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# Benelli M4 Raven Stock

Part # A.1.10.1431

## -Installation Instructions-

Thank you for purchasing an ATI product!



### Raven Stock Installation

**Point the firearm in a safe direction and place the safety in the "on" position. Next pull back the slide, and carefully inspect the chamber and magazine to be sure the shotgun is unloaded.**

#### Step #1

Begin by pushing the trigger guard take down pin, (which will come out almost all of the way) using a small punch.



Figure 1

#### Step #2

Next, remove the trigger guard assembly by pulling down on the trigger guard.

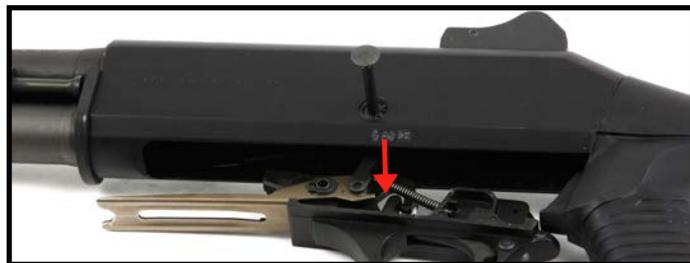


Figure 2

#### Step #3

Next, unscrew the stock by turning it counterclockwise and remove from the receiver.



Figure 3

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#### Step #4

Before installing the ATI Raven Stock to your M4 you will have to remove the buffer tube and the LOP lever from the buttstock. To do this you will unscrew the orange 8/32 x 1/4" button cap screw using a 3/32" allen wrench. Once you have unscrewed the LOP lever you may discard the orange screw.

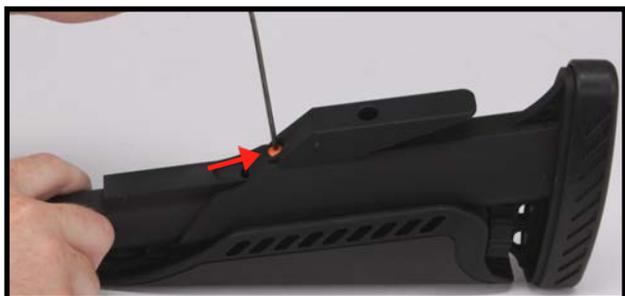


Figure 4

#### Step #5

After unscrewing the LOP lever, pull down and remove the latch from the buttstock.



Figure 5

#### Step #6

Next, remove the buffer tube from the buttstock by sliding it out of the stock body.



Figure 6

#### Step #7

Take the pistol grip and place the single point sling adapter into the front of the pistol grip. You may place the single point sling adapter into the grip with the sling loop facing out to the right or left side of the pistol grip.



Figure 7

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#### Step #8

Slide the ATI pistol grip over the bolt spring housing until it is flush with the receiver.



Figure 8

#### Step #10

Take the provided castle nut spanner wrench and slide it onto the castle nut. Engage the teeth with the slots in the castle nut. Next, take the 1" open face wrench provided and tighten the castle nut by turning the castle nut spanner wrench clockwise until tight.



Figure 10A

Figure 10B

#### Step #9

Next, take the provided castle nut and slide it over the bolt spring housing (with the teeth out) all the way into the rear of the pistol grip.



Figure 9

#### Step #11

Next, slide the buffer tube onto the bolt spring housing and into the rear of the pistol grip.



Figure 11

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#### Step #12

Take the buffer tube end cap and slide it into the end of the buffer tube. Make sure that the cap lines up with the grooves of the buffer tube and fits snug into the end of the buffer tube.



Figure 12

#### Step #13

Using a 5mm allen wrench, tighten the supplied M8-1 x 25mm flat head socket cap screw into the end of the buffer tube.

**Note:** Before tightening the M8-1 x 25mm flat head socket cap screw to the buffer tube, apply the provided locktite to the bolt threads and then tighten.



Figure 13

#### Step #14

Slide the stockbody onto the buffer tube.



Figure 14

#### Step #15

Next, you will reinstall the buttstock LOP lever by snapping it into the bottom of the stock body. The locking pin will need to be aligned with one of the six position adjustment holes when snapping into place.



Figure 15

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#### Step #16

Using (2) 8/32 x 1/4" button cap screws and a 3/32" allen wrench tighten the buttstock LOP lever to the bottom of the stock body.

**Note:** One screw will be placed in the front of the LOP lever and one will be placed in the middle of the LOP lever



Figure 16

#### Step #17

Next, flip your M4 upside down and with the trigger guard pin still out, take the trigger assembly and reinstall it into the firearm. To reinstall you will have to hold in the bolt release button and then seat the assembly.



Figure 17

#### Step #18

To adjust the height of the cheekrest, turn the adjustment dial clockwise to raise and counter clockwise to lower until the cheekrest is at the desired height.



Figure 18

#### Step #19

To adjust the tension of the slide adjustment of the stock body on the buffer tube, begin by using a T20 torx driver and unscrew the screw under the front of the cheekrest. Make sure that the stock is extended and the cheekrest is raised fully before unscrewing .



Figure 19A

Figure 19B

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#### Step #20

Next, slide the cheekrest forward and remove it from the stockbody.



Figure 20

#### Step #22

Next, use a 3/32" allen wrench to loosen or tighten the (2) set screws on each side of the stockbody. By loosening or tightening these set screws you will be able to set the tension of the stock on the buffer tube. Adjust all (4) set screws in small increments, testing the tension in between each adjustment of the (4) set screws until the desired tension is achieved to insure that the stock slides uniformly on the buffer tube.



Figure 22

#### Step #21

Using a 3/8" open face wrench, loosen the two nuts on each side of the stockbody.



Figure 21

#### Step #23

After you have the tension of the slide adjustment of the stock set, tighten the 2 nuts on each side of the stockbody using a 3/8" open face wrench, to insure the tension is locked in place. Apply 10 ft/lbs. of torque to the nuts to ensure they do not come loose.



Figure 23

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#### Step #24

Next, slide the cheekrest back onto the stockbody.



Figure 24

#### Step #25

Use a T20 torx driver and tighten the screw in the front of the cheekrest to secure the cheekrest to the stockbody.



Figure 25

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