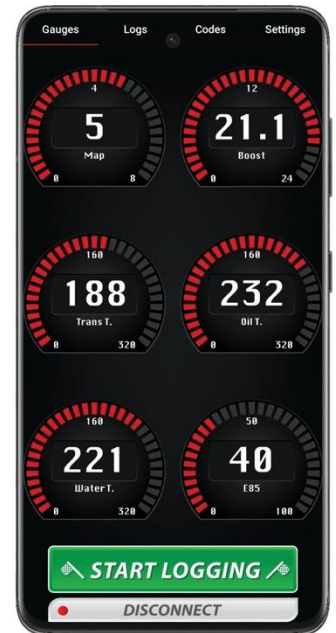


## 2019+ C300 SENT JB4 Install Guide

Last Updated: 4/23/2024

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.



OPTIONAL JB4 APP SHOWN

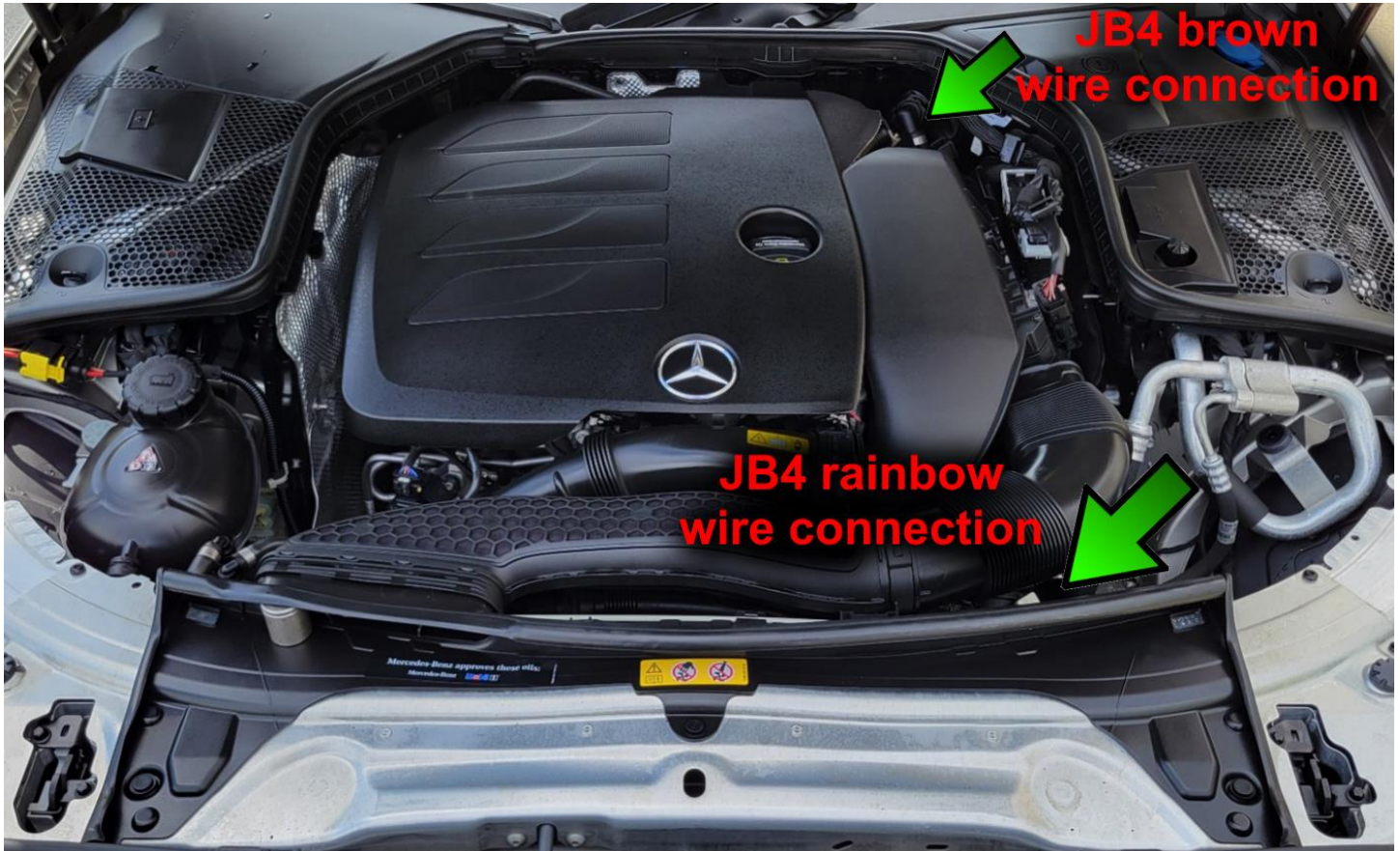
Getting started:



Open the hood, lock the doors, and wait 5 minutes for the ECU to go to sleep before beginning the installation. Alternatively disconnect the negative battery cable in the trunk. Extreme care should be taken when working with live wiring to avoid electrical damage.



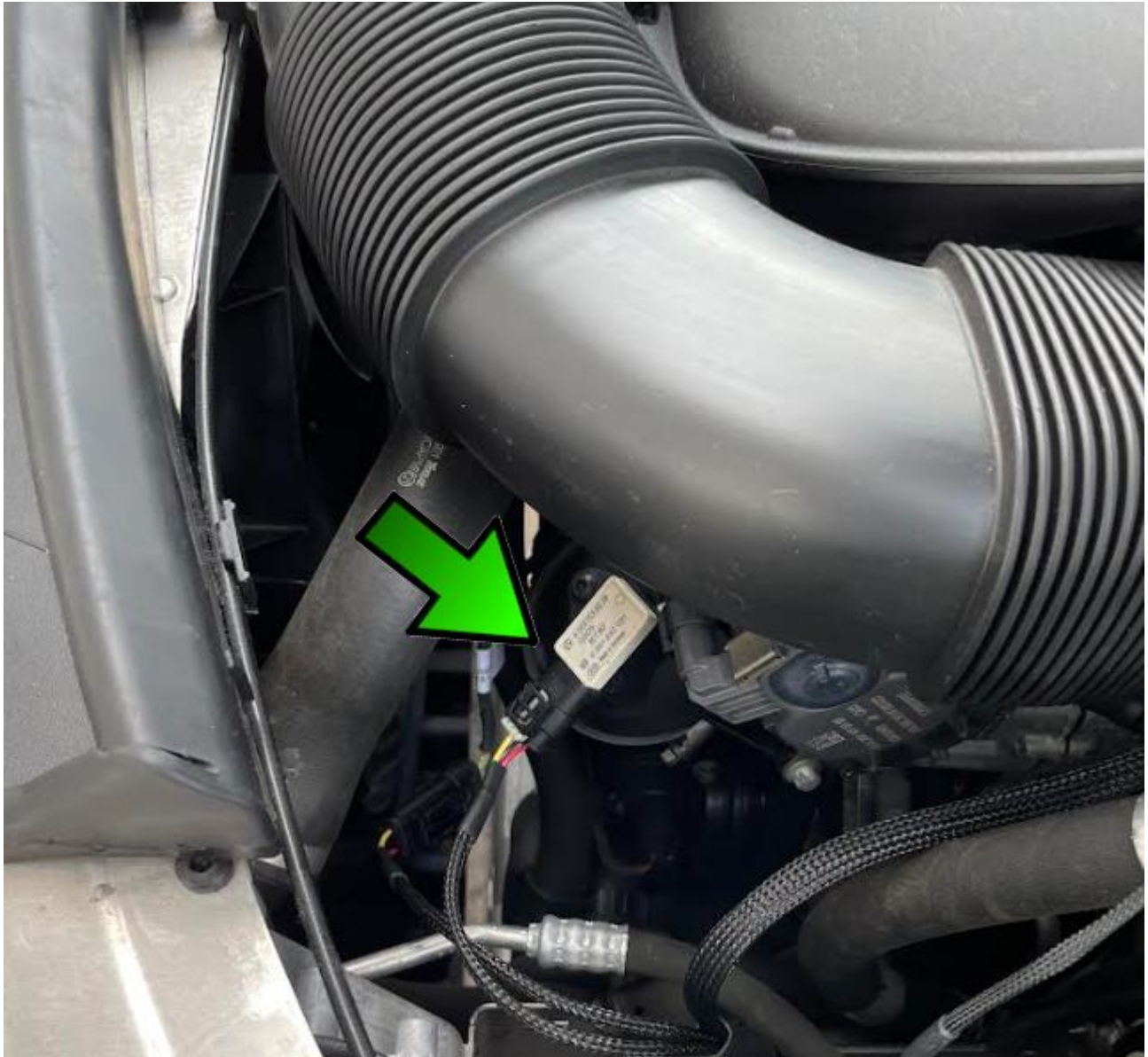
The JB4 harness has two similar looking connectors on it for. The one with the rainbow colored wires will attach to the TMAP sensor at the front of the engine compartment under the intake inlet, while the one with the brown wires will attach to the MAP sensor at the rear of the engine compartment in the corner.



At each connection, you'll unplug the factory sensor connection, attach the JB4 harness plug, and connect the factory plug back in to the matching JB4 harness plug completing the loop.

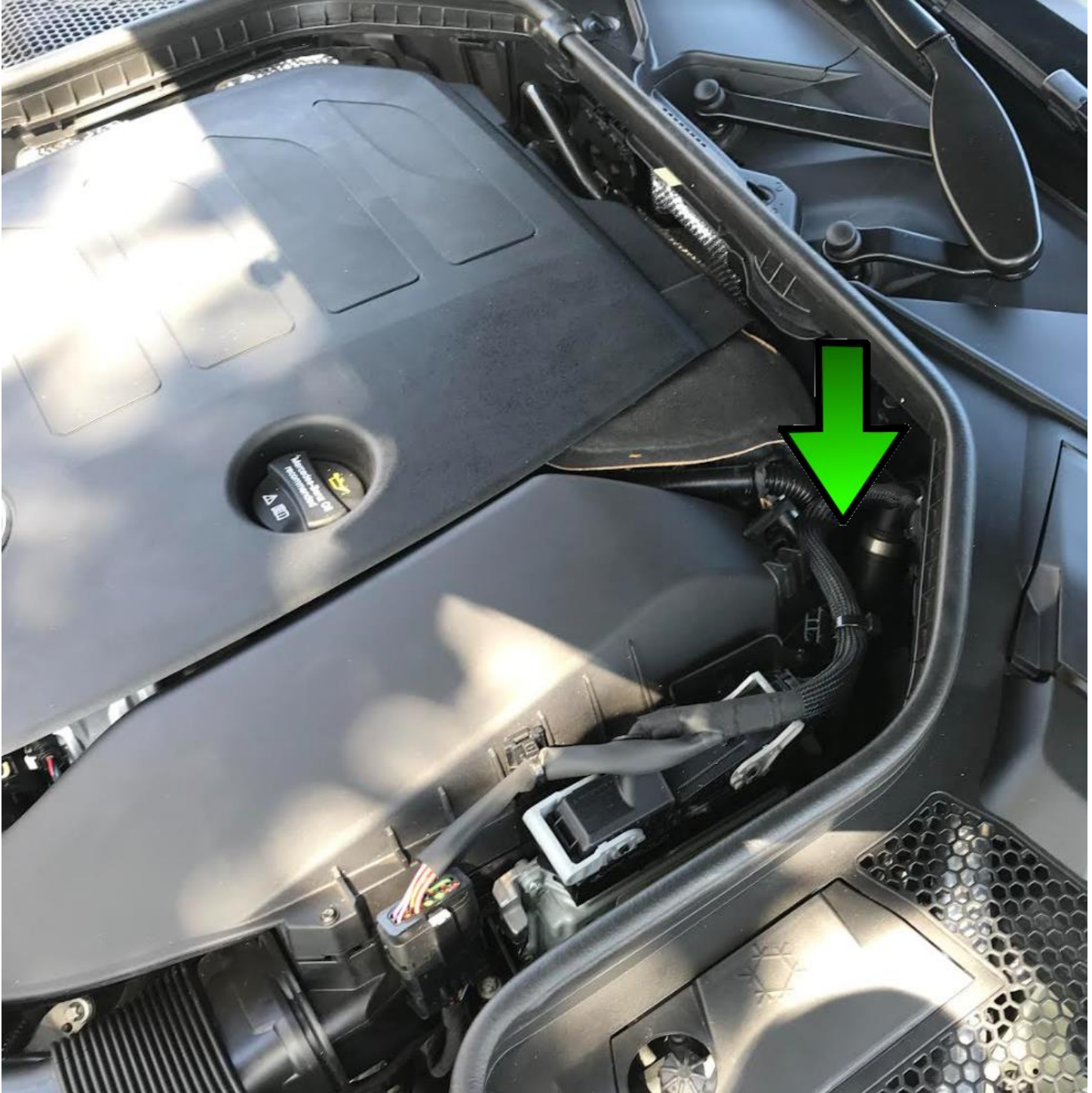
It is essential to route the JB4's harness away from hot objects in the engine compartment as the wiring can be damaged by heat, which may prevent the vehicle from running properly. If necessary, secure the harness with zip ties or other fastening devices to prevent the harness from touching any hot objects.

The JB4's rainbow wire connection location is under the intake inlet at the front corner of the engine compartment.

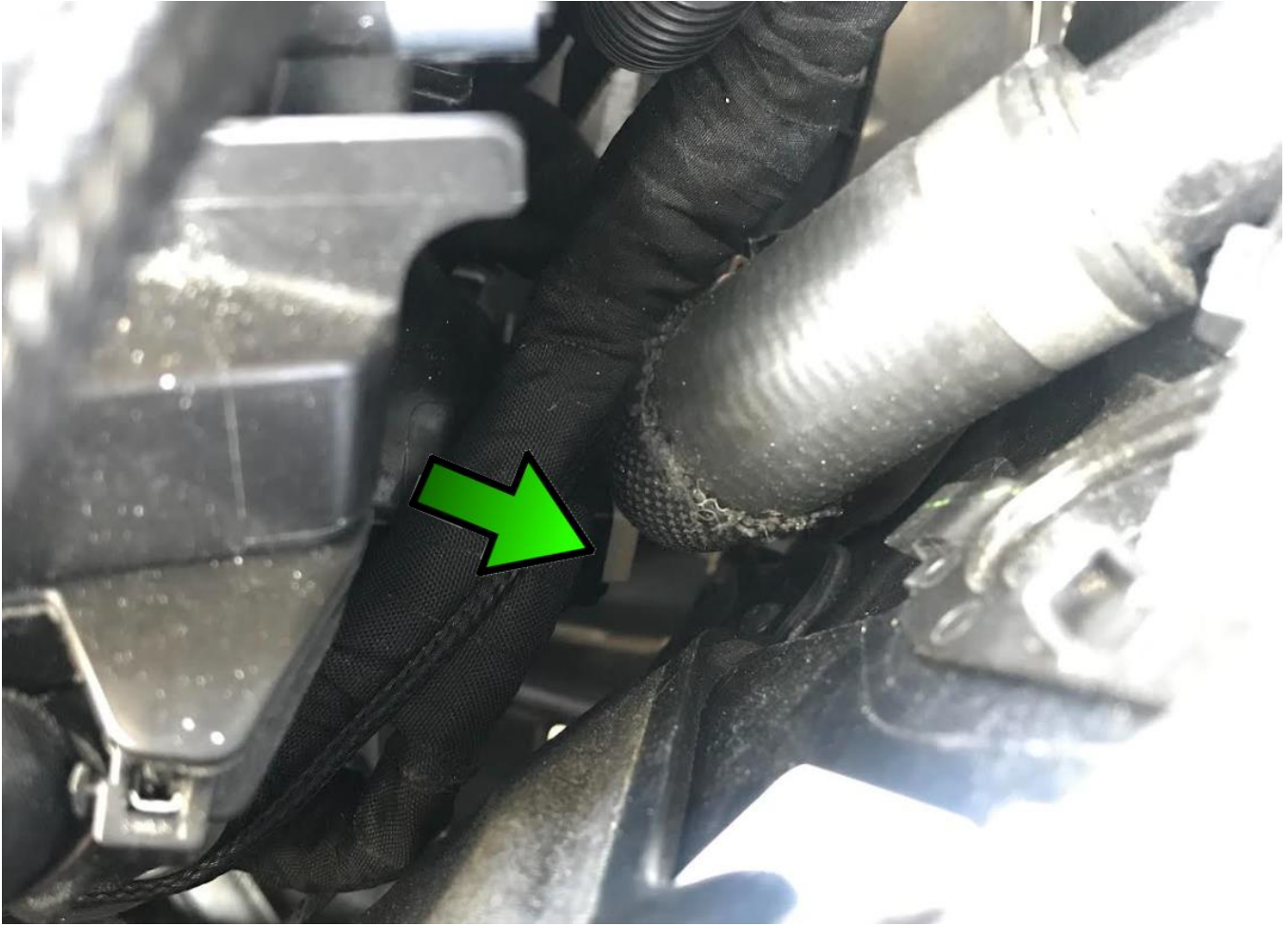




The JB4 brown wire connection attaches at a MAP sensor at the intake manifold at the rear corner of the engine compartment, down from this location.



Note the white top of the sensor from this view.



Attach the JB4's brown wire connection at this sensor.





Control box placement:



Place the wiring harness with control box in the front corner of the engine compartment. Secure it with zip ties if needed.

## JB4 Optional OBDII:

The optional OBDII cable unlocks full CANbus control for the most advanced tuning and logging features and is strongly suggested. The cable can be routed the “quick” way through the door jamb or the “clean” way through the firewall. If you are not able to find a suitable location to pass through the firewall on your model, you can pass the OBDII cable through the door jamb as well. An example of how this would work is found in this video:

<https://www.youtube.com/watch?v=n2J5rSeDTPo>

Note the proper orientation of the OBDII cable connection below:





Starting at the OBDII port, route the OBDII cable through the door jamb into the corner of the engine compartment and route it along the edge of the engine compartment as shown.



## JB4 Connect Kit & BMS Data Cable:

These optional connections allow you to attach the JB4 to your smart phone or laptop for map changes, setting changes, firmware updates, data logging, and more. To attach you'll open the JB4 box and attach to the circuit board inside. See this instructional video for details directions:

<https://www.youtube.com/watch?v=Q6NvtItTrUg>

If you've purchased the optional JB4 mobile adapter open the enclosure and plug the adapter into the JB4 board directly as shown. When closing the enclosure ensure the control board is properly lined up and only tighten down screws once the case closes smoothly to avoid damaging the JB4 board. Note some older JB4 mobile adapters have a separate blue wire which will need to be attached to the JB4 harness via a posi-tap, refer to the video on the JB4 Mobile adapter page for additional directions.

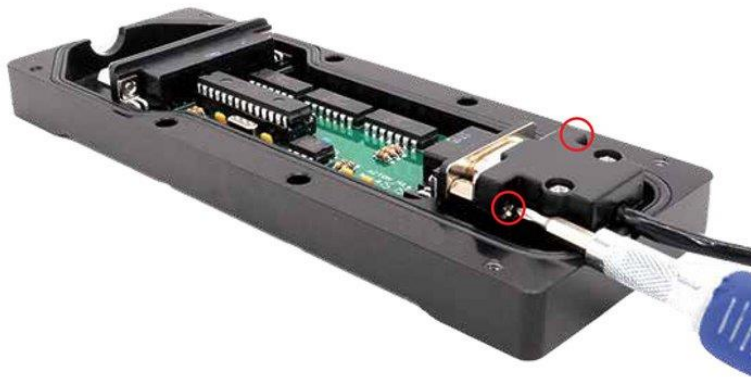
### JB4 Connect Kit (Pinned Power) Install Guide

04-13-2020

- 1) Open the JB4 enclosure.



- 2) Install the DB9 connector and ensure both screws are secure.





Installation is complete!

The JB4 comes preset to Map 1 which runs approximately 4psi over stock peak tapering to 2psi over stock at redline.

Maps can be changed using the JB4 Wireless Mobile Connect Kit or BMS Data Cable to adjust boost levels, record data logs, read/delete fault codes, and load free firmware updates.