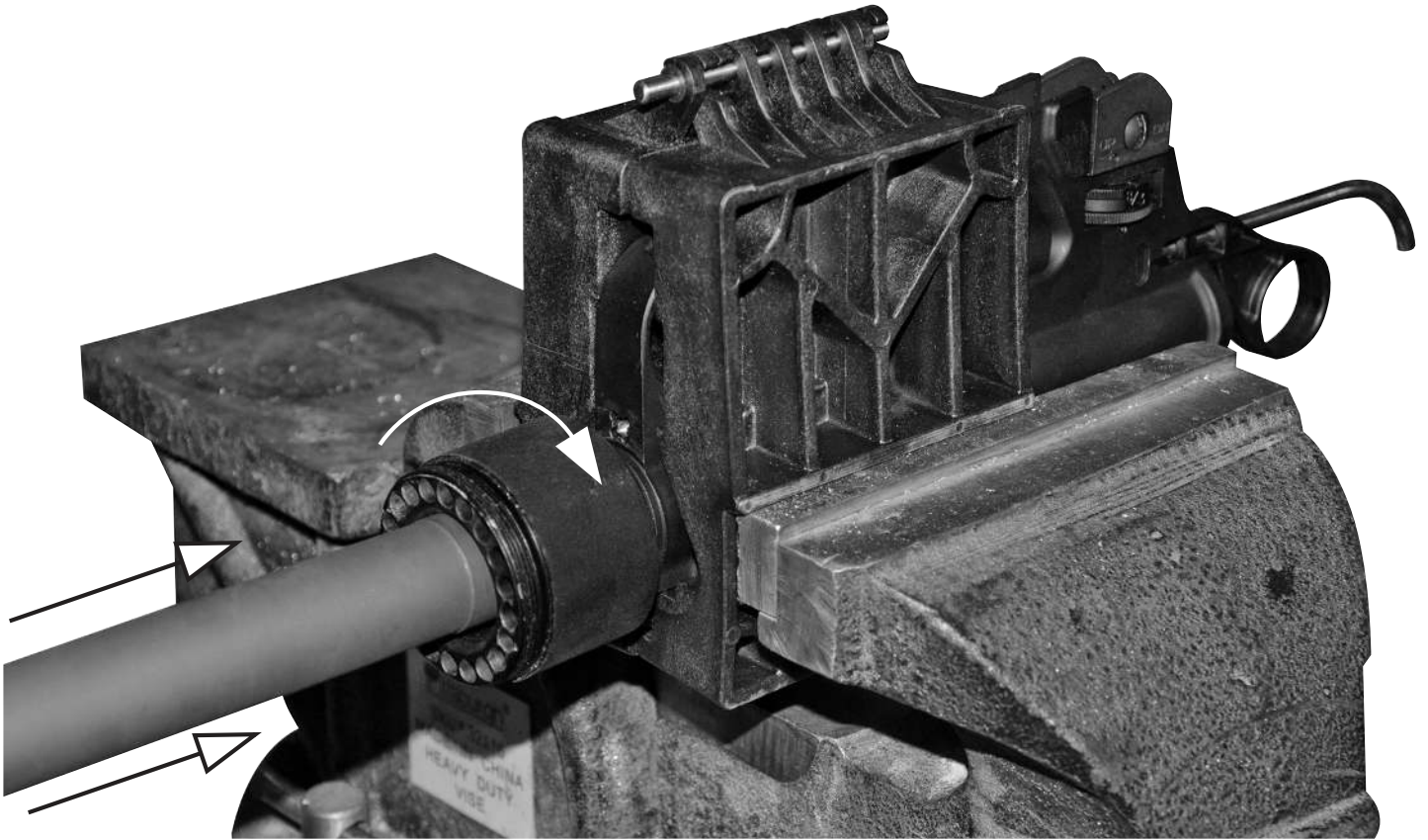
1. *After Steps 1-5 of the Usage Instructions have been completed you are ready to install a barrel on your receiver.*

NOTE: Inspect and clean the threads of both the receiver and the barrel nut prior to assembly. Apply a quality anti-seize compound to the receiver threads. This will enable proper torque to be achieved as well as help prevent thread seizing.

2. Pay careful attention to the position of the Upper Vise Block while assembling the barrel. It may be necessary to apply additional clamping force to maintain position.

Installing a Barrel:

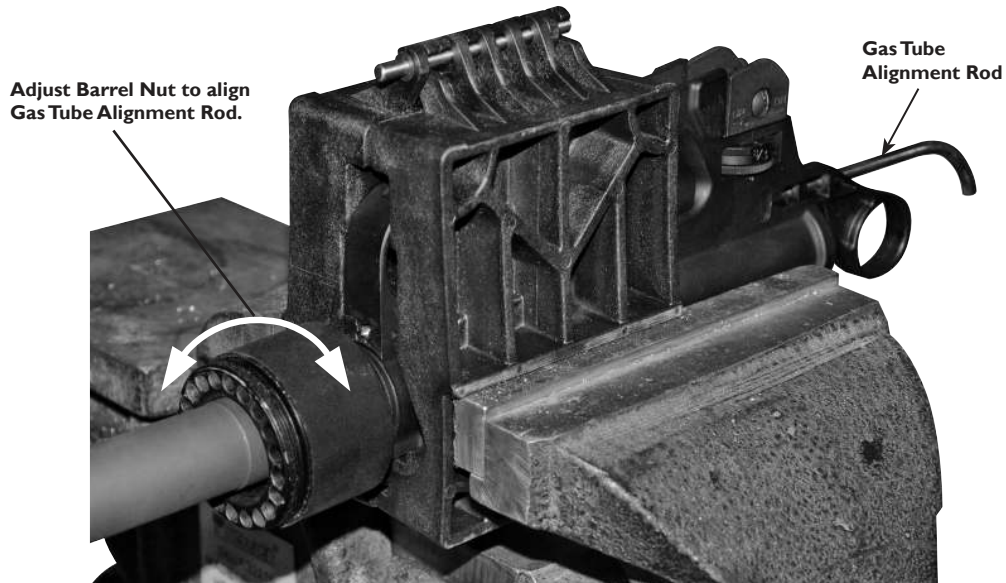
3. Thread the barrel nut on the receiver while holding the barrel in place.



4. Use AR-15 Combo Tool with Torque Wrench by placing hardened steel barrel nut pins onto barrel nut. Place Torque Wrench into 1/2" drive and apply proper barrel nut torque. **(Mil-Spec 30-80 FT-LBS)**



5. Once you have applied the proper barrel nut torque, use the gas tube alignment rod to check for proper barrel nut alignment. Make necessary adjustments until the gas tube alignment rod passes through the receiver and into the barrel nut freely.



AR-15 Combo Tool with Torque Wrench

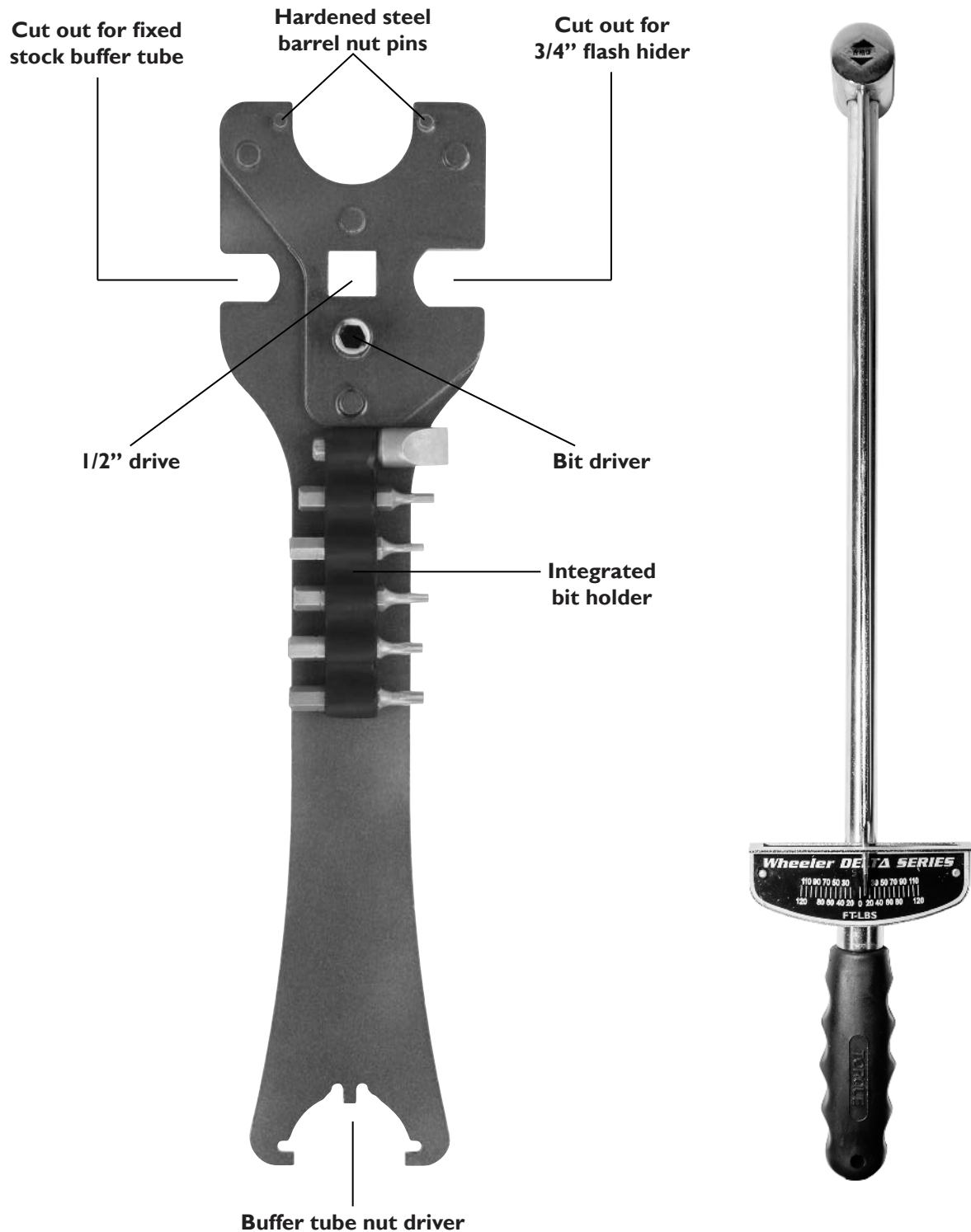


Collapsible stocks can be tricky to assemble. Not with the Wheeler Combo Tool. It's notched end is specifically designed to grab the Receiver Extension Nut and tighten it securely without crushing the nut or buffer tube. The Mag Well Vise Block secures your AR for many different assembly and maintenance tasks.

Buffer tube assembly is painless with the Wheeler Combo Tool. The built-in Bit Driver and Bit Driver Set keeps all the bits you need readily available. Included are Torx Drive and Hex bits for mounting scopes, bases, pic rails, and other attachments. The Flat bit works great for buttstocks and pads.



AR-15 Combo Tool with Torque Wrench



Perform most of your AR-15 service needs with a single tool. An innovative layered and laminated stamped steel construction makes the Delta Series AR-15 Combo Tool the most durable AR tool available. This construction method allows the use of hardened steel barrel nut pins designed to hold up to heavy torque requirements. A cut out for a 1/2" drive allows the tool to be used with a torque wrench or ratchet driver. Profiles for buffer tube lock nut and 3/4" flash hider are included. The addition of a bit driver and bit holder with six common bits adds to the versatility.

AR-15 Armorer's Essentials Kit



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