

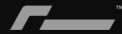


RACINGLINE

# PCM

POWER CONTROL MODULE

from



2.0 TSI EA888 gen.4

VWR030001/CONT/GAR

FITTING INSTRUCTIONS



## WHAT'S IN THE KIT?

- ▷ 1 x Power Control Module (PCM)
- ▷ 1 x Carbon Fibre Mounting Bracket
- ▷ 1 x Aluminium Retaining Bolt
- ▷ 1 x MQB EVO Wiring Harness
- ▷ 1 x PCM Deactivation Plug
- ▷ 3 x Zip Ties

## REQUIRED TOOLS AND PARTS

- ▷ 10 & 12mm Socket & Ratchet/Wrench
- ▷ T25 Torx bit & Driver

## FITTING NOTES

- ▷ This is a complex install, and any mistakes can lead to vehicle warning lights & incorrect engine operation.
- ▷ Therefore, we highly recommend professional fitment of this PCM product.
- ▷ Prior to install, if the engine has been in operation, please wait until the engine cools down before performing installation to avoid potential flesh burns.
- ▷ Ensure all wiring harness connection have a complete
- ▷ RacingLine Performance will not be liable for any damage caused by mis-installation.



**Vehicle preparation:**

1. Unlock and open bonnet (Hood). Once bonnet is open wait for 15 minutes until vehicle all electrical components have switch themselves off.

Vehicle Installation Notes:

1. Vehicles with 'Keyless Entry' place the key away from the vehicle, about 10-15m from the vehicle
2. For vehicles with aftermarket alarms installed, the alarm must be disabled prior to starting any part of the PCM installation.

**Step 1:**

**Removal of engine cover & undertray:**

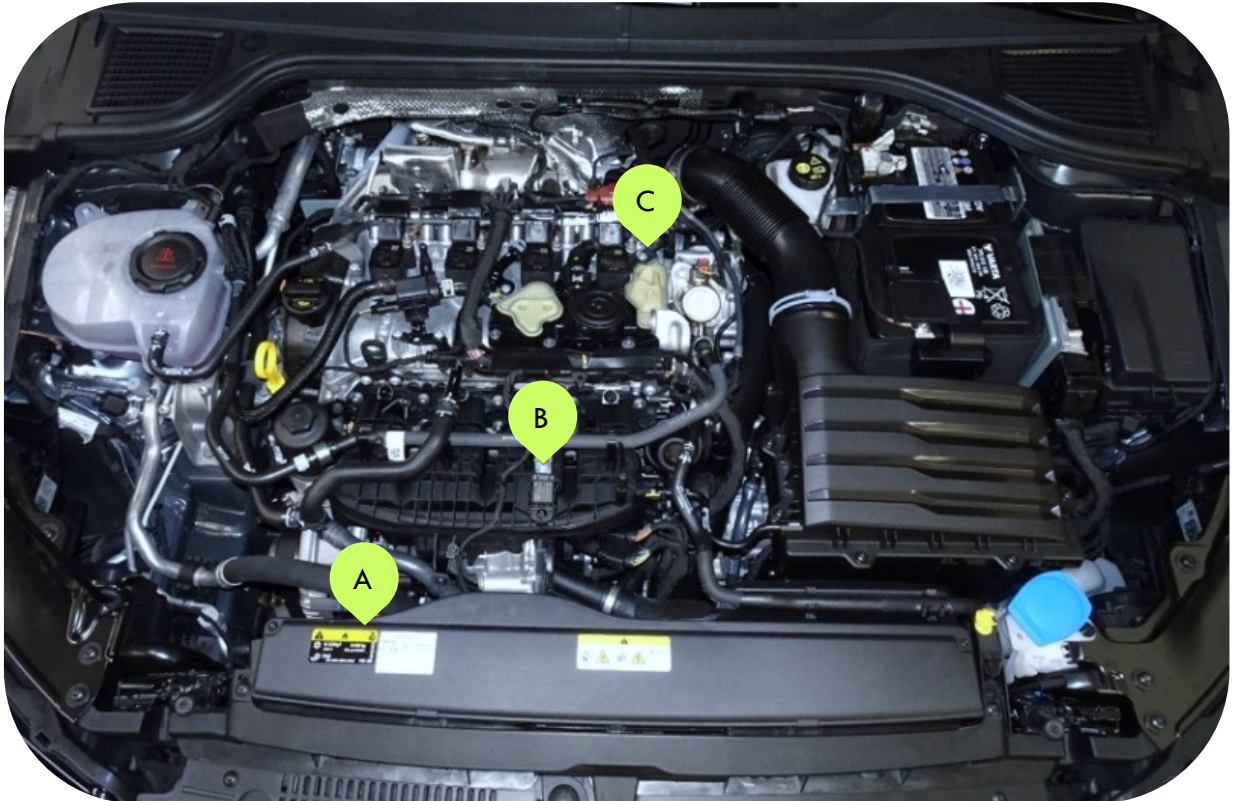
To allow easy access to all 3 wiring harness connection points, start by removing both the engine cover and vehicle undertray using a T25 Torx to removed the highlighted 8 x retaining screws, for greater visibility and ease when routing the wiring harness the OEM air box or R600 can be removed at this point also.



**Step 2:**

Once engine cover and undertray is removed all 3 wiring harness plug in points can be observed, please see below images for reference:

Pre Throttle Body Pressure Sensor = A / Intake Manifold Pressure Sensor = B / Camshaft Position Sensor = C



**Step 3:**

**Wiring Harness Installation:**

Lay wiring harness over engine bay and route the labelled harness sections to their respective connection points, using Step 2's images for reference.

For each section of PCM wiring harness ensure an audible click is present when each fitting is connected with the OEM wiring loom. To ensure the PCM harness is routed securely, please use the provide zips ties where needed.

**Harness Section A – Pre Throttle Pressure Sensor**

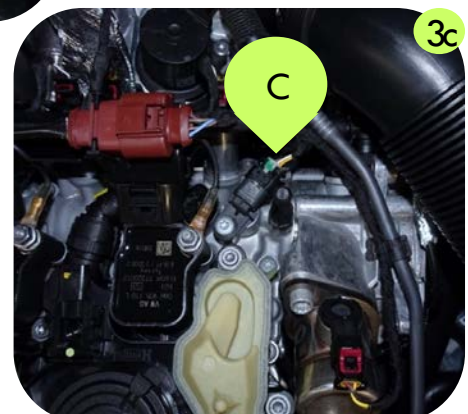
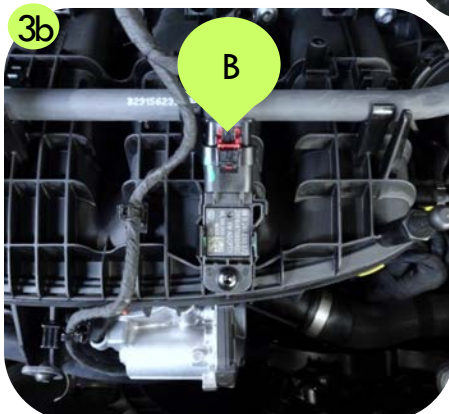
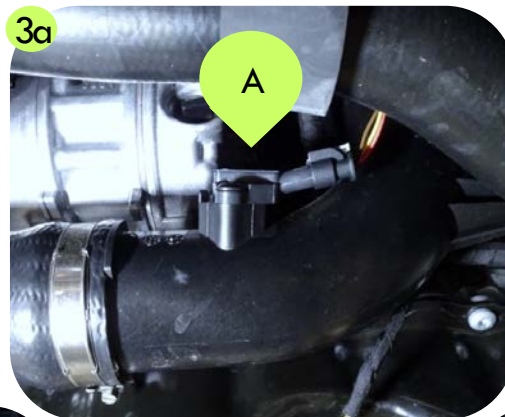
- Route section A down under the airbox and towards the front of the engine. From underneath the vehicle disconnect the pressure sensor connector and wire in series the PCM wiring harness section labelled A. See figure 3a for assistance.

**Harness Section B – Intake Manifold Pressure Sensor**

- Route section B across the engine, underneath the rear outlet/intake hose on air box and over the top of the intake manifold. Once the PCM harness is in place, disconnect intake manifold pressure sensor and wire in series the PCM wiring harness section labelled B. See figure 3b for assistance.

**Harness Section C – Camshaft Position Sensor**

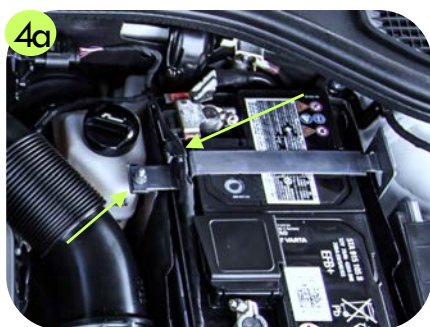
- Route section C towards the rear of the engine, underneath the airbox intake hose. Once the PCM harness is in place, disconnect camshaft position sensor and wire in series the PCM wiring harness section labelled C. See figure 3c for assistance.



#### Step 4:

##### Installation of PCM:

- Disconnect OEM battery connector which lays over the battery retaining strap. Once disconnected, remove OEM battery retaining strap using a 10mm spanner/socket, then unhook and removed from the engine bay. See Figure 4a for reference.
- The PCM is pre assembled and simply needs to be installed in the reverse order to the removal of the OEM battery bracket, using the RacingLine retaining bolt using a 12mm spanner/socket. Ensure battery wiring is also connected.
- Finally, connect PCM wiring harness to the PCM, this is completed by offering the connector to the PCM with the purple retaining clip pulled out. With the PCM and wiring harness connection contacting one another, push the clip inwards and this will result in the harness connector pulling itself onto the PCM connection.



#### Step 5:

##### Re-Installation of engine cover & undertray:

Now the PCM wiring harness is fully installed and secured using the supplied zip ties (if required). The final step is to re install the vehicle undertray using a T25 Torx and 8 x OEM screws and the engine cover. If the OEM airbox or R600 intake was removed, this also needs to be reinstalled at this point.

#### Step 6:

##### Function test:

- Switch ignition on, **DO NOT** start the engine.
- Once ignition is on, ensure check engine light and EPC light appear and go out as normal. If this happens you may now start the engine, the vehicle should start as normal and will react to the throttle while idling as prior to installation.
- Switch off engine and Ignition.
- Your RacingLine Power Control Module is now fully installed and ready to be enjoyed.