



## M142 PORSCHE 991.1 2014 KIT INSTALL INSTRUCTIONS



This procedure details installation of this kit into a 911 Turbo.

*These steps should be performed by personnel familiar with Porsche mechanical procedures.*



### Kit Components

1. M142 ECU MARINE
2. M142 PORSCHE 991/1 2014 ADAPTOR BOX
3. M142 PORSCHE 991/1 MOUNTING KIT
4. M1 ADAPTOR 250MM 26W KEY 1 STUB LOOM (loom D)
5. M1 ADAPTOR 250MM 26W KEY 3 STUB LOOM (loom B)
6. M1 ADAPTOR 250MM 34W KEY 1 STUB LOOM (loom C)
7. M1 ADAPTOR 250MM 34W KEY 2 STUB LOOM (loom A)
8. PORSCHE 991/1 2014 BREAKOUT LOOM
9. LTCDS - DUAL LSU LAMBDA TO CAN
10. Miscellaneous screw hardware
11. LAMBDA SENSOR EXTENSION LOOM FOR LSU 0.6 METRES (not shown)



### Step 1:

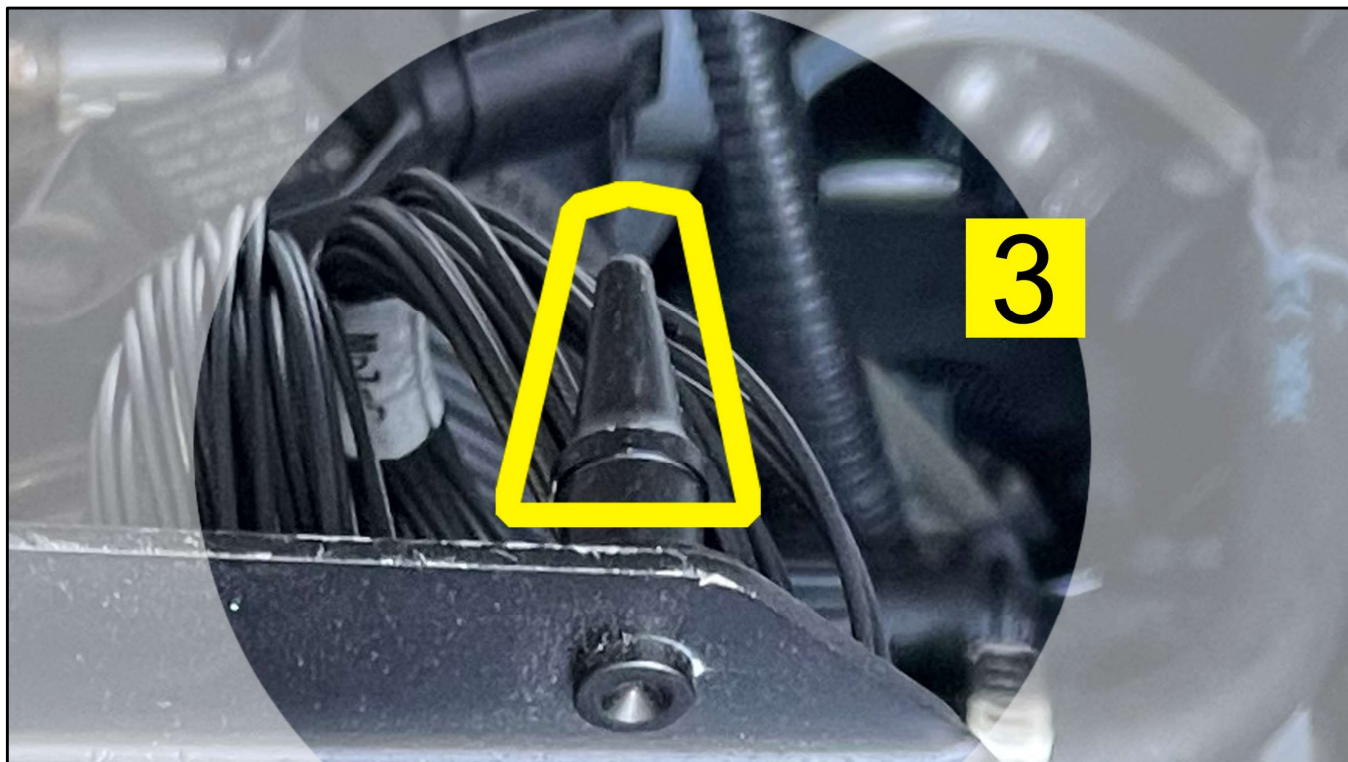
- With the key off and the vehicle parked in a suitable location in which to work, pop the bonnet to access the battery in the front luggage compartment.
- Remove the negative battery post by loosening the clamp with a 10 mm socket and secure it from making contact with the battery.
- Lower the bonnet lid but do not full latch it as it has an electric release and will not open easily if latched fully with no power.

*The vehicle cannot be moved without electrical power as the transmission is electronically shifted.*

### Step 2:

Locate the OE ECU as follows:

- Open the rear engine bay and remove 4 fasteners securing the intake grate and 2 fans. Remove assembly and unplug connector/s.
- Remove the spoiler from the spoiler legs. Remove 8 fasteners and unplug the 2 spoiler frame assembly connectors.
- Remove the spoiler frame assembly to reveal the ECU mounting position on the right bulkhead.



### Step 3:

- Unplug two harness connectors from the OE ECU.
- Remove two fixings from the mounting plate and remove the ECU/mounting plate assembly.
- Remove two rubber grommets from the mounting plate and fix to the pins on the MoTeC Mounting Plate (3).
- Affix the Adaptor Box to the MoTeC Mounting Plate using 5 supplied M4 x 10 mm socket screws and M4 x 9 mm flat washers.
- Assemble the M142 ECU to the Adaptor Box using 4 supplied M5 x 20 mm low profile cap sockets.

### Step 4:

- Connect the Adaptor Stub Looms to the associated Adaptor Box connectors.
- When connecting Adaptor Stub Loom D, do not connect the Ethernet comms cable end to the Adaptor Box. Adaptor Stub Looms A, B and C can be connected at either end.*
- Connect the Adaptor Stub Looms to the associated M142 connectors.
  - Plug the Breakout Loom in to the socket position on the side of the Adaptor Box.

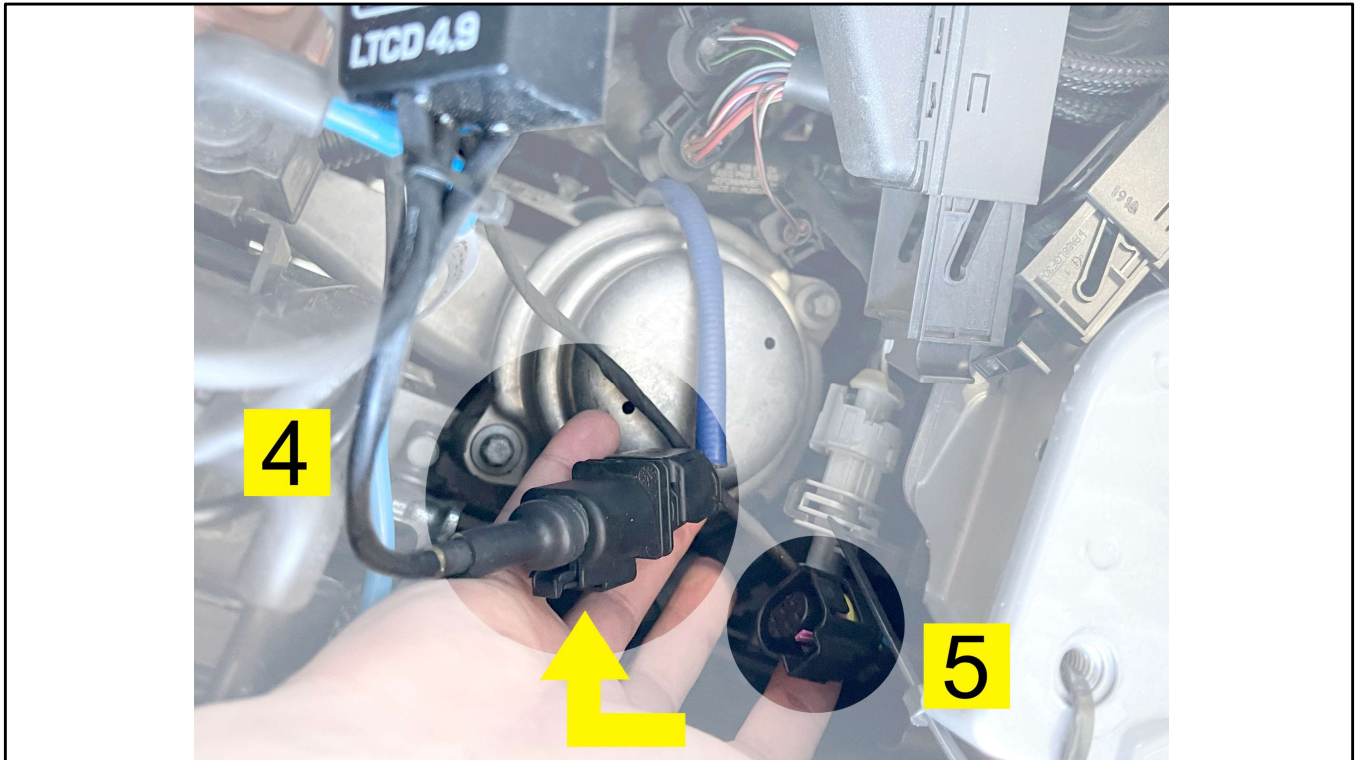


**Step 5:**

- Refit the complete ECU / Adaptor Box / Mounting Plate assembly (1) to the vehicle and secure using the two fasteners.

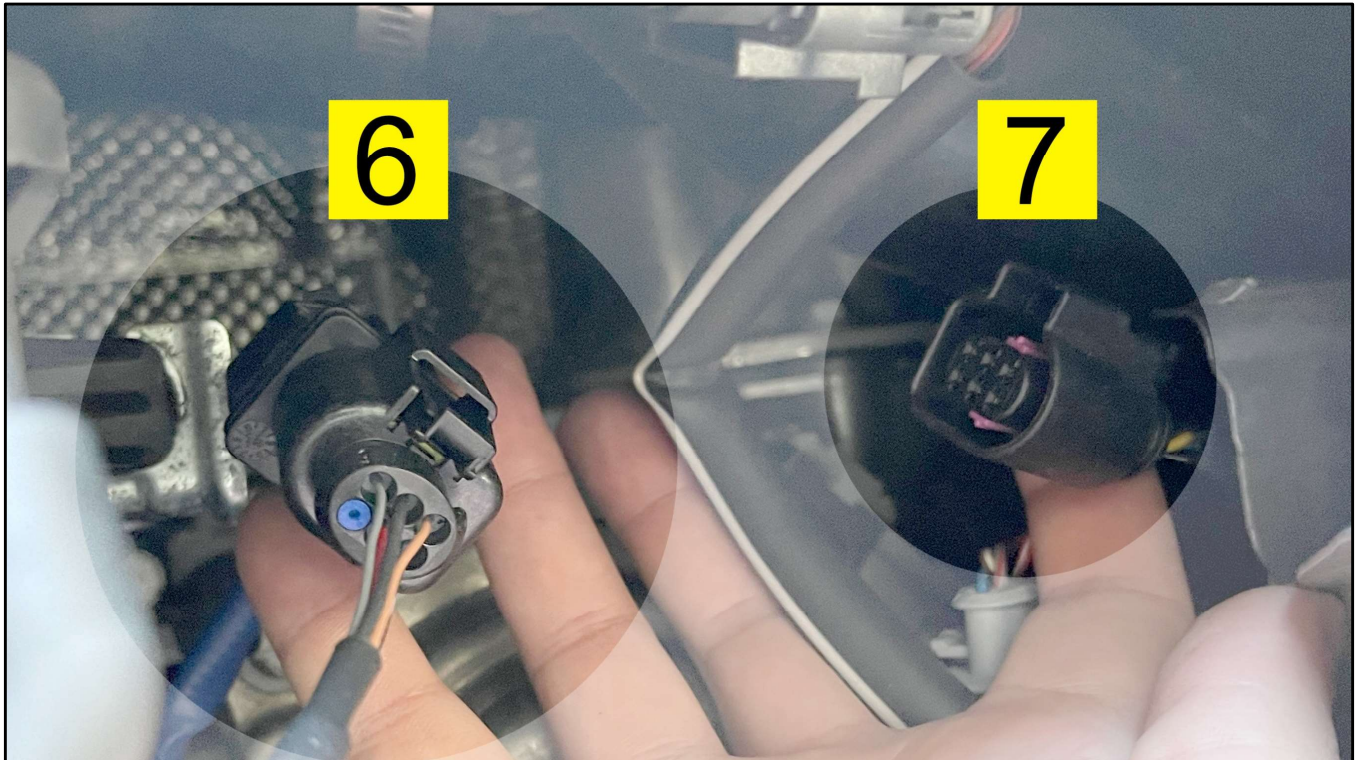
**Step 6:**

- Reconnect the OE harness connectors to the Adaptor Box (2).

**MoTeC****Step 7:**

- Plug the LTCD device into the designated connector on the breakout loom.
- Disconnect the OE Lambda sensor (5) for cylinder 1-3 bank from the vehicle harness and plug into the LTCD 'A' channel connector (4).



**MoTeC**

- Disconnect the OE Lambda sensor (7) for cylinder 4-6 bank from the vehicle harness and plug into the supplied LSU4.9 extender cable (6).
- Plug the other end of the Extender cable into the LTCD 'B' channel connector.
- Secure the Ethernet socket in a position which is accessible after the spoiler assembly and fan / intake grate have been reinstalled.

**Step 9:**

- Re-install the spoiler frame assembly.
- Re-connect two connectors to spoiler frame assembly.
- Re-install the spoiler.
- Connect and re-install the intake grate and fans assembly.

**Step 10:**

- Re-connect the vehicle battery in reverse order to Step 1.