

## MaxxECU Plugin - Engine Specifics Audi S2/S4/S6 (AAN)

2015-10-16

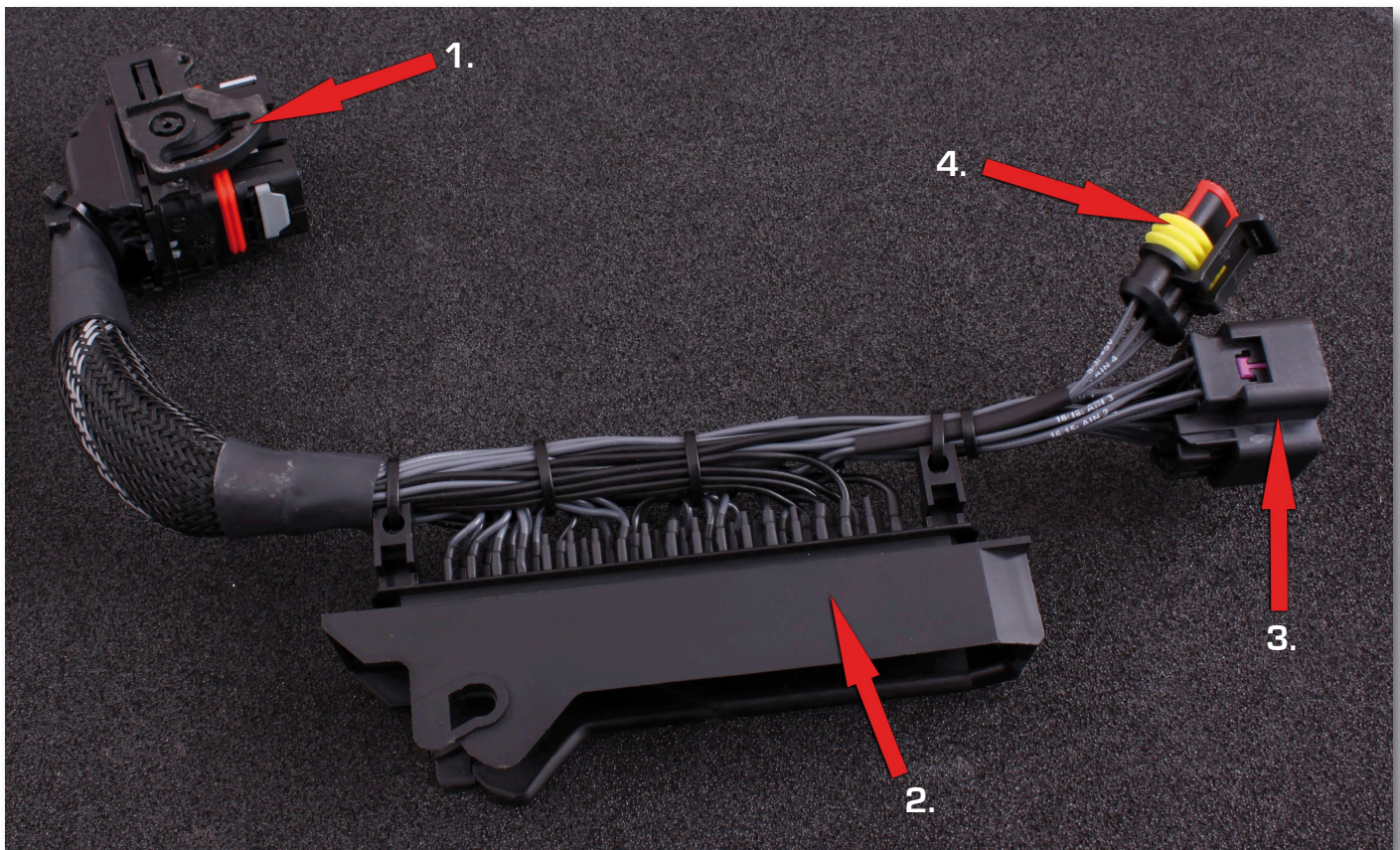


Fig 1 - MaxxECU Audi AAN kit consist of the following parts:

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).

### ECU installation

Stock Engine Control Unit (ECU) on this vehicle is mounted on passenger side floor, under the glove compartment.

- Remove the carpet and the black large plastic guard, where the ECU is located.
- Disconnect the stock ECU from vehicle harness connector.
- Install MaxxECU harness into vehicle harness connector.
- Install included MAP-sensor into engine manifold with included hose kit.
- MaxxECU uses stock air temperature sensor (highly recommended to replace it to get a more accurate IAT reading).

## 16-pin connector

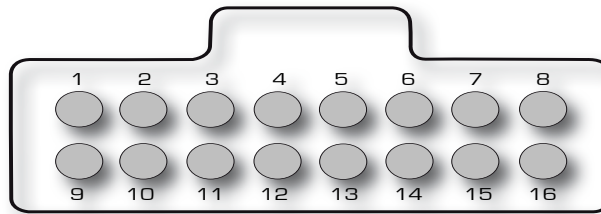


Fig 2 - Extra connector (3) seen from cable side.

1: Wideband.  
 2: Wideband.  
 3: Wideband.  
 4: Wideband.  
 5: INJ 7 (output).  
 6: INJ 8 (output).  
 7: GPO 3 (output).  
 8: GPO 4 (output).

9: Wideband.  
 10: Wideband.  
 11: Wideband.  
 12: +12V (output).  
 13: GND.  
 14: AIN 1 (temperature / switch) (input).  
 15: AIN 2 (temperature / switch) (input).  
 16: AIN 3 (0-5V) (input).

### Extra inputs.

MaxxECU AAN Plugin has 4 extra flexible inputs.  
 AIN 1, temp sensor or switches.  
 AIN 2, temp sensor or switches.  
 AIN 3, 0-5V input.  
 AIN 4, 0-5V input. Extra 3-pin connector (4).

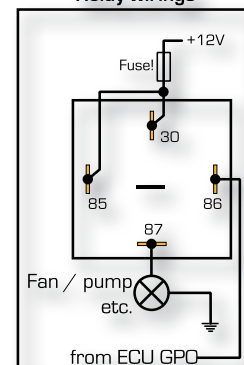


Fig 3 - 3-pin Superseal connector.  
 1: Signal GND.  
 2: AIN 4 (0-5V) input.  
 3: +5V from ECU.

### Extra outputs.

MaxxECU AAN Plugin offers 4 extra outputs for flexible control like boost control, fan control.  
 INJ 7, INJ 8, GPO 3, GPO 4 (GND switched outputs).

Relay wirings



## Plugin Trigger

Audi 5-cylinder engines is using an unique trigger decoder which take use of three inputs.  
 Trigger + HOME + DINx.

It's extremely important that HOME signal (flywheel sensor nr 2) is triggered in the middle of 2 Trigger teeth.  
 In MTune, [RealTime Data tab](#) -> [Trigger](#), "Home position" which should be within 10-90% to perform best.

Be sure to also check this value on higher RPMs.

The only thing that controls the HOME POSITION is the polarity of the HOME input, please modify (if possible) using "[Trigger Polarity](#)", [Inputs](#) -> [Trigger/Home inputs](#) and "[Trigger input](#)".

### 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.