# MaxxECU Plugin - Engine Specifics
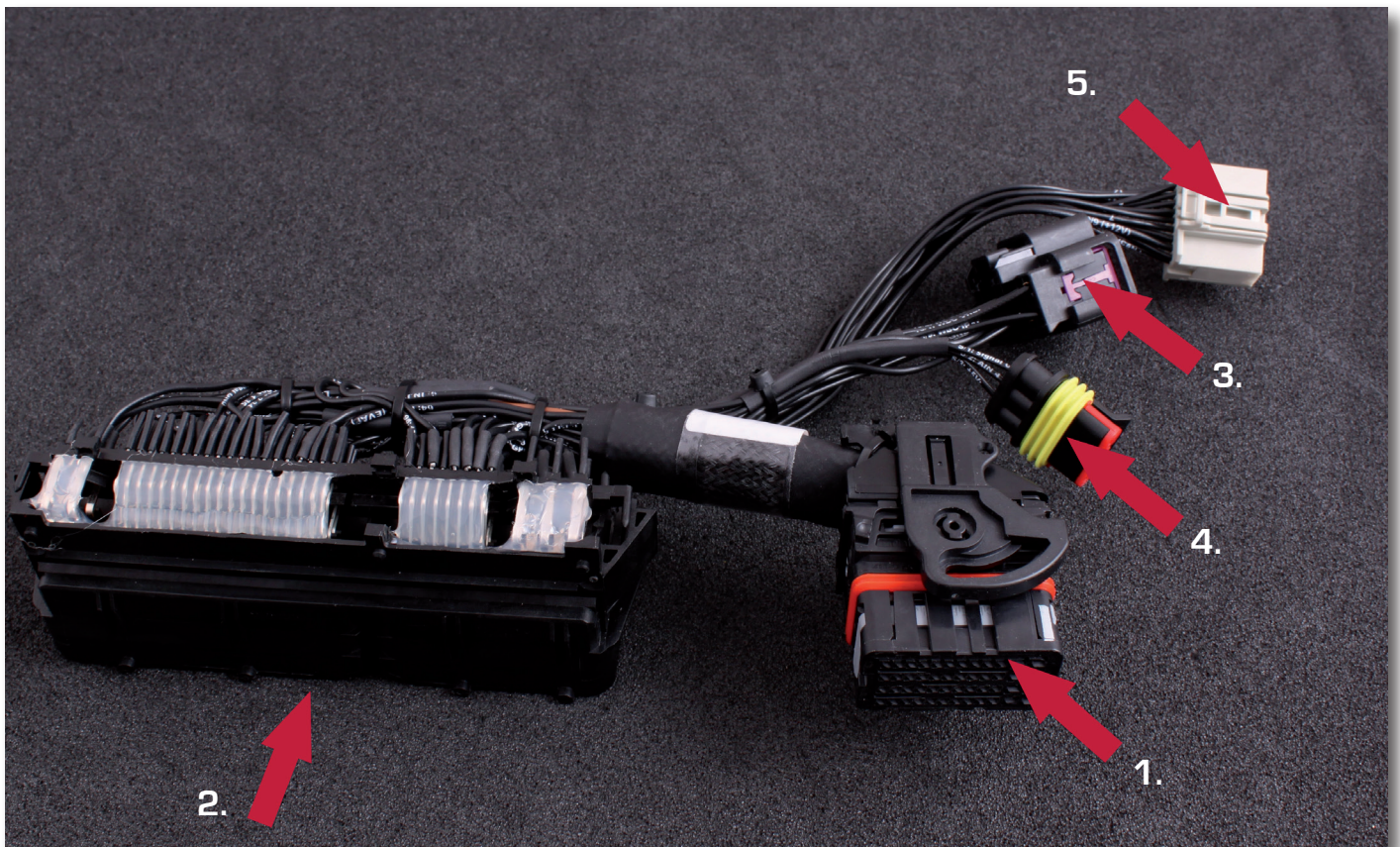# Audi S4 (AGB, ASJ)

2016-01-13



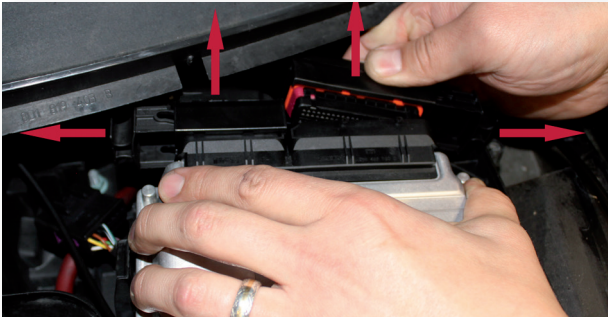Fig 1 - MaxxECU Audi AAN kit consist of the following parts:
1. MaxxECU CMC connector
2. Audi vehicle harness adapter.
3. 16-pin extra connector.
4. 3-pin connector for extra 0-5v sensor (ex. pressure sensor).
5. 20-pin connector for E-Throttle module.

# ECU installation

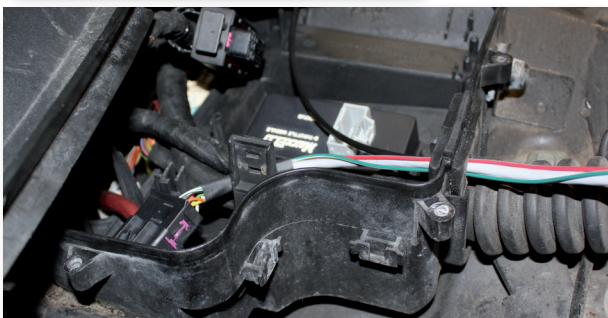Stock Engine Control Unit (ECU) on this vehicle is mounted in engine bay on the left side.



Step1: Remove all screws. Remove plastic cover.



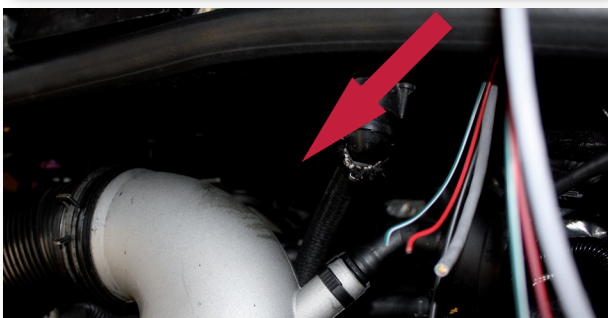Step2: Remove stock ECU connectors and gently pull out the ECU.



Step3: Add adhesive tape on E-Throttle module bottom and fasten as shown in the picture to the right.
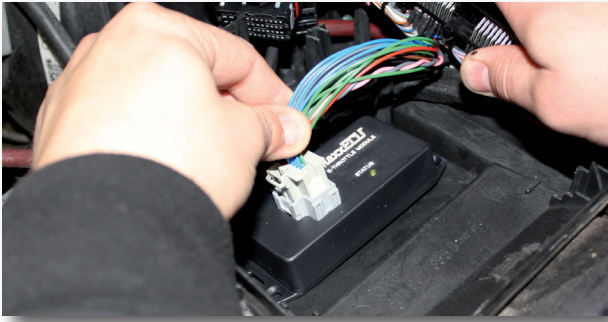


Step4: Use a small knife or similar to put a hole in the rubber and put through the MAP-sensor hose and the lambda cable.
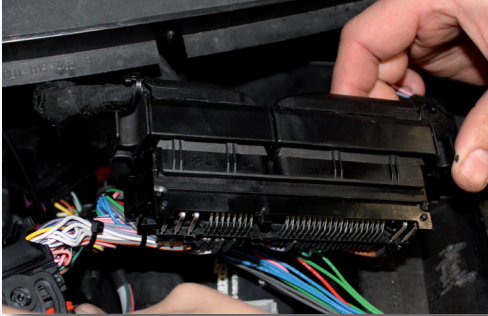   MaxxECU or module is not water protected, be sure to seal!



Step5: Disconnect and remove stock front lambda sensor and replace with the included Bosch LSU 4.2 sensor.
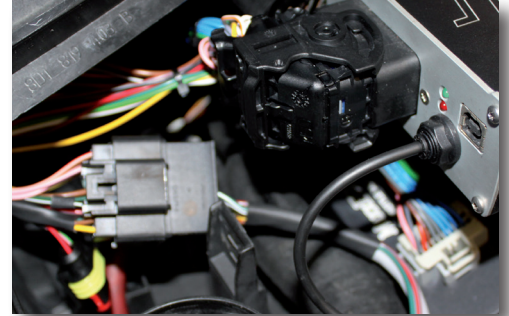See chapter 3.4 in Plugin General manual for electrical wiring.

**Step6:** Install 20-pin E-Throttle connector to module.

**Step7:** Connect Audi vehicle adapter harness (**2**) to vehicle ECU connectors. Connect 16-pin connector (**3**) with lambda cable. Install MAP-sensor hose and finally the MaxxECU CMC connector (**1**) to MaxxECU unit.

**Step8:** Cut away a few mm of the plastic "top" to make room for CMC connector! See next step for fitting!

**Step9:** Position the ECU, adapter and cables like this.

**Step10:** Position the plastic cover, make sure no cables are pinched. Tighten all screws. Make sure the cover is fully tightened.

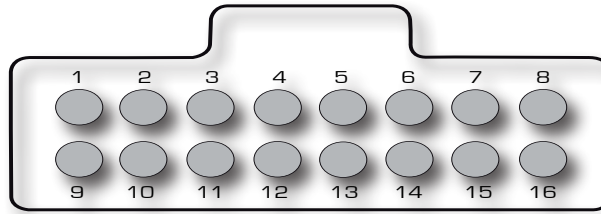MaxxECU or module is not water protected!

**16-pin connector**



Fig 2 - Extra connector (**3**) seen from cable side.

1: Wideband.
2: Wideband.
3: Wideband.
4: Wideband.
5: -
6: -
7: GPO 6 (output).
8: GPO 7 (in/output)

9: Wideband.
10: Wideband.
11: Wideband.
12: +12V (output).
13: GND.
14: -
15: DIN2 (input)
16: AIN 3 (0-5V) (input).

**Extra inputs.**
MaxxECU S4 2.7 Plugin has 4 extra inputs.
GPO7 (can be used as digital input), flexfuel sensor, switch.
DIN2, flexfuel sensor, switch.
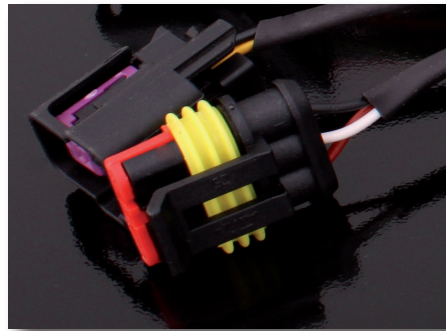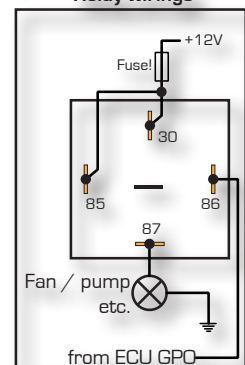AIN 3, 0-5V input.
AIN 4, 0-5V input. Extra 3-pin connector (**4**).



Fig 3 - 3-pin
Superseal connector.
1: Signal GND.
2: AIN 4 (0-5V) input.
3: +5V from ECU.

**Extra outputs.**
MaxxECU S4 2.7 Plugin offers extra outputs for flexible control like boost control, fan control.
GPO 6, GPO 7(if not used as digital input) (GND switched outputs).

**Relay wirings**



**Plugin Trigger**
Using stock triggers on crank and cam.

**Notes**
MaxxECU has some built in output test and diagnostics, see Diagnostics —> Output test to test certain outputs.
This will only work if fuel pump is set to "Always active" since fuel pump relay is also powering injectors and ignition.

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