



## BMS E7X X5M/X6M S63 Stage1 Install Guide

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## Stage 1

The Stage 1 install consists of two pairs of TMAP sensor connectors.

Start by disconnecting the battery's negative terminal in the trunk. Don't close the tailgate while the battery is disconnected.

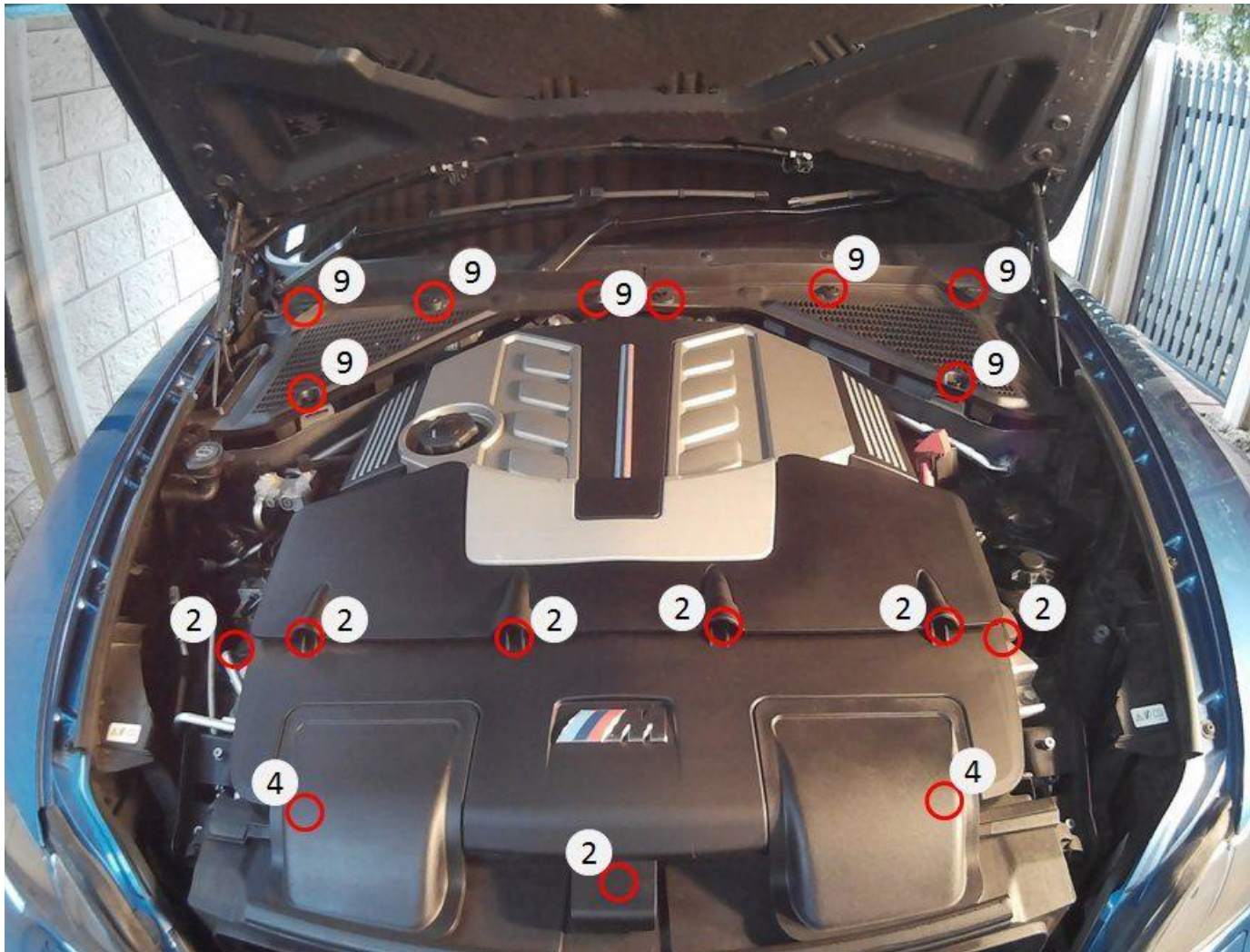
Step 1. Remove your negative battery terminal.

- Open your rear compartment cover with the handle near the tailgate. There's five phillips head screws you'll need to remove to access the battery under the plastic cover/bin. Once you have this plastic cover off, you can loosen the negative terminal using the 10mm socket and set aside.

## Installing TMAP Sensors

2. Remove the air intake/filter assembly.

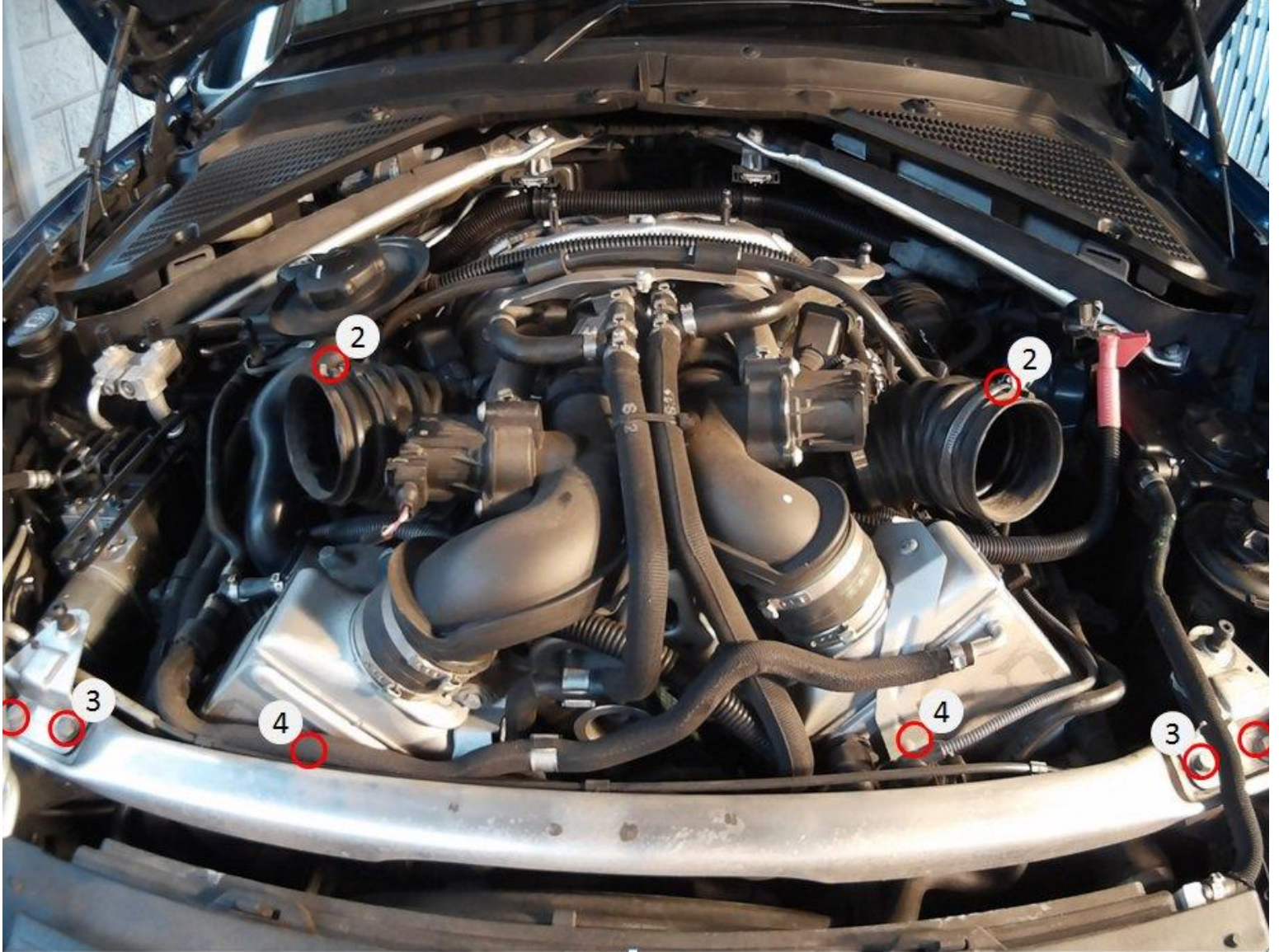
- You can either separate the two parts of the air assembly using a T27 TORX bit (four screws accessible looking towards engine - warning they strip easily) or loosen the two O-Ring clamps holding the assembly onto the turbo intake \*\*\*\*\*. Once these are free, you might have to carefully pry the rubber flex join to pull it off the turbo intake section (can be sticky from heat etc.). The whole air assembly is held down with three positive-push anchors - two on the front sides and one in the middle at the front.



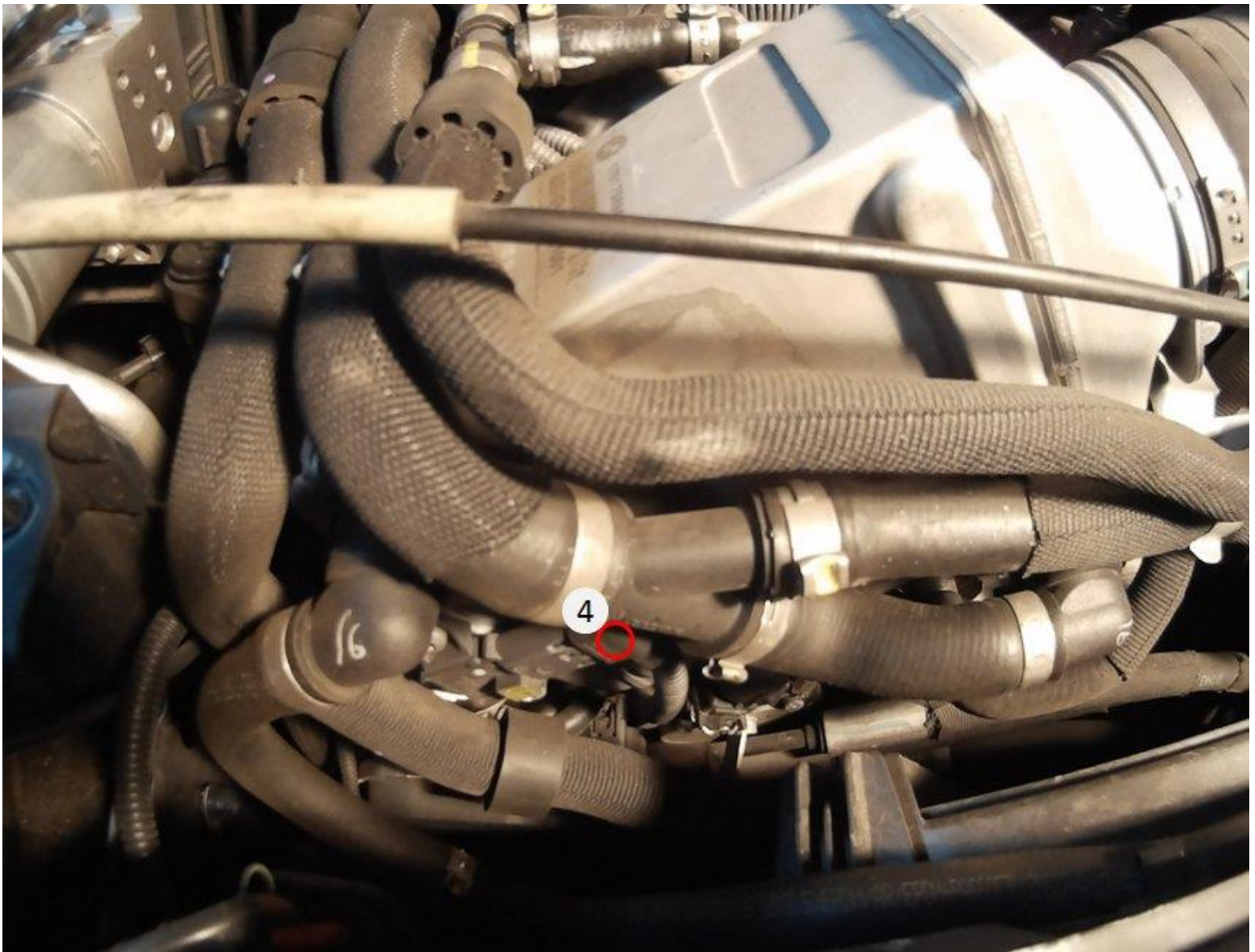


3. Remove the aluminium front cross brace. Use the 13mm socket to remove the four bolts and slide to one side to allow the other end to clear.

4. The factory TMAP sensors are located on the front of the intercoolers - you can easily identify them from the same type of plug as your Stage1 loom. Depending on your drive orientation (RHD/LHD), overlay the Stage1 loom to figure out how you're going to secure the cables. You can use the back side of the crossbrace to route the harness across the front of the motor. You will be placing the Stage 1 control box toward the passenger side of the vehicle in a later step.







5. Unplug the factory TMAP plugs and insert JB4 loom onto sensors and factory plugs.
6. Reinstall the crossbrace and secure the TMAP loom using cable ties or similar.
7. Reinstall air intake assembly, using flat head screwdriver to tighten O-Ring clamps.
8. Identify the correct side of your engine bay for the factory ECU - you should not be able to see any brake plumbing.
9. Remove the top "vented" quarter cover using the 13mm socket to quarter-turn each of the plastic retaining bolts to open position. Remove the cover only on the passenger side.
10. Route the Stage1 harness to the corner compartment. Place the Stage1 control box in a protected area of the corner enclosure, preferably under the HVAC filter assembly for weather protection.
11. Replace the vented cover, reconnect the battery.

Start the vehicle, and drive around normally until it reaches operating temperature. Then with progressively heavier throttle applications, make sure you allow the vehicle to adapt to the new power.

Installation is complete!