



## SCAR Minimalist Rail (SMR) Installation Instructions



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### Applications

For installation of the SMR-9, SMR-11, and SMR-13 forend kits on both the SCAR 16S and SCAR 17S rifles. For additional assistance see our installation video at: [www.regosys.com/info](http://www.regosys.com/info)

### Tools Required

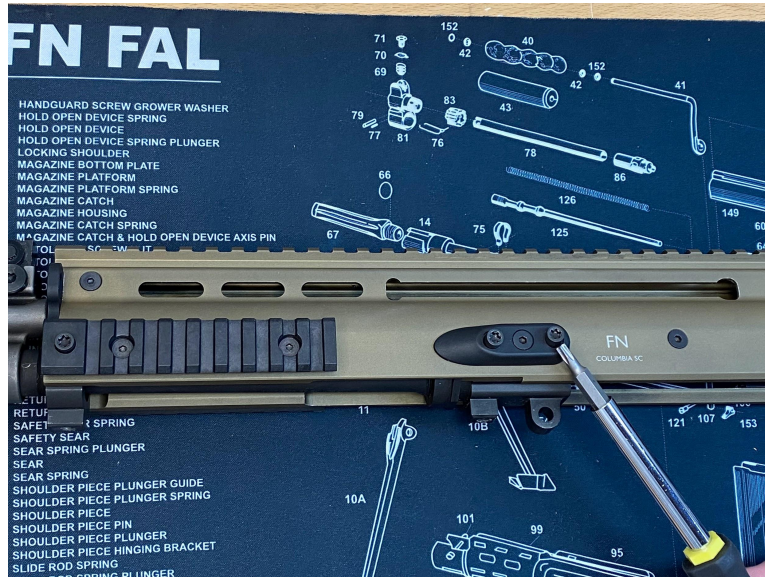
Torx T-25 driver  
Torx T-20 driver  
Torx T-10 driver  
Hex 2.5mm driver  
Torque wrench (0-65 in-lb range)  
Blue threadlocker

## Original Equipment (OE) SCAR Disassembly Steps

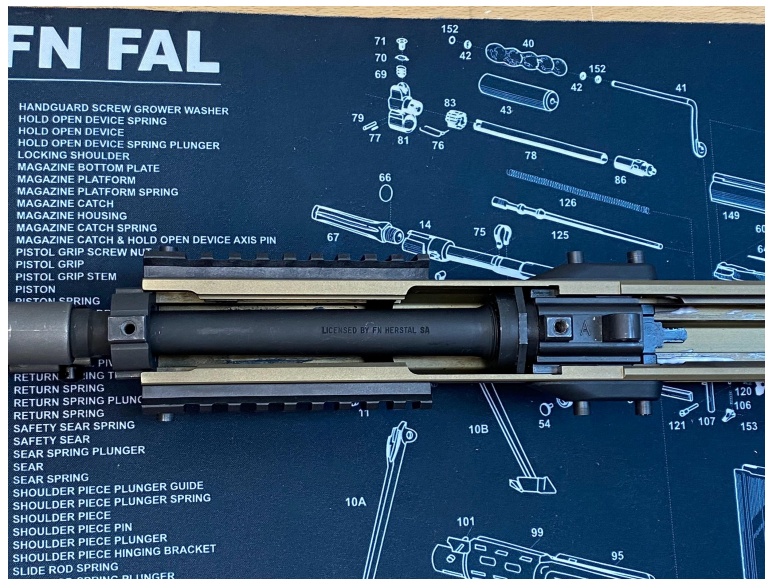
1. Ensure the firearm is cleared and safe, remove all live ammunition from your work area.
2. Field strip your SCAR: Remove the lower receiver, buttstock, recoil spring assembly and bolt carrier group.
3. Uninstall the factory lower picatinny rail by removing the two (2) T25 screws using the T25 Torx driver. These screws have threadlocker applied at the factory so it may take some effort to break them loose. Set these parts aside as they will not be reused.



4. Remove the barrel by loosening the six (6) T25 screws on the receiver sides.
  - a. **Note:** Barrel removal is only required the very first time you install the SMR kit.

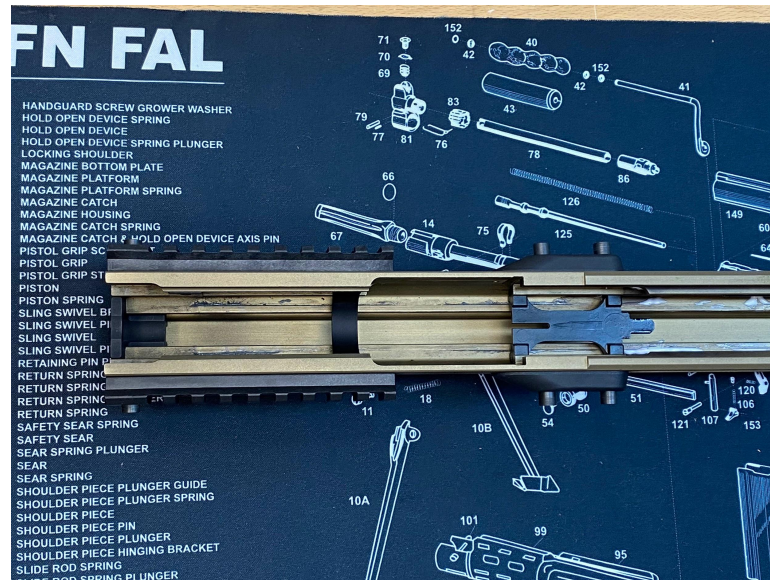


5. Once all 6 screws are loosened, slide the barrel forward about 1". Then slide out the front receiver support.

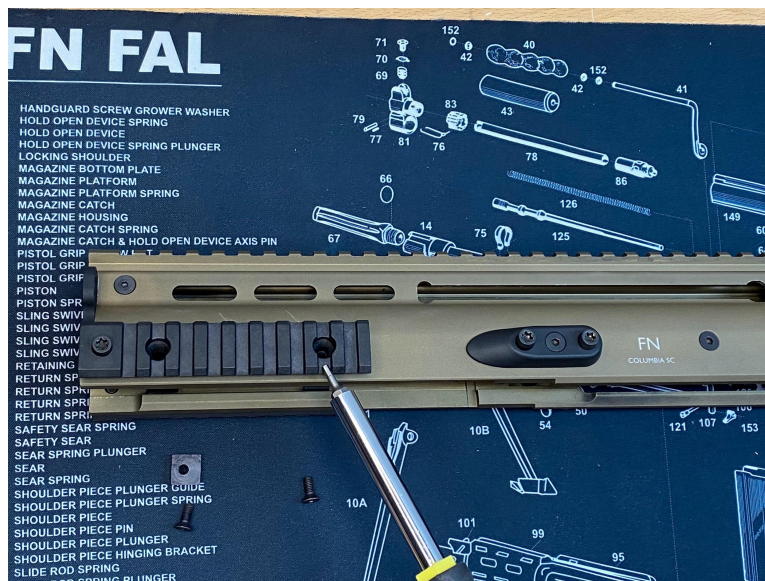




6. Finish completely removing the barrel. Set the receiver support aside as it will not be reused.

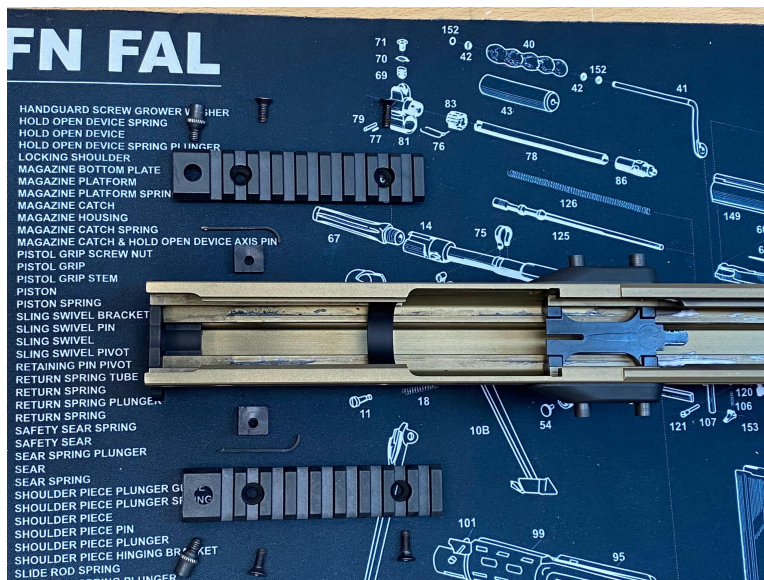


7. Remove the receiver side plastic picatinny rails by removing the two (2) 2.5mm hex screws from each rail.





8. Be sure to capture the two (2) square shaped nut plates that fall out from inside the receiver when the 2.5mm hex screws are removed. Set all of these parts aside as they will not be reused.



9. Clean any threadlocker residue from the 3 holes on each side of the receiver that are now open after removal of the OE parts. For the SMR hardware to fit properly this threadlocker residue must be removed. A small plastic scraper works well, be careful doing this so as not to damage the anodizing.



## SMR Forend Installation Steps

10. Unbox the SMR kit. The SMR bridge is pre-installed into the rail, and there will be 2 small bags with additional hardware.

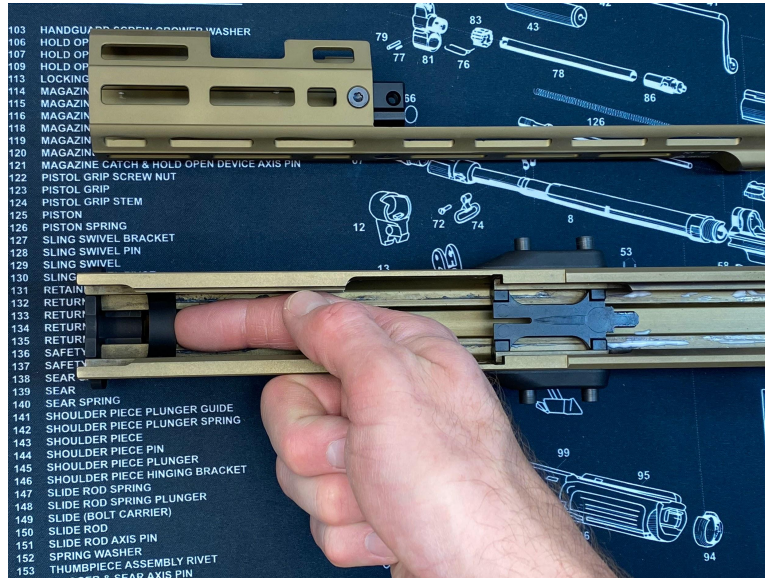


11. Locate the bag with the horseshoe shaped bracket. This part is identical to the one already in your receiver as an OE part. The additional horseshoe bracket included with the SMR kit eliminates the need for the nutplates that were previously removed.

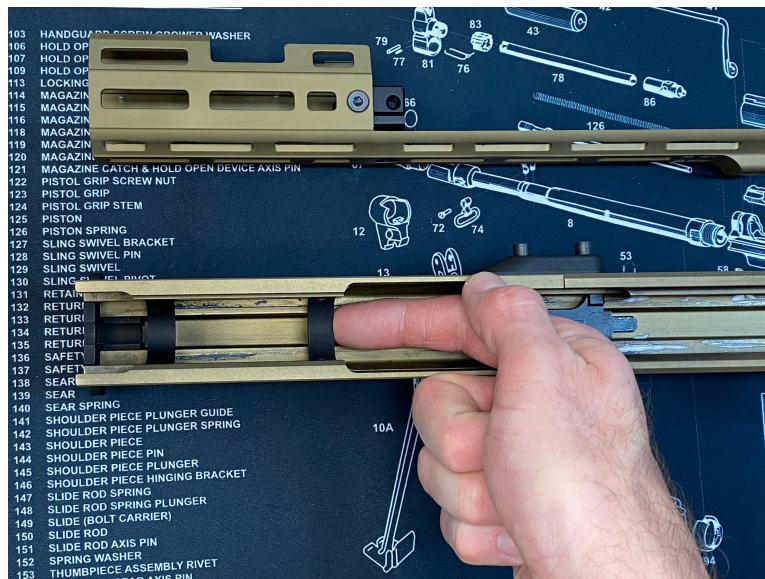




12. Slide the OE horseshoe shaped bracket forward until it aligns with the front oval shaped holes.

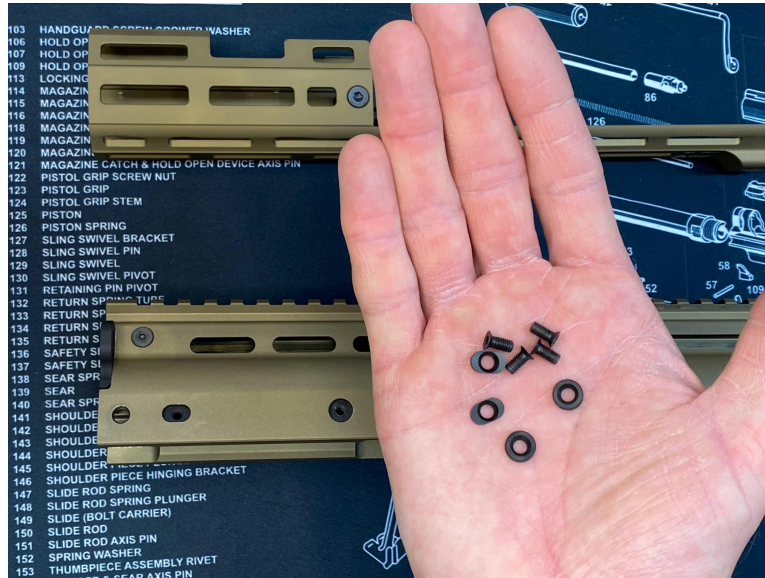


13. Install the Rego supplied horseshoe bracket, and slide it forward to align with the rear round shaped holes. If the brackets fit too snugly, apply gentle outward pressure on the receiver with your hands to help the brackets slide more freely.





14. In the same bag as the horseshoe bracket are eight (8) small pieces of hardware: four (4) CNC machined black Delrin bushings and four (4) custom machined M4x0.7 screws with T10 Torx heads.



15. Install the oval bushings into the oval shaped receiver holes, and the round bushings into the round shaped receiver holes, all with the countersink face facing outwards.



16. Apply blue threadlocker to the four (4) M4x0.7mm screws, and using the T10 Torx driver, install them into the 4 holes with the Delrin bushing, being careful not to cross thread them. Torque to **5 in-lbs** using a torque wrench.

- a. **Note:** These are small screws threading into aluminum brackets, pay careful attention to not overtorque.

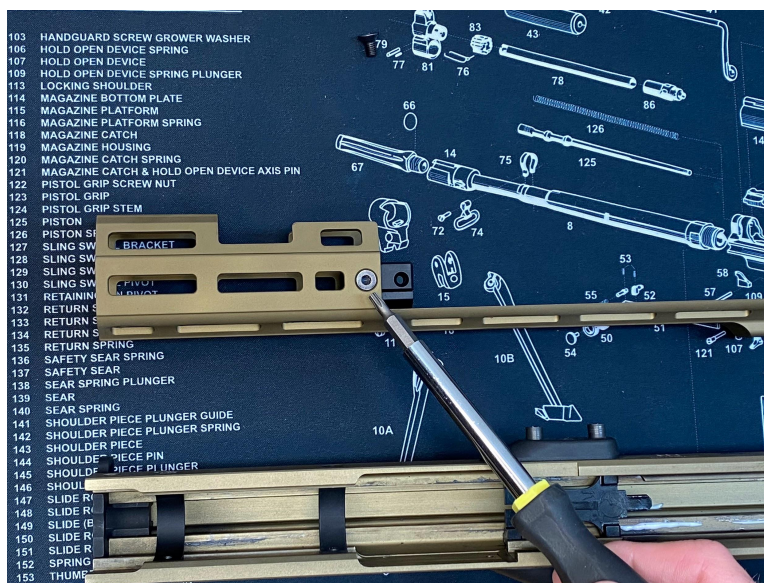


17. Using the T25 driver, remove the one (1) #10-32 screw from the bottom of the SMR rail. Set this screw in a location that prevents it from being confused with the other screws as it will be reused later.

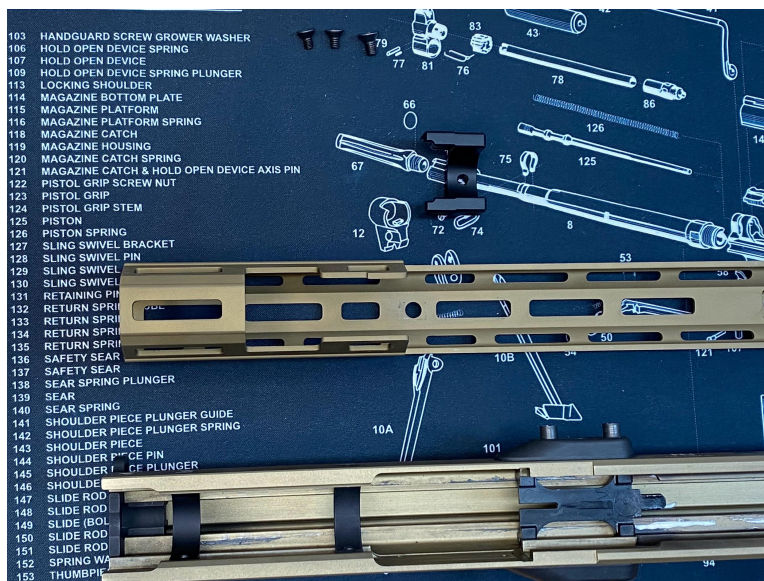




18. Using the T20 driver, remove the two (2) #8-32 screws for the side of the SMR rail.  
These will be reused later.

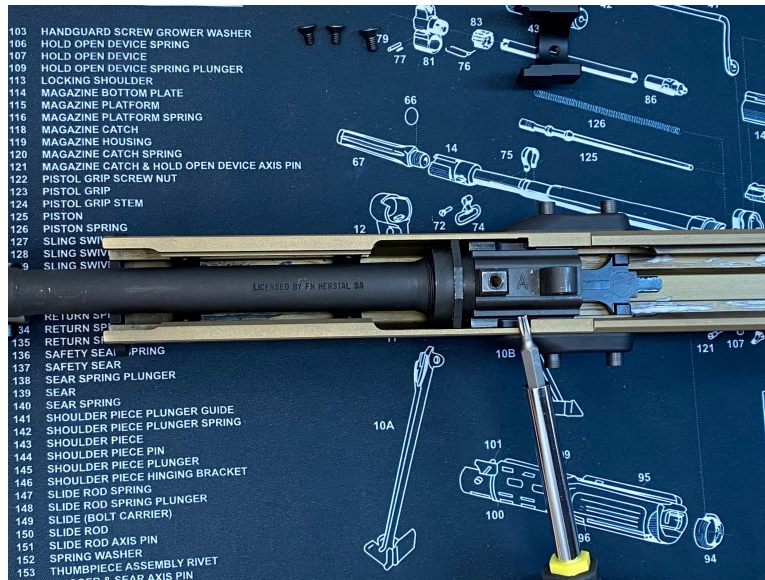


19. Slide the black anodized SMR bridge out from the SMR rail.

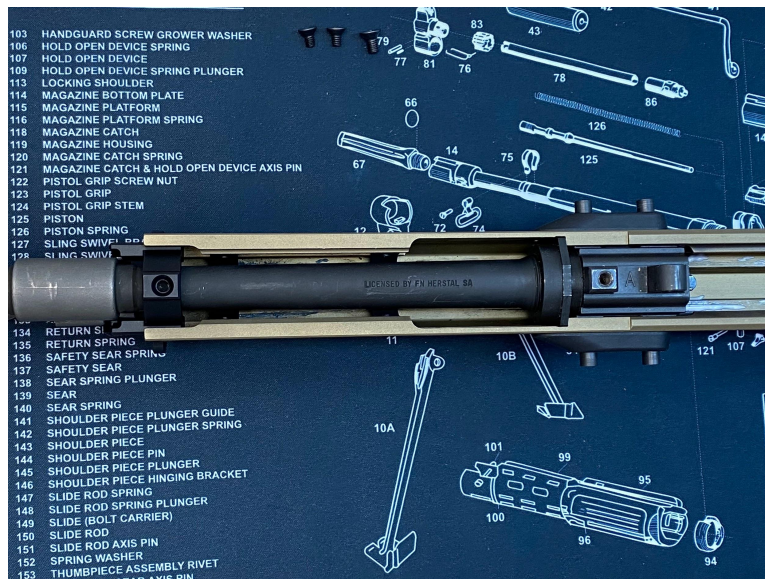




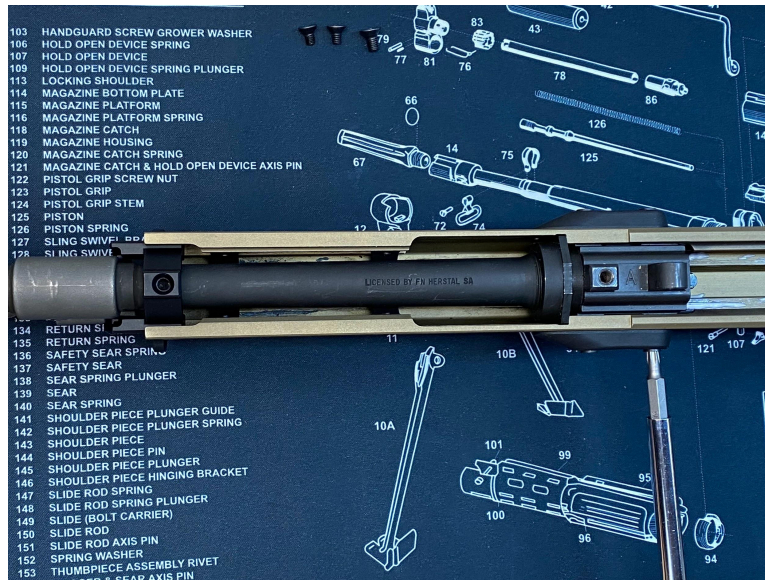
20. Reinstall the barrel into the receiver but don't seat it all the way back in the receiver. Leave it about an inch forward from the fully installed position.



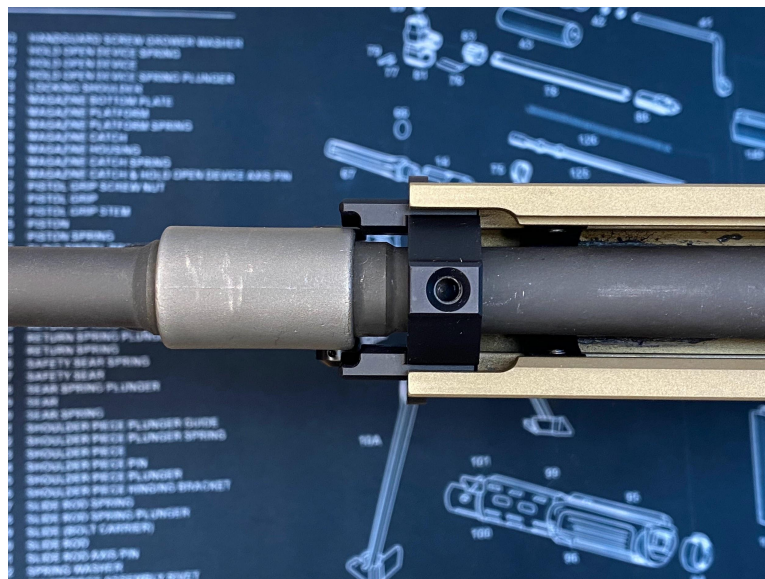
21. Slide the black SMR bridge into the front of the receiver until it stops and the receiver holes are aligned. This will be a snug fit, apply some outward pressure to spread the receiver out slightly using your hand to help the bridge to fit more easily.



22. After the SMR bridge is slid into place, seat the barrel all the way back. Tighten the four (4) T25 screws to 62 in-lbs following the factory torque procedure.



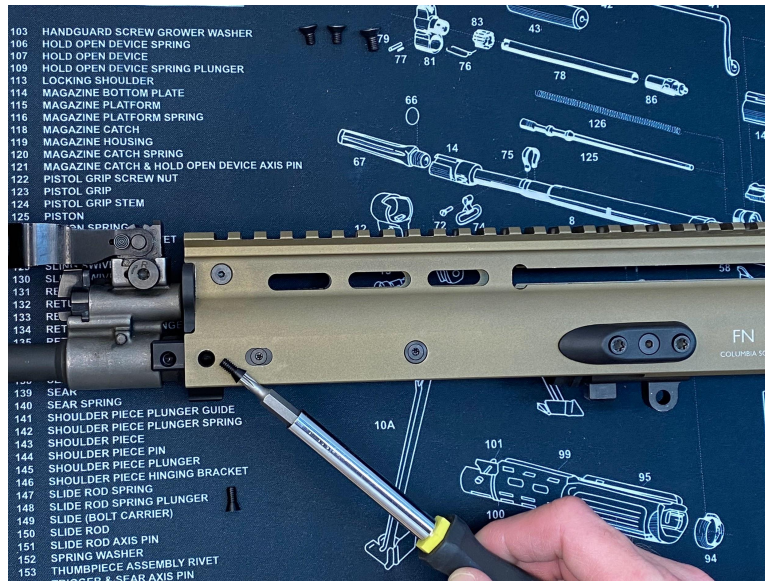
23. Check to ensure the barrel is not canted in the receiver, it must be centered where it passes through the SMR bridge as shown in the picture below. If it isn't, loosen the barrel screws and apply some pressure to center the barrel as you re-tighten the screws.





24. In the second hardware bag locate the two (2) custom flush fit T20 Torx screws. Apply blue threadlocker and install them into the front receiver holes on both sides, leaving them slightly loose to help everything align when you install the rail. These will be torqued later.

- a. **Note:** The SMR bridge is made from 7075-T6 aluminum. While it is very strong, close attention must be paid to the assigned torque values.



25. Check to ensure the SMR rail fits over your muzzle device. If you have an oversized muzzle brake it may need to be removed first before proceeding.



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- 103 HANDGUARD SCREW GROWER WASHER  
 106 HOLD OPEN DEVICE SPRING  
 107 HOLD OPEN DEVICE  
 108 HOLD OPEN DEVICE SPRING PLUNGER  
 113 LOCKING SHOULDER  
 114 MAGAZINE BOTTOM PLATE  
 115 MAGAZINE PLATFORM  
 116 MAGAZINE PLATFORM SPRING  
 118 MAGAZINE CATCH  
 119 MAGAZINE HOUSING  
 120 MAGAZINE CATCH SPRING  
 121 MAGAZINE CATCH & HOLD OPEN DEVICE AXIS PIN  
 122 PISTOL GRIP SCREW NUT  
 123 PISTOL GRIP  
 124 PISTOL GRIP STEM  
 125 F  
 126 F  
 127 SLING SW  
 128 SLING SW  
 SLING SW
- 139 SEAR  
 140 SEAR SPRING  
 141 SHOULDER PIECE PLUNGER GUIDE  
 142 SHOULDER PIECE PLUNGER SPRING  
 143 SHOULDER PIECE  
 144 SHOULDER PIECE PIN  
 145 SHOULDER PIECE PLUNGER  
 146 SHOULDER PIECE HINGING BRACKET  
 147 SLIDE ROD SPRING  
 148 SLIDE ROD SPRING PLUNGER  
 149 SLIDE (BOLT CARRIER)  
 150 SLIDE ROD  
 151 SLIDE ROD AXIS PIN  
 152 SPRING WASHER  
 153 THUMBPIECE AXIS PIN
- Technical drawings include:  
 - Top view of the receiver showing internal components like the magazine housing and catch.  
 - Side view of the receiver showing the trigger guard and pistol grip attachment points.  
 - Detailed views of individual parts such as the sear, slide rod, and shoulder piece.

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- 103 HANDGUARD SCREW WASHER GROWER  
106 HOLD OPEN DEVICE SPRING  
107 HOLD OPEN DEVICE  
109 HOLD OPEN DEVICE SPRING PLUNGER  
113 LOCKING SHOULDER  
114 MAGAZINE BOTTOM PLATE  
115 MAGAZINE PLATFORM  
116 MAGAZINE PLATFORM SPRING  
118 MAGAZINE CATCH  
119 MAGAZINE HOUSING  
120 MAGAZINE CATCH SPRING  
121 MAGAZINE CATCH & HOLD OPEN DEVICE AXIS PIN  
122 PISTOL GRIP SCREW NUT
- 127 SLIDE PLUNGER  
128 SLIDE PLUNGER  
SLIDE  
SLIDE
- 139 SEAR  
140 SEAR SPRING  
141 SHOULDER PIECE PLUNGER GUIDE  
142 SHOULDER PIECE PLUNGER SPRING  
143 SHOULDER PIECE  
144 SHOULDER PIECE PIN  
145 SHOULDER PIECE PLUNGER  
146 SHOULDER PIECE HINGING BRACKET  
147 SLIDE ROD SPRING  
148 SLIDE ROD SPRING PLUNGER  
149 SLIDE (BOLT CARRIER)  
150 SLIDE ROD  
151 SLIDE ROD AXIS PIN  
152 SPRING WASHER  
153 THUMBPIECE ASSEMBLY RIVET
- 10A  
101  
99  
95  
94
- FN  
COLUMBIA

- b. Slide the rear of the rail over the boss on the bottom of the barrel until it stops.



- c. Slide the front of the rail back up until it stops and the bridge holes are aligned.

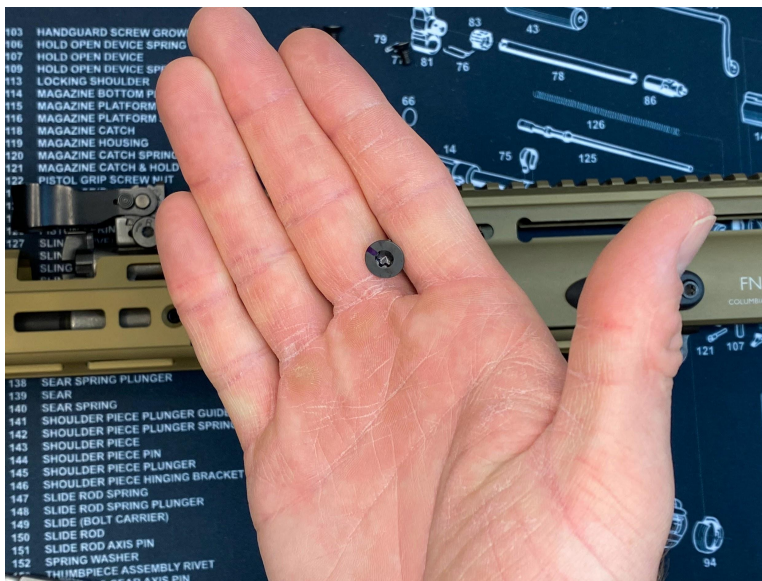


**Note:** It should not take any force to install the rail when following the 3 previous steps. If the rail does not fit over the barrel boss easily, then retry moving the front of the rail down until the rear of the rail slides into place.



28. In the second hardware bag, locate the one (1) M5x0.8x10mm screw with the blue sharpie mark on the screw head.

**Note:** When compared side by side, the M5x0.8x10mm screw has a slightly larger diameter and length than the #10-32 screw that is also used in this kit. These screws are not interchangeable.



29. Apply blue threadlocker, and using the T25 driver install the M5x0.8x10mm screw snugly into the rear hole of the SMR rail.





30. Locate the one (1) #10-32 screw that was previously removed from the SMR rail. Apply blue threadlocker and using the T25 driver reinstall it into the forward lower hole of the SMR rail, leaving this slightly loose until all screws are installed.

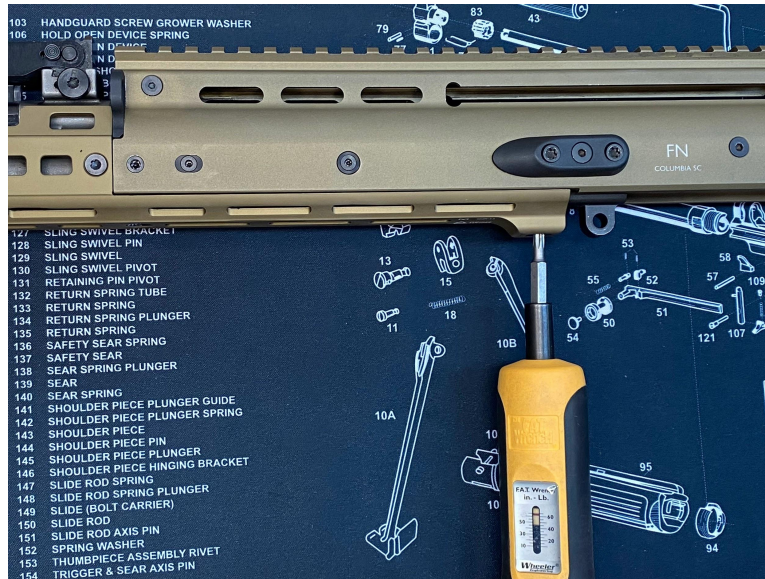


31. Locate the two (2) #8-32 screws that were previously removed from the SMR rail. Apply blue threadlocker and using the T20 driver reinstall them into the forward side holes of the SMR rail, leaving them slightly loose until all screws are installed.



## Torque Specs

Using a torque wrench and T25 driver, tighten the rear M5x0.8x10mm screw to **62 in-lb**



32. Using a torque wrench and T25 driver, tighten the front #10-32 screw to **40 in-lb**

**Note:** Applying excessive torque to this screw can cause damage.





33. Using a torque wrench and T20 driver, tighten the 2 the receiver side screws to **30 in-lb**

**Note:** Applying excessive torque to this screw can cause damage.



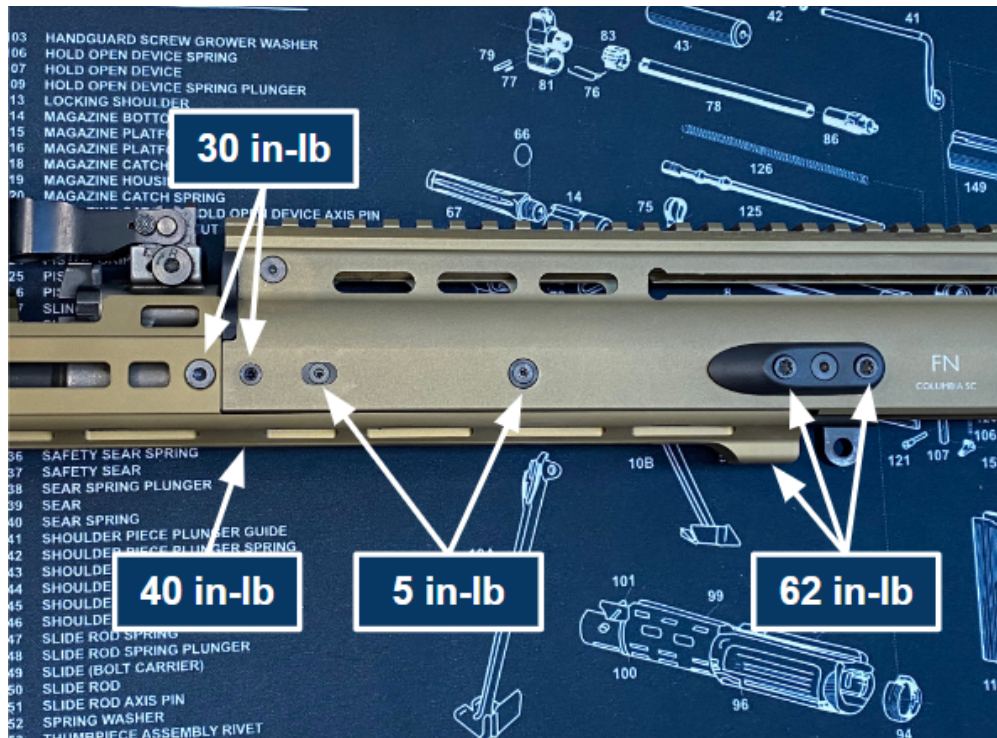
34. Using a torque wrench and T20 driver, tighten the two #8-32 rail side screws to **30 in-lb**

**Note:** Applying excessive torque to this screw can cause damage.





35. All torque specs are pictured below:



36. Reassemble the SCAR with the BCG, buttstock, and lower receiver in the opposite order from which you field stripped it, and you are finished! For additional instructions see our installation video at [www.regosys.com/info](http://www.regosys.com/info)

