



## Installation Procedures

### MK5 OEM HD Skid Plate Install Instructions

**This tutorial is provided as a courtesy by ECS Tuning.**

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.

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### **Safety first:**

When performing any work on your vehicle it is important that you make safety your main concern. Properly support the vehicle with jack stands on each side. Never work under a vehicle supported only by a jack.

Before you undertake this installation, it is important that you read these instructions; and that you also have the necessary tools and skills required to complete the job. If the installation of this product seems overwhelming, please contact a qualified installer in your area.

### **Tools needed:**

- Jack
- Jack Stands
- Ratchet
- 13mm socket
- 14mm socket
- 15mm socket
- 18mm socket
- 19mm wrench
- Torque wrench
- T25 Torx

Begin this installation by first removing any plastic belly pans currently on your car. They will need to be removed to make room for the brackets for the new skid plate.

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Locate the 3 hex shape holes in the frame rails on the front of the car where the rivets must be installed and where the skid plate brackets will mount.



There will be two on the driver's side and one with a stud on the passenger side. It may be necessary to loosen the bolt holding the horn in place and reposition it on the driver's side to make room for the new bracket. Also, removing the intercooler hose on the passenger side will make installing the passenger side bracket possible.

To install the rivets you must use the supplied 10mm x 40mm flanged bolt and 19mm nut. First apply grease to all the mating surfaces of the nut and bolt and the threads of the bolt, the more grease the better.



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Hand tighten the rivet, bolt, and nut together and then insert it into the hole. Use a 19mm wrench to keep the nut from turning while tightening the 15mm bolt, keep steady pressure against the bolt and rivet to insure the rivet is seated correctly.



Doing this will cause the rivet to “smash” down on itself making it nearly impossible to remove. After initially getting the bolt snug, tighten the bolt to 36ft-lbs with a torque wrench. After installing the rivets you can discard this nut and bolt as it is only used to install the rivets.

Then bolt both forward brackets to the frame rails using the M10 triple square bolts. On the passenger side first bolt the shorter bracket to the rivet and then use the supplied nut to hold the other side of the bracket.



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Then install the forward carrier bracket using (2) M10 triple square bolts on the left and right sides. Then be sure to reinstall the intercooler hose.



Use the (2) new 12mm stretch bolts to attach the rear bracket to the sub frame. You will have to remove the existing ones to do this.



After that you can bolt the skid plate to the brackets that were installed using the (5) 8mm bolts. Then use the (8) T25 screws to attach the side shields to the new skid plate and the install is complete.

