

# Installation Instructions

1.4/1.5/1.6 TDCi/HDi/D Engines – Bluespark Pro + Boost

**Bluespark**  
AUTOMOTIVE



This product has been designed and manufactured to work correctly with installation as described in these instructions.

Failure to follow these instructions could result in damage to property, damage to the product and or potential injury.

It is very important that you read and understand these instructions thoroughly before installing this product.

## Included Contents:

- Tuning Module
- Wiring Loom
- Fastening Ties
- Installation and User instructions
- Protective Bag For Module – (prevents damage to unit casing)



## Before installation:

1. Open the vehicle's bonnet
2. Remove the ignition key
3. Close and lock the doors
4. Wait 5 minutes before removing any electrical plugs



Do not open the vehicle doors or unlock the vehicle while installation is in progress.

## Installation Location:

The module should be installed between the vehicle's Rail and Boost Pressure sensors as shown in the diagram.

## Locating the Unit:

The unit itself should be mounted away from:



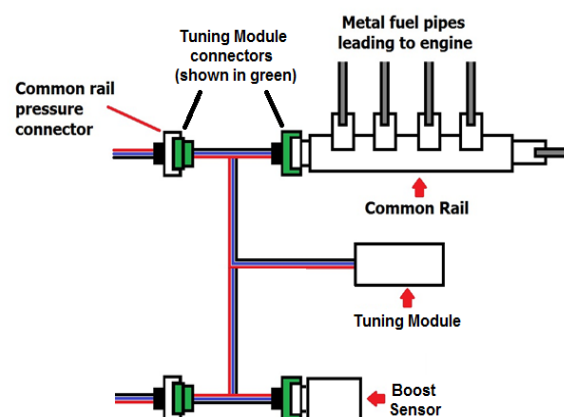
Sources of Extreme Heat



Sources of Vibration



Sources of Spray Water



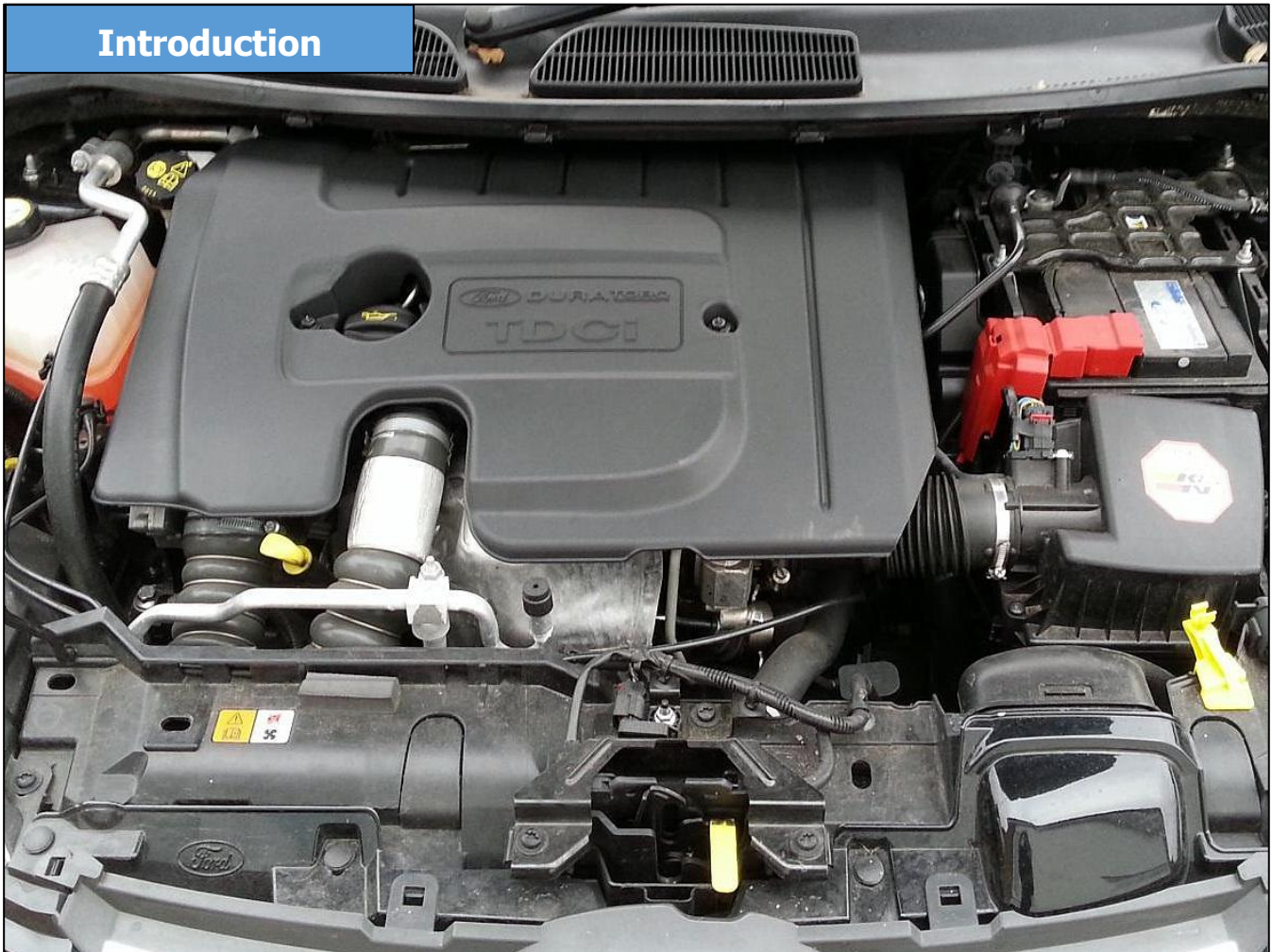
FS3#-FS3/4#-B-089B

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## Introduction



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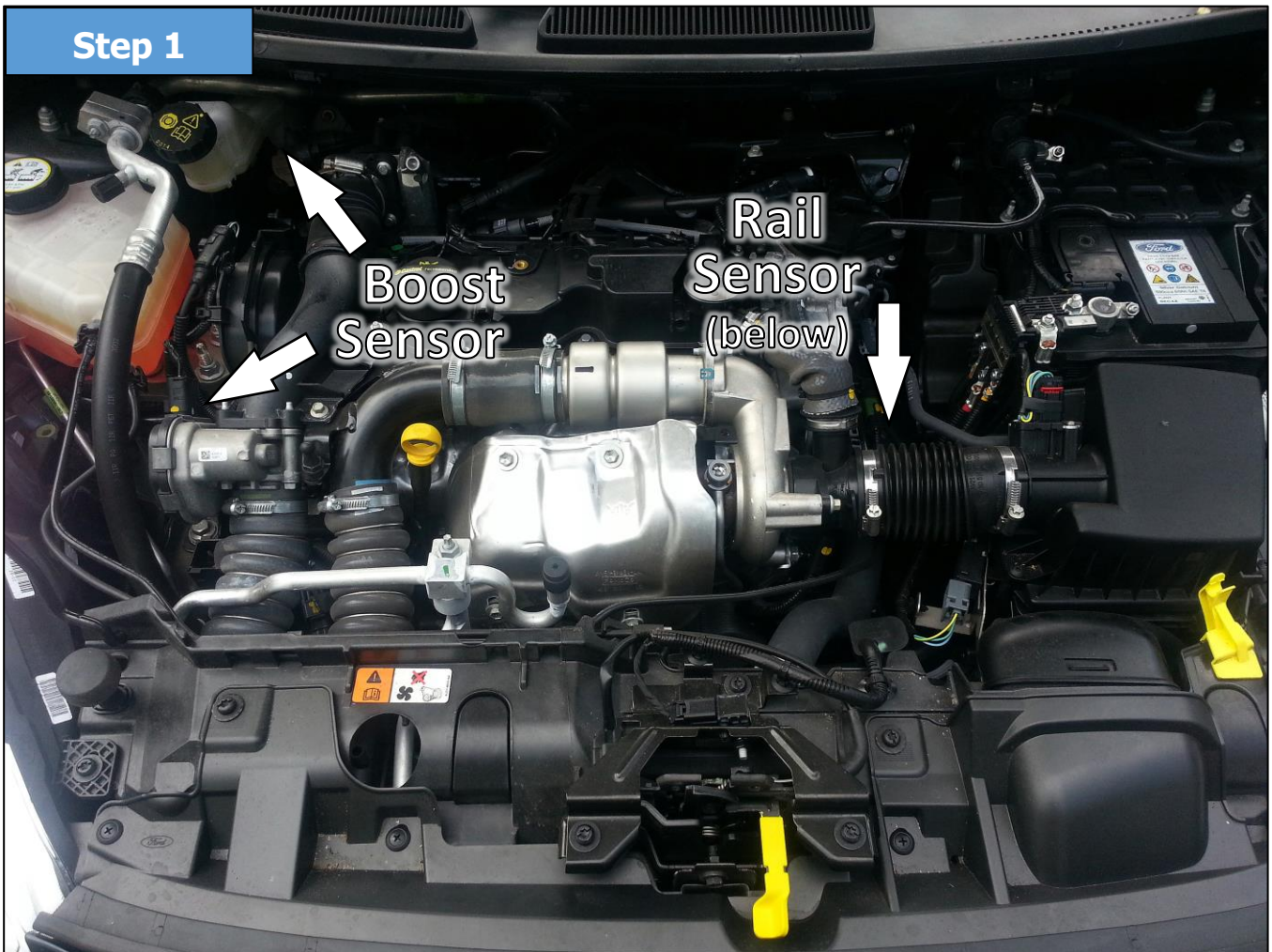
- Ensure that your engine looks similar to the supplied photographs (minor changes with ancillary components and engine covers are to be expected, however if the engine looks nothing alike, please contact support).
- Familiarise yourself with the locations of the connectors highlighted.
- Make sure that you have a good grasp of the operation of the connector clips and or locking tabs. - If the connectors you are trying to access are in an awkward place, it may be useful to try unplugging (and then re-inserting) a connector on the vehicle which is more easily accessible. Alternatively try plugging together the connectors on the Tuning Module itself.

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## Step 1



- Remove the plastic engine cover. This usually pulls off with a firm tug. On certain models the cover is secured with bolts. If this is the case, remove the bolts and lift off the engine cover.
- You should be left with an engine that looks similar to the photo above. The position of the airbox and battery may vary depending on the particular vehicle layout.

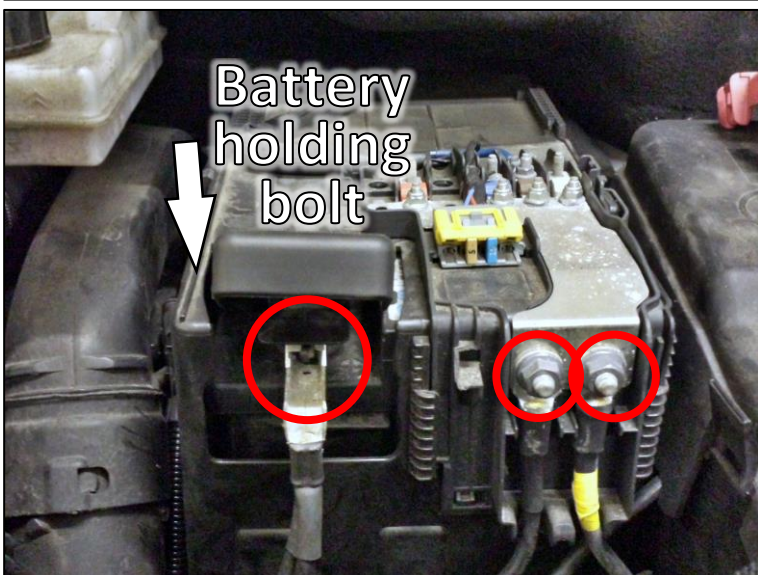
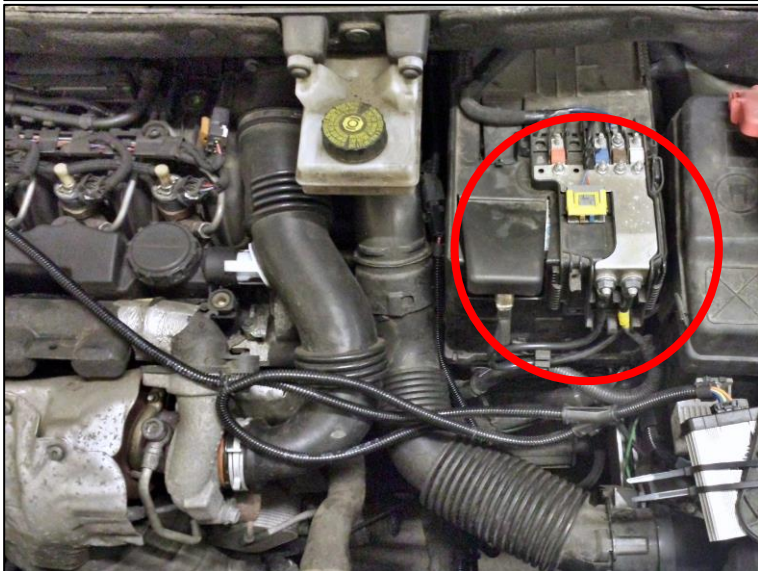
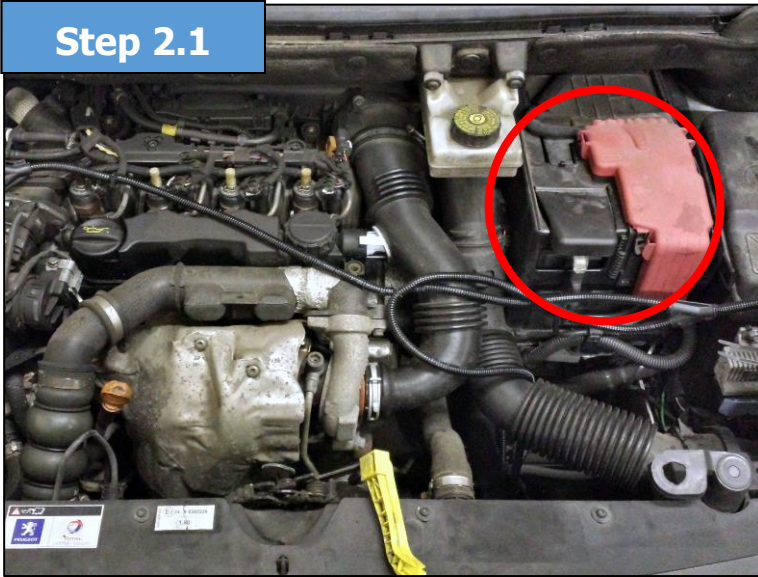


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## Step 2.1



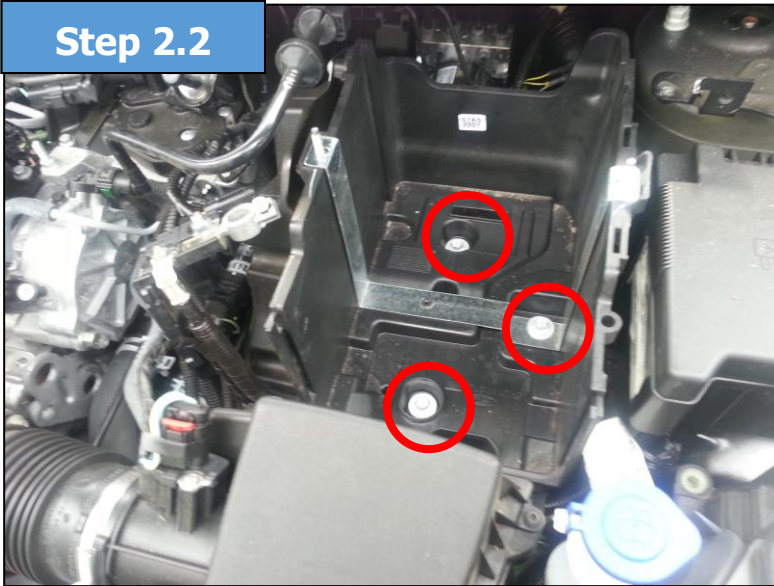
- Remove the cover of the battery fuse module (circled in red – left).
- Undo the nuts that hold the fuse module and remove it. The fuse module slides upwards in order to be removed.
- Undo the positive and negative connectors of the battery and remove them. (starting with the negative first)
- Undo the battery holder and remove the battery. This usually requires a size 10 socket.

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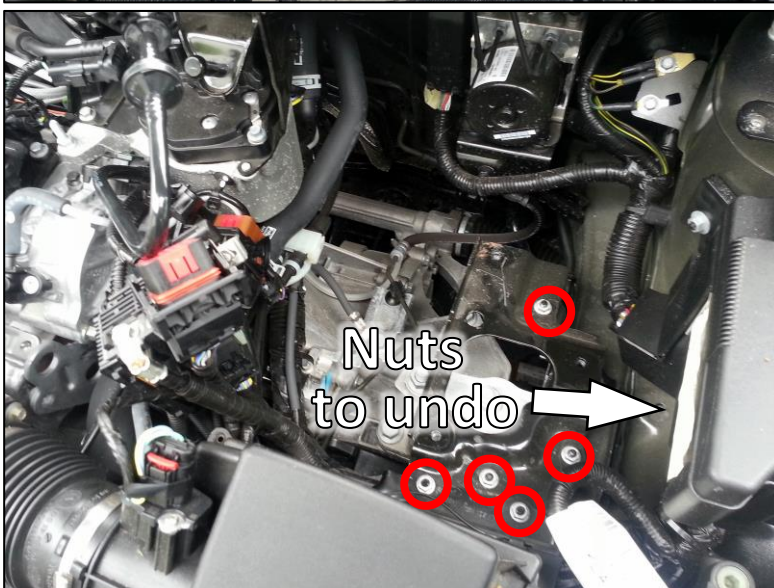
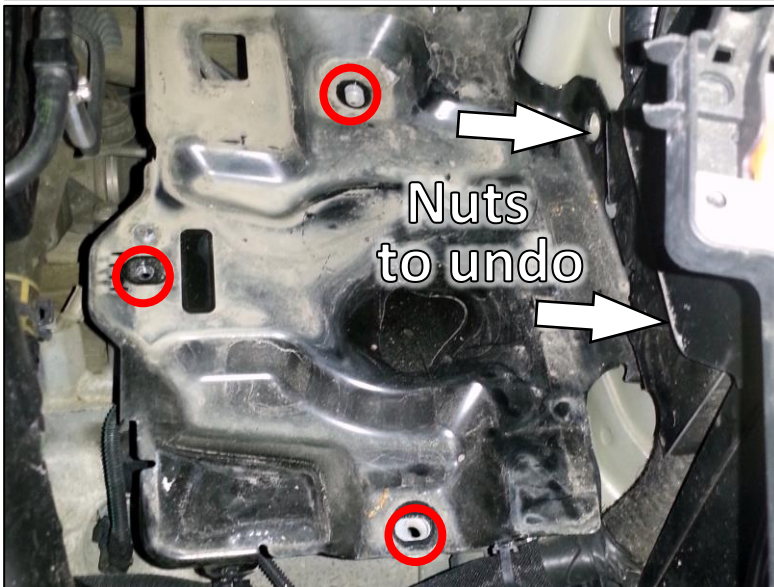


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## Step 2.2



- Undo the nuts holding the plastic part of the battery tray and remove the it.
- Undo all the visible bolts holding the steel part of the battery tray. There are several bolt configurations with one thing in common. There is almost always a bolt inside the wheel arch.



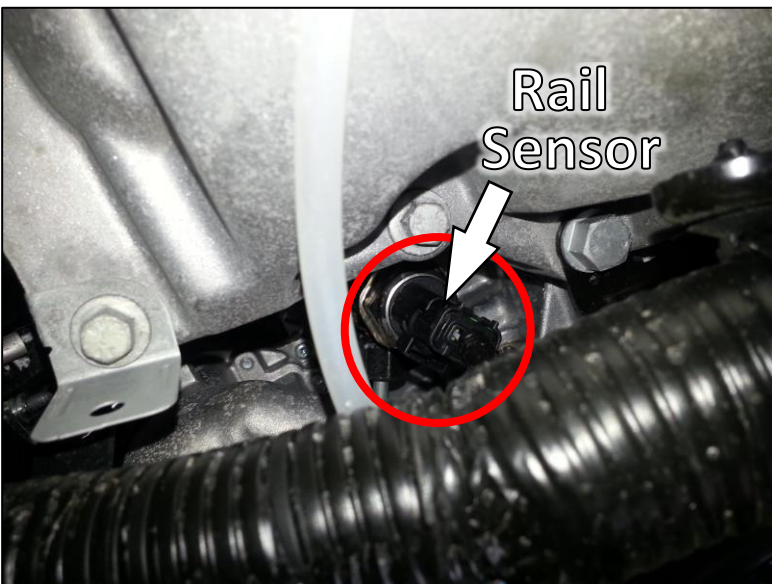
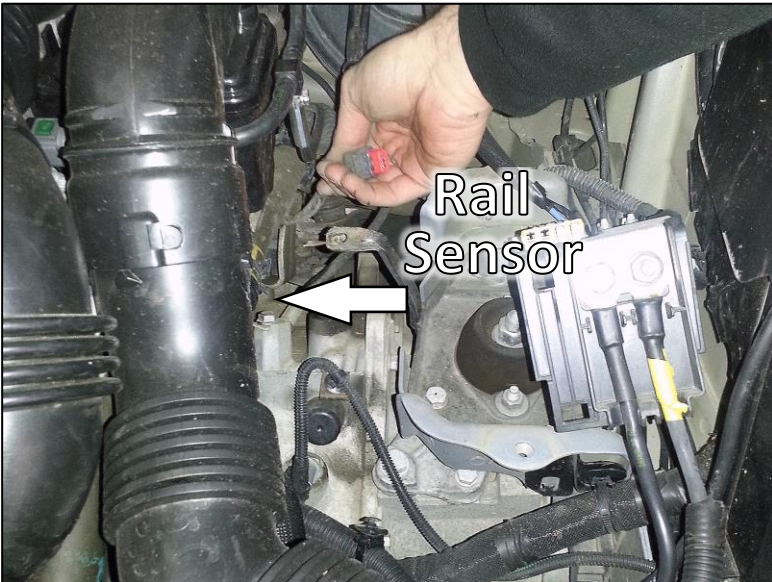


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## Step 2.3



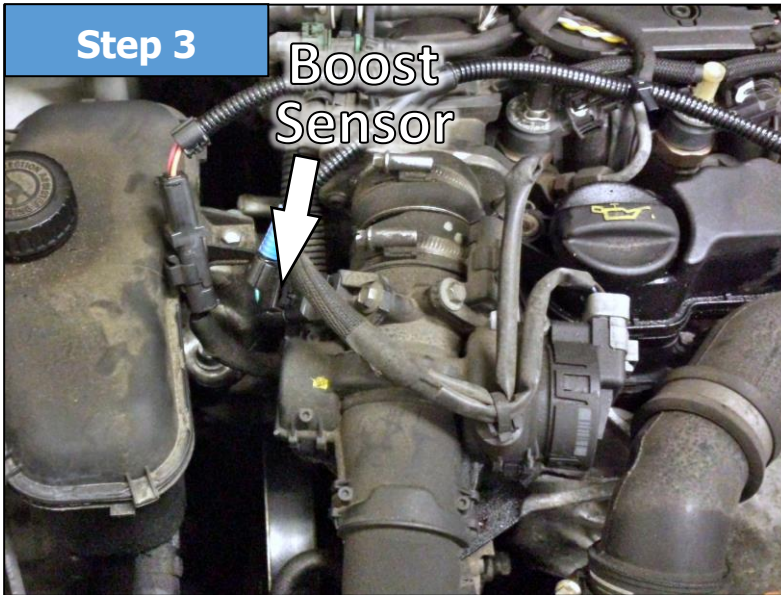
- The final bolt holding the battery holder is hidden below the cover inside the wheel arch.
  - Jack the car on the side closest to the battery.
  - Remove the wheel.
  - Remove enough of the plastic caps holding the wheel arch liner and peel it back to unveil the needed bolt.
  - Undo the bolt.
- Remove the metal part of the battery tray.
- The Rail sensor should become accessible on the side of the engine where the battery tray was. It is often hidden behind conduit and wiring which makes it awkward to find even with the tray removed.
- Unplug the Rail Sensor connector (3 pin) by pulling up on the releasing clip and pulling back on the connector. If the clip is awkward to access with your finger, a loop made with a cable tie can be slipped over the releasing clip. Pulling back on this loop can unclip the connector more easily.
- Insert the connector from the Tuning Module's wiring loom onto the Rail Sensor.
- Insert the Vehicle's Rail Sensor connector into the corresponding connector on the Tuning Module's wiring loom.

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## Step 3



- There are two possible locations for the Boost Sensor. Find yours before you proceed.
- Unplug the Boost Sensor connector (3 or 4 pin) by pulling up on the releasing clip and pulling back on the connector.
- Insert the connector from the Tuning Module's wiring loom into the Boost Sensor.
- Insert the Vehicle's Boost Sensor connector into the corresponding connector on the Tuning Module's wiring loom.
- Carefully re-install the metal and plastic battery trays, the battery holding bolt, the battery (connect the positive first), the fuse box and all engine covers that have been removed during the installation process.

- With the unit successfully installed please secure the unit and wiring loom within the engine bay, paying attention to the guidelines highlighted on Page 1.



**Route the tuning box wiring harness away from sources of heat (exhaust manifolds, EGR pipes, most stainless steel pipes) and also away from any rotating parts such as belts.**

- Double check all connections are correct and firmly connected. If this is the case, start the vehicle and ensure there are no engine warning lights or error messages displayed.

If everything is as it should be, please feel free to take the vehicle out for a test drive and enjoy the added responsiveness and power added to your vehicle by the Tuning Module.