

JB4 for Transversely Mounted GEN3 B48 BMW Install Guide

Last updated (JD) 5/11/2026

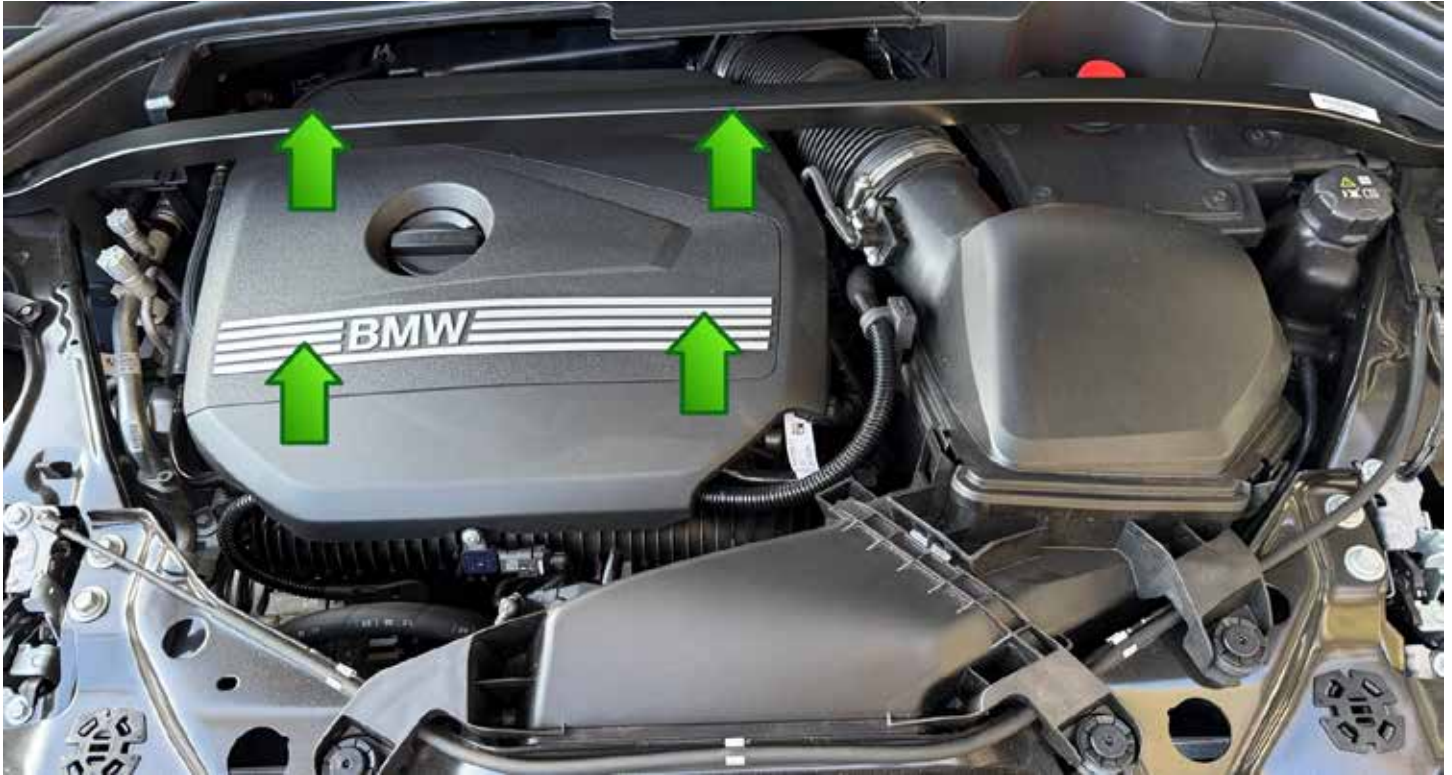
Use subject to terms and conditions posted at <https://burgertuning.com/pages/terms>

THIS PART IS LEGAL FOR USE ONLY IN COMPETITION RACING VEHICLES AS DEFINED UNDER CALIFORNIA LAW AND IS NOT LEGAL FOR USE IN ANY OTHER MOTOR VEHICLE. California law defines a "racing vehicle" as "a competition vehicle not used on public highways." (Calif. Health & Safety Code 39048) This part may only be used on competition racing vehicles operated exclusively on a closed course in conjunction with a sanctioned racing event. Competition-only motor vehicles may not be driven to a racing event on a public highway and must be transported on a trailer or other carrier. USE OF THIS PART IN ANY OTHER VEHICLE MAY SUBJECT YOU TO FINES AND PENALTIES FOR VIOLATION OF FEDERAL AND/OR STATE LAW, WILL VOID YOUR WARRANTY FROM BURGER MOTORSPORTS, INC, AND CAN VOID YOUR VEHICLE'S WARRANTY. It is your responsibility to comply with all applicable federal and state laws relating to the use of this part, and Burger Motorsports, INC hereby disclaims any liability resulting from the failure to use this part in compliance with all applicable federal and state laws.

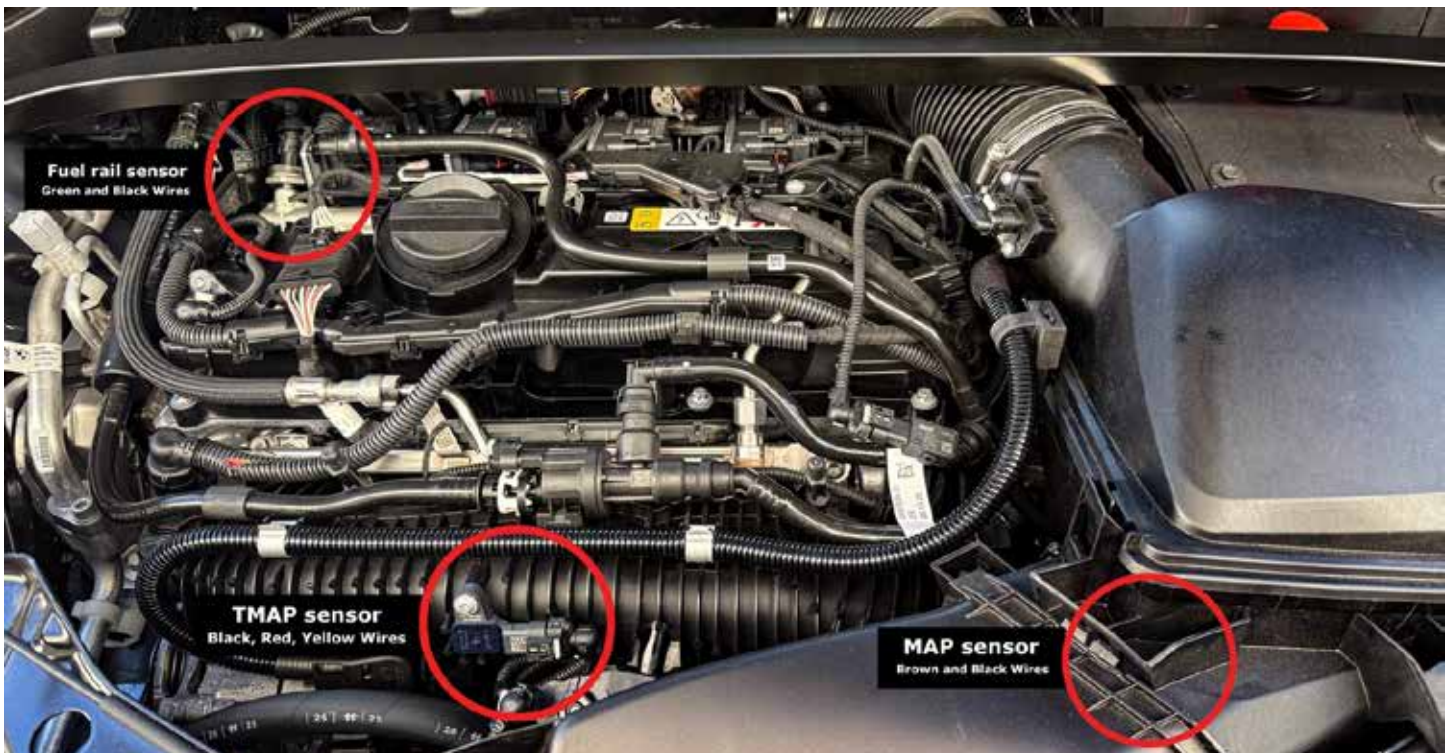


⚠ ATTENTION: Before starting installation lock the doors and place the key at least 20 feet away from the vehicle. Wait 10 minutes for the vehicle to go to sleep or disconnect battery.

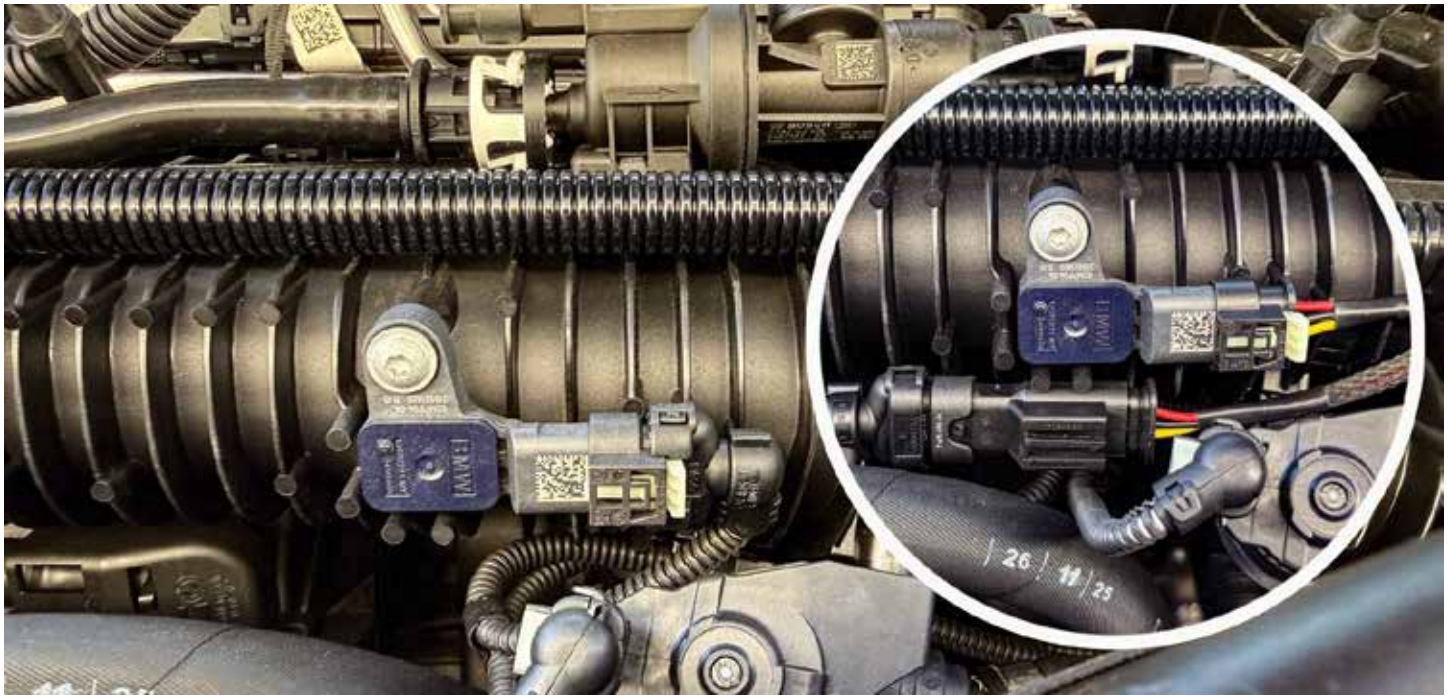
Remove the plastic engine cover. The cover simply lifts off and pulls outward.



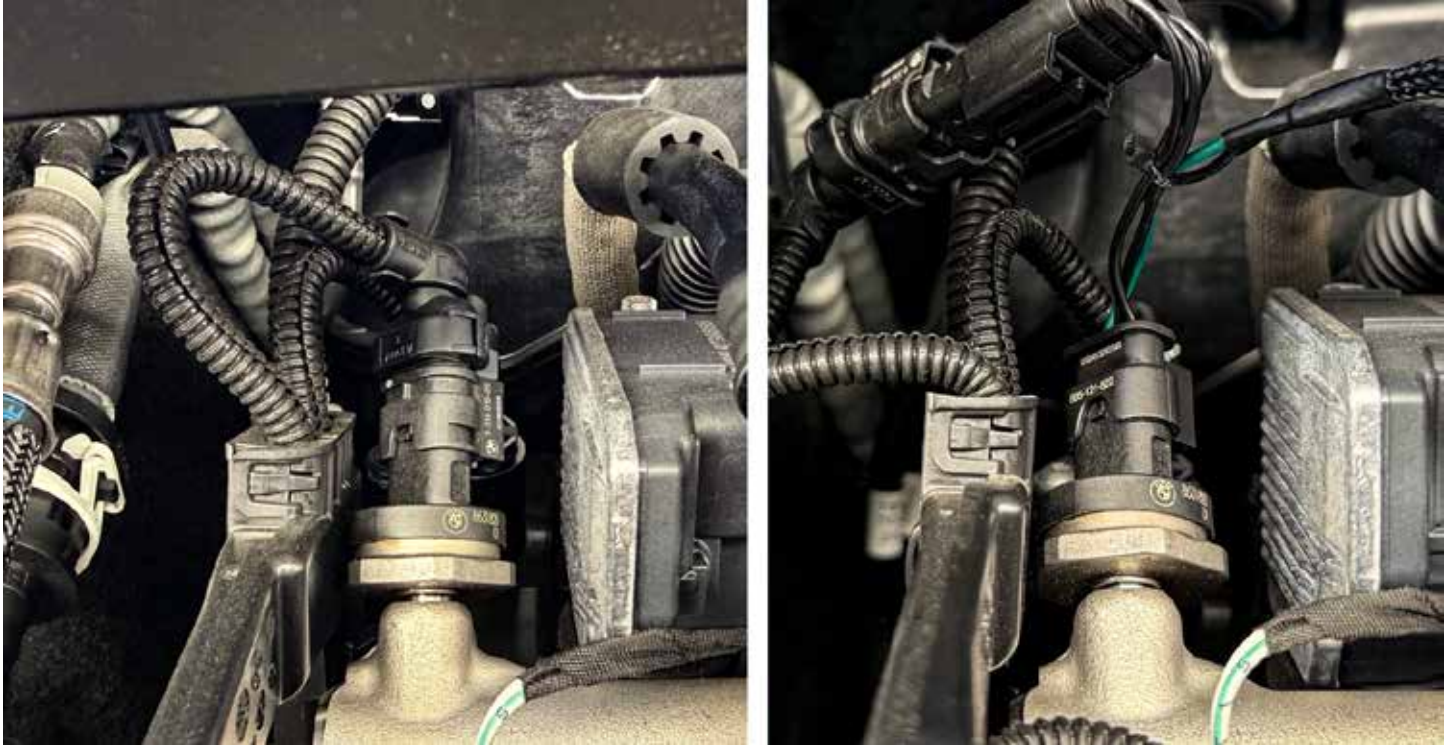
There are 3 plugs on the JB4 that go to various sensors on the engine shown below.



Unplug the MAP sensor connector by popping out the tab and pinching it and pulling it off. Then plug the JB4 connection in with the red, yellow, and black wires into the sensor and then into the factory harness.



Optional fuel pressure connector: Unplug the fuel pressure sensor connector by popping out the gray tab and pinching it and pulling it off. Then plug the JB4 connection in with the green and black wires into the sensor and then into the factory harness. Note some ECU versions are not yet compatible with this connection so if you get fuel pressure related fault codes try reverting it back to factory to confirm. We plan to expand its compatibility via future free JB4 firmware updates.



The TMAP sensor is located under the factory airbox. Loosen the hose clamp and remove the 3 plastic torx screws.

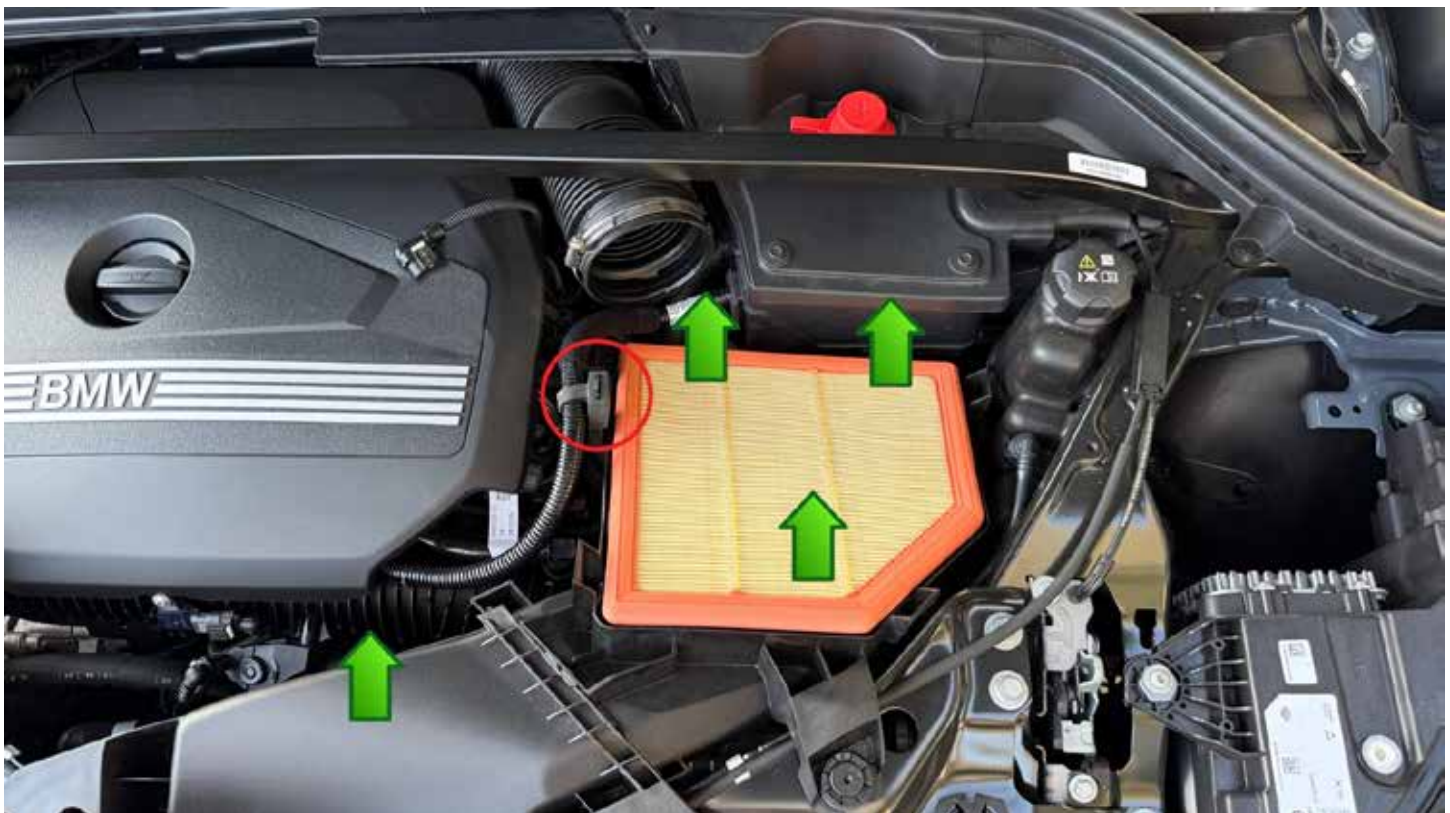


Unplug the temperature sensor by popping out the gray tab and pinching it and pulling it off.

NOTE: The JB4 does not connect to this sensor.



Remove the airbox lid, factory air filter, rubber wire loom holder and firmly pull up on the factory airbox bottom to expose the TMAP sensor on the throttle body below.



Unplug the TMAP sensor connector by popping out the tab and pinching it and pulling it off. Then plug the JB4 connection in with the brown and black wires into the sensor and then into the factory harness.



This connector must be zip tied as shown or it will hit the radiator fan and could be damaged left loose. Once secured, and no wires are near the fan, replace the factory airbox



Secure the JB4 to the strut brace with zip ties.



CANbus/OBDII connector: Green/Brown wires on JB4

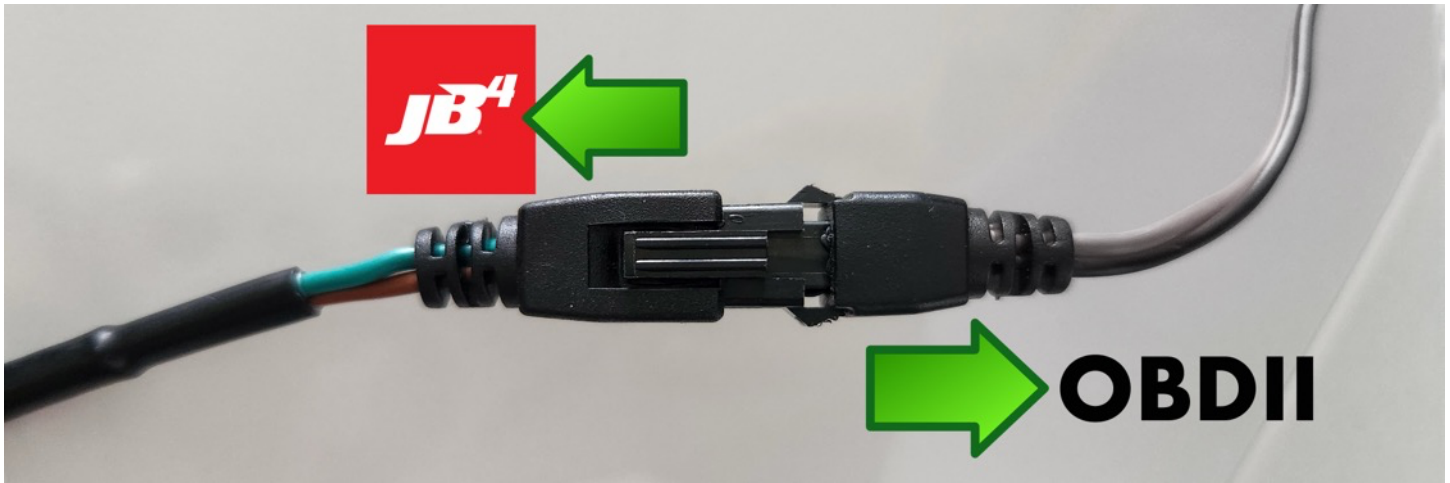
Vehicle can now be unlocked, and doors opened as OBDII can be installed/connected with the vehicle awake. This optional connector attaches to the OBDII port to allowing the JB4 to take in additional advanced engine parameters to incorporate in to tuning and logging via the JB4PRO app.



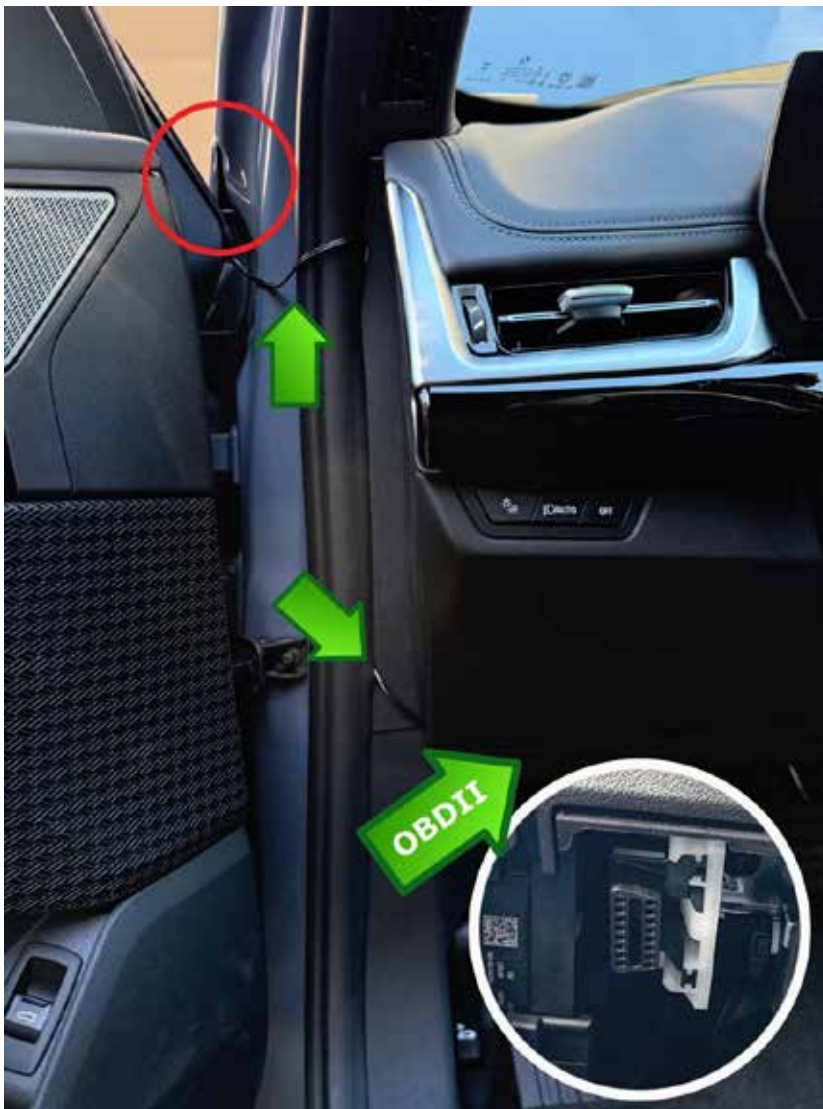
2 Position Connector (V2)



Plug the OBDII into JB4 harness, note correct clip over notch orientation. If no data appears in JB4 app once connected an issue with the OBDII connection is usually the culprit.



The easiest way to route to the engine bay is around the door jamb. Alternatively, it can be run through the firewall into the pedal area if there are any unused grommets.



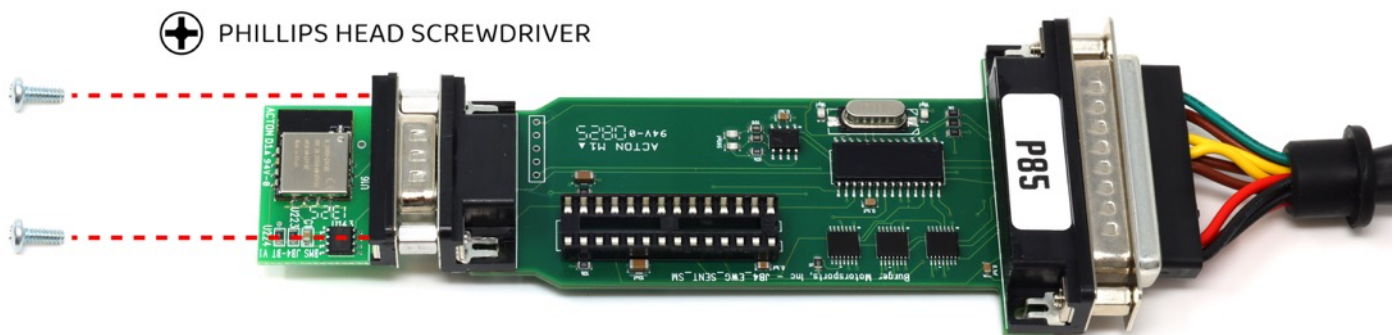
Bluetooth comes preinstalled now but if you ever need to access it manually this is how it attaches. For those equipped with the optional JB4PRO adapter and the FREE JB4PRO app, connect adapter as shown.



1) Open the JB4 enclosure by loosening the (4) 2.5mm Allen hex bolts and separate each half.



2) Plug the adapter into the end of the JB4 board and ensure its fully pushed in before inserting and tightening the 2 included Phillip's head screws. **NOTE: PUSH THE ADAPTER ON FIRST, THEN ADD SCREWS. ADAPTER MUST BE FULLY SEATED WITH NO THREAD SHOWING.**



3) Place the JB4 in the enclosure bottom ensuring its aligned and fully flush with the alignment tabs.



4) Carefully place the top half of the enclosure. When properly aligned it will sit fully flush with the bottom half. If it's not flush, adjust the board position internally. Tightening down the screws when the board is not properly aligned may damage the JB4 control board.

5) Put back in the bottom hole plug. Retighten the (4) 2.5mm Allen hex bolts.

JB4PRO App (FREE) can be downloaded here.

App Store (iOS): <https://apps.apple.com/us/app/jb4-pro/id6746129072>

Play Store (Android): <https://play.google.com/store/apps/details?id=com.burgertuning.jb4pro>

The JB4 comes preset to Map 1.

