

ASSEMBLY AND OPERATION GUIDE



**MESA  
TACTICAL<sup>®</sup>**

**MAXIMUM SECURITY  
FOR AN INSECURE WORLD**

**TELESCOPING STOCK  
& ADAPTER  
SHOTGUN CONVERSION KIT**

#47371 Rev II

# TELESCOPING STOCK & ADAPTER SHOTGUN CONVERSION KIT ASSEMBLY GUIDE

Thank you for your purchase of the Mesa Tactical® Telescoping Stock or Stock Adapter Shotgun Conversion Kit for Remington or Mossberg pump shotguns. Our products are manufactured using the highest quality processes and materials, and should provide many years of reliable service.

For best results, please read this entire manual before installing and using your Telescoping Stock or Stock Adapter Shotgun Conversion Kit. If you have any questions, please call 714-545-3332 or e-mail [support@mesatactical.com](mailto:support@mesatactical.com).

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## SYSTEM CONCEPT AND PRODUCT OVERVIEW

There are two lines of Mesa Tactical telescoping stock adapters:

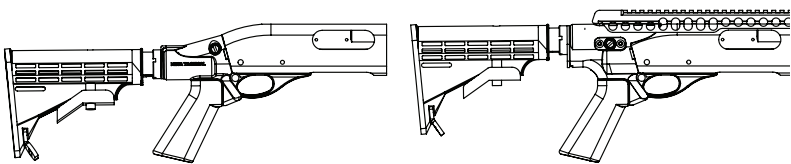
1. High-tube® telescoping stock adapters, that require the use of rail-mounted optics;
2. LEO® telescoping stock adapters, which feature a stock elevation about an inch lower than the High-tube adapters and so don't require sighting or aiming aids.

These adapters are available in two types of kits, adapter kits or complete stock kits.

The heart of the Mesa Tactical Telescoping Stock Conversion Kit is the stock adapter. This part is investment cast and machined A-356 T6 aluminum and replaces the factory stock. The rear and lower faces of the stock adapter resemble the back of an AR-15 lower receiver, so it can accept most stocks and grips made for the AR-15.

The High-tube Adapters mimic the geometry of an AR-15 rifle, which means they can accept any buttstock or grip made for the AR-15. This also means the stock elevation is too high to use receiver- or barrel-mounted sighting systems. This is why High-tube adapter kits usually include a Picatinny scope rail, so that an optical sighting system can be mounted on the weapon.

**Note that High-tube adapters *must* be used with rail-mounted optics or back-up sights, or at least some kind of sighting system positioned high on the receiver.**



LEO STOCK KIT

HIGH-TUBE STOCK KIT

With the LEO adapters the stock elevation has been lowered by about an inch. This allows the use of receiver-mounted sights or even the bead sight.

Telescoping stock adapter or adapter and rail kits include the stock adapter, Picatinny scope rail (if a High-tube kit) and all required hardware. They are for operators who wish to install their own stocks and grips.

Stock kits additionally include an M4 Carbine style telescoping buttstock assembly, a Hogue rubber overmolded pistol grip, a stamped steel

stock wrench and a push-button sling swivel. A slip-on rubber butt pad for the M4 Carbine buttstock is available separately.

## **HIGH-TUBE ADAPTERS AND KITS**

The High-tube stock adapters have been machined with accessory mount pads on both sides. These mount pads allow Mesa Tactical Picatinny rails, adapter mount SureShell shell carriers or adapter mount Sling Loops or Sling Hooks to be fastened to the stock adapter with #10-32 machine screws, which run into threaded holes fitted with Timesert® steel threaded inserts.

The center of each mount pad also features a large threaded hole for the optional installation of threaded “flush cups” that accept push-button style QD sling swivels. When not in use, the mount pads can be protected from dirt by the fitting of aluminum cover plates. All this hardware is included in the Telescoping stock adapter shotgun conversion kit.

## **LEO ADAPTERS AND KITS**

The LEO stock adapter has no accessory mount points. The LEO Telescoping stock adapter for the Remington 870 features the sling swivel flush cups already installed at the factory. The LEO Telescoping stock adapter for the Mossberg 500 uses a different “doubled-sided” flush cup that is installed by the end user.

## **SHOTGUN PLATFORM COMPATIBILITY**

The Telescoping stock adapter Shotgun Conversion Kits are available for the following 12 gauge shotgun platforms:

- Remington 870;
- Mossberg 500, 590 and Maverick 88;

LEO stock adapters can be fitted to 20 gauge Remington 870 shotguns; while the installed adapter will be slightly wider and slightly taller than the 20 gauge shotgun receiver, there is no compromise in function.

Generally, Mesa Tactical telescoping stock adapters will not fit on semi-automatic shotguns. Most semi-automatic shotguns feature a return spring housing that extends from the rear of the shotgun receiver that makes it impossible to fit an AR-15 stock system to the weapon.

## STOCK AND GRIP COMPATIBILITY

Because the stock and grip interfaces of the Mesa Tactical High-tube telescoping stock adapter are almost identical to a real AR-15 rifle, this adapter can accept almost any stock or grip combination made for the AR-15. The only known limitation concerns duckbill style grips that, while they will still fit on the adapter, would probably need to have the duckbill filed off before use.

The Mesa Tactical LEO telescoping stock adapters can accept AR-15 stocks that do not require a lower indexing dimple. This includes most military and commercial collapsing stocks, but few if any fixed stocks. Generally, any stock with an indexing groove machined into the ventral side of the receiver extension tube threads will work with the LEO Telescoping stock adapter. Other stocks may be installed with minor fitting.

Similarly, the Mesa Tactical LEO telescoping stock adapters can accept any grip that does not feature a rear upper extension.

## FULL LENGTH RAIL KITS

Some Mesa Tactical High-tube stock kits include an optics rail that mounts to the stock adapter and runs approximately 24 inches down the length of the shotgun, and is supported at the front by a barrel clamp or a magazine clamp, which is included with the kit.



Some kits for the Remington 870 do not include a clamp, as these are for customers who already have a Mesa Tactical barrel or magazine clamp installed on their shotgun.

Note that adapter mount rails for the Mossberg 500 platform feature a “window” machined at the rear of the receiver to allow access to the tang safety lever.

## RECOIL BUFFER KITS

Mesa Tactical Recoil stock kits include a Crosshair™ recoil buffer assembly instead of the hollow receiver extension tube. The recoil buffer can absorb up to 70% of felt recoil. Install the recoil buffer according to the instructions below, just as if it was a receiver extension tube.



**WARNING:** The Crosshair buffer is spring loaded. Do not disassemble or serious personal injury or death could result.

**WARNING:** During firing the Crosshair buffer compresses up to ¾” as the shotgun moves rearward. DO NOT place eyes, hands or cheeks close to the grip of the stock adapter. Keep face and other body parts at least 2” from the threaded end of the Crosshair buffer.

## PACKAGE CONTENTS

The Mesa Tactical Telescoping Stock Adapter Shotgun Conversion Kit should include the following components:

<i>Qty</i>	<i>Item</i>
1	Cast aluminum and powdercoated telescoping stock adapter
1	Receiver cap screw
1	Receiver screw hex key
1	AR grip screw

### High-tube Adapter Kits also include:

<i>Qty</i>	<i>Item</i>
1	Picatinny scope rail
2	Picatinny scope rail cap screws
1	Picatinny scope rail cap screw hex key
1	Machined nylon Picatinny scope rail rear spacer
1	Molded nylon Picatinny scope rail forward spacer
2	Aluminum mount point cover plates
4	Mount point cover plate button-head screws
1	Mount point cover plate screw hex key
2	Threaded steel flush cups

### LEO Adapter Kits include:

<i>Qty</i>	<i>Item</i>
1	Custom “claw” receiver extension end plate

**LEO Adapter Kits for Mossberg 500 shotguns include:**

<i>Qty</i>	<i>Item</i>
1	“Double-headed” flush cup
1	“Double-headed” flush cup mounting screw
1	“Double-headed” flush cup hex key
1	Pocket grip nut

**Adapter Kits for Remington 870 shotguns include:**

<i>Qty</i>	<i>Item</i>
1	Sling plate blank
1	AR grip nut
1	AR grip screw spacer

**Stock kits include:**

<i>Qty</i>	<i>Item</i>
1	M4 Carbine style 5- or 6-position telescoping stock assembly
1	Push-button QD sling swivel
1	Receiver extension stock nut
1	Hogue AR pistol grip
1	Stamped steel stock wrench

**Full length rail kits include:**

<i>Qty</i>	<i>Item</i>
1	Magazine or barrel clamp assembly (two halves)
2	Clamp bolts (Remington barrel clamps will have three bolts)
1	Clamp bolt hex key
4	Clamp mount point screws (usually installed in clamp halves at factory)
1	Clamp mount point screws hex key

Please contact Mesa Tactical if there are any discrepancies.

## ASSEMBLY INSTRUCTIONS

Assembly of the Mesa Tactical Telescoping Stock Adapter Shotgun Conversion Kit requires no special tools and should take less than 30 minutes. All required hex keys and an AR-15 stock wrench are included with the stock kit. All you will need to provide is a Phillips head screwdriver (for the pistol grip), plus whatever tools are required to remove the old stock (an AR-15 stock wrench and stock nut is not included with the stock adapter kit, only with the complete stock kit).

Optionally, you might want blue Loctite® liquid thread locker for the screw threads. A torque wrench is also useful to ensure you are using the appropriate torque settings on the fasteners.

1. **Ensure the shotgun magazine is unloaded and the chamber is empty before proceeding with the installation of the Mesa Tactical Telescoping Stock Adapter Shotgun Conversion Kit.**
2. **Remove existing stock.** Different stocks are assembled in different ways. Generally, you will need to remove the rubber butt pad with a Philips head screwdriver to get at the long receiver screw inside the stock. Unfasten that screw, then remove the stock, hardware and backing plate (if any) and store them in a safe place.
3. **Install pistol grip on adapter.** Follow your pistol grip manufacturer's instructions to install the grip on the bottom of the adapter. The zinc-coated ¼-28 Phillips pan head screw is included in case no screw has been provided with your grip.

Note that only the High-tube adapter for Mossberg 500 features a tapped grip hole. All the other adapters have smooth-walled grip holes.

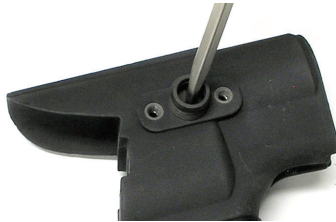
Instead of a tapped hole, Remington 870 adapter kits include a grip nut that fits into the pocket at the top of the grip screw hole in the adapter; while the LEO adapter for the Mossberg 500 features a pocket nut that fits in a cavity in the grip boss. A white nylon spacer is also included with the Remington 870 adapter for use with third-party grips with which the grip screw protrudes too far through the nut. In these cases, simply install the spacer between the head of the screw and the inside surface of the grip.





Mesa Tactical stock kits include a Hogue pistol grip. Place the zinc-coated Phillips pan head screw on the end of your Phillips head screwdriver and insert it up through the body of the pistol grip and through the hole at the end. Ensure the finger grooves of the pistol grip are facing forward. Maintain pressure on the screwdriver while directing the end of the screw into the hole at the bottom of the adapter. If you have a torque wrench, tighten the fastener to 10 foot pounds. Be careful not to overtighten.

- 4. Install threaded flush cups (optional for High-tube Adapters only).** These fit into the large threaded holes between the accessory mounting holes in the sides of the adapter. Install these only if you do not intend to mount accessories on the side. Use a large screwdriver in the slots at the bases of the cups to screw them into place.

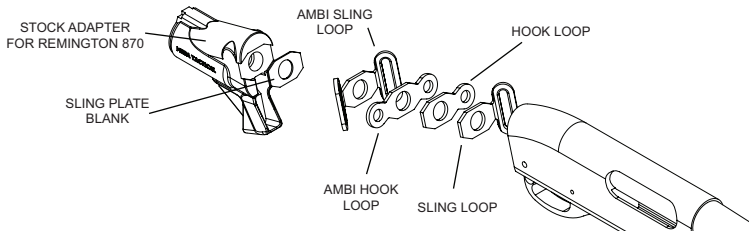


- 5. Install double-ended flush cup (for LEO Adapter for Mossberg 500).** The LEO stock adapter for the Mossberg 500 features a single piece double-ended flush cup component instead of the externally threaded flush cups used on other stock adapters. Install this by fitting into the hole through the adapter, and aligning the threaded hole with the counterbored hole in the casting. Use the small cap screw to secure the double-ended flush cup into the casting. If you have a torque wrench, tighten the fastener to 30 inch pounds. Be careful not to overtighten.



- 6. Install stock adapter.** You are now ready to install the LEO or High-tube Telescoping stock adapter. However, the sling plate system used by the Remington adapters, though simple and robust, requires a little more explanation.

Remington adapters are cast with a shallow pocket in the front of the parts that accept any of four sling plates available separately from Mesa Tactical, or they can accept the sling plate blanks that are packaged with the adapters.



The stock adapter receiver screw is the larger socket head bolt. Mate the stock adapter to the back of the shotgun receiver, and then use the provided hex key to thread the receiver screw into the receiver.



If you have a torque wrench, the torque settings for the receiver screw are as follows:

Remington 870: 12 foot pounds

Mossberg 500: 20 foot pounds

Do not overtighten.

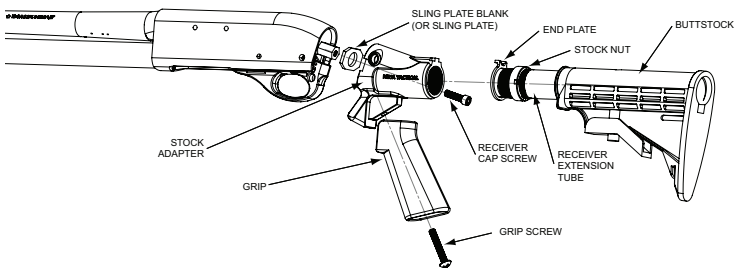
7. **Install stock.** Install your stock in the back of the adapter according to the instructions that came with the stock. If the receiver extension has difficulty screwing into the adapter, try coating the threads with a drop of gun oil. The receiver extension needs to go into the adapter only about ½ inch.

**NOTE:** The M4 Carbine buttstock assemblies often ship from the factory in a “stuck” state that does not allow them to be adjusted. This is simple to remedy. Grab the buttstock with one hand and pull the adjustment lever away from the stock against the spring at a right angle to the receiver extension tube until you can pull the buttstock back along the tube.



To install the M4 Carbine buttstock included in Mesa Tactical stock kits, ensure the stock lock nut and end plate end are installed on the stock receiver extension tube (see illustration).

Note that Mesa Tactical LEO adapter kits and stock kits include a custom “claw” endplate, illustrated below in its installed location against the adapter.



After the lock nut has been threaded onto the tube, the end plate should be slipped over the outside of the tube, with the bent claw or round bump facing outward (toward the adapter or away from the buttstock). Move these down the tube (back) as far as possible. Thread the end of the tube into the rear of the stock adapter.

**NOTE:** If you have difficulty slipping the end plate over the end of the receiver extension tube, it is usually because the ventral groove in the tube has been cut too shallow. An easy fix is to use a file to remove a small amount of material from the small tab in the end plate that protrudes into the groove.

Continue threading until the tube will not advance any more, and then back off until the stock is in a vertical position. Move the end plate forward against the back of the adapter so that the claw fits into the notches in the LEO adapter, or the bump fits into the dimple of the High-tube adapter. Tighten the receiver extension nut onto the end plate with a special AR-15 stock wrench (included with stock kits).

8. **Install 9½ inch Picatinny scope rail (High-tube adapters only).** The Picatinny scope rail will attach to the stock adapter and, if the shotgun receiver has been drilled and tapped for an optics rail, indirectly to the shotgun receiver via custom-made rail spacers.

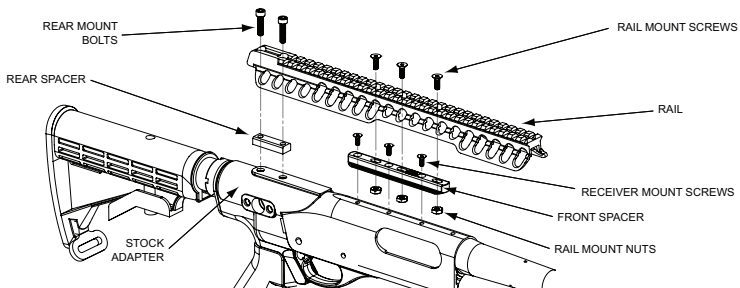
The Remington and Mossberg kits include two types of screws with very similar appearances. Please take note of the mounting hardware:

- Mossberg: (3) #8-40 screws, (3) #8-32 screws, (3) #8-32 nuts
- Remington 870: (3) #6-48 screws, (3) #8-32 screws, (3) #8-32 nuts

In addition to the mounting hardware, there are three main components to the High-tube scope rails:

- a. The aluminum Picatinny rail itself;
- b. The hard plastic rear spacer with two holes through it;
- c. The molded nylon front spacer.

Please refer to the diagram below to understand the relationship between the rail, spacers and mounting hardware:



**IMPORTANT: If your shotgun receiver is drilled and tapped for a top rail** (some Remington shotguns and most Mossberg shotguns), you will first attach the front spacer to the shotgun, then secure the rail to the stock adapter and front spacer. (see **Step 1a**, below, and skip **Step 1b**).

**IMPORTANT: If your shotgun is *not* drilled and tapped for a top rail**, you will simply attach the spacer to the rail before attaching the rail to the adapter (skip **Step 1a** and proceed to **Step 1b**, below).

Identify your spacer from the following photo to ensure you have the correct spacer for your platform:



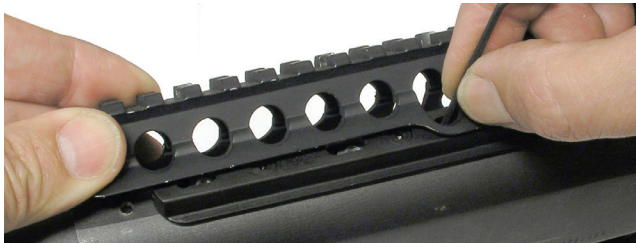
**Step 1a:** To install the spacer on your shotgun receiver, you will first place the three nuts (#8-32) in the pockets at the bottom of the spacer, then slip the spacer onto the top of the receiver, lining up the small hole at one end of the spacer with the rearmost drilled and tapped hole. Screw the spacer into the receiver with the three screws (#6-48) for the Remington shotgun or the three screws (#8-40) for the Mossberg shot-gun.

**Step 1b:** To install the spacer on your rail, you will first place the three nuts (#8-32) in the pockets at the bottom of the spacer, then use three screws (#8-32) to secure the spacer to the underside of the rail.

**Step 2:** Place the smaller rear spacer over the threaded mounting pad on the adapter and slip the rail in place onto the pad.



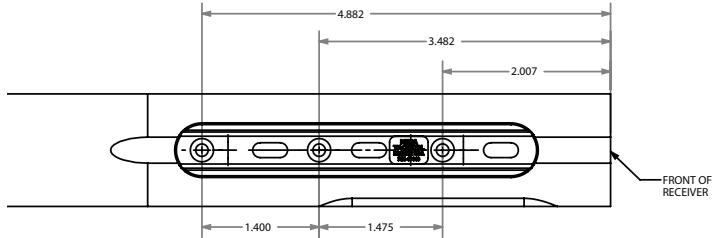
At the same time, as you place the rail over the front spacer, use one of the hex keys to line up the nuts with the three mounting holes on the rail.



Once the rail is in place, secure it to the adapter with the two socket head caps screws and to the nuts in the front spacer with the three (#8-32) screws.

If your shotgun receiver is not drilled and tapped, the front spacer is still useful for locating and supporting the rail. Simply screw the front spacer to the rail using the three nuts (#8-32) and three screws (#8-32) provided with the Mossberg and Remington kits before attaching the rail to the stock adapter as described above.

If you have a Remington 870 and you would like to drill and tap it to accept the spacer, use a #6-48 tap and drill the holes according to the following pattern:



- 9. Install 24 inch Picatinny scope rail (High-tube adapters only).** The 24 inch Picatinny scope rail is installed at the stock adapter in the same way as the 9½ inch rail above. The front of the rail is supported by a magazine or barrel clamp.

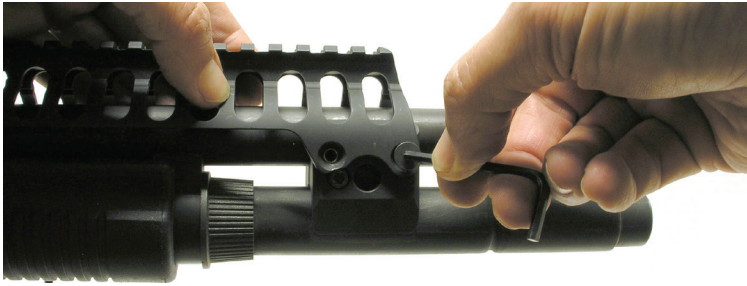
**To install the rail on a Mossberg 500 or 590,** first secure the magazine clamp to the magazine. The barrel should be removed and the top and bottom halves of the clamp screwed together *loosely* before the barrel is re-installed.

**To install the rail on a Remington 870,** the rail will be attached to the adapter first.

Secure the rear of the rail to the stock adapter as described above. At the front, lift the rail slightly and align the magazine or barrel clamp with the mounting holes in the front of the rail.



Once the holes on the rail are aligned with the holes in the clamp, tighten the clamp screws as well as the rail screws.



10. The push-button sling swivel included with the stock kits can be installed in the steel flush cups, if they have been installed, and can also be attached to the magazine clamp with Remington rails. Alternatively, Uncle Mike's or Grovtec sling swivel studs (not included) can be screwed into unused threaded mounting holes.
11. **Loctite threads (optional).** Once you are satisfied that everything fits together the way you want it (perhaps after test firing the modified shotgun), you can lock the fasteners with a drop of blue Loctite in each location. Do not use Loctite on the pistol grip screw.

## SUPPORT

If you have any problems or questions, please feel free to contact Mesa Tactical for assistance at 714-545-3332 or [support@mesatactical.com](mailto:support@mesatactical.com).

## WARRANTY

Mesa Tactical warrants that all products are free from defective material and workmanship and, subject to the conditions set forth below, agrees to repair or replace any part of a product that proves defective by reason of improper workmanship or materials without charge for parts and labor.

In no event will Mesa Tactical be liable for damages, lost revenue, lost wages, lost savings or any other incidental or consequential damages arising from purchase, use or inability to use this product.

No express or implied warranty is made for Mesa Tactical product damaged by accidents, misuse, natural or personal disaster, or any unauthorized disassembly, repair or modification. Mesa Tactical's warranty covers only repair or replacement of defective Mesa Tactical products.

# MESA TACTICAL



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