



Mazda 2.5T BETA Install Guide

Last Updated: 2/20/2021

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OPTIONAL JB4 APP SHOWN

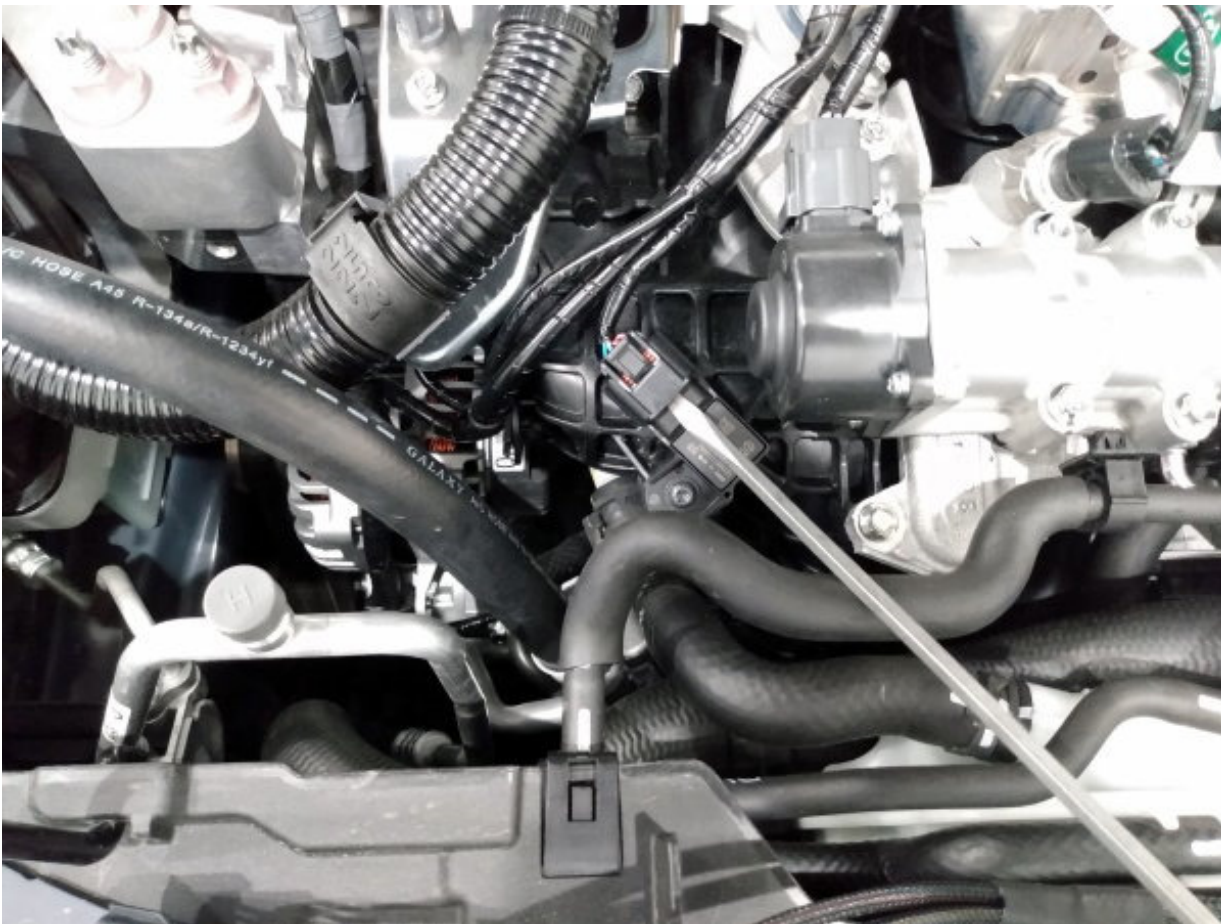
The JB4 will attach to two MAP sensors under the hood. In addition the optional OBDII cable will be plugged in and routed to the engine bay to provide CANbus for advanced logging and tuning features.

*** NOTE *** Photos are from a Mazda3 and CX-30. The other CX models will have a similar installation but the sensors are in different locations. Refer to the CX specific photos at the bottom of the guide.

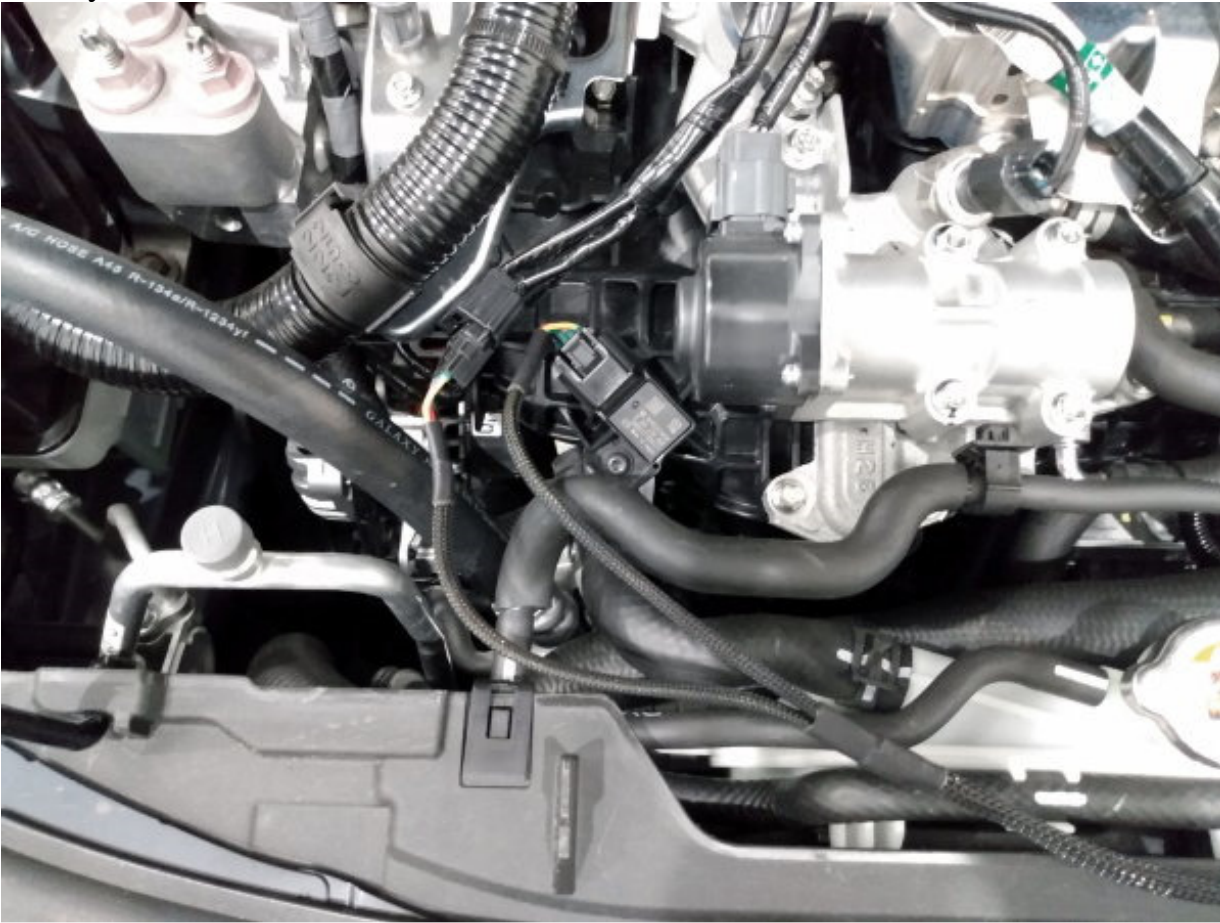
Before starting open the hood, lock the doors, and place the key far enough away to not wake up the vehicle. Wait 5 minutes to ensure the vehicle has gone to sleep.

Remove the plastic engine cover by pulling it up and out of the engine bay and place it aside.

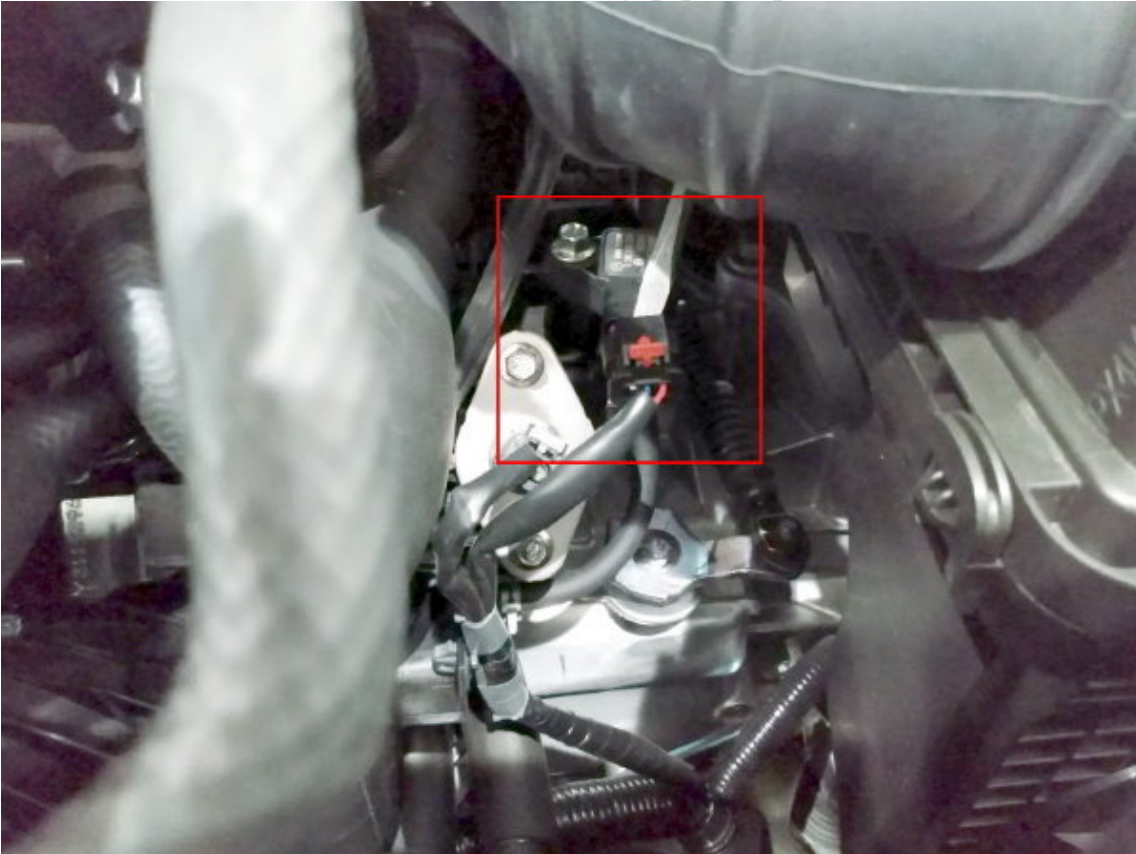
The manifold sensor is located to the left of the engine bay.

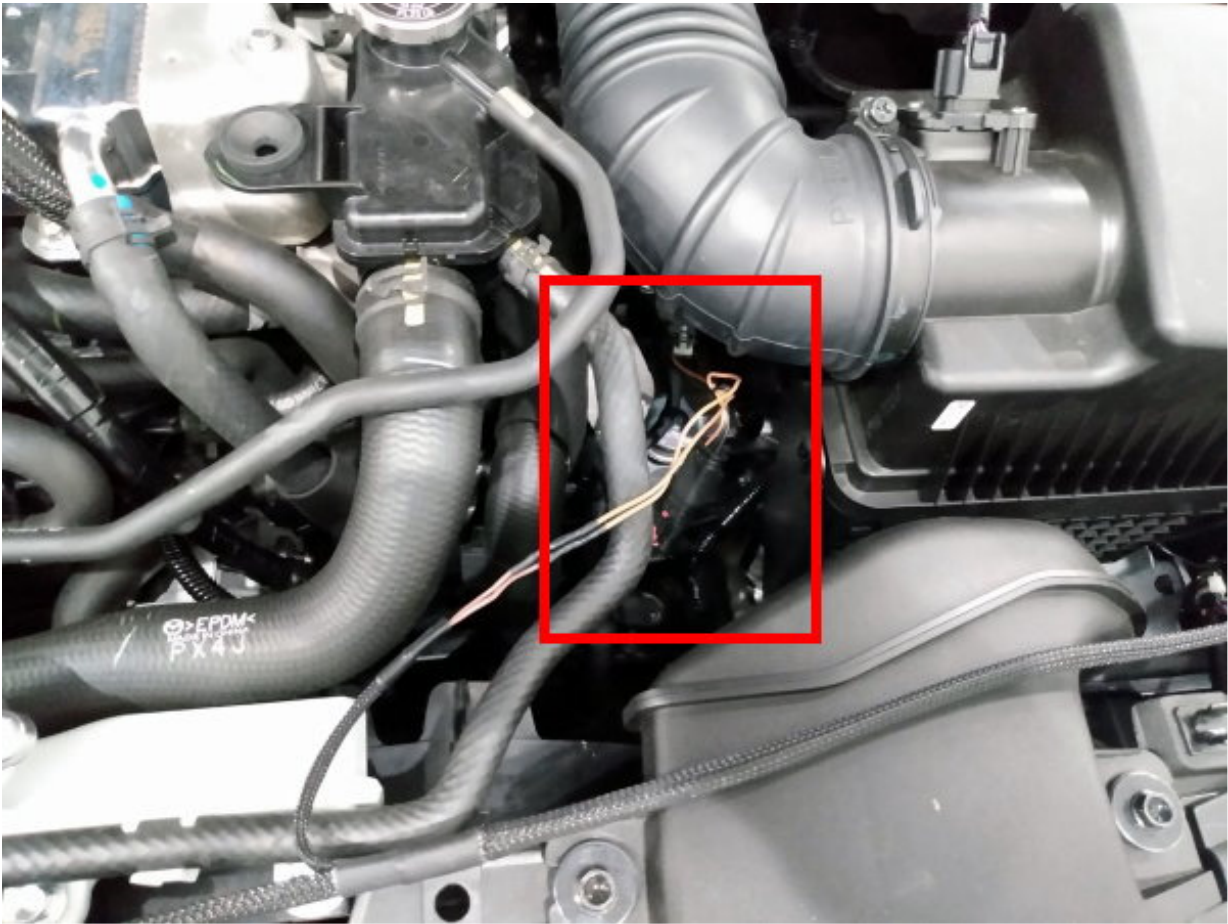


Unplug the factory connection from sensor, attach the JB4 connection to sensor, and connect factory harness to the JB4.

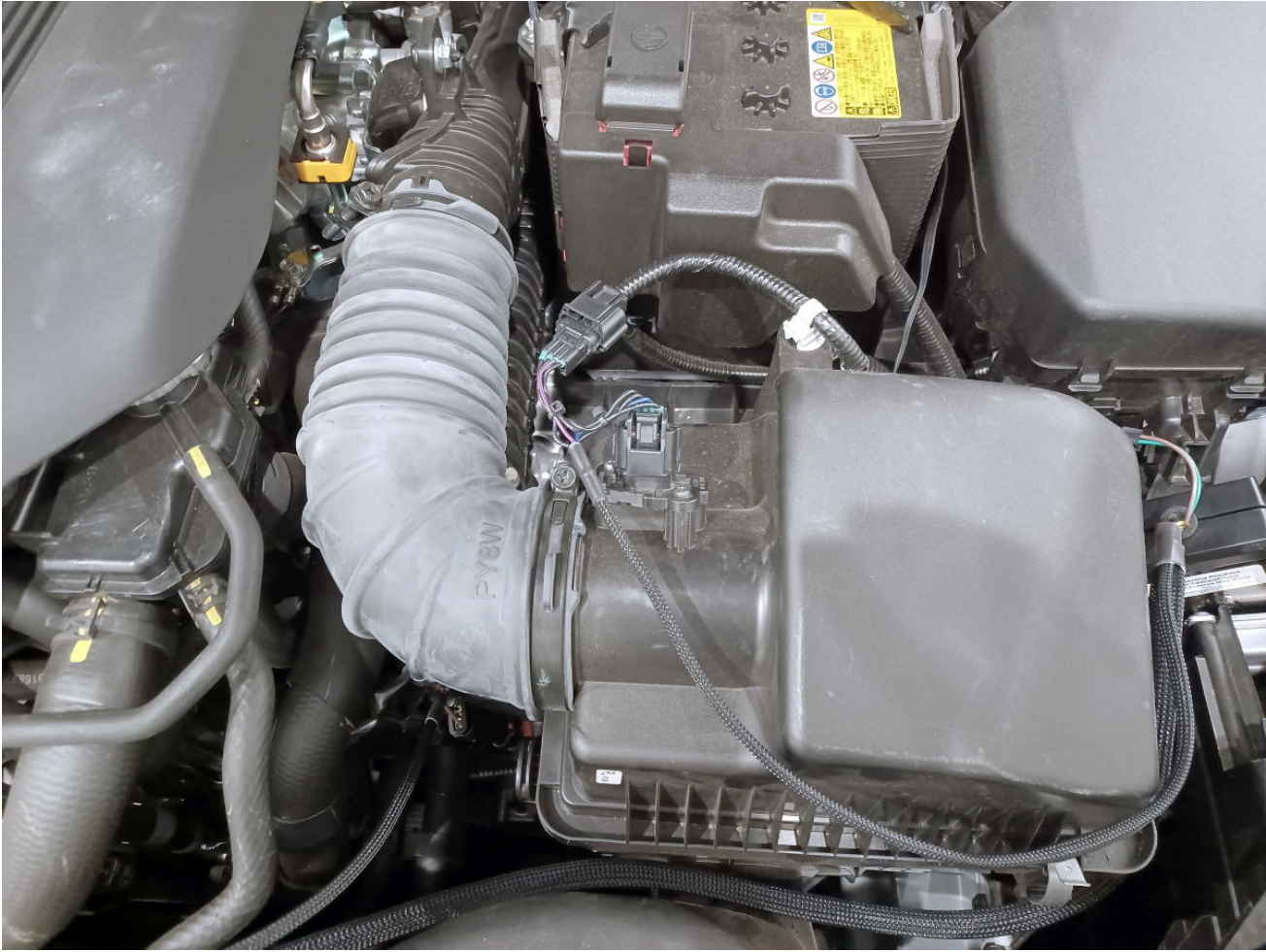


Similarly for the MAP sensor on the chargepipe loop in the JB4 connection.





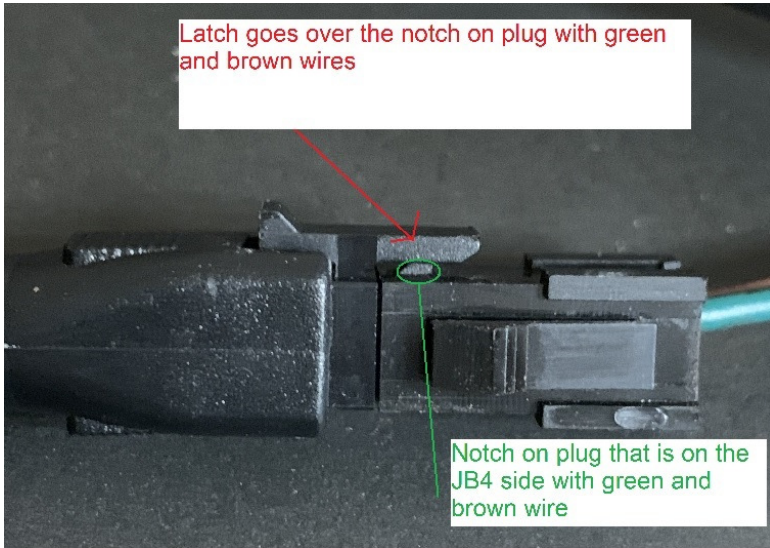
The final connection is the MAF connection which attaches to the intake as shown. Note this connection is only on Mazda and CX-30 systems.



Once the first two connections are complete you may unlock and open the doors again to attach the OBDII cable. Plug it in to the OBDII port under the dash.

There are two methods for routing the OBDII cable. The “quick” method is to simply route it around the door jamb in to the engine bay. The “clean” way documented below involves routing it through the firewall by pushing out a grommet, routing cable, and pushing grommet back in.

Whichever method used be sure to properly attach the OBDII to the JB4 connection as shown.



Push grommet out using a long screwdriver



Route OBDII cable to engine bay through pushed out grommet



View from engine bay side



After routing use long screwdriver to push grommet back in place



Completed OBDII routing



If you've opted for the optional JB4 mobile adapter or data cable open the JB4 enclosure using a 2.5mm allen wrench and screw the adapter in to the JB4 control board as shown.

1) Open the JB4 enclosure.



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



Reinstall the engine cover, tuck the JB4 anywhere in the engine bay near the battery area, and installation is complete! The JB4 comes preset to map1 which is suitable for all 91+ RM2 octane fuels.

Refer to the n54tech thread for the latest map guide, firmware, settings, and details:
<https://www.n54tech.com/forums/showthread.php?t=63938>

CX specific directions:

The first MAP sensor is in the engine bay in generally the same location as the Mazda3 photos above. The second MAP sensor is located on the passenger side intercooler and is quite tricky to reach. You may need to remove the bumper panel and access the sensor from under the car.

