

TyrolSport Solid Rack Bracket Installation Instruction

Tools Needed:

21mm socket

16mm socket

13mm socket

10mm wrench or socket

8mm Allen (Hex Key, Allen Key) socket

Torque wrench (1/2" drive)

3/8 drive breaker bar or ratchet

1/2" drive breaker bar or ratchet

Drill with 19/64" drill bit (or close)

Kit Contents:

1x CNC Solid Rack Bracket

2x Stainless M10 Cap Screws

2x M8 Stainless hex nuts

1x Stainless M6 Bolt w/ stainless fender washer

1x Anti-seize compound

1x Adel Clamp



Arrow direction indicates front of car.

The first step is to remove the bolts for the sway bar end links using a 13mm socket.



With the end links removed, we will remove the bolts that attach the steering rack to the subframe with the same 13mm socket:



The two bolts for the lower dogbone mount are removed as well using a 16mm socket:



The next step is to lower the subframe. Remove the bolts highlighted in red with a 21mm socket. Proceed by supporting the subframe with a transmission jack, or a floor jack if working on the ground.



With the subframe lowered, the steering rack can be accessed.



The next step is to remove the heat shield from the top of the steering rack. You will need the 13mm socket to remove the bolts holding the heat shield down.





Heat shield removed:



The stock rack bracket is removed in two pieces – a metal U and a soft rubber insert.





The TyrolSport Solid Rack Bracket can now be installed. It will rest on top of the subframe, with the “TyrolSport” logo facing the center of the car.



The two steering rack bolts can now be threaded into the stainless M8 nuts provided in the kit. The nuts will sit within the recess machined into the TyrolSport Solid Rack Bracket.



With the lower half of the rack bracket loosely bolted to the subframe, the steering rack can be reinstalled. Be sure to have the bolts on the driver side of the steering rack started first, followed by the TyrolSport Rack Bracket second.



The driver side of the steering rack has two tapered guide pins that allow it to align with the subframe. Be sure to seat the steering rack into the subframe before tightening down the steering rack bolts.





With the driver side of the steering rack bolted down, the passenger side of the steering rack will be slightly above the TyrolSport Solid Rack Bracket:



With the steering rack in place over the TyrolSport Rack Bracket, the top cap of the Rack Bracket can be installed. The top cap of the Rack Bracket is asymmetrical, with the D recess facing towards the front of the car. The D shape recess is a feature of the TyrolSport Rack Bracket which accommodates the supplied Adel clamp or the OEM power steering line clamp (if drilled for the M10 bolt) seen above and below:



The provided anti-seize compound will be applied to the stainless bolts for the top of the rack bracket:





Proceed by lightly tightening down the TyrolSport Rack Bracket. The Rack Bracket should only have a slight, even gap between the top and bottom half when fully seated. Be sure to tighten down both sides evenly:



The next step is to trim the steering rack heat shield so the steering rack bolts can be accessible:



Before reinstalling the heat shield, there is one more modification to make. We use a $19/64$ " drill bit to make a hole in the heat shield where it will mount to the Rack Bracket. This will be located approximately 2" from the edge of the heat shield, at the center of the radius.



We then trimmed some excess material off to give the heat shield a nice rounded edge. This M6 bolt received anti seize compound as well.



Now that the heat shield is in place, the rest of the heat shield will need to be re-bolted down. These are only tightened until snug.

The Subframe will have to be bolted to the underside of the car before you can fully tighten the steering rack. The torque spec for the subframe bolts is 74 ft/lbs +90 degrees (when using new subframe bolts).

The steering rack to subframe is tightened until snug. Be careful on the aluminum threads in the steering rack, as well as the dogbone mount on the transmission.

Finally, the front swaybar end links are reinstalled and tightened until snug.

For any questions regarding this product or the installation procedure, please do not hesitate to call us at (917)626-3368 or to contact us via email at support@TyrolSport.com

Thank you for your support!