



C300, C400, C450, & C43 Stage1 & JB4

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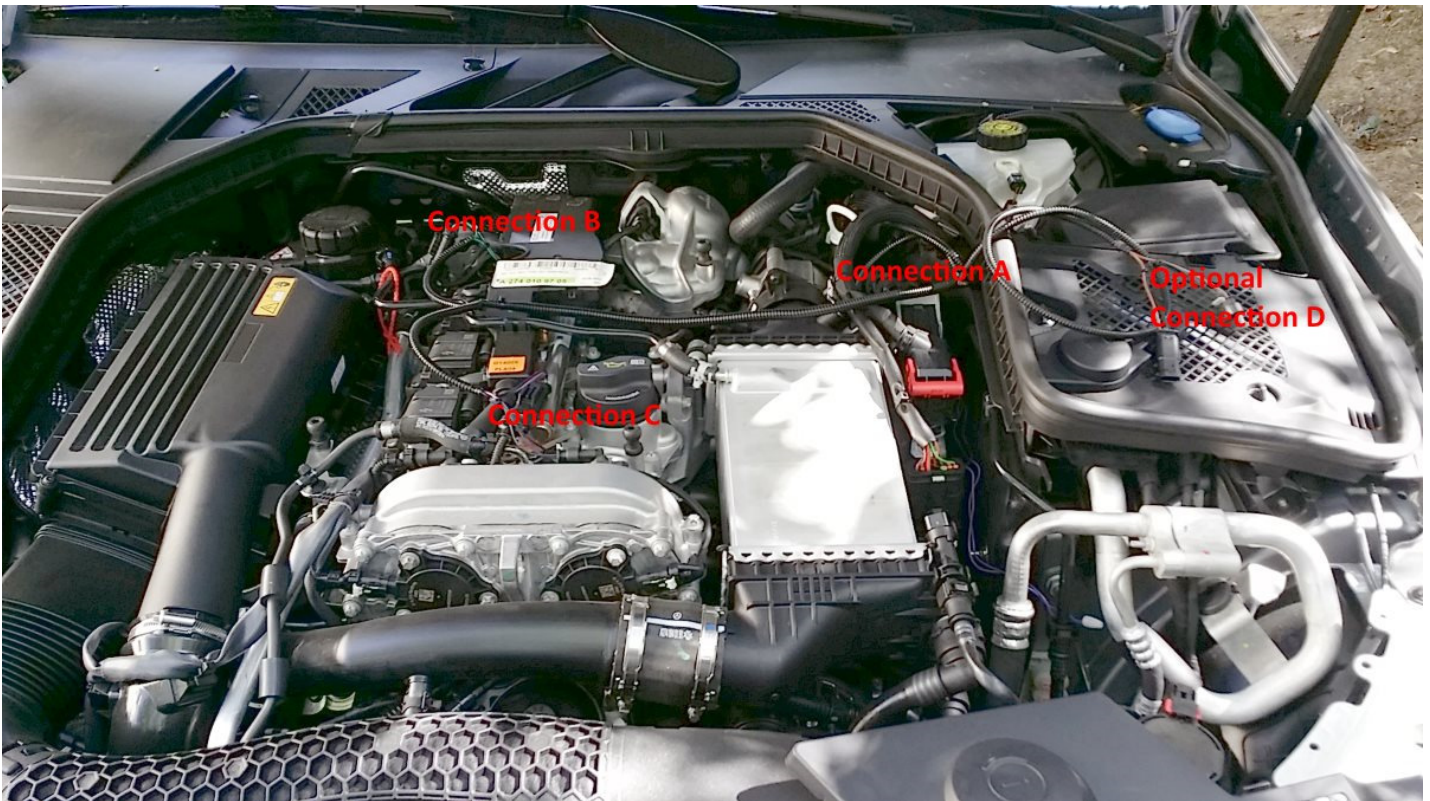


All models: Open the hood, lock the doors, and wait 5 minutes for the ECU to go to sleep before beginning the installation. Alternatively disconnect the negative battery cable in the trunk. Extreme care should be taken when working with live wiring to avoid electrical damage.

Lift the engine cover up and out of the engine bay.

The harness consists of plug and play connectors which will be installed per the model specific directions below.

C300:



A) Rainbow wire patch, 3 positions

Both JB4 & Stage1: Connect to TMAP connection A.

B) Green wire patch, 4 positions.

JB4: Not currently used, tuck out of the way.

Stage1: Optional for those planning to run E85 mixtures. Connects to fuel rail connection B.

C) Purple wire patch, 3 positions

JB4: Not currently used, gen2 harnesses do not have this wire all together.

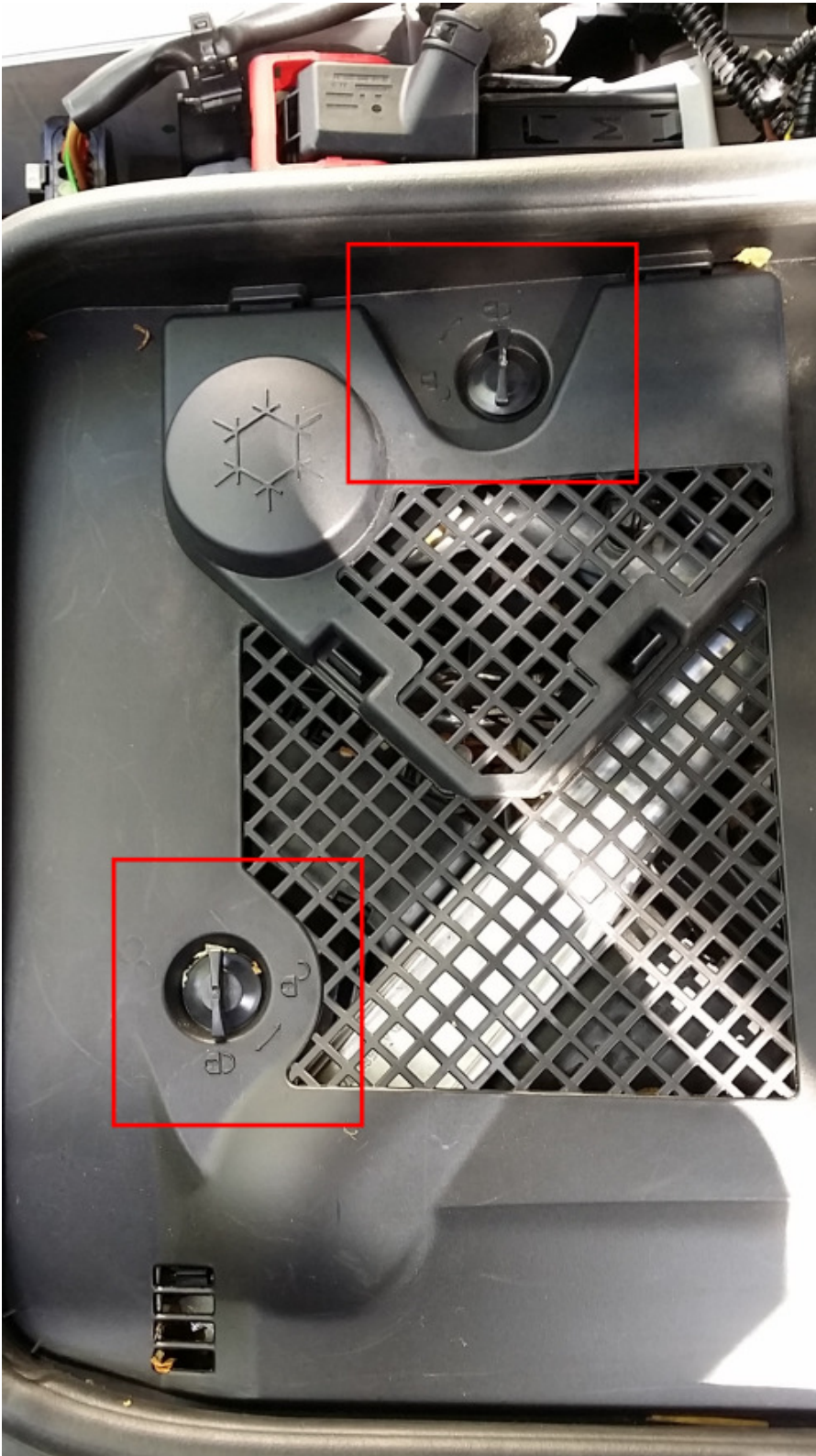
Stage1: Connects to camshaft sensor C.

D) Brown wire patch, 3 positions

Both JB4 & Stage1: This is the most difficult to install connection and installs to the pressure sensor on the intake manifold. Installation requires removal of the intercooler and in most situations we suggest simply not installing it unless the ultimate performance is required.

Control box placement:

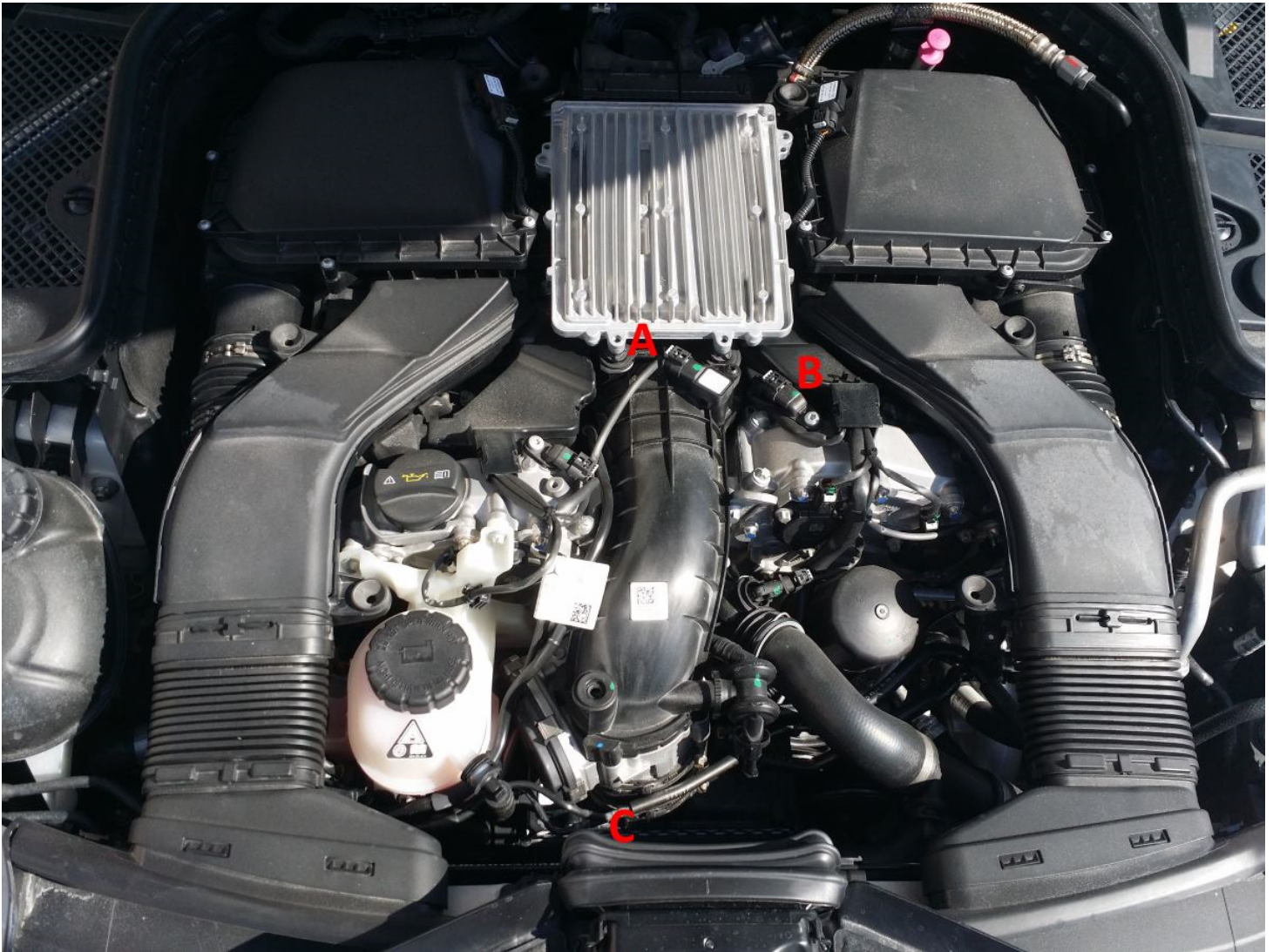
Unlock the driver side engine cover as shown by turning these two knobs.



Place the wiring harness with control box attached under the plastic cover behind the brake booster as shown. You can secure the box to the brake booster area with a zip-tie, or simply wedge it between the brake booster, and the engine cover. Care should be taken to ensure the box is not left under the grated area of the engine cover where water could drip in to the control box.



C400/C450/C43:



A) Rainbow wire patch, 3 positions

Stage1 & JB4: Connect to TMAP connection A.

B) Purple wire patch, 3 positions

JB4: Not used, tuck out of the way. Gen2 harnesses do not have this connection.

Stage1: Connects to camshaft sensor B.

C) Brown wire patch, 3 positions

Stage1 & JB4: Connect to TMAP sensor C.

D) Green wire patch, 4 positions. This connection is not currently used for these models, tuck it out of the way for future use.

Control Box placement:

Lift up the driver side panel, route the JB4 wires under the panel, and place the box on top of the strut support. When you reinstall the panel the JB4 box will be wedged between the panel and the strut brace and stay in place. Alternatively you can zip-tie it in place.



JB4 Optional OBDII:

The OBDII connection allows the JB4 to tap in to the CANbus system and provides advanced tuning functions, logging, code read/delete options, and much more overall functionality.

This cable can be installed the easy way, or the clean way.

The easy way:

Plug the OBDII cable in to the OBDII port under the dash and route the cable along the door jamb to the engine bay, plugging it in to the matching JB4 small black connector.

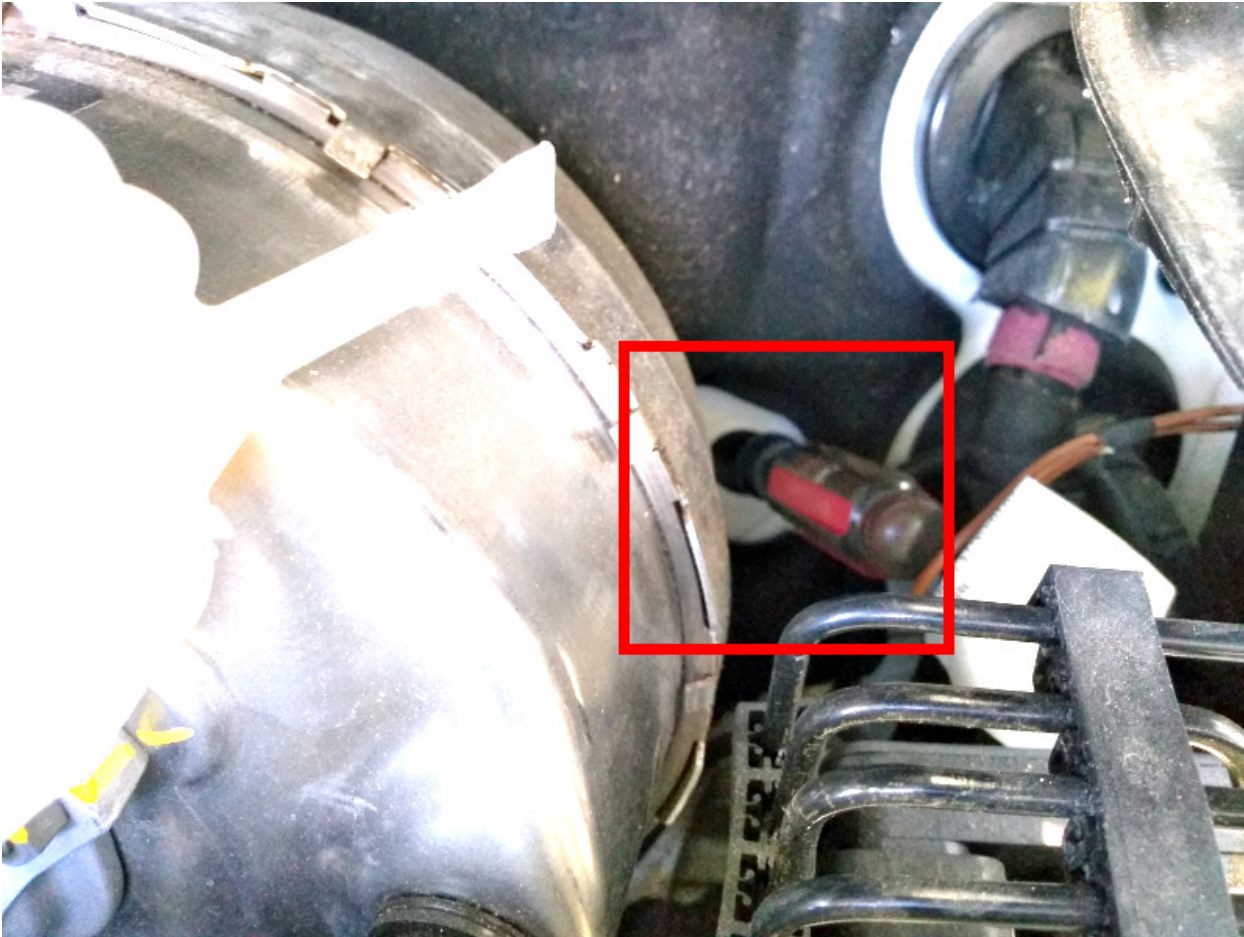


The Clean Way:

Same OBDII connection but we'll route the cable through a hole in the firewall for a cleaner installation.

Lift up the cover and using a screw driver push out the small circle rubber grommet.

To install push out the grommet using a screwdriver and push the OBDII cable through. Plug the OBDII cable in to the JB4 molex/4 position short connector.



Inside the car under the dash tape the OBDII cable to the screwdriver so when you pull it out the OBDII cable follows. Alternativelty you can just poke the cable through the hole manually.



The result will be the OBDII cable passed in to the engine bay which you'll plug in to the JB4 harness.



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>

The Stage1 and JB4 both come preset to Map1. For additional maps, settings, and directions be sure to check our n54tech support thread:

<https://www.n54tech.com/forums/showthread.php?t=28003>