



HONDA CIVIC KIT 11418 INSTALL INSTRUCTIONS



These install instructions cover:

- Honda Civic FL5 2023
- Honda Civic FK8 2017



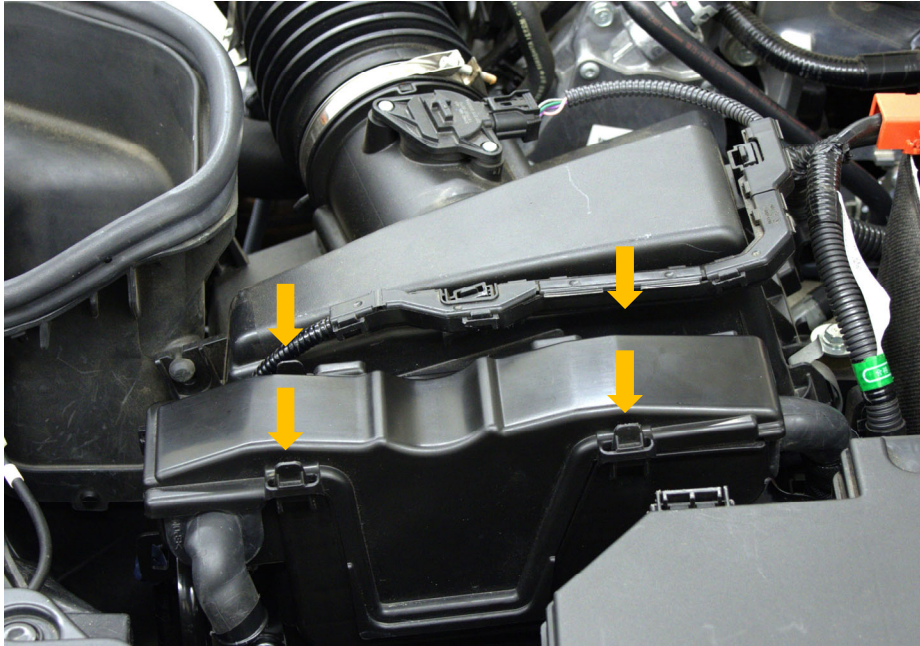
Kit Components:

1. MoTeC M142 ECU
2. Adaptor Box
3. Adaptor LTC Loom
4. LTC 4.9
5. Stub Loom **A** 61407 250mm
6. Stub Loom **C** 61406 250mm
7. Stub Loom **B** 61405 250mm
8. Stub Loom **D** 61404 (Ethernet Cable) 250mm
9. 4 x cable ties
10. 3 x M5 x 20mm low profile cap screw
11. 3 x M5 flat washers

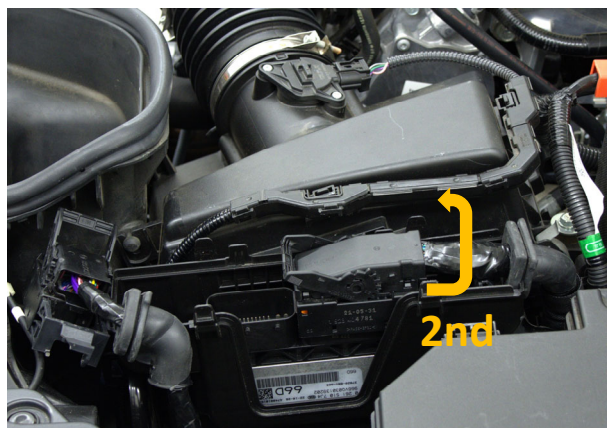
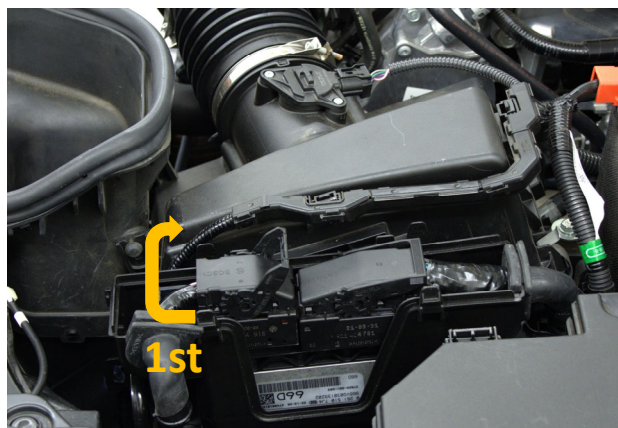


Tools required to install the kit:

- Ratchet
- Long Extension
- 10mm Socket
- 3mm Allen Key
- Cable Ties
- Flush Cutters
- Pointy nose pliers

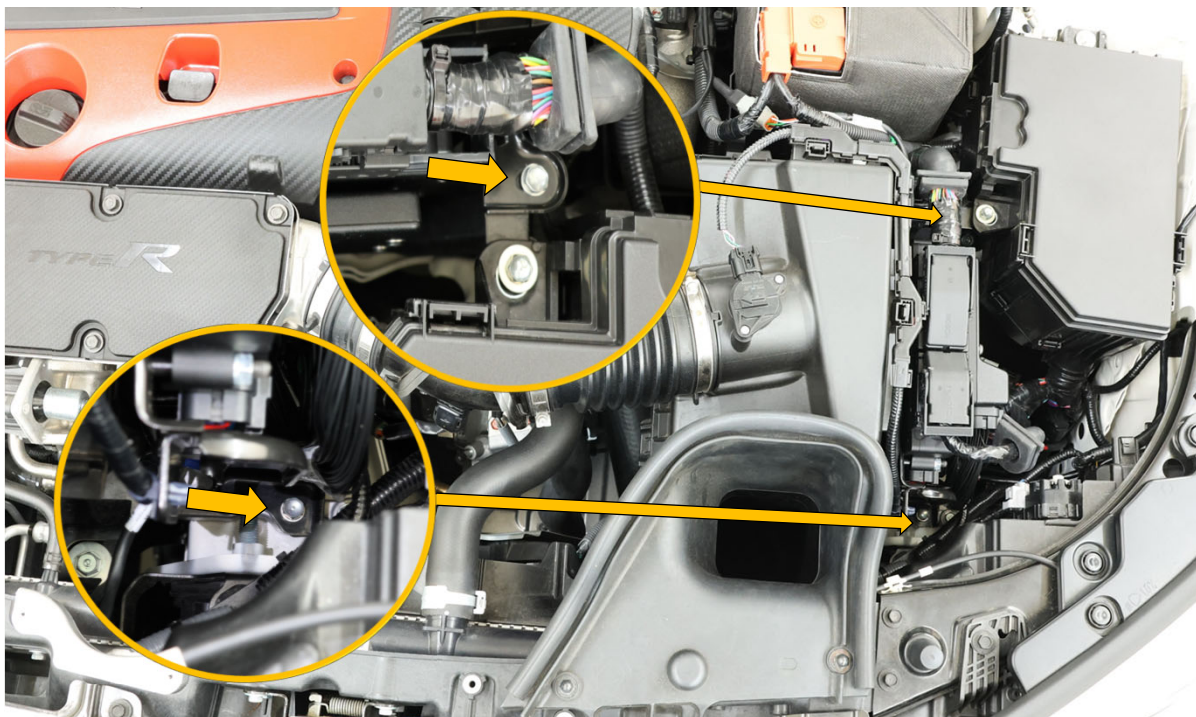
**STEP 1:**

1. Disconnect the Negative battery terminal.
2. The OE ECU is located beside the air box. Unclip and remove plastic cover.

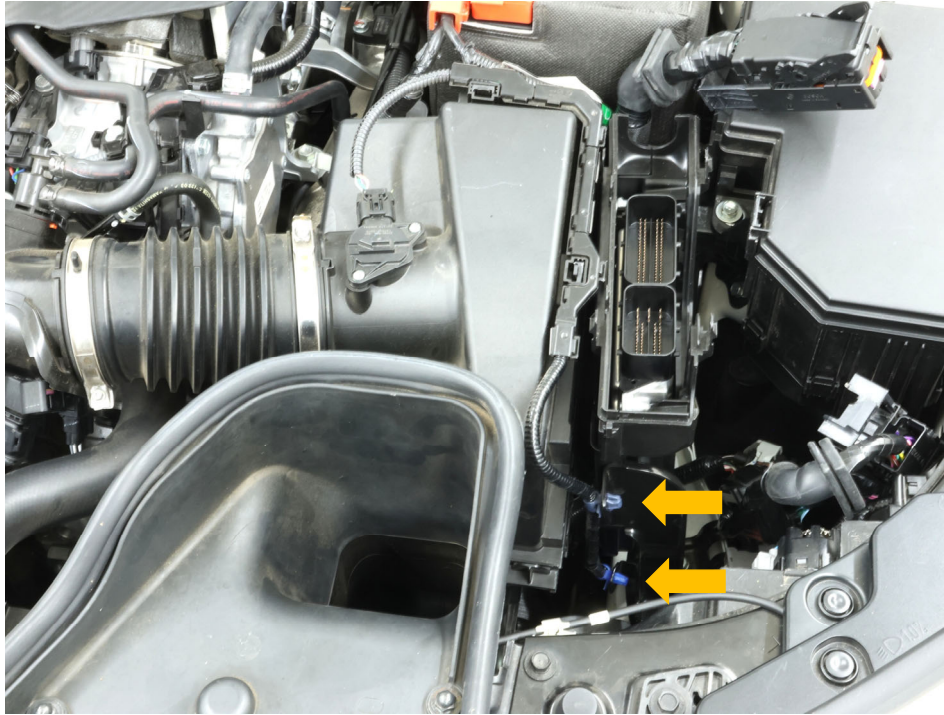
**STEP 2:**

Lift the 1st lever from horizontal to vertical then remove the connector from the OE ECU.

Repeat for the 2nd connector.

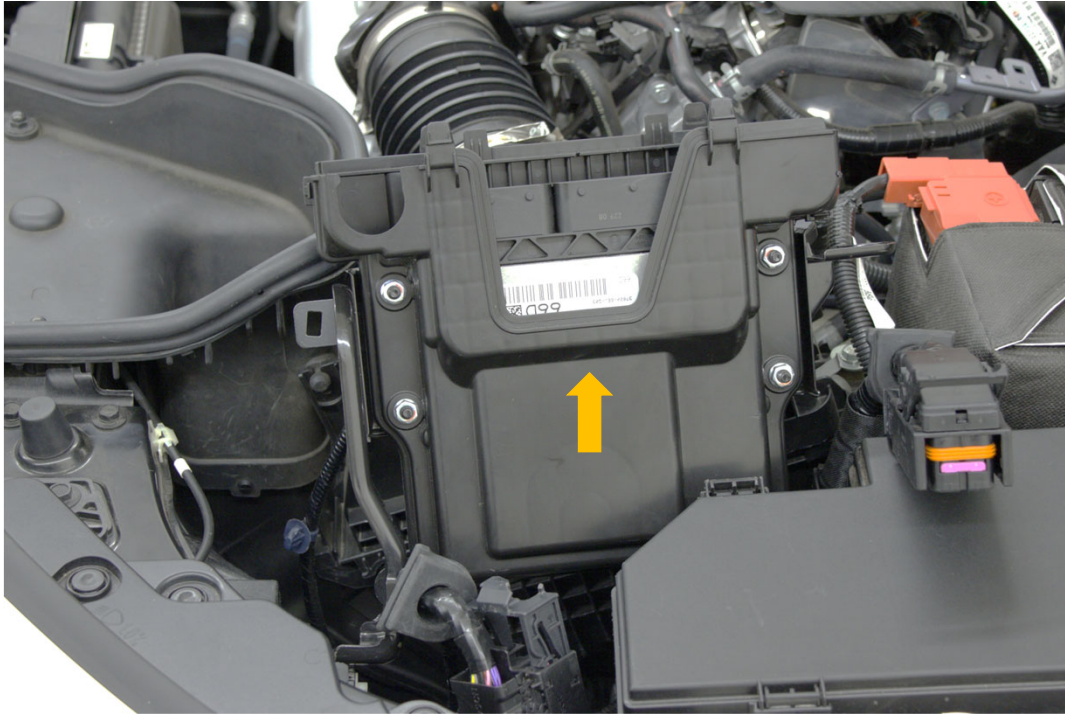
**STEP 3:**

Using the ratchet, extension and 10mm socket remove the two bolts that secure the OE ECU bracket to the chassis.

**STEP 4:**

Remover upper and lower wiring mounts.

By squeezing the barbs with pliers

**STEP 5:**

Remove the OE ECU and housing assembly.

**FK8**

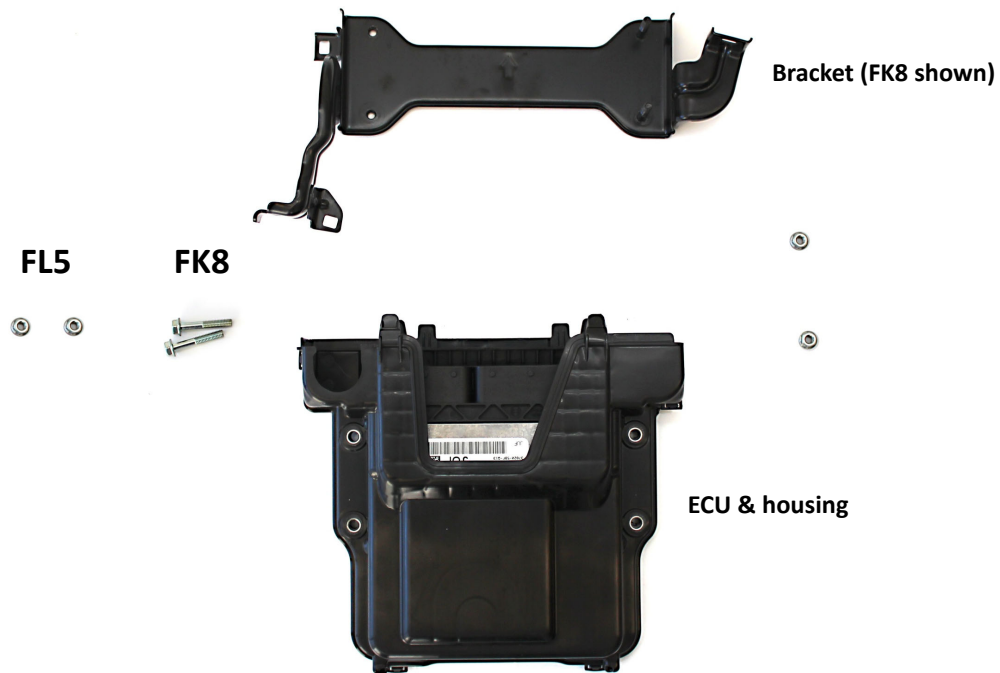
2 x bolts and 2 x nuts

**FL5**

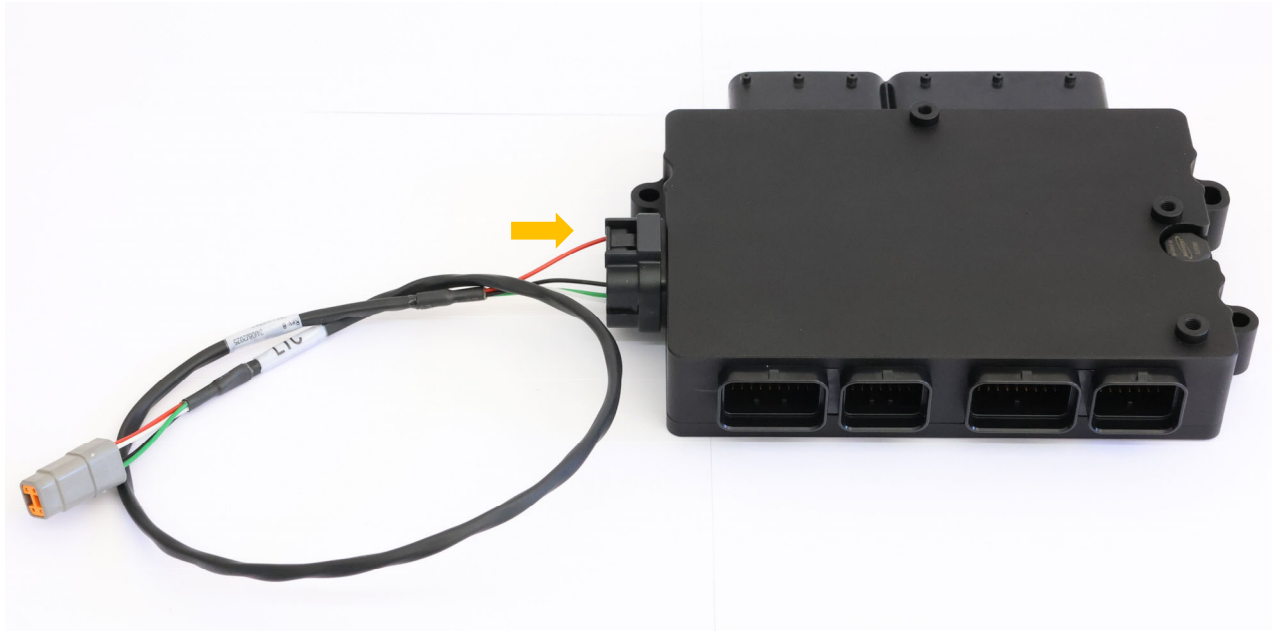
4 x nuts

**STEP 6:**

Remove the fasteners that fix the OE ECU and housing to the ECU bracket.

**STEP 7:**

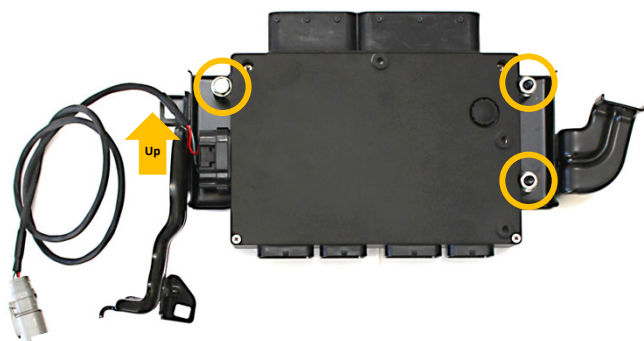
Separate the OE ECU and housing from the bracket.

**STEP 8:**

Connect the Adaptor LTC loom to the Adaptor box breakout connector.



FK8



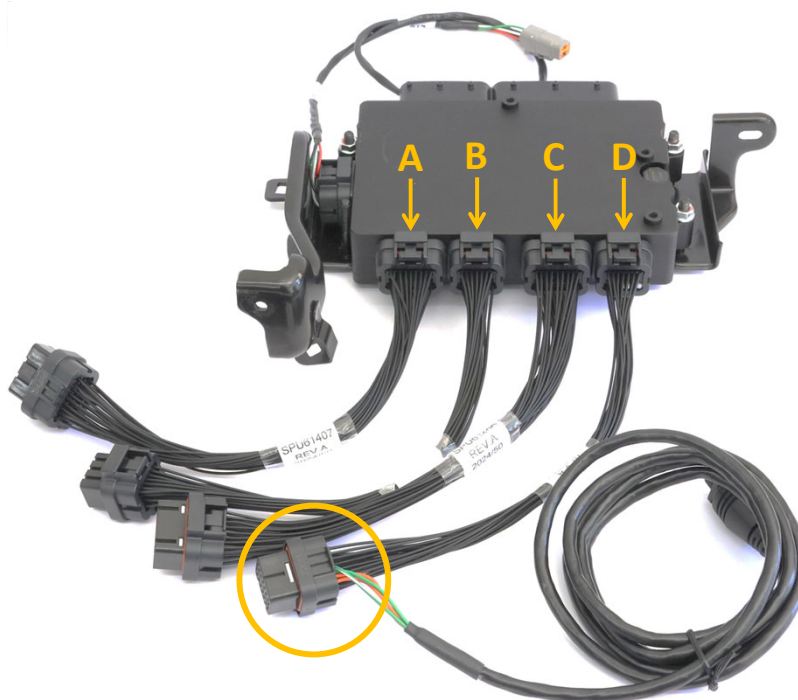
FL5

**STEP 9:**

1. Place the Adaptor Box on the OE ECU Bracket.

Note: Ensure the Adaptor LTC loom is pointing upwards when installed.

- FK8 fasten using one bolt and two nuts that were removed in Step 6.
- FL5 fasten using three nuts that were removed in Step 6.

MoTeC**STEP 10:**

Connect the adaptor stub looms to the associated adaptor box connectors.

- A = 61407 stub loom
- B = 61405 stub loom
- C = 61406 stub loom
- D = 61404 stub loom with ethernet

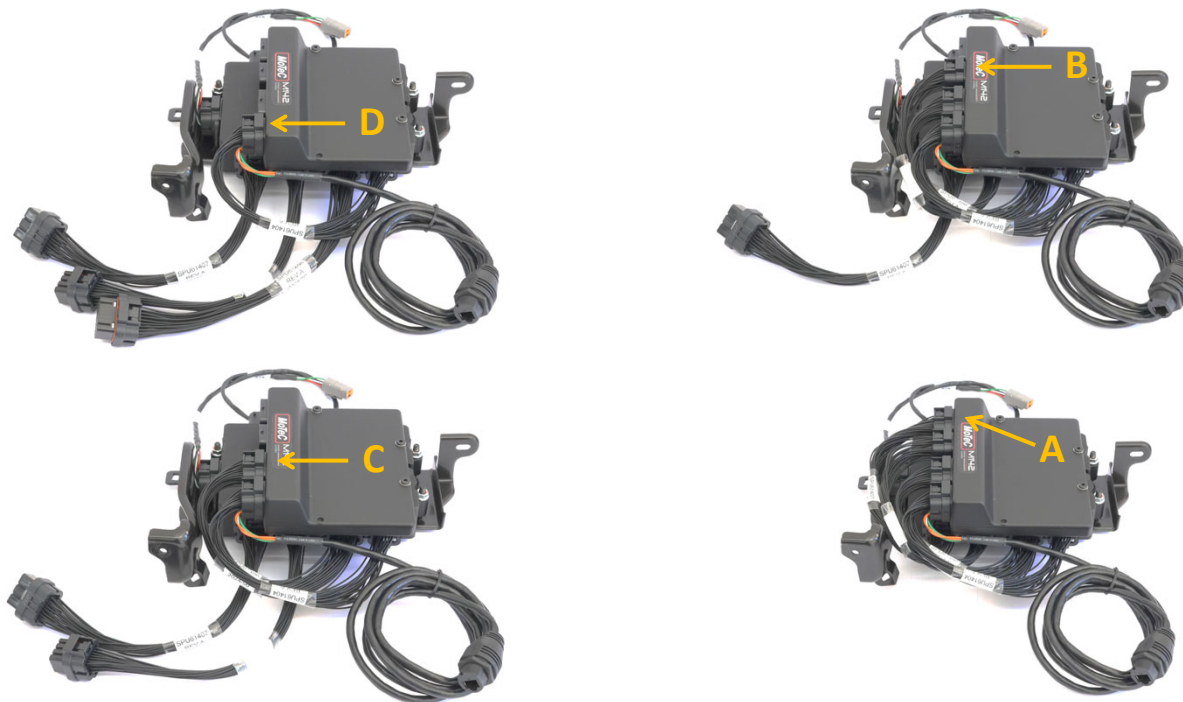
Note:

- When connecting Adaptor Stub Loom **D**, the Ethernet comms cable end (circled) must only be connected to the M142 ECU.
- Adaptor Stub Looms **A**, **B** and **C** can be connected at either end.

**STEP 11:**

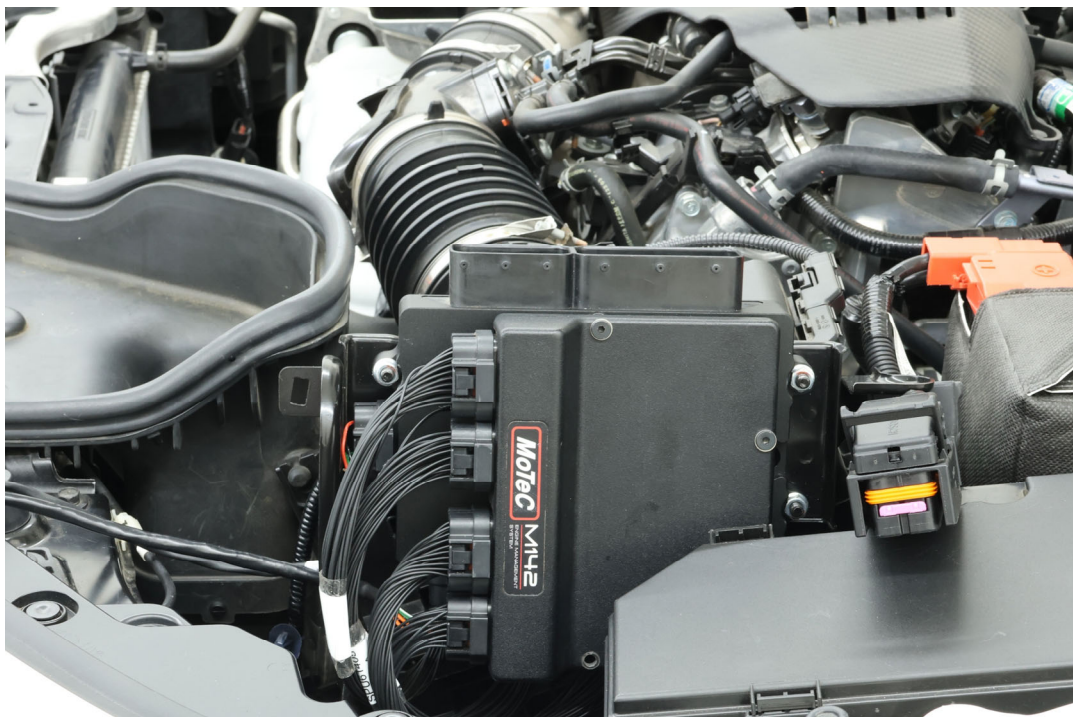
1. Place the MoTeC M142 ECU on top of the adaptor box as shown.
2. Fix the ECU in place with the 3 x cap screws and washers provided.

Note: Tension cap screws to **5 Nm**.

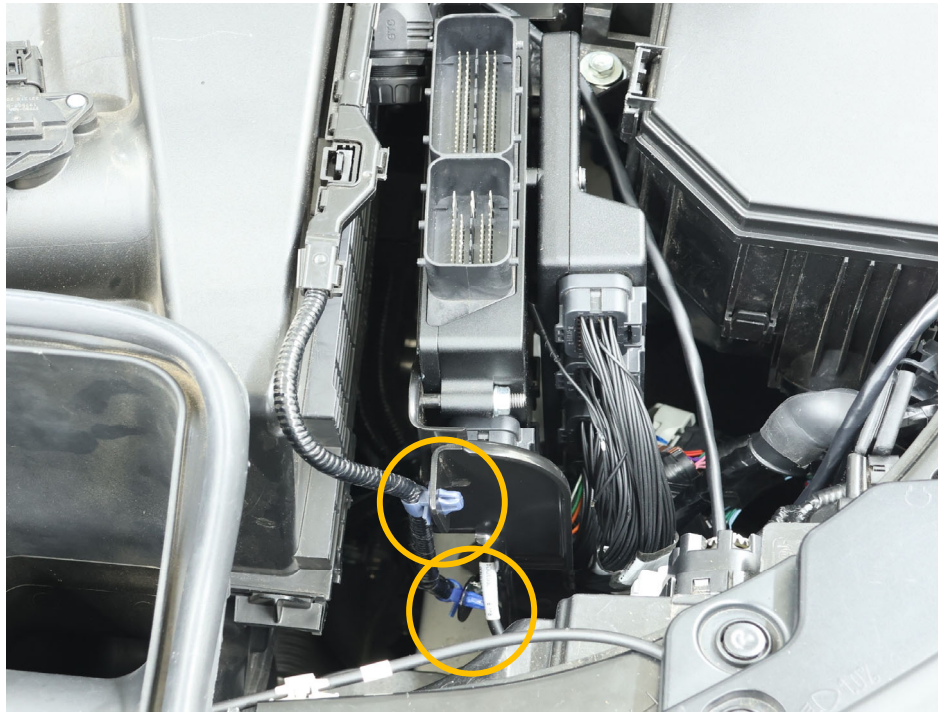
**STEP 12:**

Connect the adaptor stub looms to the associated M142 ECU connectors.

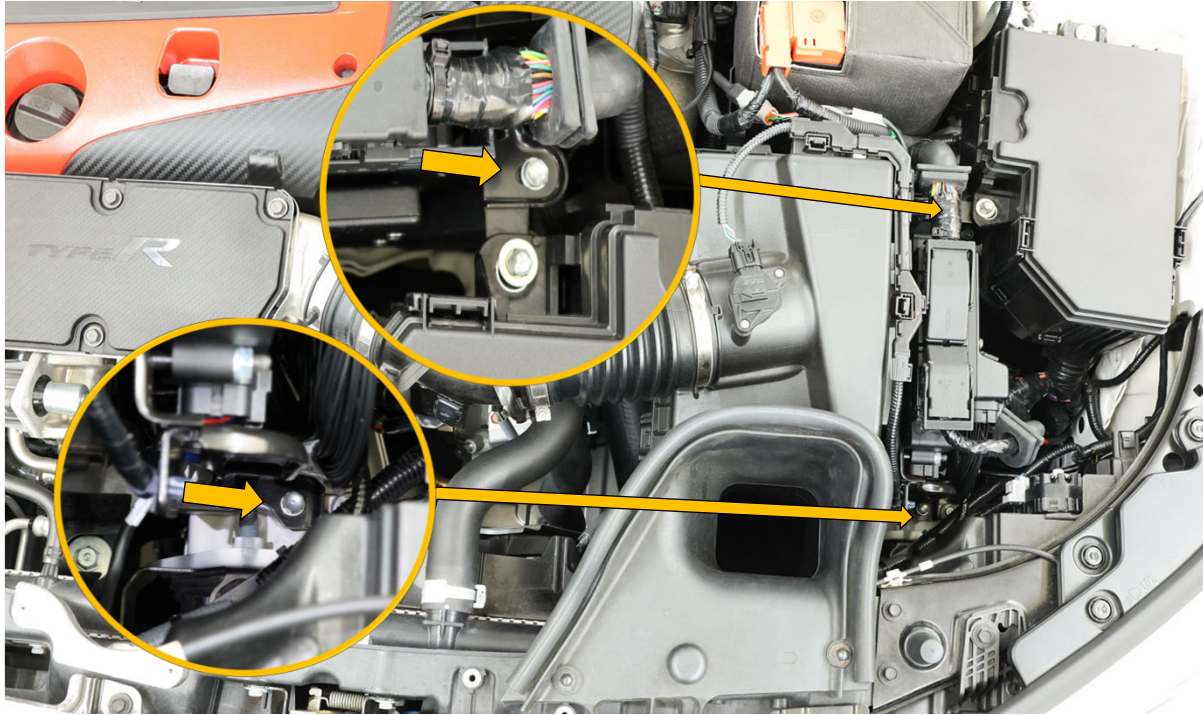
Note: Ensure stub loom D = 61404 stub loom with ethernet is connected to the M142 as shown.

**STEP 13:**

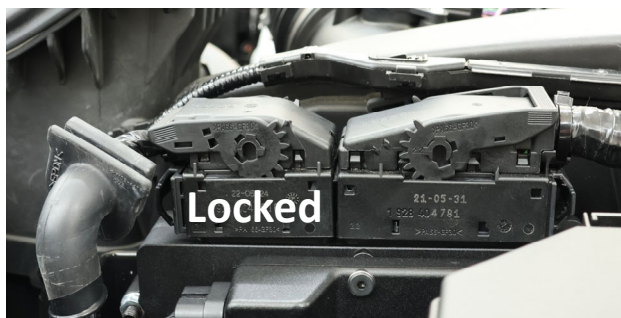
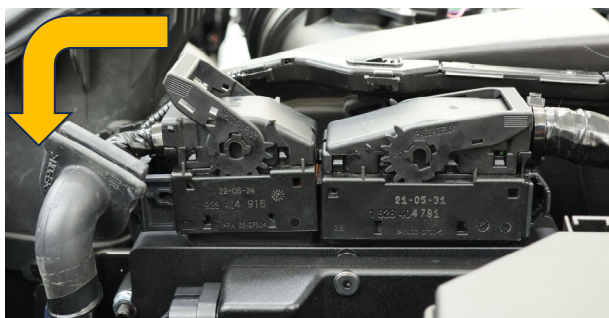
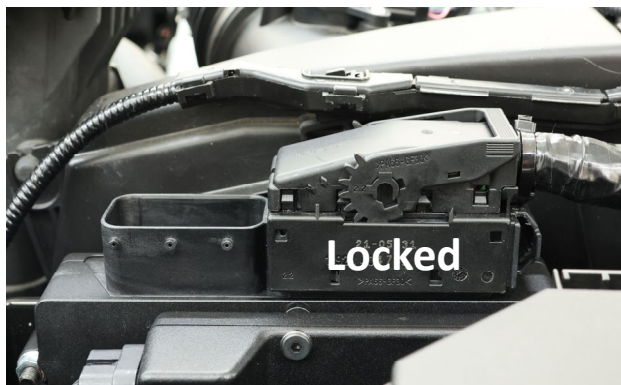
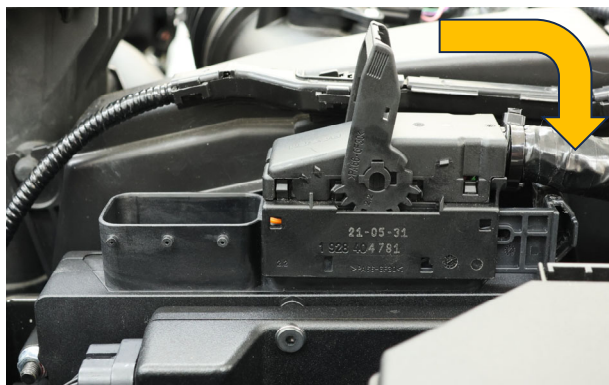
Orientate the assembled MoTeC ECU kit as shown and place back into the cavity from which the OE ECU was removed.

**STEP 14:**

Reattach 2 x wiring mounts.

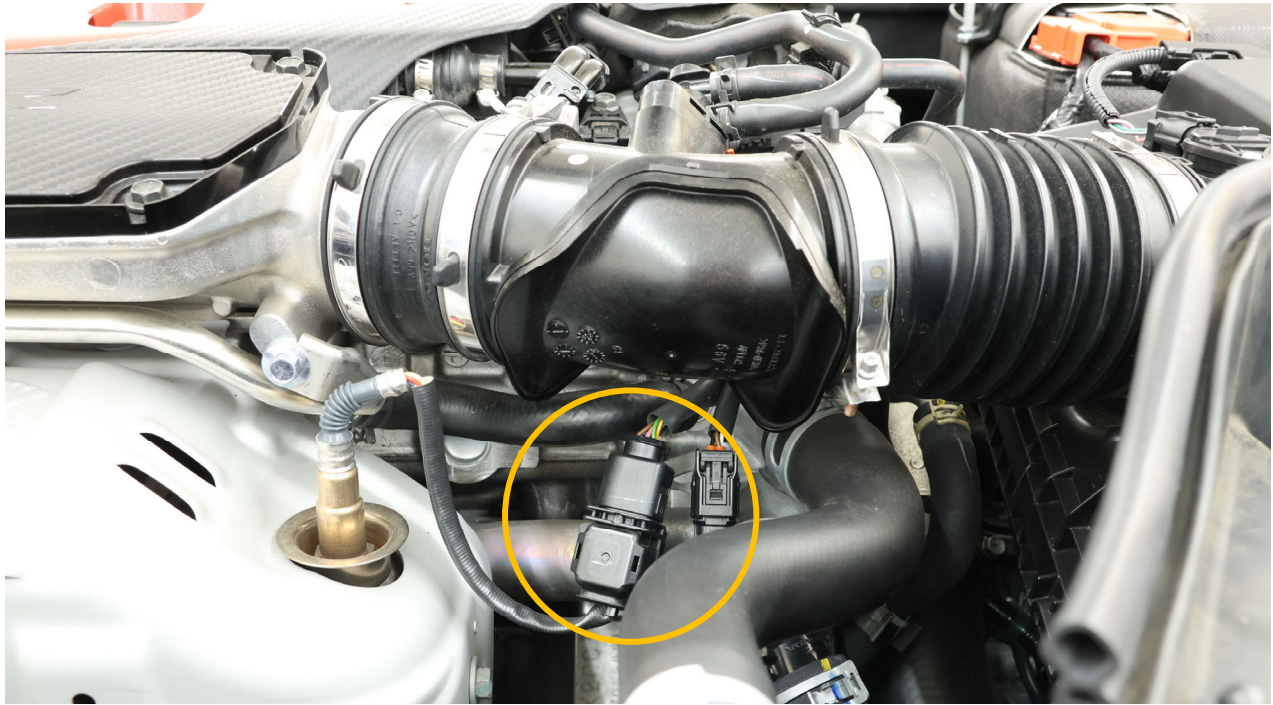
**STEP 15:**

Reinstall the bolts that were removed in Step 3.

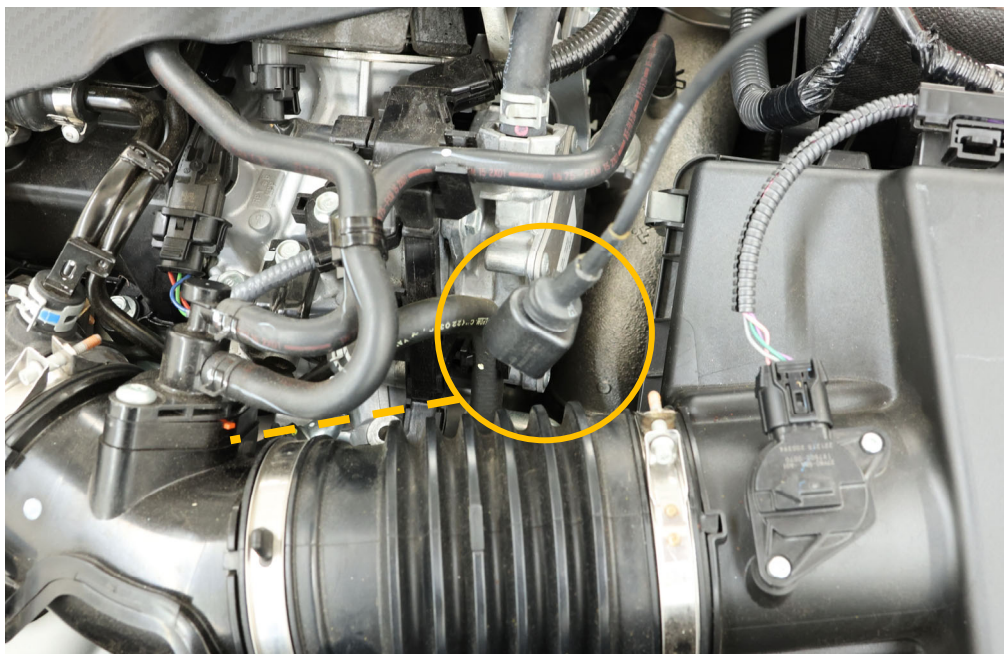
MoTeC**STEP 16:**

Connect the Honda engine harness to the mating adaptor box connectors

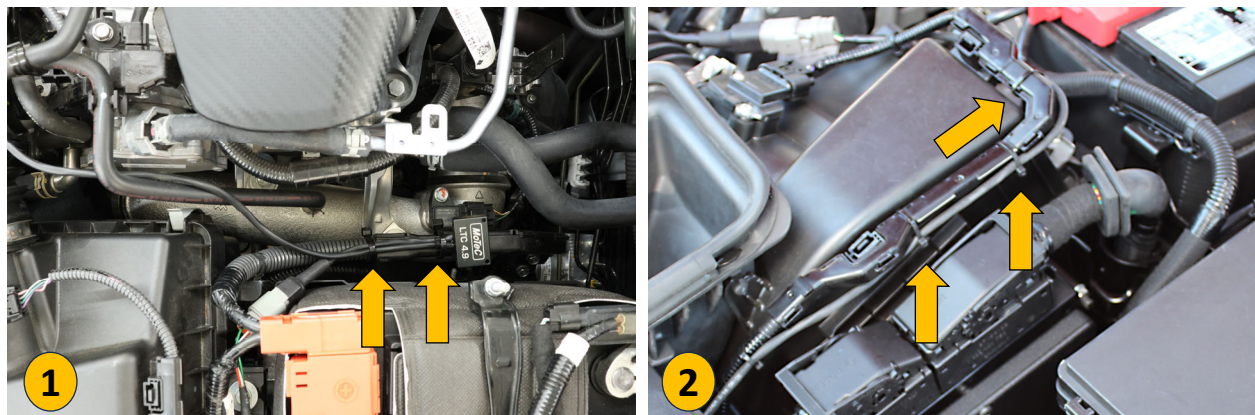
- Position the connector to the adaptor box
- Carefully engage the mechanism
- Move the lever to the locked position.

**STEP 17:**

Disconnect the Honda lambda sensor connector from the Honda engine harness.

**STEP 18:**

Feed the MoTeC LTC lambda sensor connector underneath the intake pipe and connect to the Honda Lambda Sensor.

**STEP 19:**

1. Use cable ties to hold the LTC in position down beside the battery.
2. Tie the LTC loom around the outside of the airbox as shown.

**STEP 20:**

1. Find an accessible position in the engine bay, tie the ethernet cable away from moving parts and heat sources.
2. Reconnect the Negative battery cable.

Your kit installation is complete.

NOTE:

- MoTeC has made every effort to ensure that the start file gives safe and reliable operation of the engine, it is the responsibility of the kit installer to ensure the engine tune is verified on the individual engine.