

Kia / Hyundai 1.6 Turbo JB4 (Gamma)

Last updated 4/17/2024

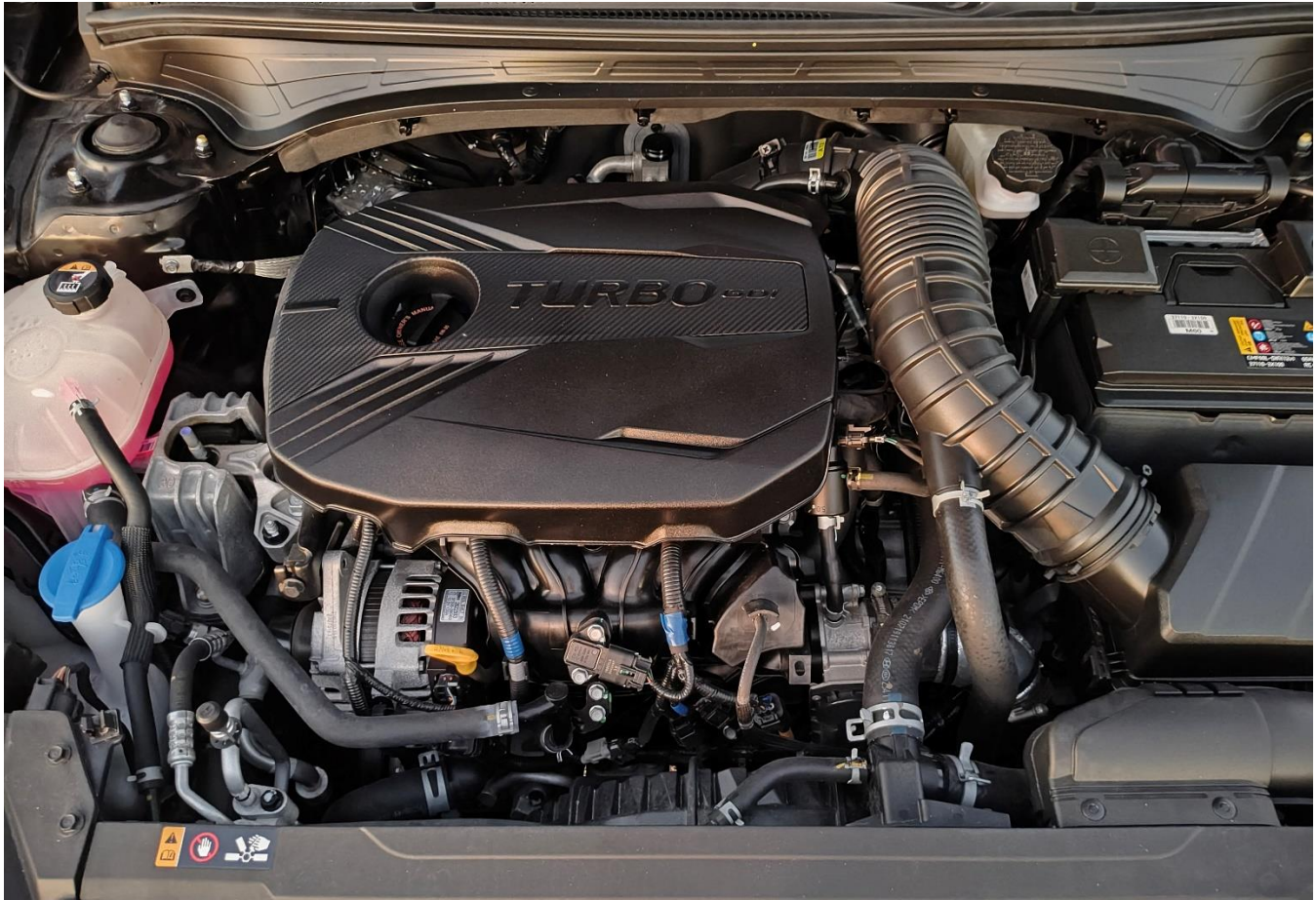
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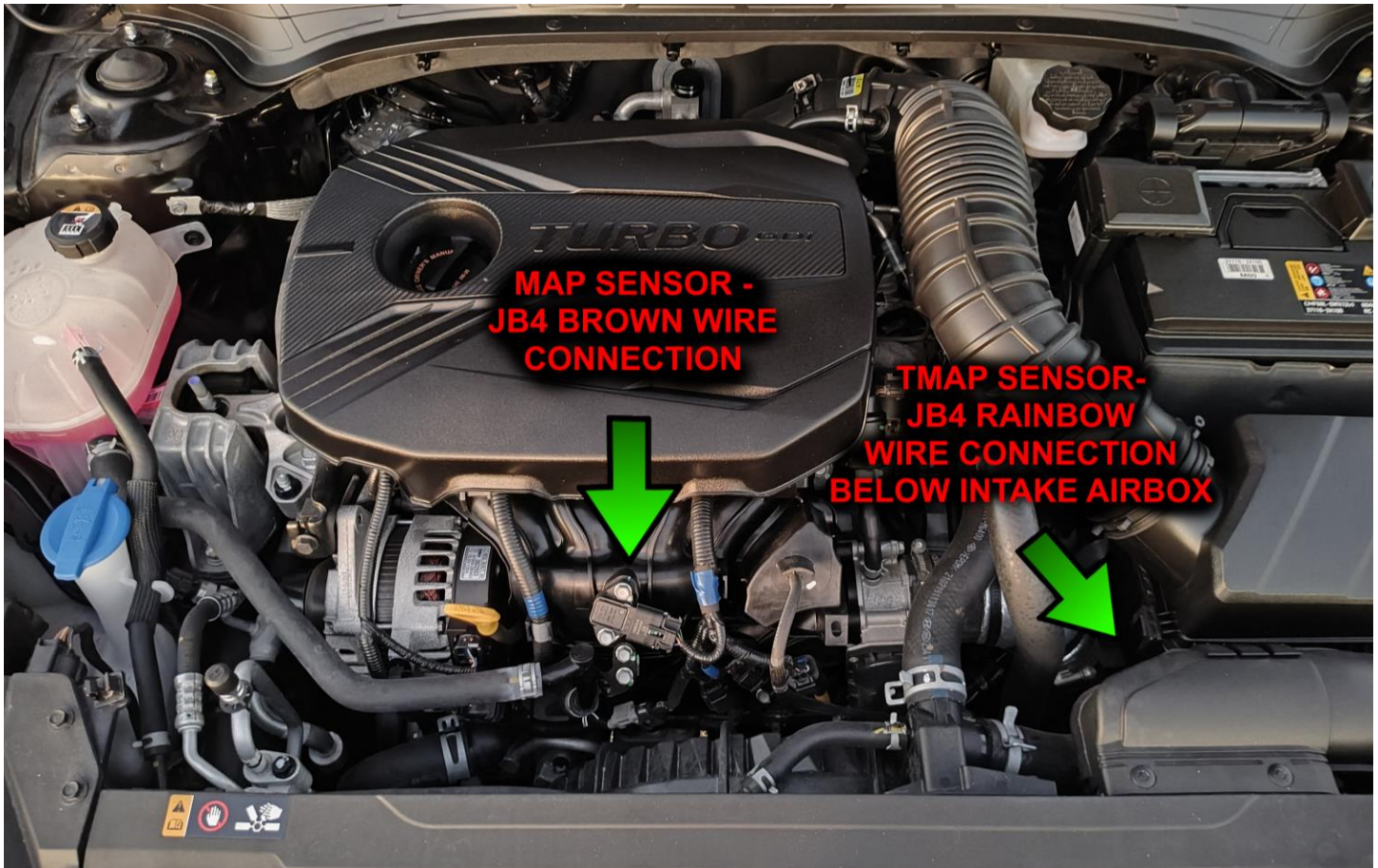


OPTIONAL JB4 APP SHOWN

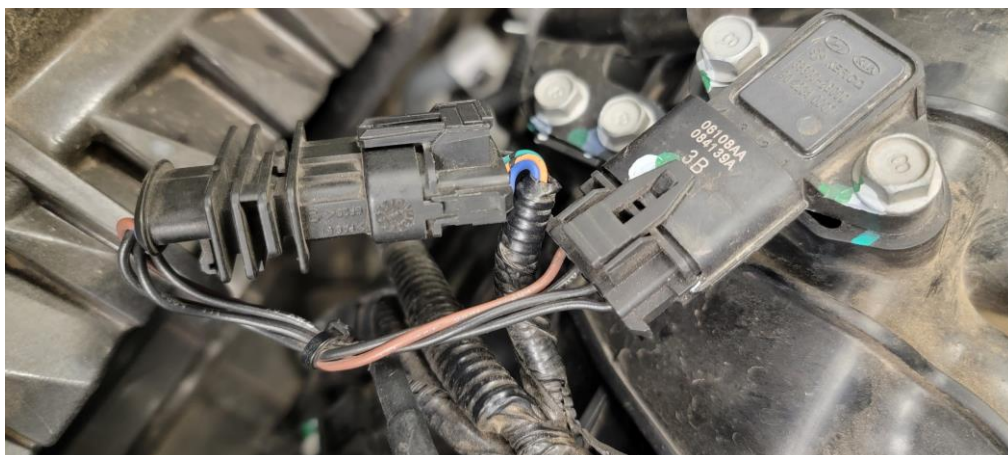
Open the hood, lock the doors, place your key far enough from the car not to wake it up, and wait 5 min for the vehicle's computer to go to sleep.



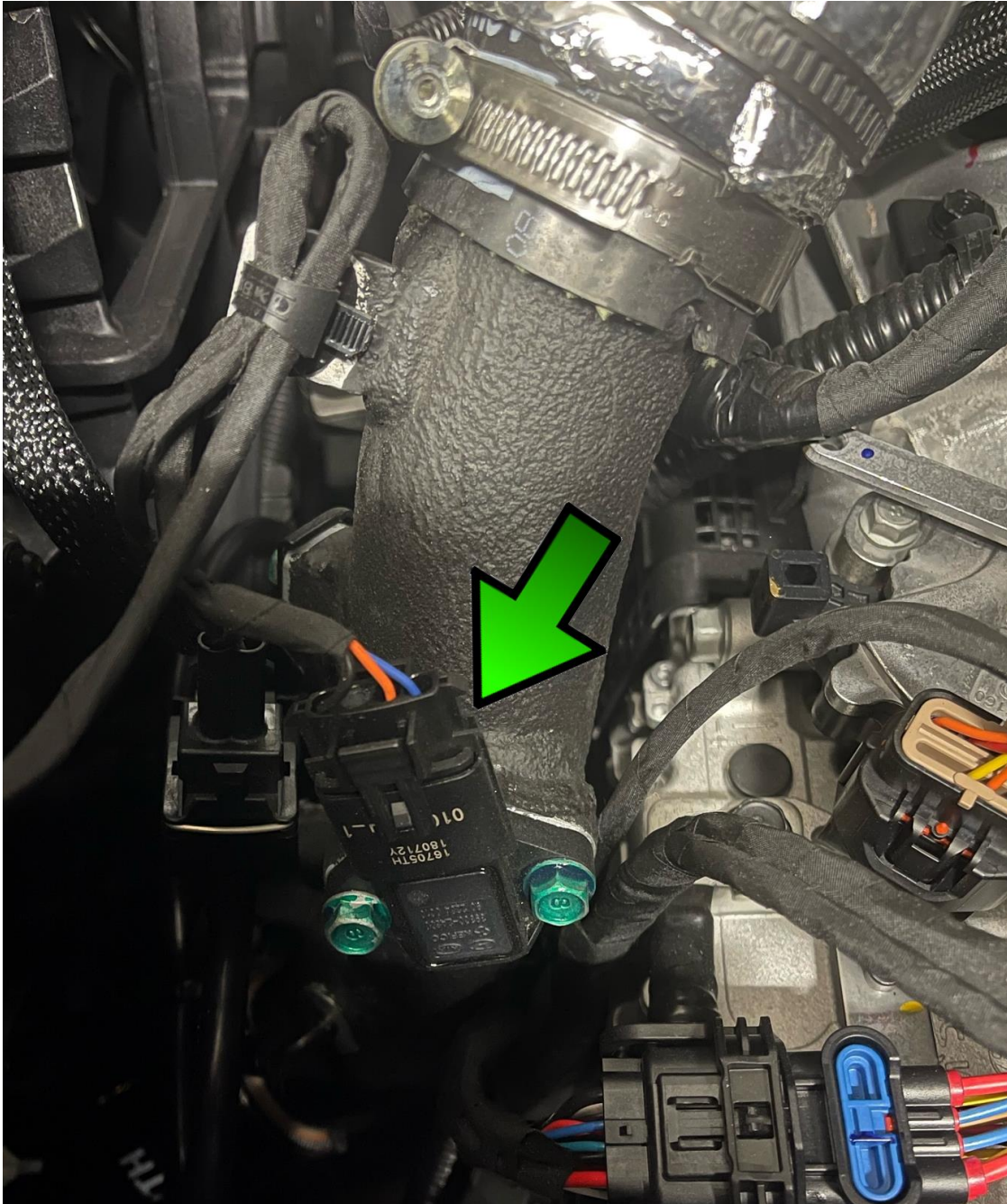
The JB4 harness has two similar looking connectors on it for. The one with the rainbow colored wires will attach to the TMAP sensor at the chargepipe under the intake airbox, while the one with the brown wires will attach to the MAP sensor on the front of the intake manifold.



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



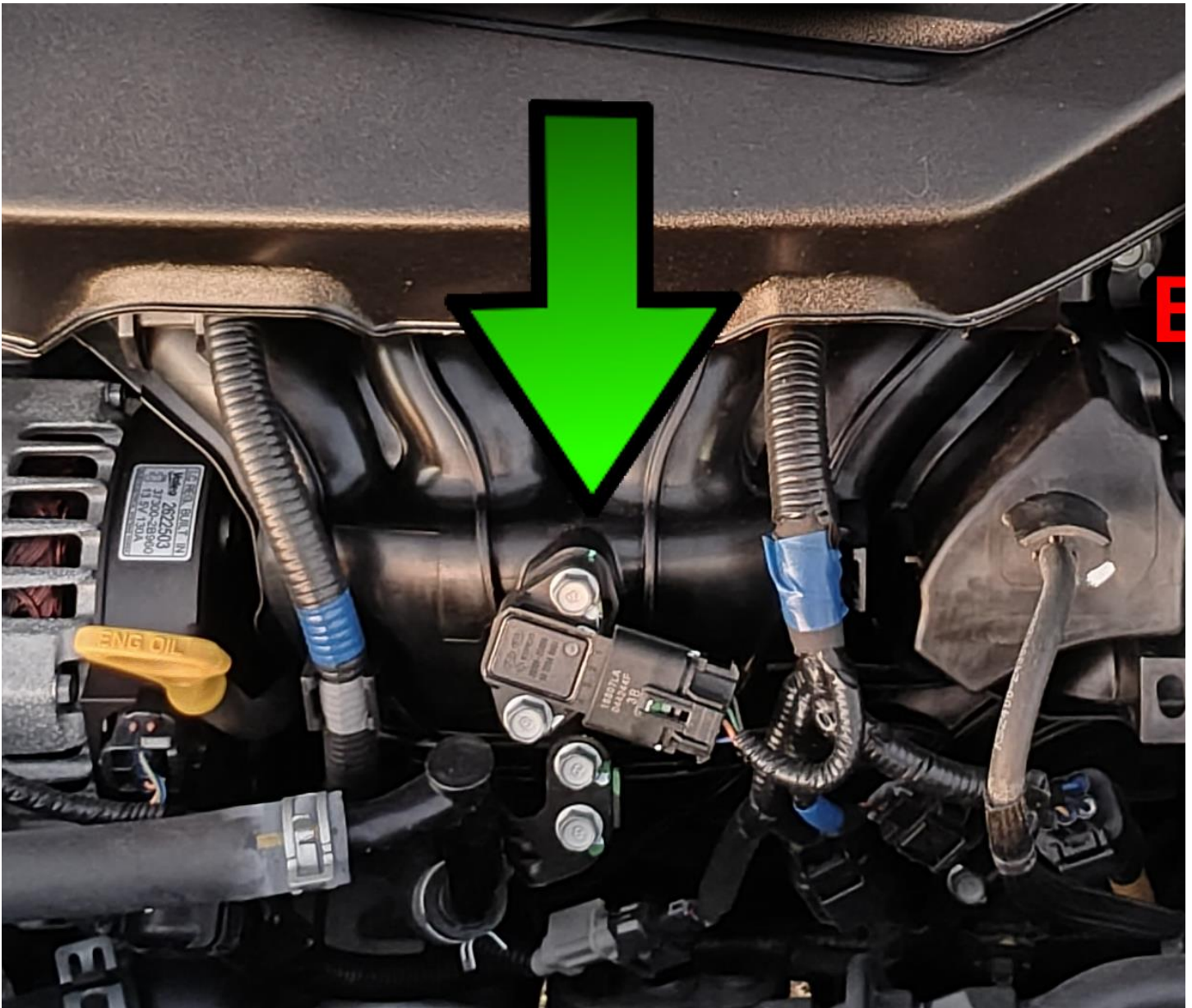
Attach the rainbow connection to the TMAP sensor on the charge piping (photo shows intake airbox removed, this is not necessary for the install):



This is a photo of the sensor with the airbox in place:



Attach the brown connection to the MAP sensor on the intake manifold:



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.

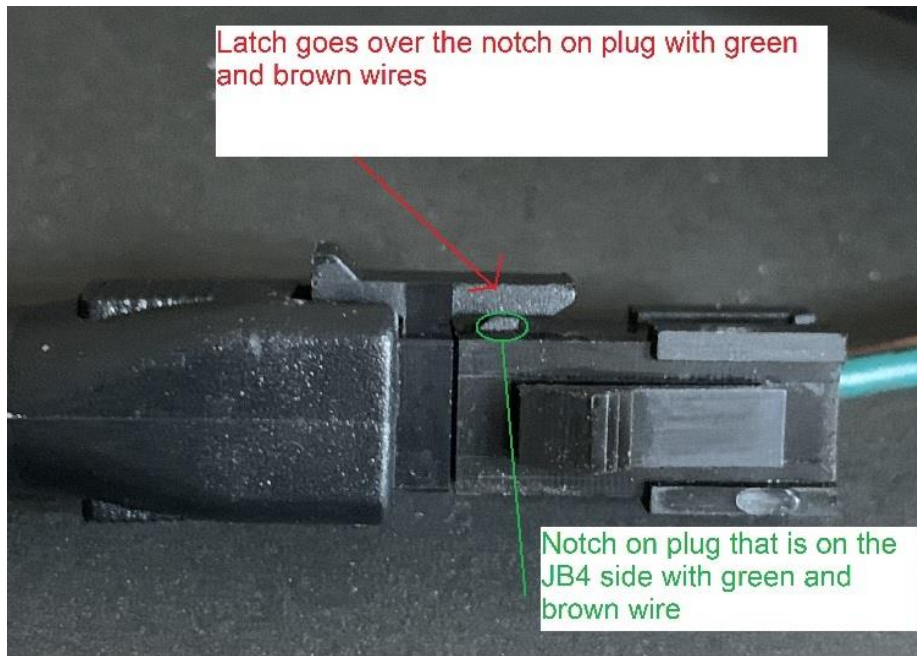
Finally, place the control box in the area shown.



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:



The JB4 includes optional black fuel control wires giving the JB4 the ability to directly change the air/fuel ratio. This is only useful for vehicles running E85 mixtures. If you are not doing so, tuck the fuel wires safely out of the way.

Contact support for information on connecting this wire connection at support@burgertuning.com.

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.

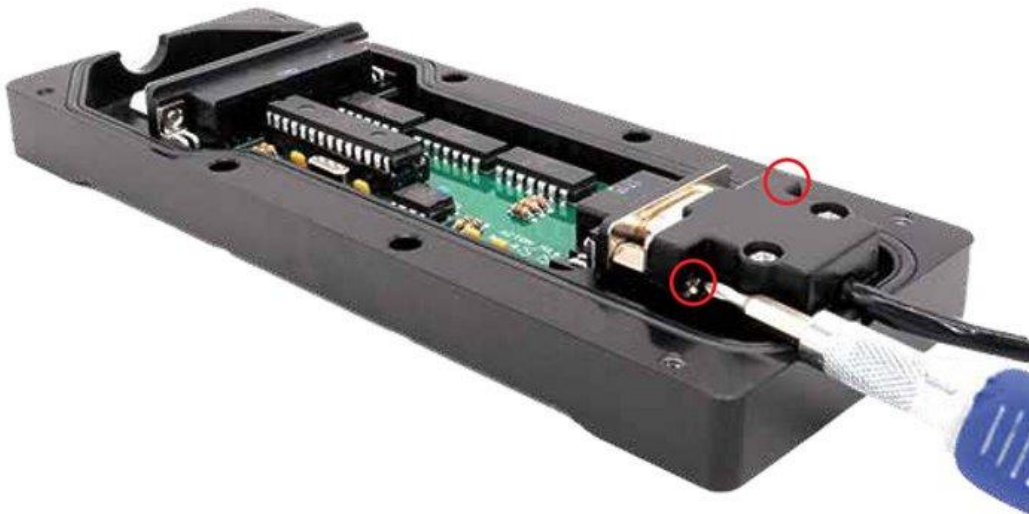
JB4 Connect Kit (Pinned Power) Install Guide

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.

Refer to the link below for the full map guide, software, firmware updates, how to videos, and tuning details.

<https://www.jb4tech.com/forum/model-specific-engine-tuning-modification-discussion/kia-hyundai-turbo/20722-kia-hyundai-jb4>