



BMS B38/B46/B48/B58 JB4 Install Guide

Last Updated: 2/2/2021

Applicable year/model vehicles listed at end of install guide

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OPTIONAL JB4 APP SHOWN

NOTE TO CALIFORNIA CUSTOMERS:

Provided with this tuner is an Executive Order (EO) self-adhesive label. This label is required in passing a smog inspection test. The EO label should be placed on or near the device in the engine compartment so that the smog check technicians can verify the EO number. Note that only the version bearing the JB4_B58 part number carry this Executive Order label and a version that does not bear this part number may not be used in California.

When working with live wires ALWAYS disconnect the negative battery terminal in the trunk first. Do not attempt to install the tuner, connect the tuner box to the harness, or otherwise work on the vehicles electrical system with the battery connected. Doing this may result in a damaging voltage spike being sent to the DME.

1) Remove the plastic engine cover. The cover simply lifts off. Also remove the driver side cowl cover which is secured by 3 10mm plastic release bolts. Turning the bolts 90 degrees each will release the tab and allow you to pull the cover off.

2) The harness is divided in to wire loops each with its own wire color which will be routed to a specific sensor on the vehicle. In addition, there are a pair of green and brown CAN wires that will connect to the CANbus using the included OBDII adapter.

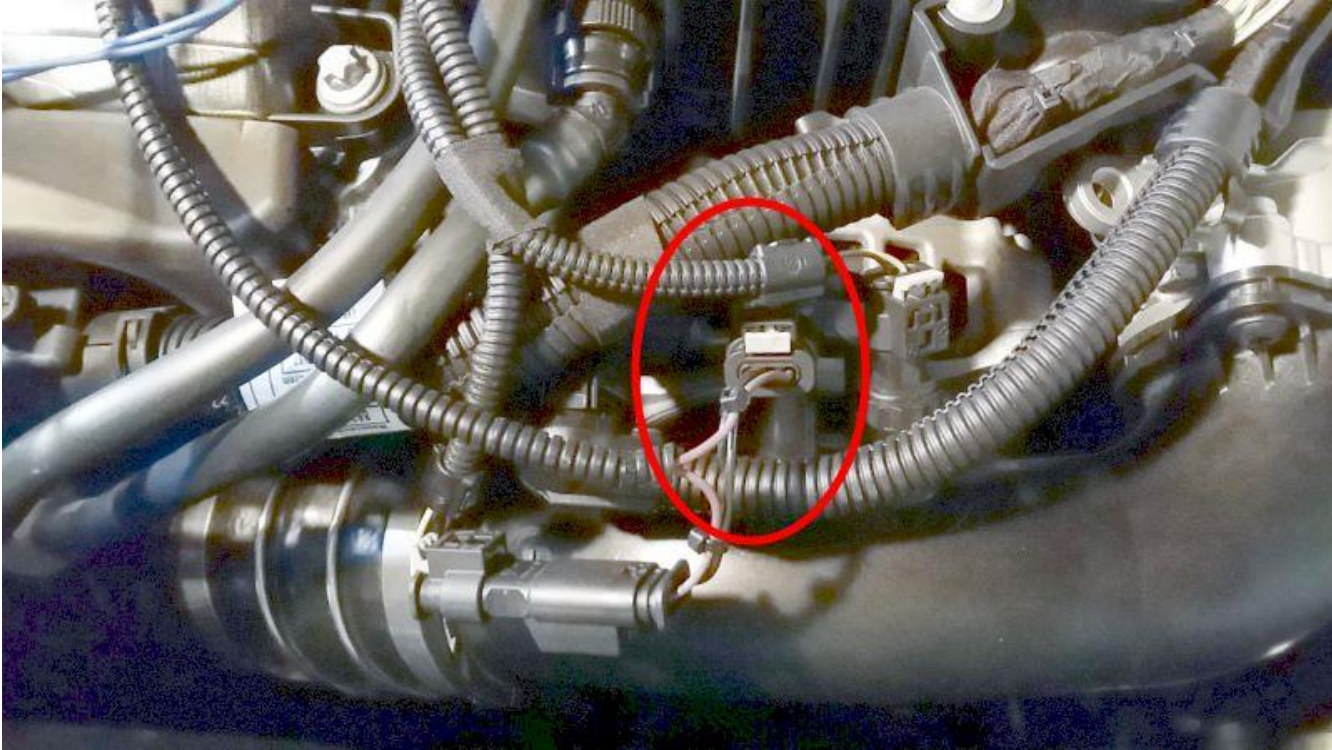
3) TMAP sensor, rainbow patch:

The TMAP sensor is located on the intake manifold on the top of the engine next to the oil filler cap. Unplug the factory harness, plug the JB4 harness in to the sensor, and plug the factory harness in to the JB4. The clip is released by pushing back and pressing down on the gray locking tab. Alternatively you can use a small flat head screwdriver to lift the clip up from the front.



4) MAP sensor, brown patch:

The MAP sensor is located on the top of chargepipe several inches before the throttle body and disconnects similar to the TMAP sensor. Unplug the factory harness, plug the JB4 harness in to the sensor, and plug the factory harness in to the JB4.



5) green/brown CANbus connector

This optional connector attaches to the OBDII port to enable the CANbus features listed below.



Remove the panel under the steering wheel by removing the 2x 10mm bolts, and if you need the room unplug the courtesy light and speaker connection so the panel can be moved out of the way all together.



Using a long screwdriver push in on the rubber firewall cap pushing it in to the interior compartment. You'll see it fall down by the pedals and can put it away for safe keeping. Feed the OBDII wire from the interior through the hole to the engine compartment.



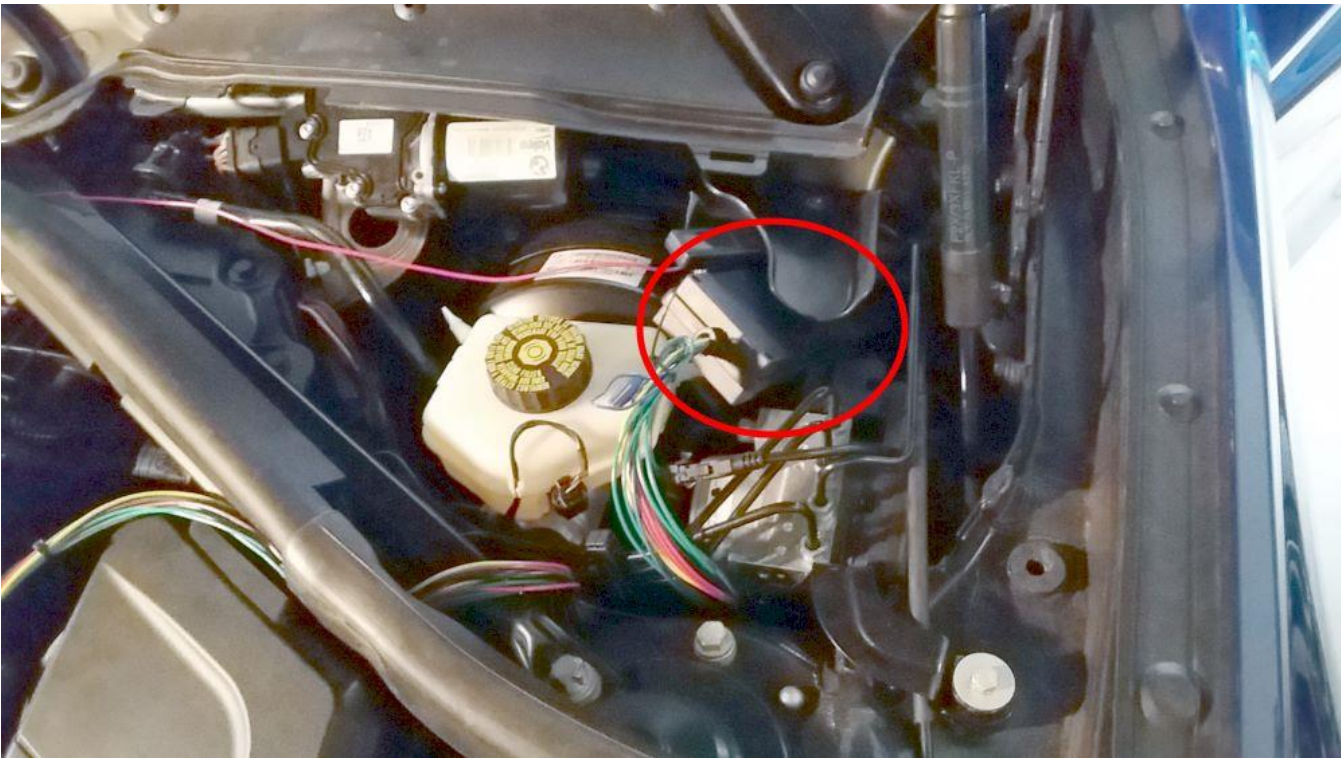
Plug the OBDII wire in to the JB4 green/brown pair connector.



Reinstall bottom cover and route CANbus wire behind it for a clean look.



6) Tuck the now fully installed JB4 control box out of the way as shown. The wiring harness should be routed under the rubber cowl seal for a clean fit once the cowl cover is reinstalled. Tuck any extra wire length out of the way taking some care to ensure nothing is too close to the moving mechanical parts of the windshield wiper arm/assembly.



7) Reconnect negative battery terminal, reinstall the cowl cover, and reinstall the engine cover.

Installation is complete!

User Adjustment (F-Chassis Models Only):

If you've installed the optional OBDII cable you can use the BC button on your turn signal to communicate with the JB4 and adjust settings. To access this menu press and hold the BC button until the left blinker light appears and the speedometer and tachometer both go to 0. The menu is shown on the speedometer and will increment each time the BC button is pressed. If you press and hold the BC button on a specific menu the right blinker light will turn on and the tachometer will reflect the menu setting, where 0rpm = 0, 1000rpm = 1, 2000rpm = 2, 3000rpm = 3, etc. Press the BC button to cycle through the settings, and then press and hold the button to save that setting and exit the menu system.

Menu0: Performance level (map)

Map0: JB4 fully disabled

Map1: 3psi of boost added

Map2: 4psi of boost added (default setting)

Map3: 5psi of boost added

Menu1: Unused

Menu2: Boost gauge

Select 0 to disable (default setting) and 1 to enable. Displays engine boost pressure in dash under fuel gauge read out, active only under full throttle, showing a range of 0 to 26psi.

Menu3: Unused

Menu4: Delete fault codes

When installing if you fail to disconnect the battery before unplugging a vehicle sensor or do not properly insert a connector you may trigger a check engine light. Selecting this option will delete fault codes from the vehicles computer. Note that active fault codes indicate a problem is still present and will not delete. If after deleting fault codes your check engine light remains on then you have an active issue which must be addressed by a qualified automotive repair facility.

Menu5: Boost cap in 1st gear (default disabled)

This menu allows you to limit how much engine boost is generated while the transmission is engaged in 1st gear to assist with improving traction. Note that boost will not reduce below the factory values. Formula is desired boost cap * 200. E.g. 2000rpm = 10psi, 3000rpm = 15psi, etc.

Menu6: Boost cap in 2st gear (default disabled)

This menu allows you to limit how much engine boost is generated while the transmission is engaged in 2st gear to assist with improving traction. Note that boost will not reduce below the factory values. Formula is desired boost cap * 200. E.g. 2000rpm = 10psi, 3000rpm = 15psi, etc.

Menu6: Boost cap in 3rd gear (default disabled)

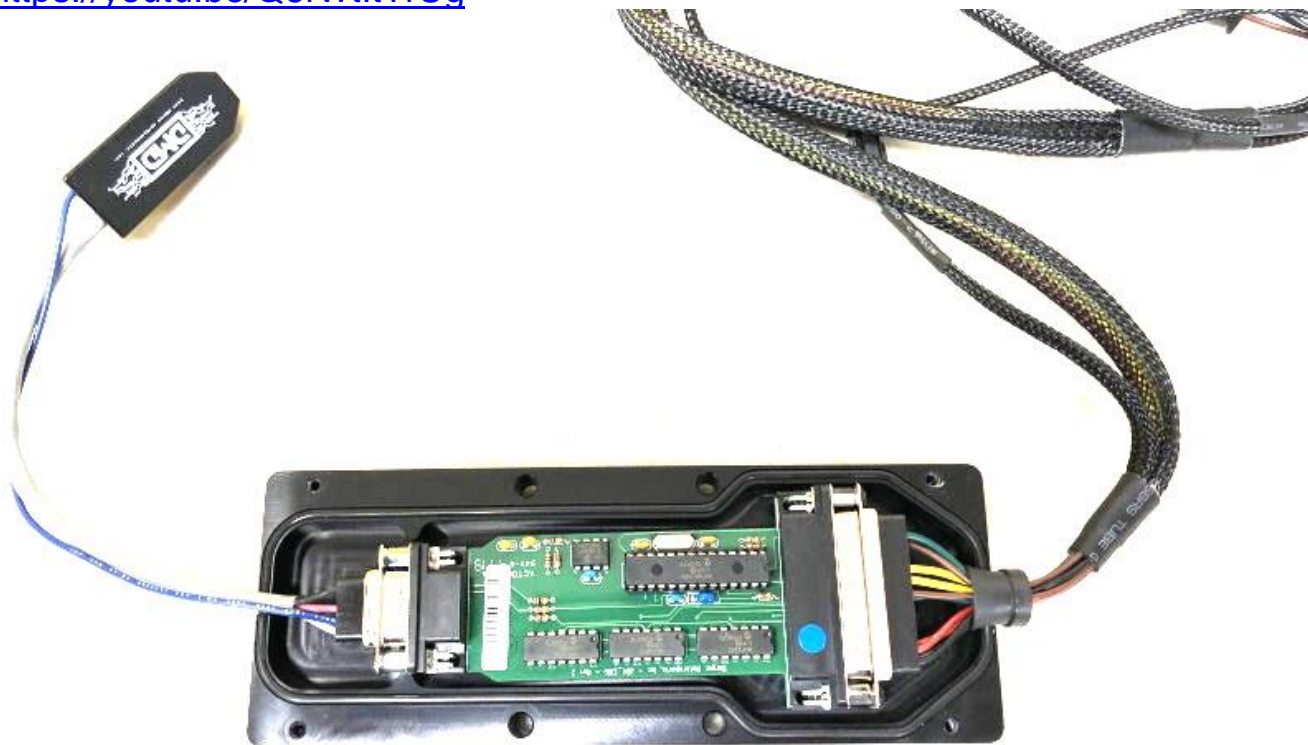
This menu allows you to limit how much engine boost is generated while the transmission is engaged in 3rd gear to assist with improving traction. Note that boost will not reduce below the factory values. Formula is desired boost cap * 200. E.g. 2000rpm = 10psi, 3000rpm = 15psi, etc.

Note that only the settings above can be adjusted on the JB4_B58 (CARB Approved Model) and the ability to update firmware or change additional settings have been physically blocked from the unit.

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.

This video shows how to take apart the JB4 enclosure and plug in the adapter, and for those models that require it, how to attach the posi-tap to the loose blue wire:

<https://youtu.be/Q6NvtltTrUg>



Compatible vehicle list:

PART	Vehicle	Year	Engine
JB4_B58	BMW 230I CONVERTIBLE	2017-2018	2.0 Turbo Gas
JB4_B58	BMW 230I COUPE	2017-2018	2.0 Turbo Gas
JB4_B58	BMW 230I XDRIVE CONVERTIBLE	2017-2018	2.0 Turbo Gas
JB4_B58	BMW 230I XDRIVE COUPE	2017-2018	2.0 Turbo Gas
JB4_B58	BMW 330I	2017-2018	2.0 Turbo Gas
JB4_B58	BMW 330I XDRIVE	2017-2018	2.0 Turbo Gas
JB4_B58	BMW 330I XDRIVE GRAN TURISMO	2017-2018	2.0 Turbo Gas
JB4_B58	BMW 330I XDRIVE SPORTS WAGON	2017-2018	2.0 Turbo Gas
JB4_B58	BMW 340I	2016-2018	3.0 Turbo Gas
JB4_B58	BMW 340I XDRIVE	2016-2018	3.0 Turbo Gas
JB4_B58	BMW 340I XDRIVE GRAN TURISMO	2017-2018	3.0 Turbo Gas
JB4_B58	BMW 430I CONVERTIBLE	2017-2018	2.0 Turbo Gas
JB4_B58	BMW 430I COUPE	2017-2018	2.0 Turbo Gas
JB4_B58	BMW 430I GRAN COUPE	2017-2018	2.0 Turbo Gas
JB4_B58	BMW 430I XDRIVE CONVERTIBLE	2017-2018	2.0 Turbo Gas
JB4_B58	BMW 430I XDRIVE COUPE	2017-2018	2.0 Turbo Gas
JB4_B58	BMW 430I XDRIVE GRAN COUPE	2017-2018	2.0 Turbo Gas
JB4_B58	BMW 440I CONVERTIBLE	2017-2018	3.0 Turbo Gas
JB4_B58	BMW 440I COUPE	2017-2018	3.0 Turbo Gas
JB4_B58	BMW 440I GRAN COUPE	2017-2018	3.0 Turbo Gas
JB4_B58	BMW 440I XDRIVE CONVERTIBLE	2017-2018	3.0 Turbo Gas
JB4_B58	BMW 440I XDRIVE COUPE	2017-2018	3.0 Turbo Gas
JB4_B58	BMW 440I XDRIVE GRAN COUPE	2017-2018	3.0 Turbo Gas
JB4_B58	BMW 530I	2018	2.0 Turbo Gas
JB4_B58	BMW 530I XDRIVE	2016-2018	2.0 Turbo Gas
JB4_B58	BMW 740I	2016-2018	3.0 Turbo Gas
JB4_B58	BMW 740I XDRIVE	2017-2018	3.0 Turbo Gas
JB4_B58	BMW M240I CONVERTIBLE	2017-2018	3.0 Turbo Gas
JB4_B58	BMW M240I COUPE	2017-2018	3.0 Turbo Gas
JB4_B58	BMW M240I XDRIVE CONVERTIBLE	2017-2018	3.0 Turbo Gas
JB4_B58	BMW M240I XDRIVE COUPE	2017-2018	3.0 Turbo Gas

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