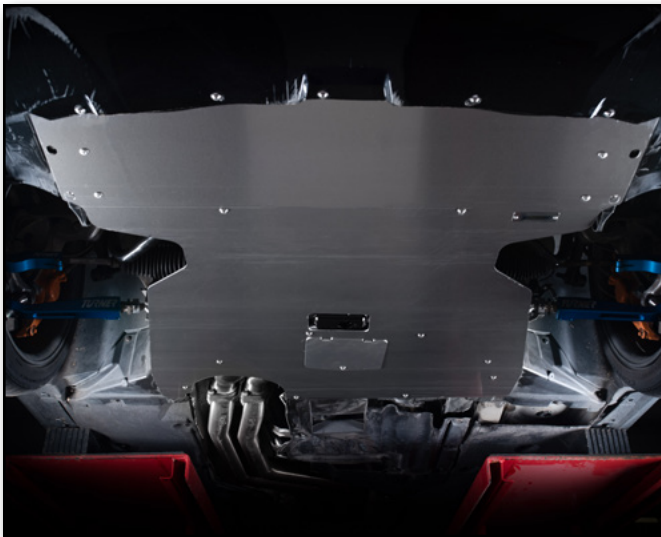
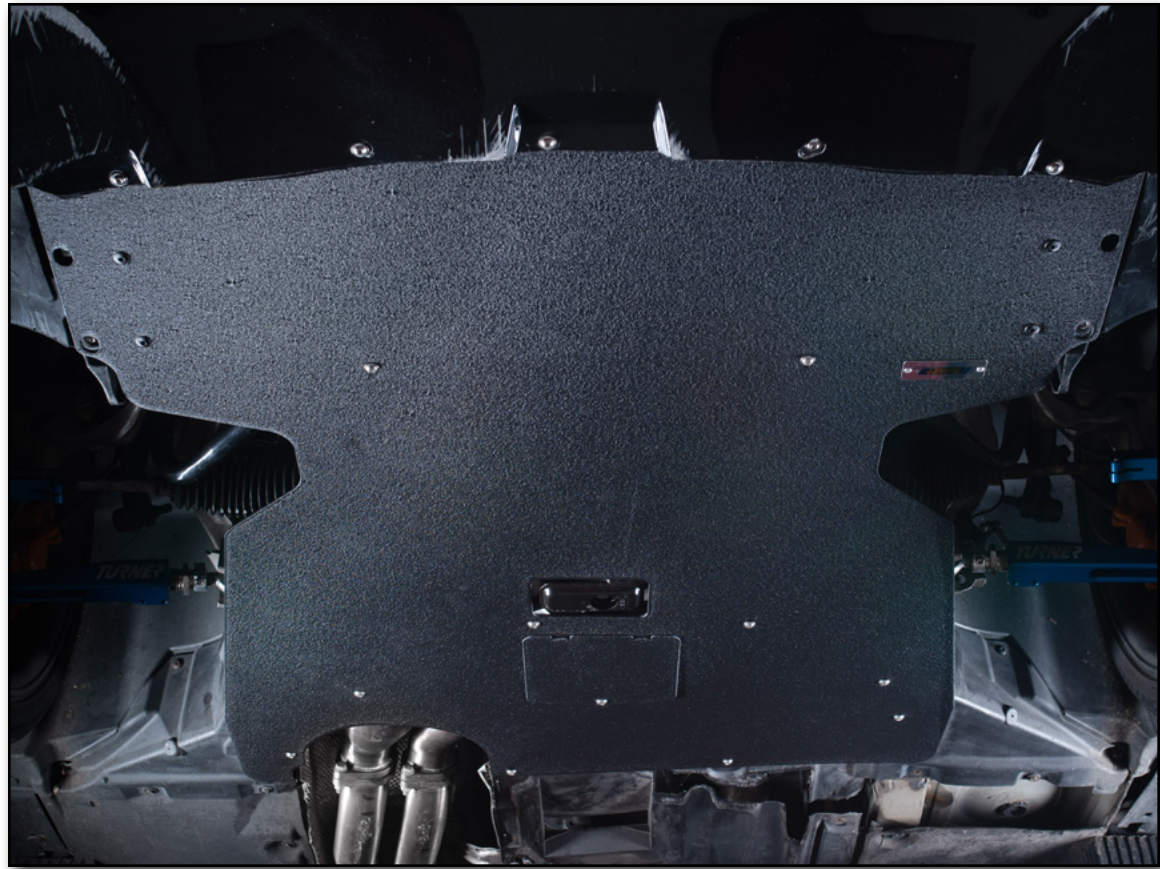
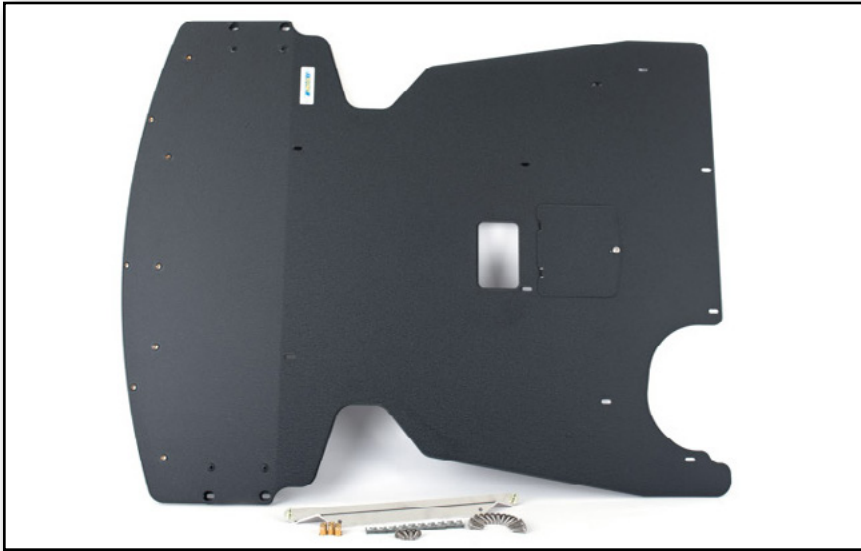




BMW E9x Non-M Skid Plate Kit Installation Instructions



Proper service and repair procedures are vital to the safe, reliable operation of all motor vehicles as well as the personal safety of those performing the repairs. Standard safety procedures and precautions (including use of safety goggles and proper tools and equipment) should be followed at all times to eliminate the possibility of personal injury or improper service which could damage the vehicle or compromise its safety.

INSTALLATION NOTES

- **RH** refers to the *passenger side* of the vehicle.
- **LH** refers to the *driver side* of the vehicle.
- Always use the proper torque specifications.
- If applicable to this installation, torque specifications will be listed throughout the document and at the end as well.
- Please read all of these instructions and familiarize yourself with the complete process **BEFORE** you begin.

GENERAL PREPARATION AND SAFETY INFORMATION

Turner Motorsport cares about your health and safety, please read the following safety information. This information pertains to automotive service in general, and while it may not pertain to every job you do, please remember and share these important safety tips.

- Park your car in a safe, well lit, level area.
- Shut the engine off and remove the key from the ignition switch.
- Make sure any remote start devices are properly disabled.
- **ALWAYS** wear safety glasses.
- Make sure the parking brake is applied until the vehicle is safely lifted and supported.
- Whether lifting a vehicle using an automotive lift or a hydraulic jack, be sure and utilize the factory specified lift points.
- Lifting a vehicle in an incorrect location can cause damage to the suspension/running gear.
- **ALWAYS** support the vehicle with jack stands.
- **ALWAYS** read and follow all safety information and warnings for the equipment you are using.



NEVER get underneath a vehicle that is supported only by a jack, and **ALWAYS** make sure that the vehicle is securely supported on jack stands.

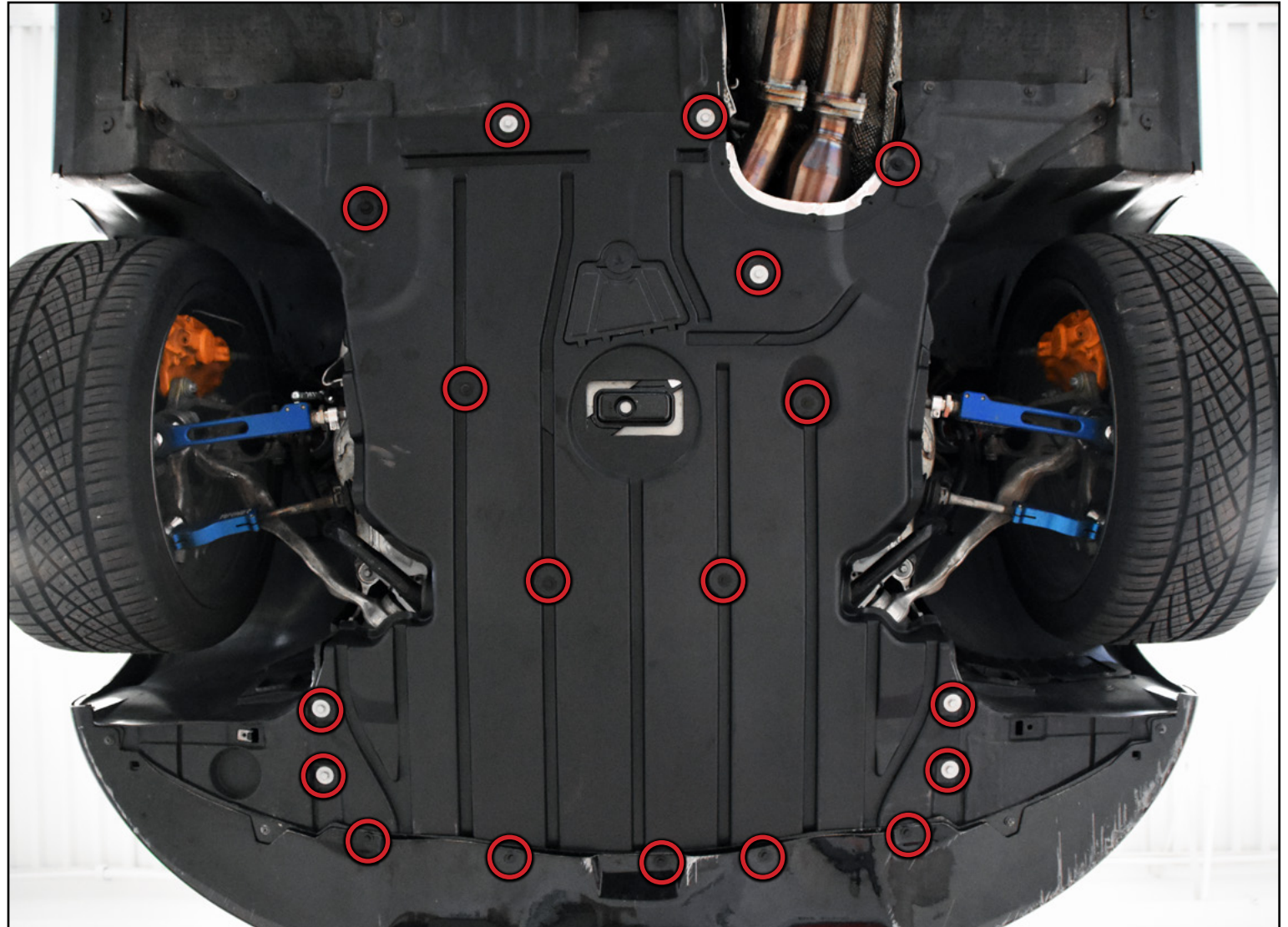
INSTALLING THE SKID PLATE KIT

Step 1: 8mm, 10mm Socket & Ratchet

First, safely lift and support the vehicle, then remove the fasteners (circled in **RED**) and remove the factory plastic belly pan from the vehicle.



Bolt locations and quantities may vary slightly depending on your vehicle.



INSTALLING THE SKID PLATE KIT

Step 2: 8mm Socket & Ratchet

Remove the two screws (highlighted in **RED**) which secure each belly pan bracket to the vehicle. Remove the brackets.



Step 3:

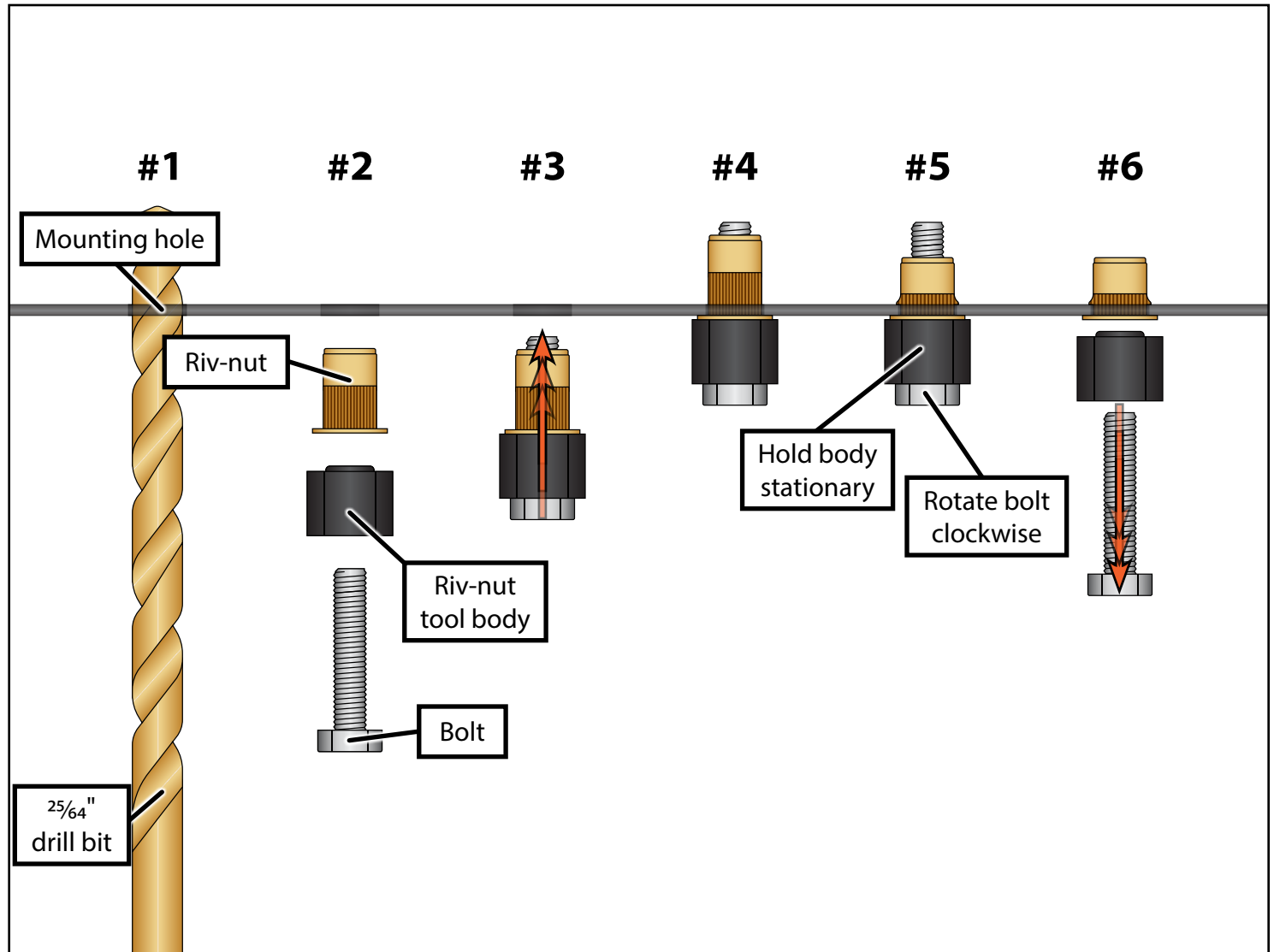
Next, take note of the locations of the plastic expanding nuts which are circled in **BLUE** in the photo, these are the first locations where we will be drilling holes and installing riv-nuts in the next step.



INSTALLING THE SKID PLATE KIT

Step 4: Drill & $\frac{25}{64}$ " Drill Bit, 15mm Wrench, 10mm Socket & Torque Wrench

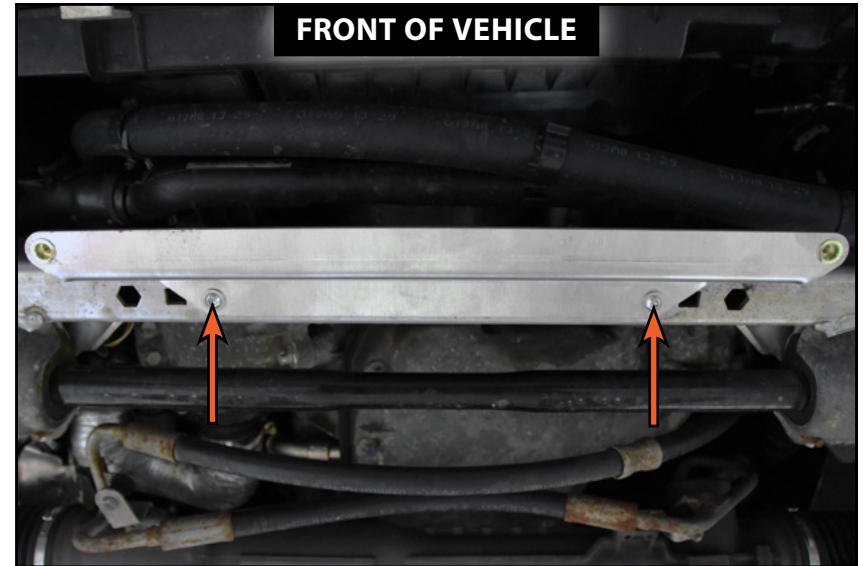
Prepare the mounting hole by drilling it out using a $\frac{25}{64}$ " drill bit (#1). Align the riv-nut tool body with the flanged side of the riv-nut (#2), then thread the screw through the tool body and into the riv-nut by hand until it is fully seated (#3). Insert the riv-nut into the mounting hole, making sure that it is fully seated (#4). Next, while holding the tool body stationary with a wrench, rotate the tool pressing bolt clockwise to expand the riv-nut (#5). Torque the bolt to 15 Nm (11 Ft-lbs), then remove it and repeat this procedure to install the other riv-nut (#6).



INSTALLING THE SKID PLATE KIT

Step 5: 4mm Hex (Allen)

Install the new skid plate bracket into the riv-nuts we just installed into the vehicle using two of the provided M6 x 20mm screws (arrows).

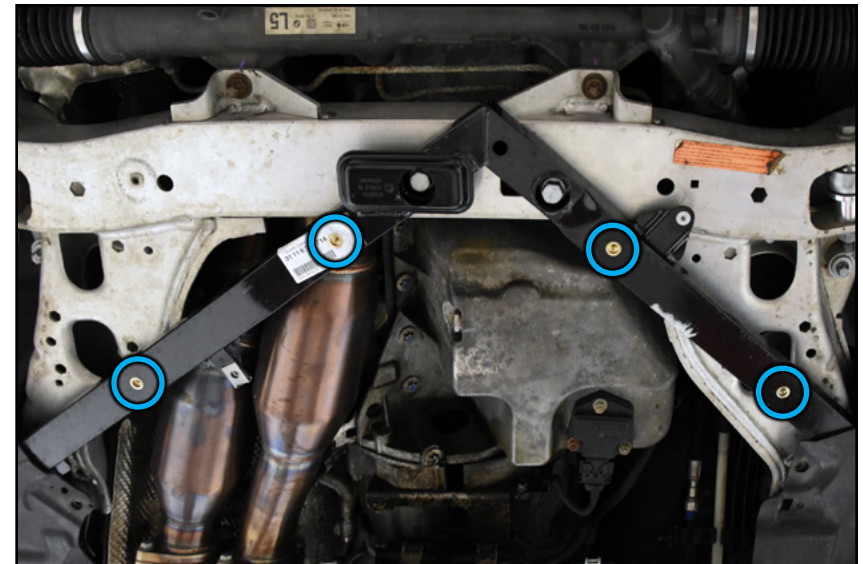


Step 6: 4mm Hex (Allen)

Next, take note of the pre-made holes in the subframe brace which are circled in **BLUE** in the photo, these are the locations where we will be installing the remainder of the riv-nuts in the next step.



Installing the riv-nuts into the subframe brace requires a different method from the riv-nuts we just installed, please proceed to the next page for instructions for proper installation.

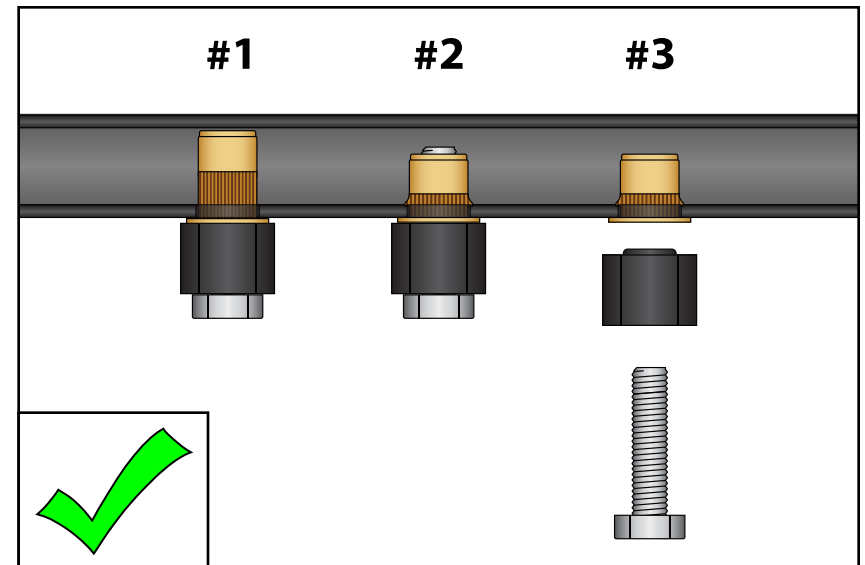
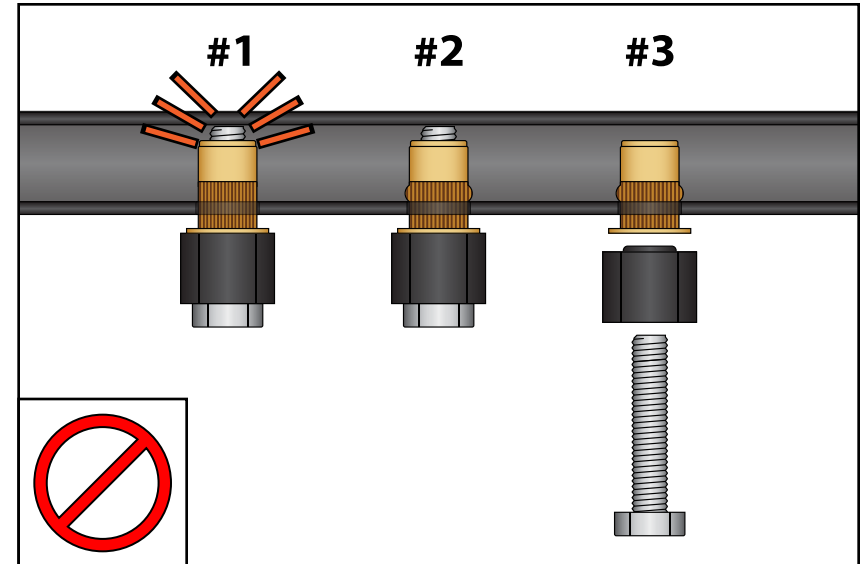


INSTALLING THE SKID PLATE KIT

Step 7: 15mm Wrench, 10mm Socket & Torque Wrench

Because of the limited clearance inside the subframe brace, the end of the riv-nut tool bolt comes into contact with the other side of the brace, preventing the riv-nut from being fully seated into the hole. If you attempt to expand the riv-nut it will create a gap between the riv-nut and the mounting hole as seen in the illustration on the top. This gap will allow the riv-nut to spin if you attempt to mount a bolt in the hole.

We have included a shorter riv-nut tool bolt in your hardware kit which creates enough space to allow the riv-nut to be fully inserted without any contact as shown in the illustration on the bottom. Discard the bolt that comes with the riv-nut tool and use the new bolt provided in its place. You can then expand the riv-nut as we did before, just be sure that the lip on the riv-nut remains fully flush while expanding.



INSTALLING THE SKID PLATE KIT

Step 8: Flat Head Screwdriver

Pry the plastic expanding nut and speed clip (arrows) out of the ends of the subframe brace as shown.



Step 9:

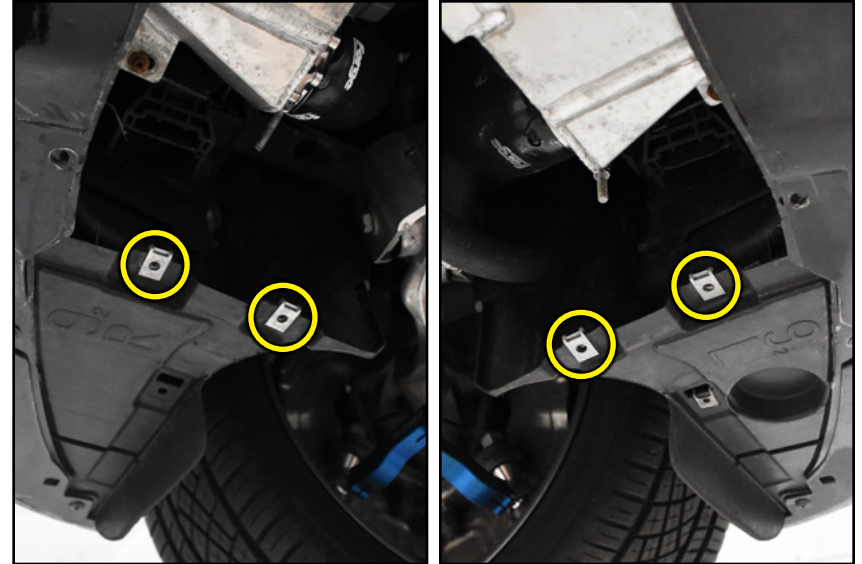
Install two of the provided clip nuts (circled in **YELLOW**) in the place of the fasteners we just removed.



INSTALLING THE SKID PLATE KIT

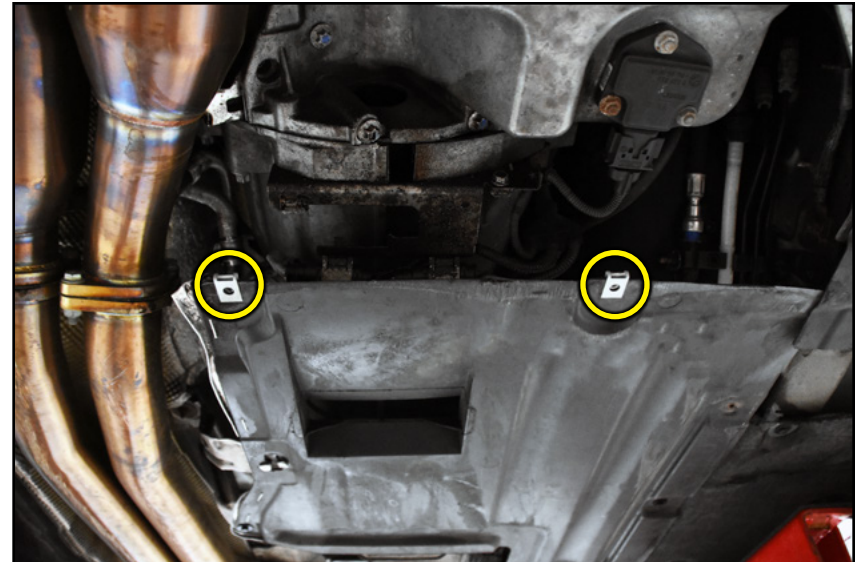
Step 10: Flat Head Screwdriver

Pry the four clip nuts off of the lower fender liners and install four of the provided clip nuts (circled in **YELLOW**) in their place as shown.



Step 11: 4mm Hex (Allen)

Pry the 2 speed nuts off of the transmission belly pan and install two of the provided clip nuts (circled in **YELLOW**) in their place as shown.



INSTALLING THE SKID PLATE KIT

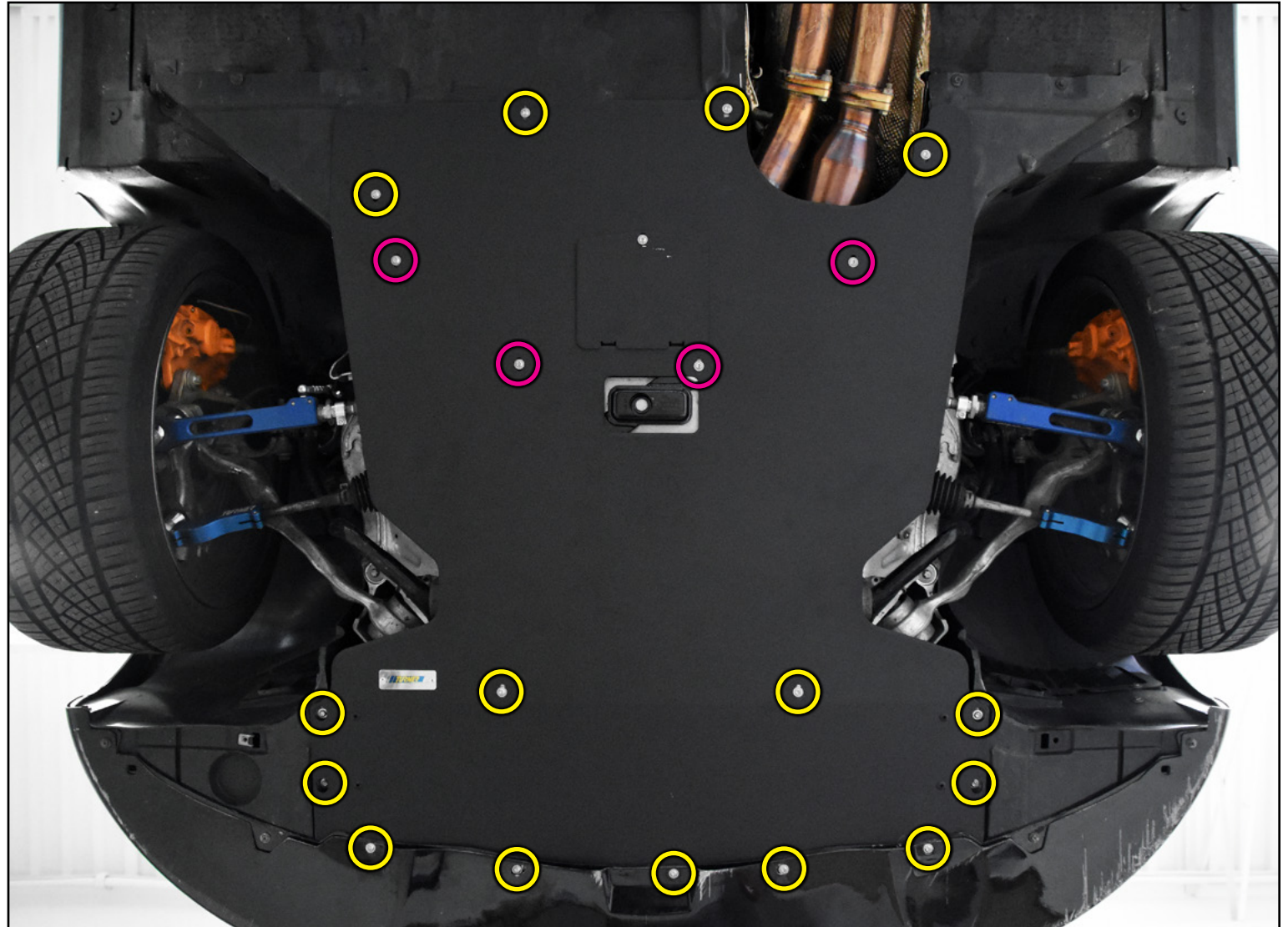
Step 12: 4mm Hex (Allen)

Carefully slide the skid plate under the bumper, then begin loosely installing all of the screws using the photo on the right and the color guide below, then tighten all the screws until they are snug.

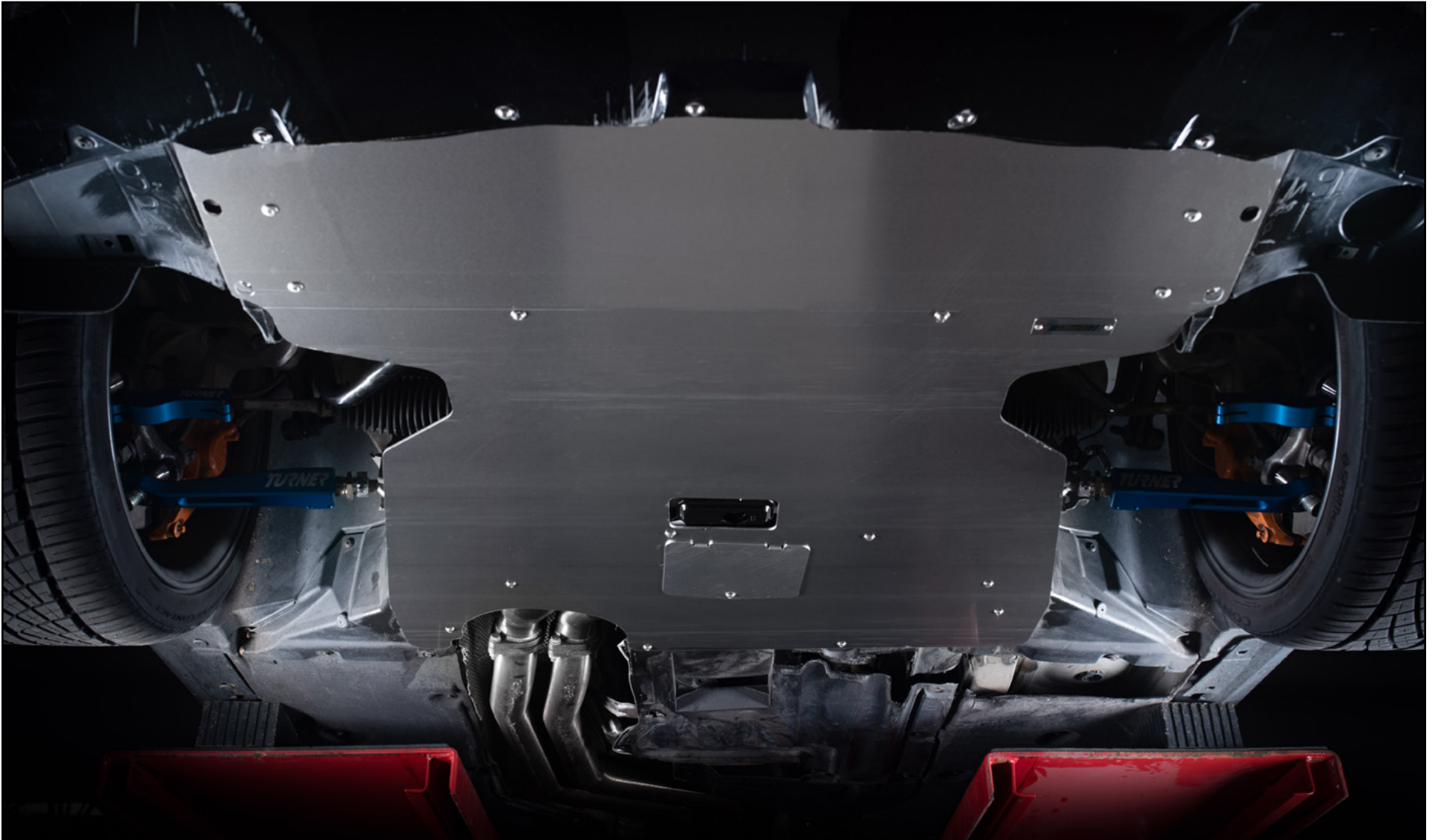
 **M6 x 16mm Screws**

 **M6 x 20mm Screws**

***Congratulations,
your installation
is complete!***



Your Skid Plate installation is complete!



These instructions are provided as a courtesy by Turner Motorsport

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