



BMS B48/B58 JB4 BETA Install Guide

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When working with live wires ALWAYS disconnect the negative battery terminal in the trunk first. Do not attempt to install the tuner, connect the tuner box to the harness, or otherwise work on the vehicles electrical system with the battery connected. Doing this may result in a damaging voltage spike being sent to the DME.

Note the BMW X1 Models equipped with the B46 and B48 engines use the same hardware but require the MINI B48 firmware to be loaded. The sensor positions are also per the MINI B48 JB4 install guide. If you selected X1 B46/B48 during checkout then the firmware should be properly loaded for you. If not JB4 firmware can be updated at home using a BMS DATA cable.

1) Remove the plastic engine cover. The cover simply lifts off. Also remove the driver side cowl cover which is secured by 3 10mm plastic release bolts. Turning the bolts 90 degrees each will release the tab and allow you to pull the cover off.

2) The harness is divided in to wire loops each with its own wire color which will be routed to a specific sensor on the vehicle. In addition there is a pair of green and brown CAN wires that will connect to the CANbus using the included OBDII adapter.

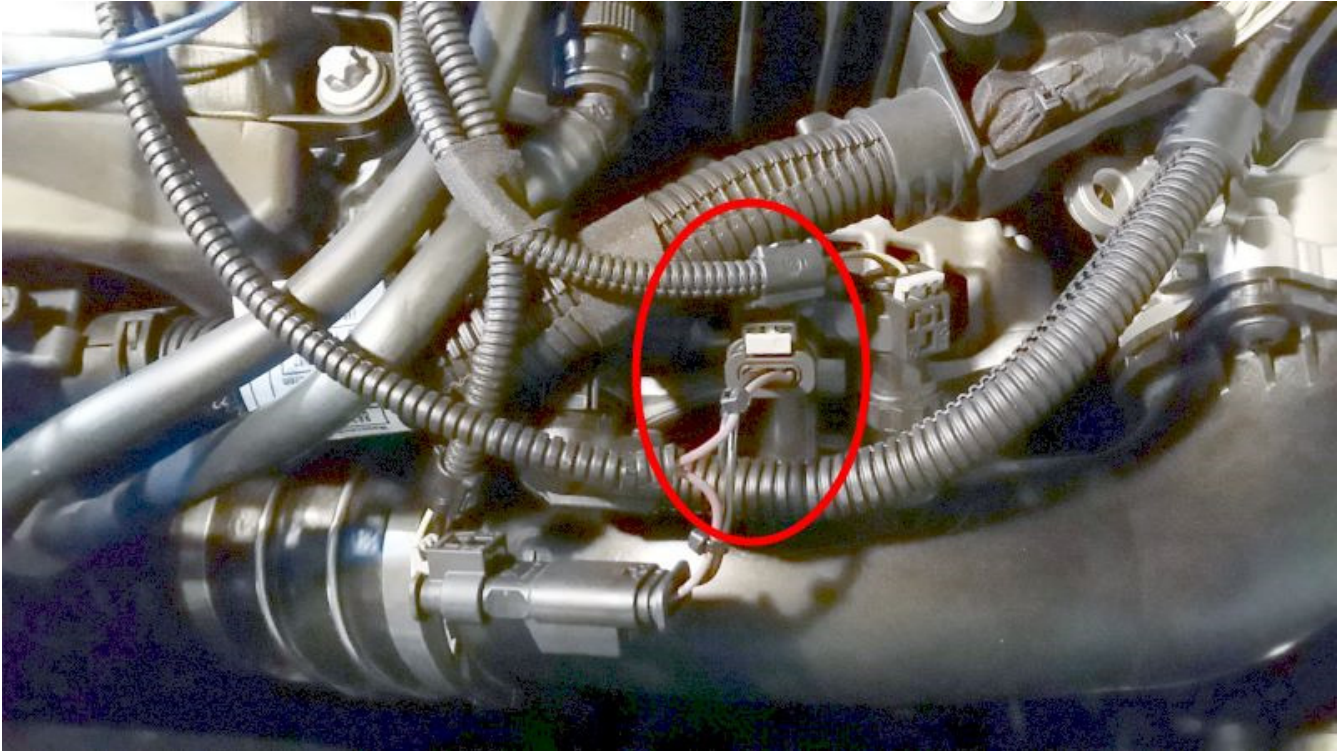
3) TMAP sensor, rainbow patch:

The TMAP sensor is located on the intake manifold on the top of the engine next to the oil filler cap. Unplug the factory harness, plug the JB4 harness in to the sensor, and plug the factory harness in to the JB4.



4) MAP sensor, brown patch:

The MAP sensor is located on the top of chargepipe several inches before the throttle body. Unplug the factory harness, plug the JB4 harness in to the sensor, and plug the factory harness in to the JB4.

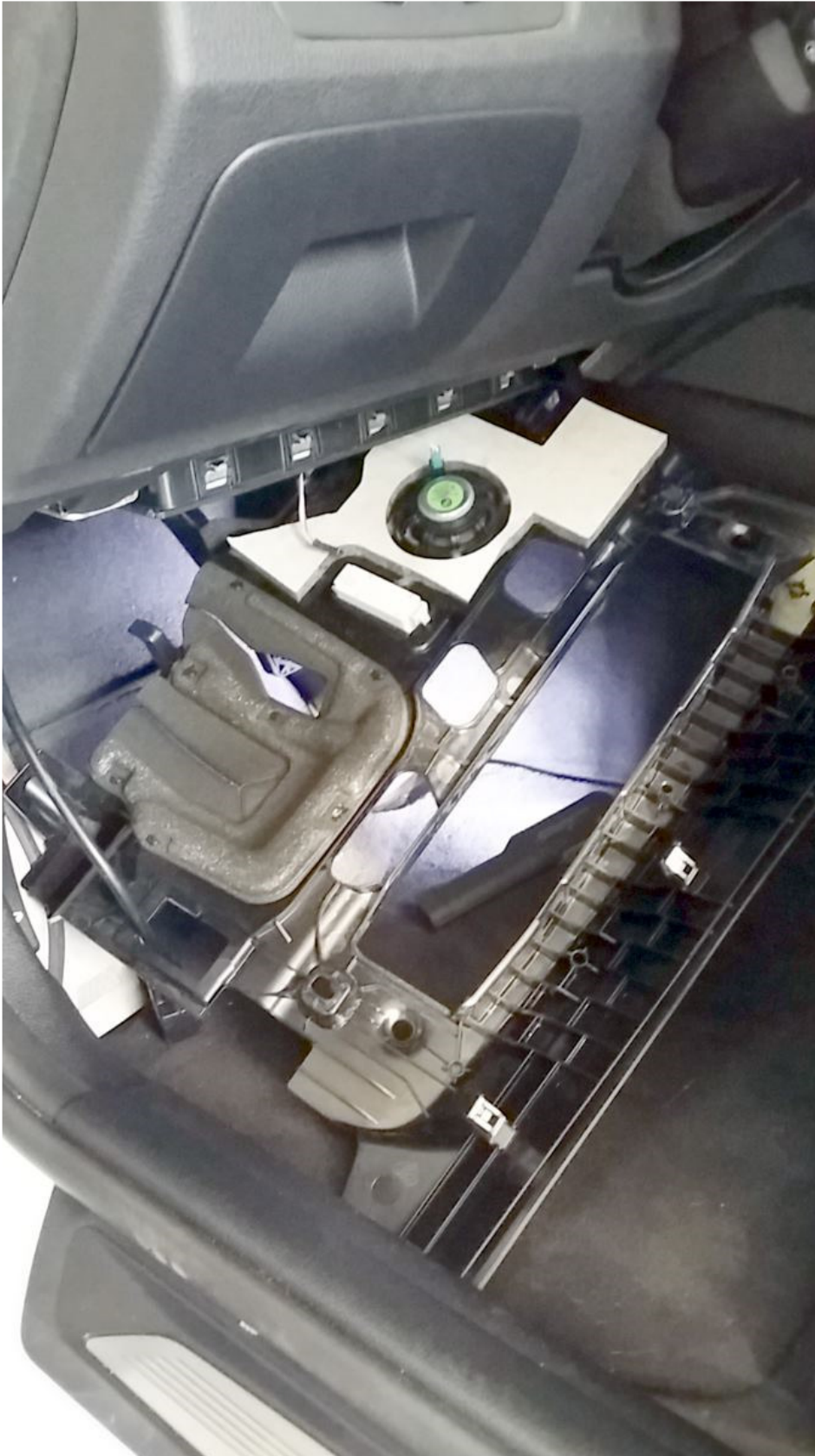


5) green/brown CANbus wire pair

The green and brown CAN wires has a MOLEX connector preinstalled and will attach to the OBDII cable shown below.



Remove the panel under the steering wheel by removing the 2x 10mm bolts, and if you need the room unplug the courtesy light and speaker connection so the panel can be moved out of the way all together.



Using a long screwdriver push in on the rubber firewall cap pushing it in to the interior compartment. You'll see it fall down by the pedals and can put it away for safe keeping. Feed the OBDII wire from the interior through the hole to the engine compartment. Note this is also a great place to route your BMS DATA cable if equipped.

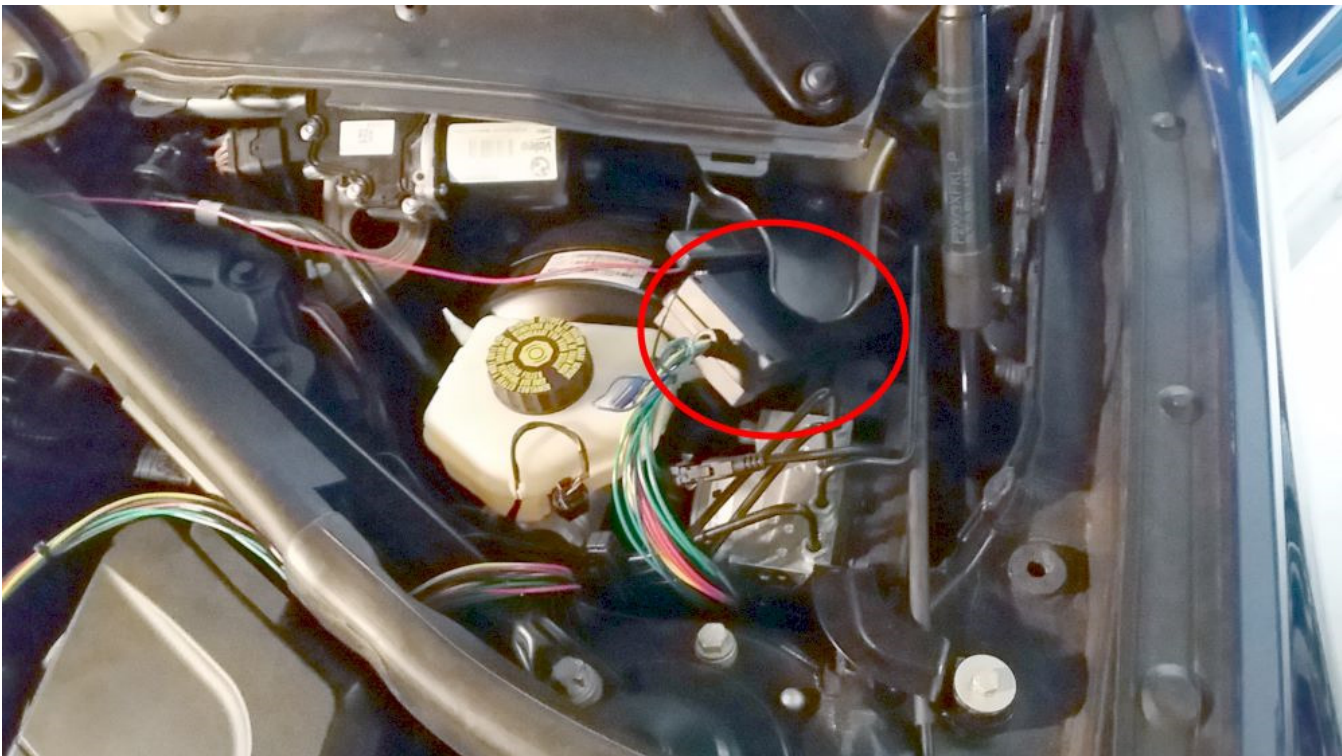


Plug the OBDII wire in to the JB4 green/brown molex connector.

Reinstall bottom cover and route CANbus wire behind it for a clean look.



6) Tuck the now fully installed JB4 control box out of the way as shown. The wiring harness should be routed under the rubber cowl seal for a clean fit once the cowl cover is reinstalled. Tuck extra wire length out of the way taking some care to ensure nothing is too close to the moving mechanical parts of the windshield wiper arm/assembly.



7) Reconnect negative battery terminal, reinstall the cowl cover, and reinstall the engine cover.

Installation is complete! Refer to N54tech for the map guide, firmware updates, and additional information.