

Installation Instructions for the Geissele Super Modular Rail, MK1 for the HK416 Rifle

The Geissele Super Modular Rail (SMR) is easy to install. However, it will need some specialized tools that you may not have. Installation by a certified gunsmith is recommended. Essentially, the stock HK rail is removed in the normal manner, sling loops removed and the Geissele rail slid on just like the stock rail. Refer to Geissele drawing 05-191 (which is included with your new rail) for the positioning of the rail components.

- 1) Make sure weapon is unloaded. Remove the HK rail according to the HK manual. If the weapon is an MR556 proceed to step 3.
- 2) If the upper is a HK416 (not an MR556) the sling loops on the outside of the gas block will need to be removed. The gas block is made from hard and tough steel and the loop material will not cut easily with a saw. The recommended procedure is to use an industrial sander to sand the loops near flush.
- 3) Slide the SMR handguard (Item 1) onto the stock HK barrel nut. Be very careful when doing this as the clearance between the OD of the barrel nut and ID of the handguard is precisely machined to about 0.001" clearance. Burrs or dings on the barrel nut will not allow the handguard to slide freely. It is recommended to lightly coat the barrel nut OD and ID of the handguard with a light film of oil before installing until you get the hang of installation. Slide the handguard against the barrel nut, and then use your fingers to align the other end of the handguard concentric to the barrel so the rail section is not cocked. By wiggling the handguard very slightly and pressing downward it will start on the barrel nut. Once it is about ½" onto the barrel nut it can be slid home. Do not force the handguard onto the barrel nut. If force is needed there is something wrong. Remove the handguard and inspect the OD and ID interface.
- 4) Install the rail mounting bolt. You may have to slightly slide the handguard to line up the hole with the groove in the barrel nut in order for the bolt to start. Once the bolt starts and turns a couple of revolutions it will become stiff to turn. The steel insert into which the bolt threads tighten is a locking insert, which means they will grip the bolt threads with a prevailing torque and prevent loosening or backing out of the bolt.
- 5) Tighten the rail mounting bolt to approximately 10 ft-lbf. The head of the bolts is sized for a 12 point 3/8" socket or wrench, or the wrench of a Leatherman® MUT multitool. In a pinch the lug of the weapon locking bolt can be used in the cross imbedded in the bolt head. If a torque wrench is not available or when using the bolt carrier assembly use your best tightening judgment but do not over tighten. Note the stock HK bolt can be used in place of the Geissele bolt.
- 6) Install accessory rails (Items 2 and 3). Using the supplied flat head screws (Item 4) and 1/8" Allen key (Item 5) attach the accessory rails at the desired location on the SMR. It is not recommended to use any locking compound (Loctite) on the screws since the shear lugs on the back of the accessory rails take the majority of applied loads to the rails. However, if the accessory rails will be permanently installed use only Loctite 222 purple locking compound. Do not use the blue, red or green compounds. Note: if the very rear location is used to install an accessory rail the screw threads will

enter the groove in the barrel nut and prevent the rail from being removed. Slightly shortening the screw used at this location will solve this issue.

- 7) Installation is now complete. If any questions arise during installation please email sales@geissele.com or call the shop at (610) 272-2060 to speak to a technician.

SMR Installation Instructions, HK416 Rev. 05 Sept 2012