

JB4 for 2025+ Land Rover Defender OCTA V8 Twin Turbo Install Guide

Last updated 7/11/2025

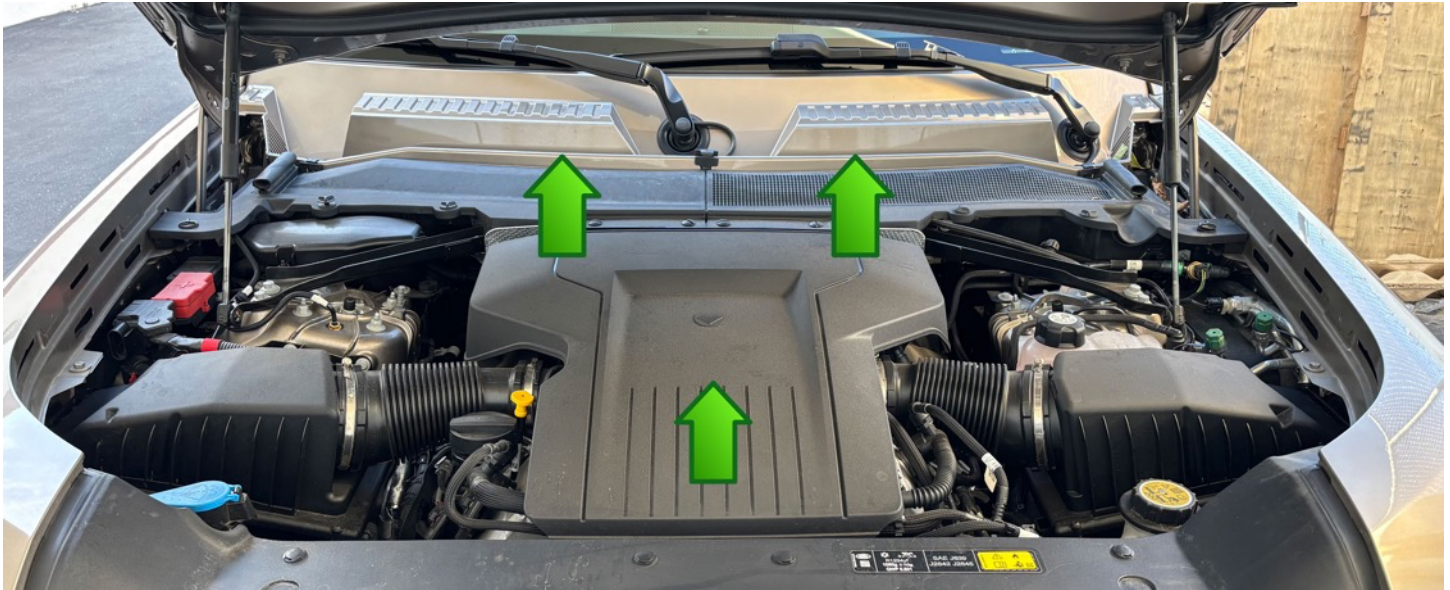
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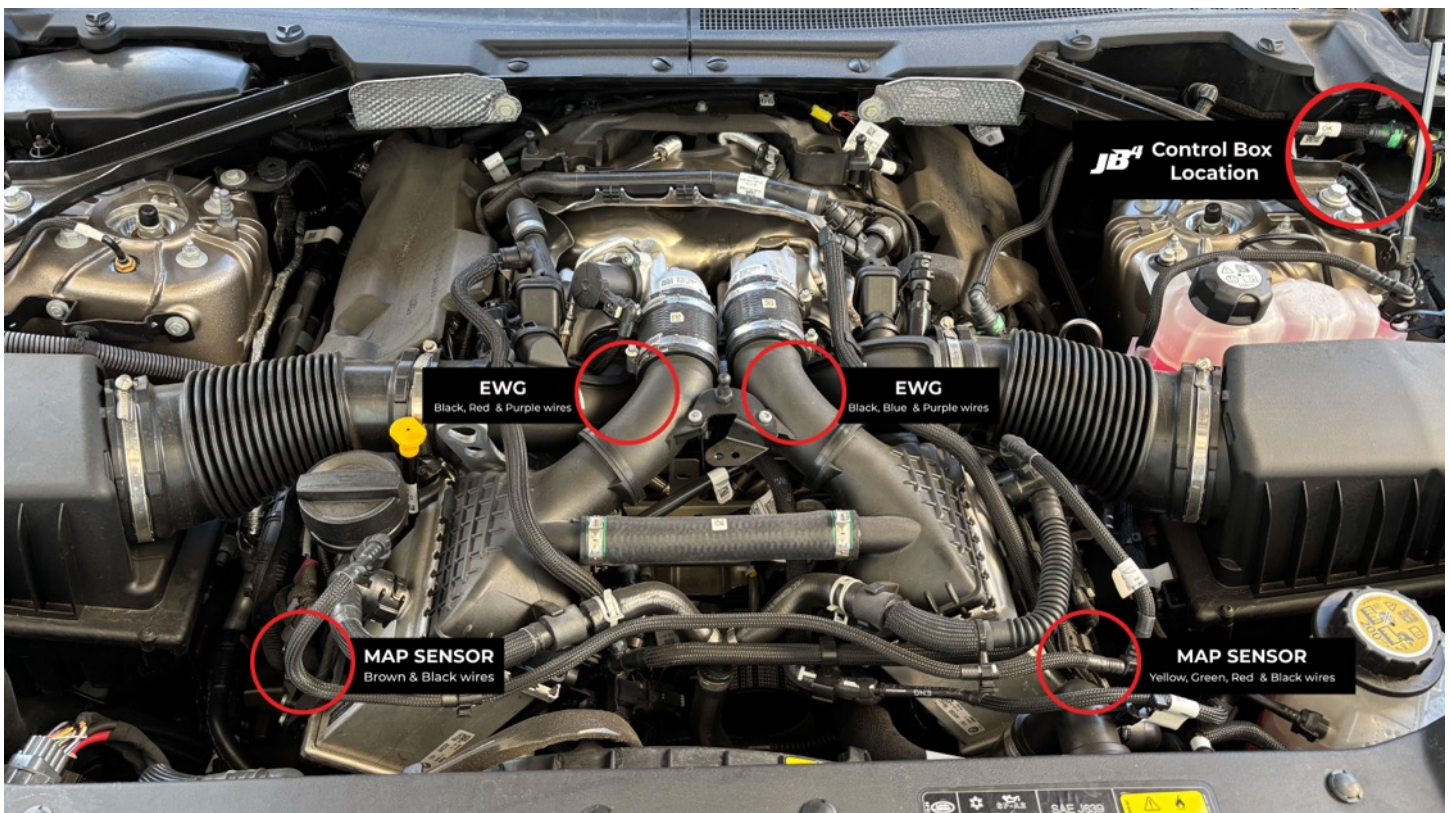


⚠ ATTENTION: Before starting installation lock the doors and place the key at least 20 feet away from the vehicle. Wait 10 minutes for the vehicle to go to sleep.

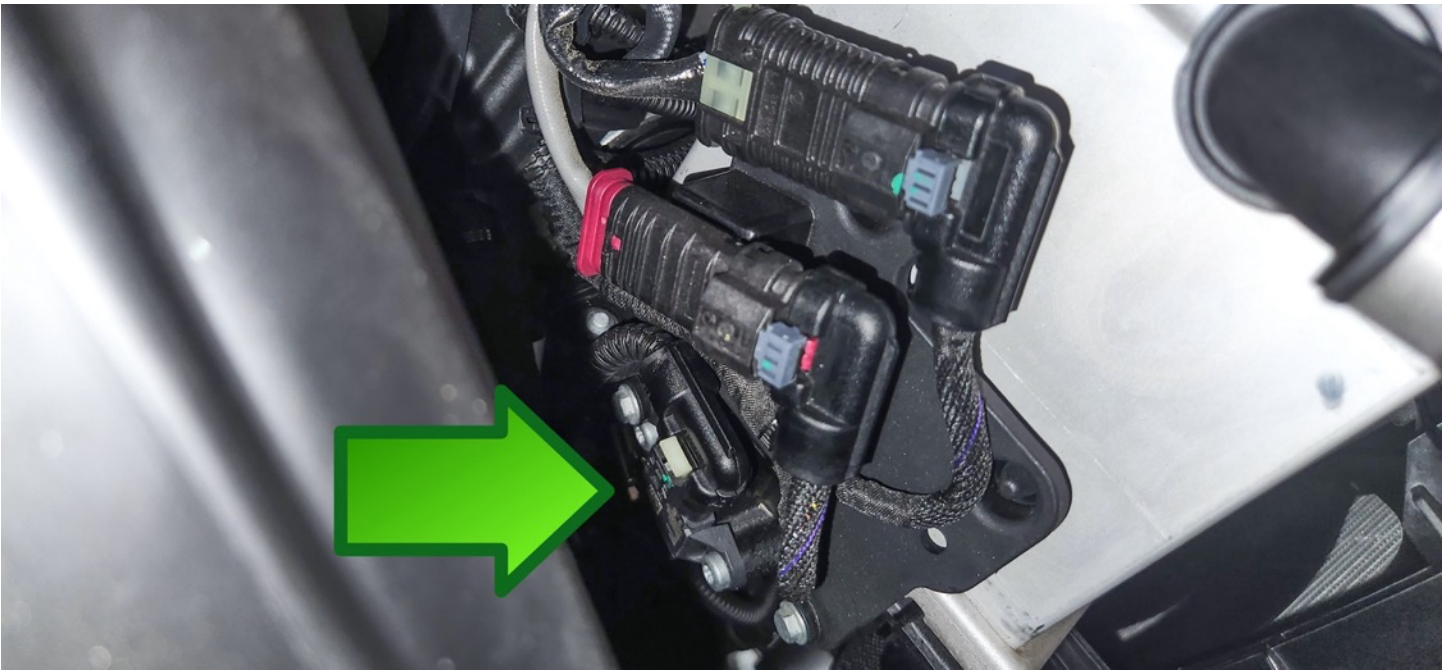
Remove the plastic engine cover. The cover simply lifts off.



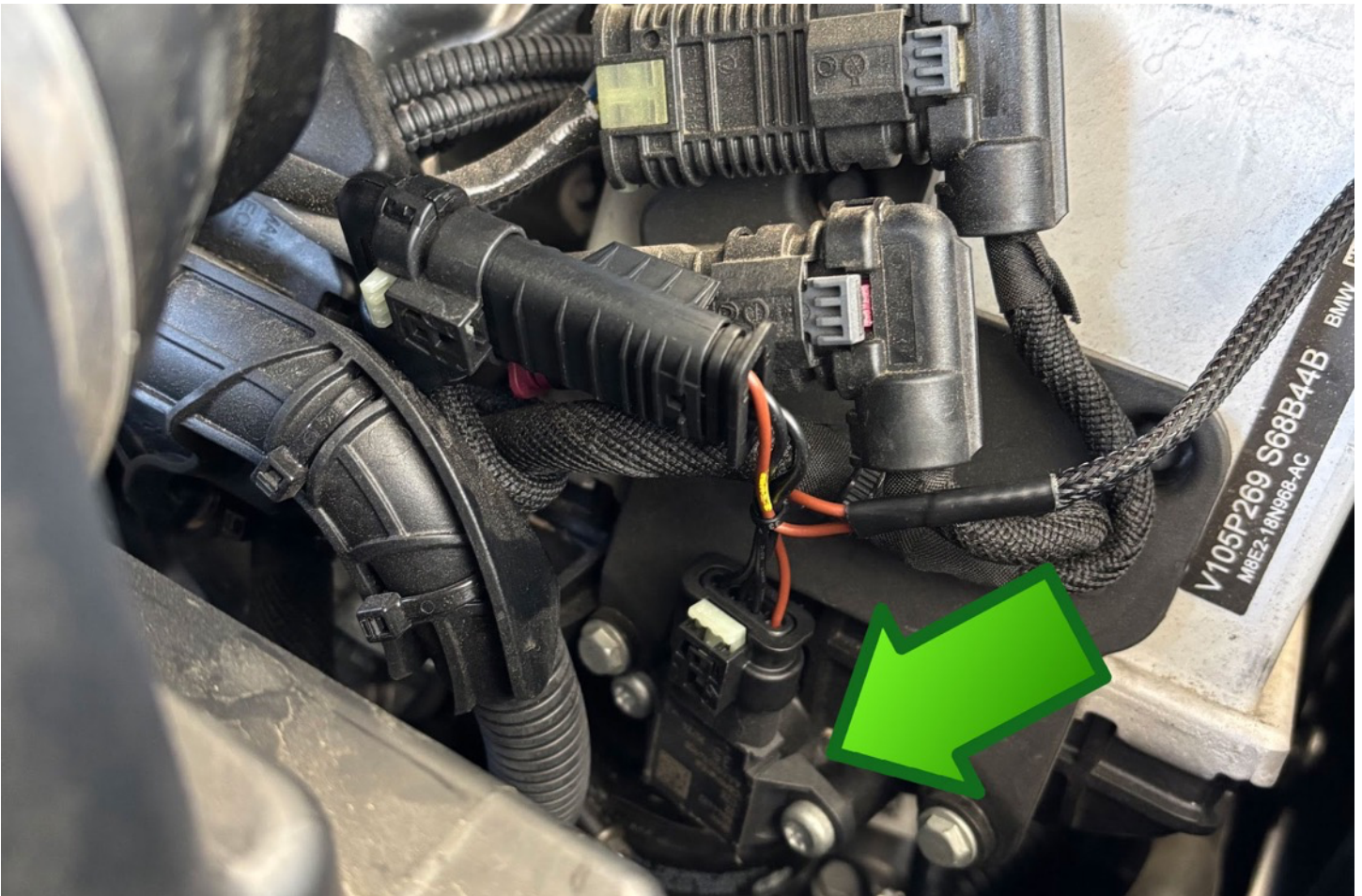
There are 4 plugs on the JB4 that go to various sensors on the engine shown below. The EWG connections are optional for those looking to maximize power.



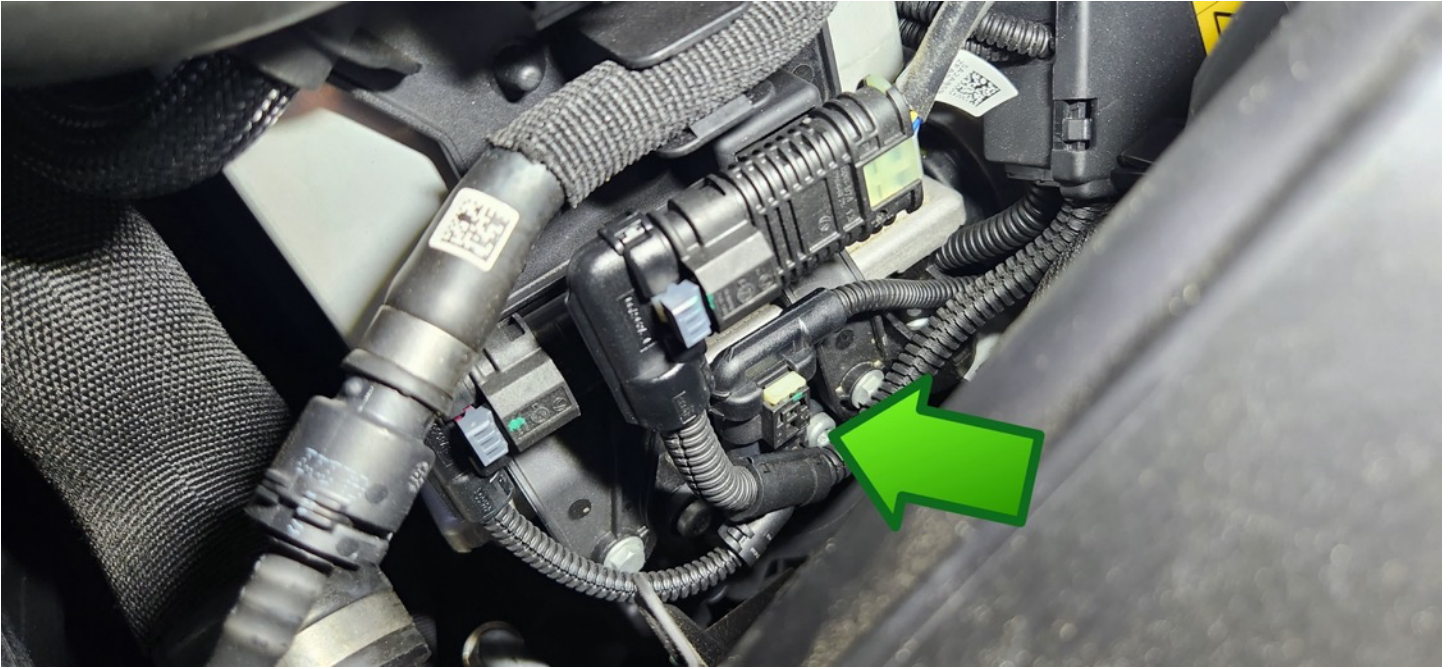
First unplug the factory MAP connector on the left side of the left intercooler. It's the 3rd plug down.



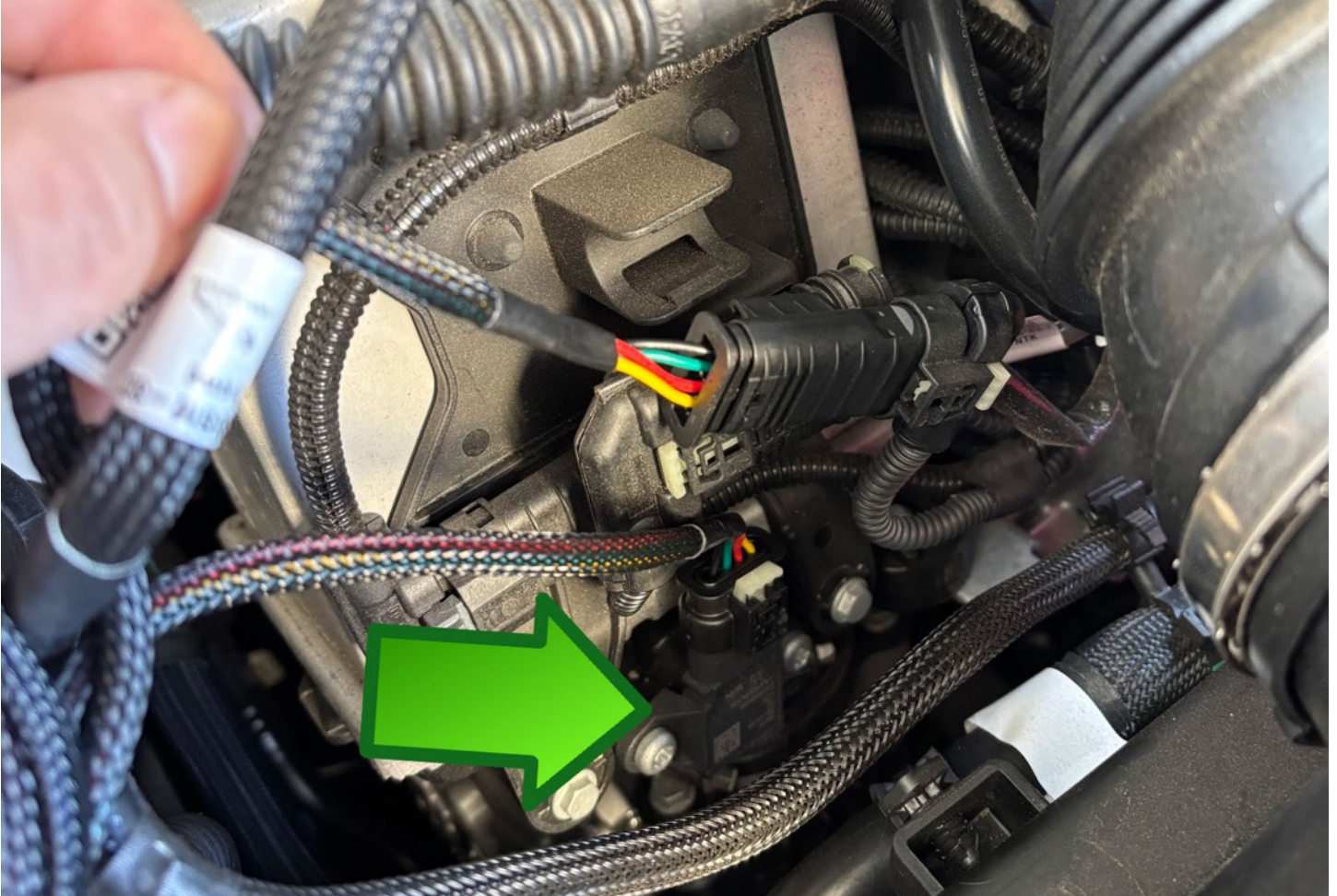
Plug in the longer brown and black JB4 cable to the left MAP sensor.



Unplug the factory MAP connector on the right side of the right intercooler. It's the 3rd plug down.

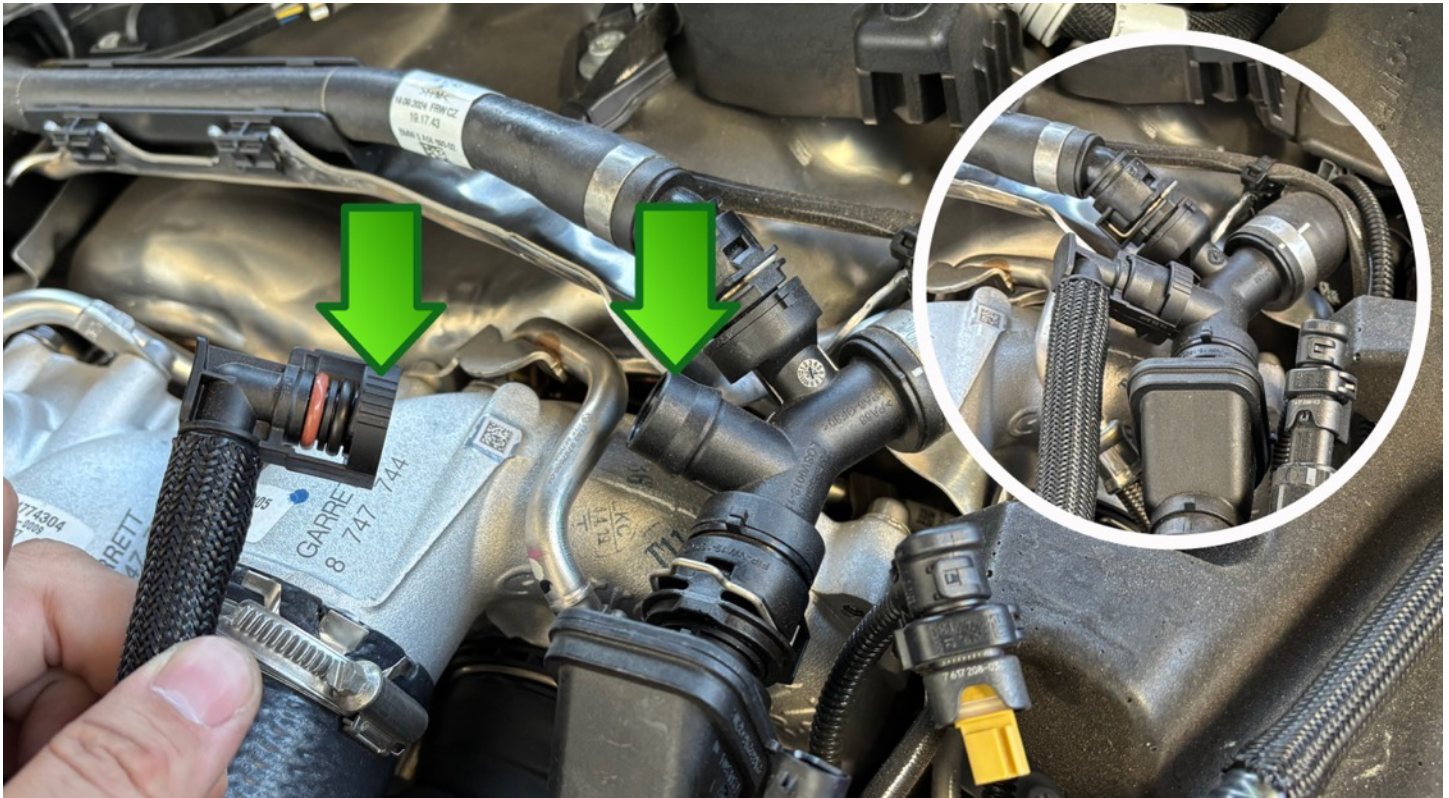


Plug in the shorter yellow, red, green, and black wired JB4 cable.

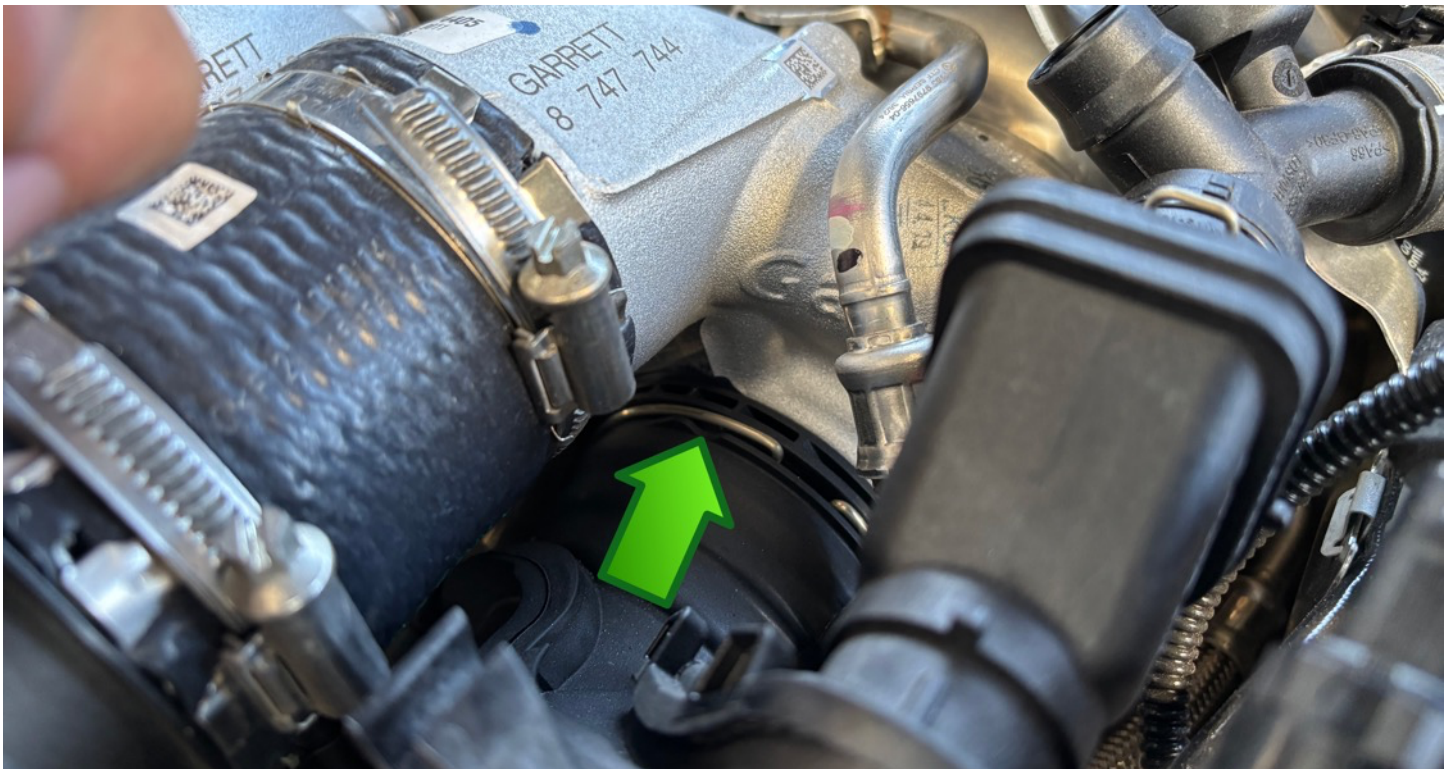


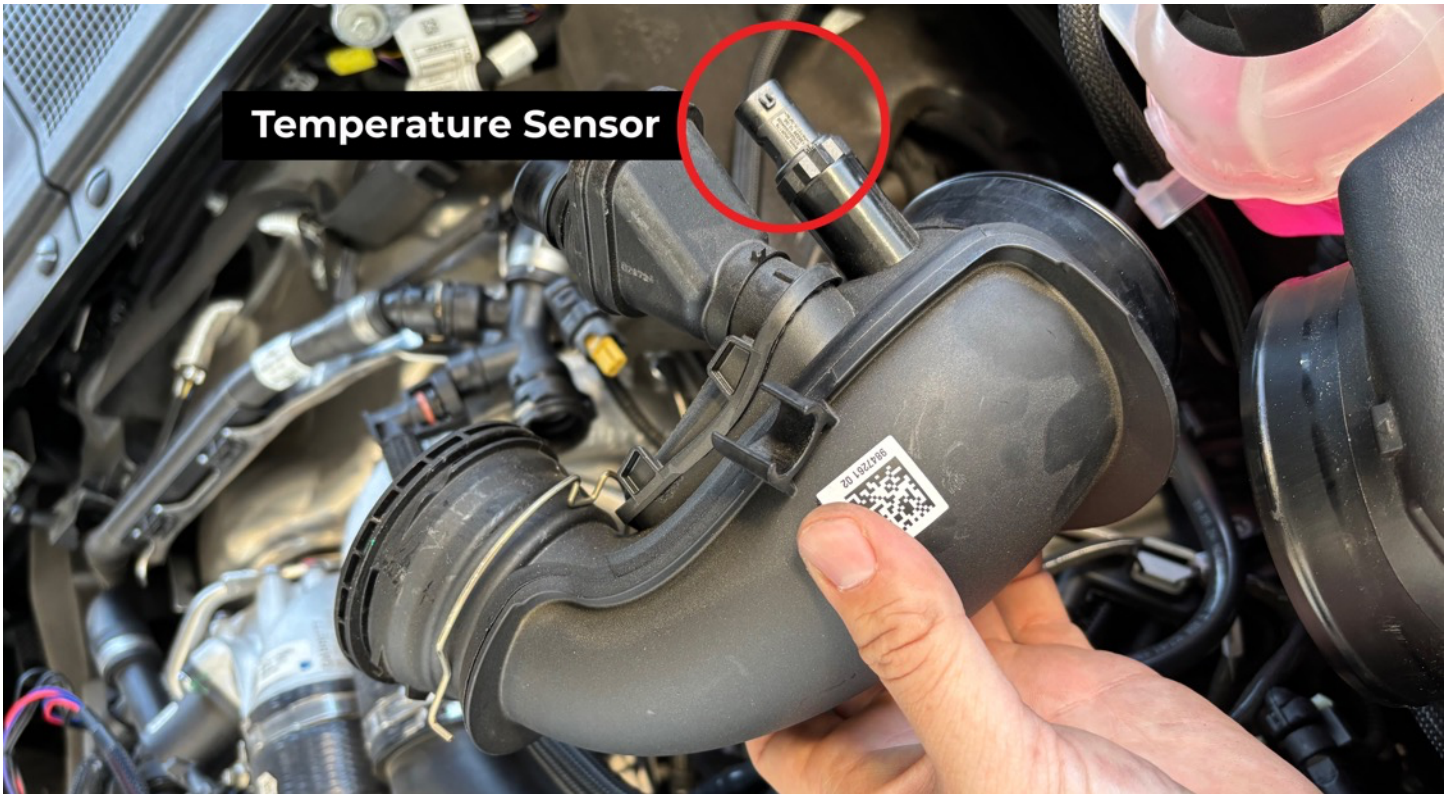
OPTIONAL: Electronic Wastegate (EWG) Connections

For those looking to maximize power you can also connect the option EWG connections. To do so remove the PCV hose by pinching on both sides on the ||||| markings.

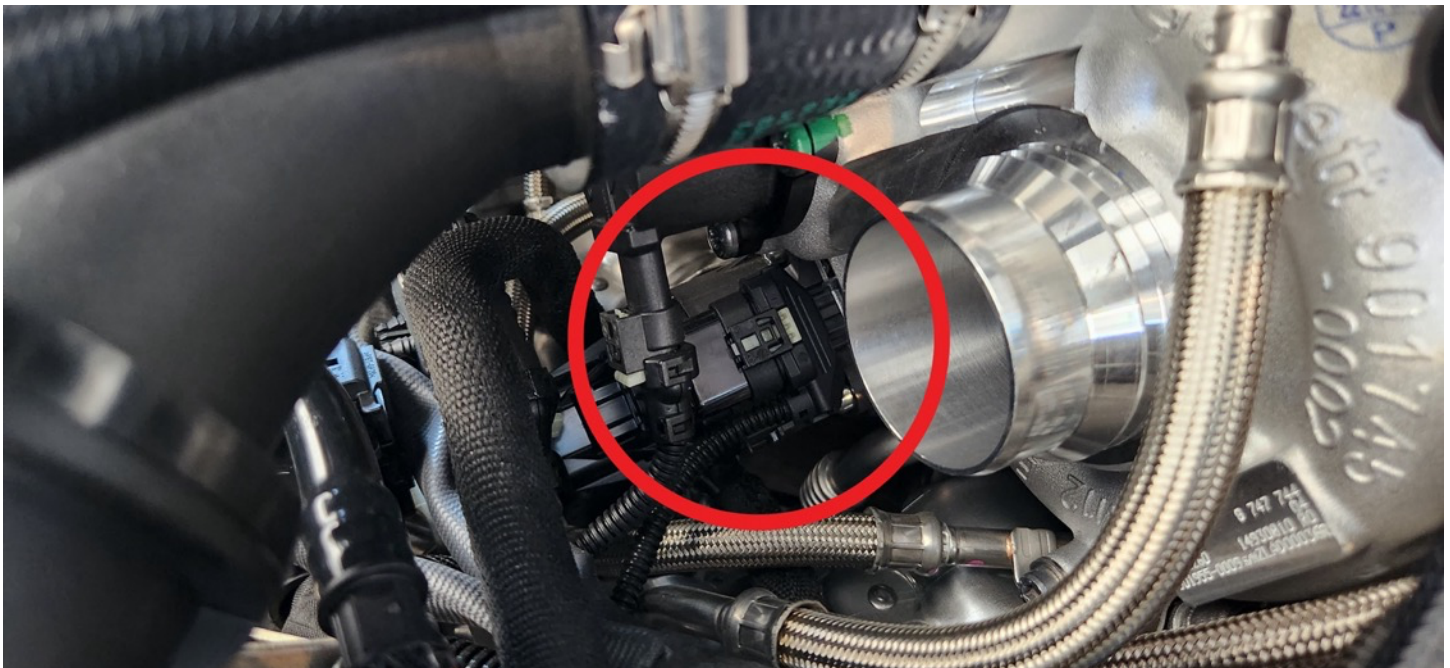


Now remove the right side (facing the engine) turbo inlet by unplugging the temperature sensor and pulling up on the large circlip on the turbo inlet and pull it towards the front of the vehicle to remove.

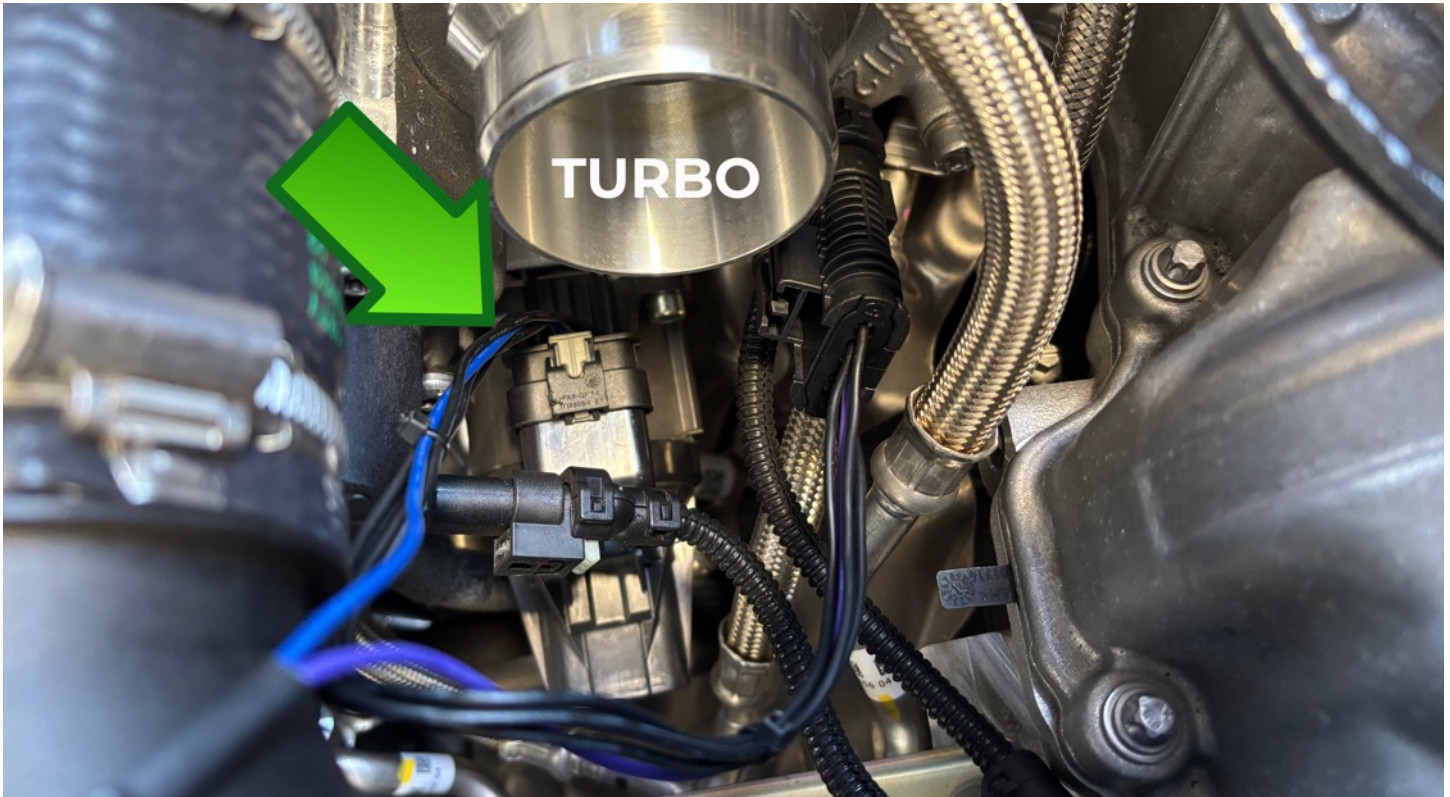




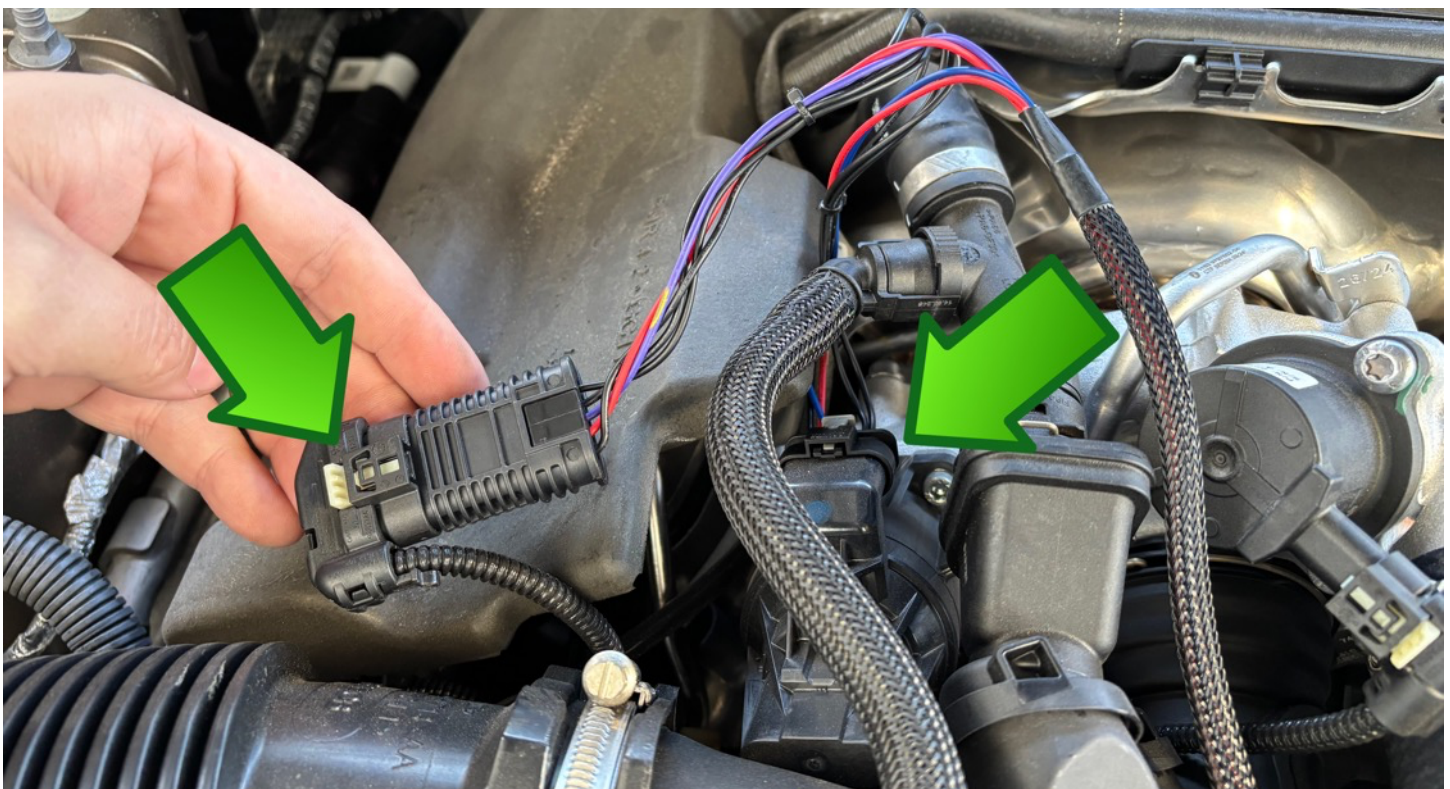
Next unplug the factory EWG connector.



Plug the blue, purple, and black EWG connector in. Plug the factory connector in the other end.



Unplug the left (facing the engine) EWG connector with the red, blue, purple, and black wires. Plug the factory connector in the other end.



CANbus/OBDII connector: green/brown wires on JB4

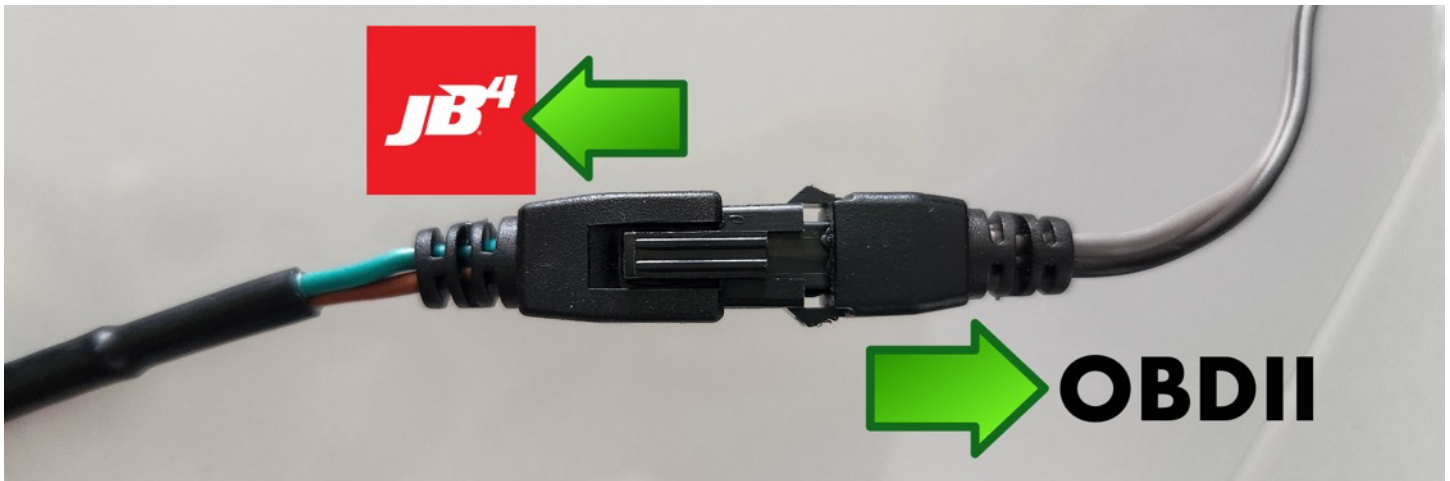
Vehicle can now be unlocked, and doors opened as OBDII can be installed/connected with the vehicle awake. This optional connector attaches to the OBDII port to allowing the JB4 to take in additional advanced engine parameters to incorporate in to tuning and logging via the app.



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.



Finally plug 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.

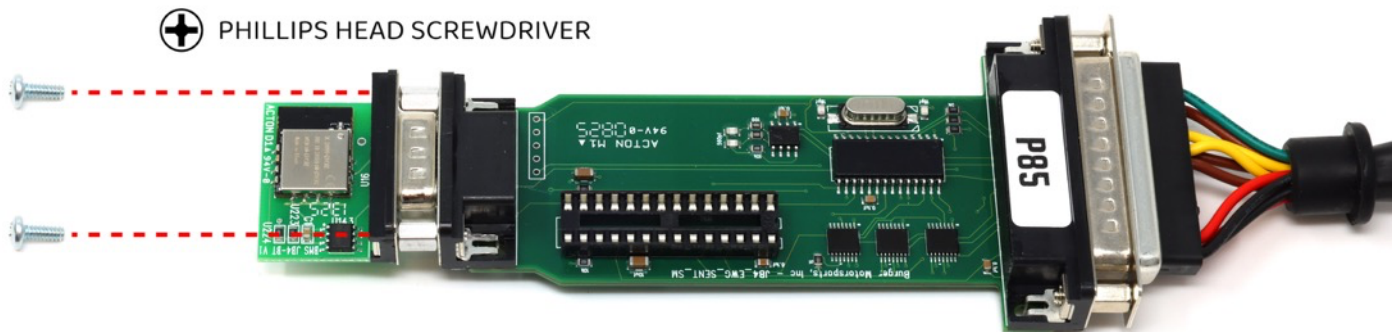


For those equipped with the optional JB4PRO adapter and JB4PRO free app, attach the adapter as shown.

- 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) For those with the JB4 PRO adapter 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>