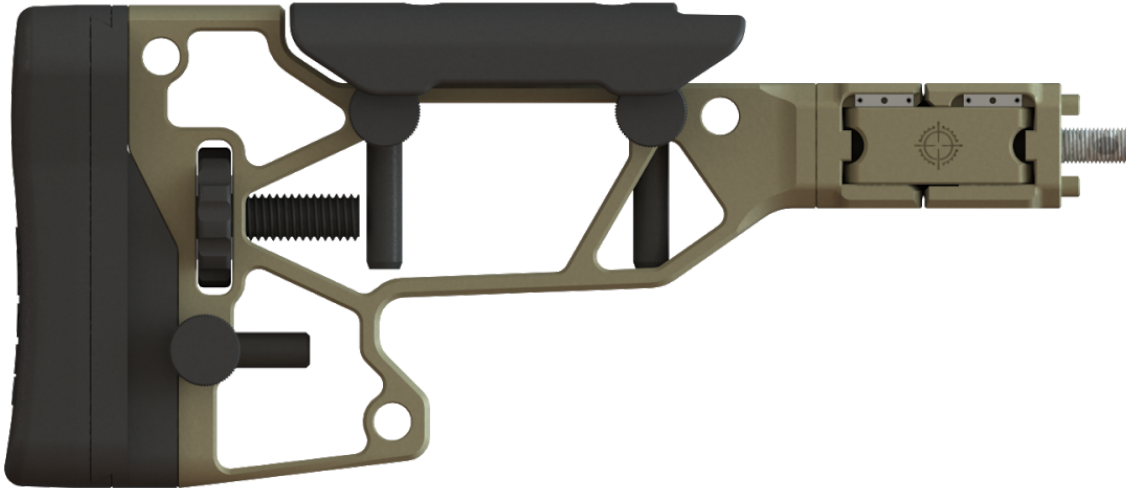


ESS FOLDING BUTTSTOCK

V1.0 May 2018



ESS FOLDING BUTTSTOCK

Thank you for choosing the ESS Folding Buttstock. The MDT ESS Folding Buttstock is designed to increase your performance and comfort by enhancing adjustment possibilities to suit your preferred shooting position while allowing more compact transportation through a reduced footprint.

The ESS folding buttstock has been developed to give shooters the option to fold to either bolt side or non-bolt side and locks in the folded position. The double hinge design allows the folder to maintain a low profile without any protruding hinge points that would otherwise interfere with the use of the thumb shelf.

The body of the ESS Folding buttstock is a shorter version of the standard ESS buttstock to maintain proper length of pull with the added length of the folding adaptor.

The buttstock has been updated to allow the use of a weight addition system for rifle balancing, an additional 2 QD points (for use when folded) and an M-LOK slot on the bottom face, to be used with a 1.5" MDT M-LOK Picatinny rail.

The LOP can be increased using the adjustment wheel and then locked in place by using either the included thumb screws for tool-less adjustment, or if the shooter wishes, the included set screws using an allen key.

The cheek riser height adjustment is done by either using the included thumbwheels or set screws or, if bolt side folding is not desired, the add-on adjustment wheel and its parts (available as a separate assembly).

Both the buttpad and cheek riser can be adjusted horizontally, vertically, and angularly.

The ESS Folding Buttstock is machined from 6061-T6 aluminum, and finished with a Cerakote coating.

COMPATIBILITY

The ESS Folding Buttstock has been designed to be folded bolt-side, however due to the wide range of actions MDT supports and the quantity of aftermarket bolt knobs available every combination cannot be tested.

The following table shows the compatibility of the Folding Buttstock with various actions that are equipped with factory bolt knobs.

ACTION	FOLDS OVER BOLT	NOTES
Big Horn TL3	YES	
Browning X-Bolt SA	YES	
Browning X-Bolt LA	YES	
Howa 1500 SA	YES	
Howa 1500 LA	YES	
Lithgow 102 SA	YES	
Rem 700 SA	YES	
Rem 700 LA	YES	
Ruger American SA	NO	Need to install on non-bolt side
Savage Axis SA	YES	Need to relocate thumbscrews
Savage Axis LA	YES	
Savage SA	YES	Need to relocate thumbscrews
Savage LA	YES	
Savage LA CIP (3.850)	YES	
Stiller TAC 338 LA	YES	
Tikka T3 SA	YES	
Tikka T3 LA	YES	
Winchester XPR SA	YES	

INSTALLATION

IMPORTANT: The folding buttstock ships configured to fold to the right (over the bolt on right-handed actions). Before installation, check the Bolt-Side Folding [Compatibility Chart](#) to see if your action is listed. As bolt handles can often vary in size and shape, you will need to check that your ESS Folding Buttstock folds over the bolt handle before fully tightening folder screws.

If your folding adapter does not fit over the bolt, follow [Non-Bolt Side Folding Instructions](#).

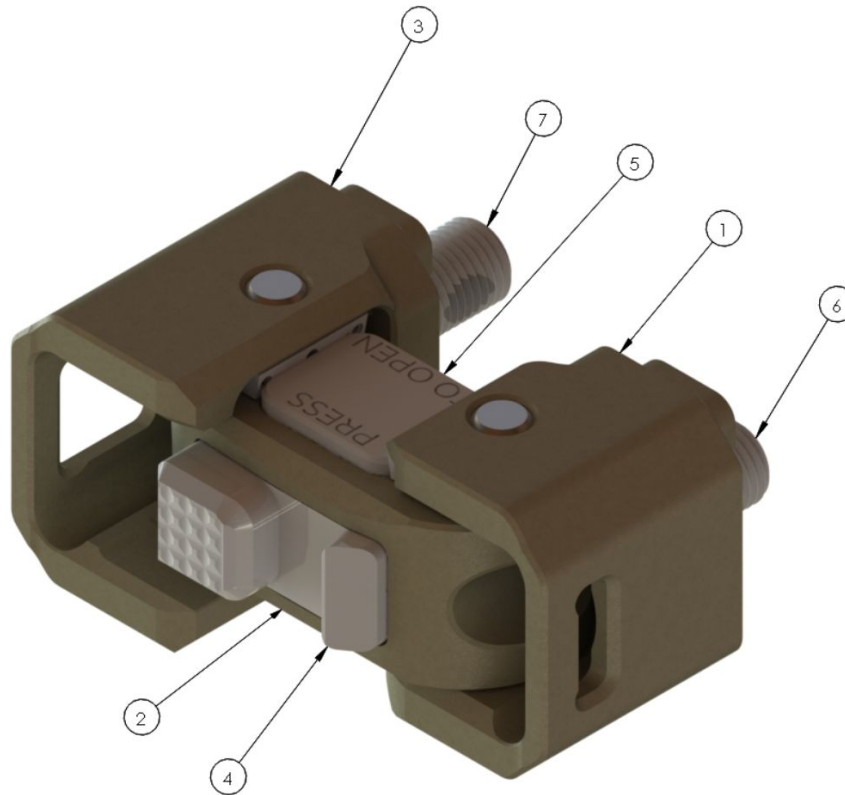
If you are installing the ESS Folding Buttstock onto a Ruger American chassis follow specific [Ruger American](#) instructions below.

If you are installing the ESS Folding Buttstock onto a Savage Short Action follow [Savage SA](#) instructions below.

NOTE: DO NOT REMOVE PROTECTIVE TAPE UNTIL AFTER INSTALLATION IS COMPLETE

1. Before Installation:

- 1.1. Ensure the firearm is unloaded
- 1.2. Remove the magazine and bolt
- 1.3. Remove the current ESS buttstock (if installed)



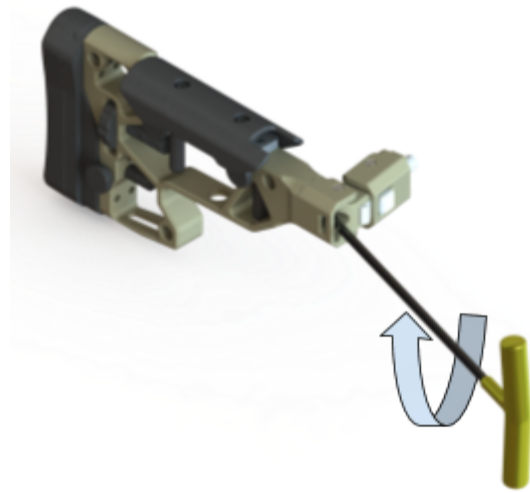
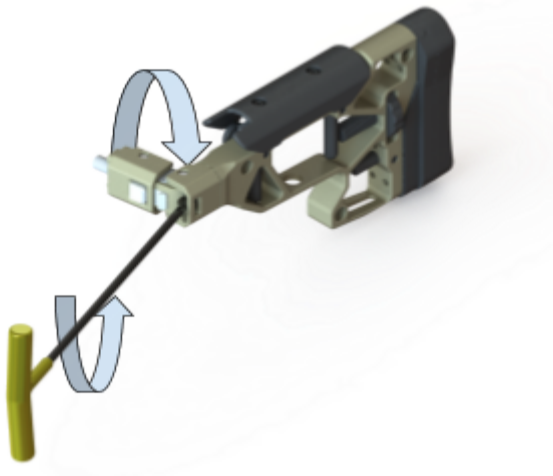
2. Installation for Bolt Side Folding:

- 2.1. With the folding mechanism in half-folded position (as shipped), use included hex drive T-handle to secure long interface (3) into chassis with bolt (7) until interface is snug on chassis, and then 1/8th turn more.



3. Installation for Non-Bolt Side Folding:

- 3.1. With folding adapter in half-folded position, use included hex drive T-handle to unscrew short interface (1) from buttstock by loosening short bolt (6)
- 3.2. Rotate folding adapter about the buttstock, screw folding adapter back into buttstock by re-tightening bolt (6) and continue to Step 2.



4. For Ruger American Chassis:

Because of the length of the Ruger American tang safety protruding into the buttstock attachment area the folding buttstock needs to be configured to fold on the shooter side and the folding adapter must be flipped end-to-end such that the shorter attachment screw attaches to the chassis.

- 4.1. With folding adapter in half-folded position, use included hex drive T-handle to unscrew short interface (1) from buttstock by loosening and removing the short bolt (6) from the buttstock
- 4.2. Flip adaptor end-for-end and place the long bolt (7) in position to engage with the screw hole in the buttstock. Ensure that the folding button is on the bolt-side of the rifle.
- 4.3. Using the T-handle hex drive, tighten the long bolt (7) until interface (3) is snug on buttstock, and then give 1/8th turn more.
- 4.4. With the folding mechanism in half-folded position (exposing the short bolt head) use included hex drive T-handle to secure short interface (1) into chassis with short bolt (6) until interface is snug on chassis, and then 1/8th turn more.



5. For Savage SA:

The Savage SA interferes with the thumb screws of the ESS Folding Buttstock in folded position. For this reason, you must move the thumbscrews to the shooter side of the buttstock.

- 5.1. Unscrew thumbscrews (4) completely from the buttstock body
- 5.2. Insert the thumbscrews into the holes on the opposite side of the buttstock body and securely re-engage the adjustment bolts and alignment pins

Proper Use

To release the ESS Folding Adapter when in locked position depress latch button (4) and fold buttstock about the adapter.

NOTE: Latch button may re-engage on either adapter interface and may need to be depressed a second time to fold completely.

Once completely folded the lock button (5) labeled "PRESS TO OPEN" will extend to lock in position. To release from folded position, depress lock (5) button and unfold.

Adjustment

The ESS Folding buttpad is able to be adjusted in and out (LOP), up and down, side to side and angled while the cheek-riser is able to be adjusted up and down, side to side and angled.

ADJUSTING THE BUTTPAD POSITION

To adjust the length of pull, you must first loosen the set screw (not shown), using a 1/8" Allen Wrench, and/or the thumb wheel (4) on the sides of the buttstock then use the wheel (5) to adjust as needed. Only the thumb wheels (4) or set screws must be re-tightened before use. MDT has included both to allow shooters to choose their preference.

To adjust the buttpad (6) up and down, you must loosen the set screw (7), using a 1/8" Allen Wrench, found on the back of the buttpad. This will allow you to move the buttpad up and down. Re-tighten all fasteners before use.

To adjust the buttpad (6) side to side or angled, you must loosen the set screw (7) found on the back of the buttpad, using a 1/8" Allen Wrench, and then push the buttpad all the way up. This will expose two screws (8). Loosening these, using a 1/8" Allen Wrench, will allow the buttpad to be moved side to side and angled. Re-tighten all fasteners before use.

ADJUSTING THE CHEEK RISER POSITION

To adjust the cheek riser (9) up and down, you must loosen the set screws (not shown), using a 1/8" Allen Wrench, and/or the thumb wheels (4) on the sides of the buttstock. If the thumb wheels are to be used the cheek riser **MUST** be pushed to one side to allow cheek riser to lowest position.

To adjust the cheek riser (9) side to side or angled, you must loosen the screws (3), using a 1/8" Allen Wrench, on the top of the cheek riser. This will allow you to move the cheek riser.

Re-tighten all fasteners before use.

The buttstock also has a 1.5" M-Lok slot (9) placed on the bottom for use with the MDT 1.5" M-Lok Picatinny rail.

