

MaxxECU

engine management

MaxxECU Plugin - Engine Specifics

Audi 1.8T ME 7.5

2016-03-30

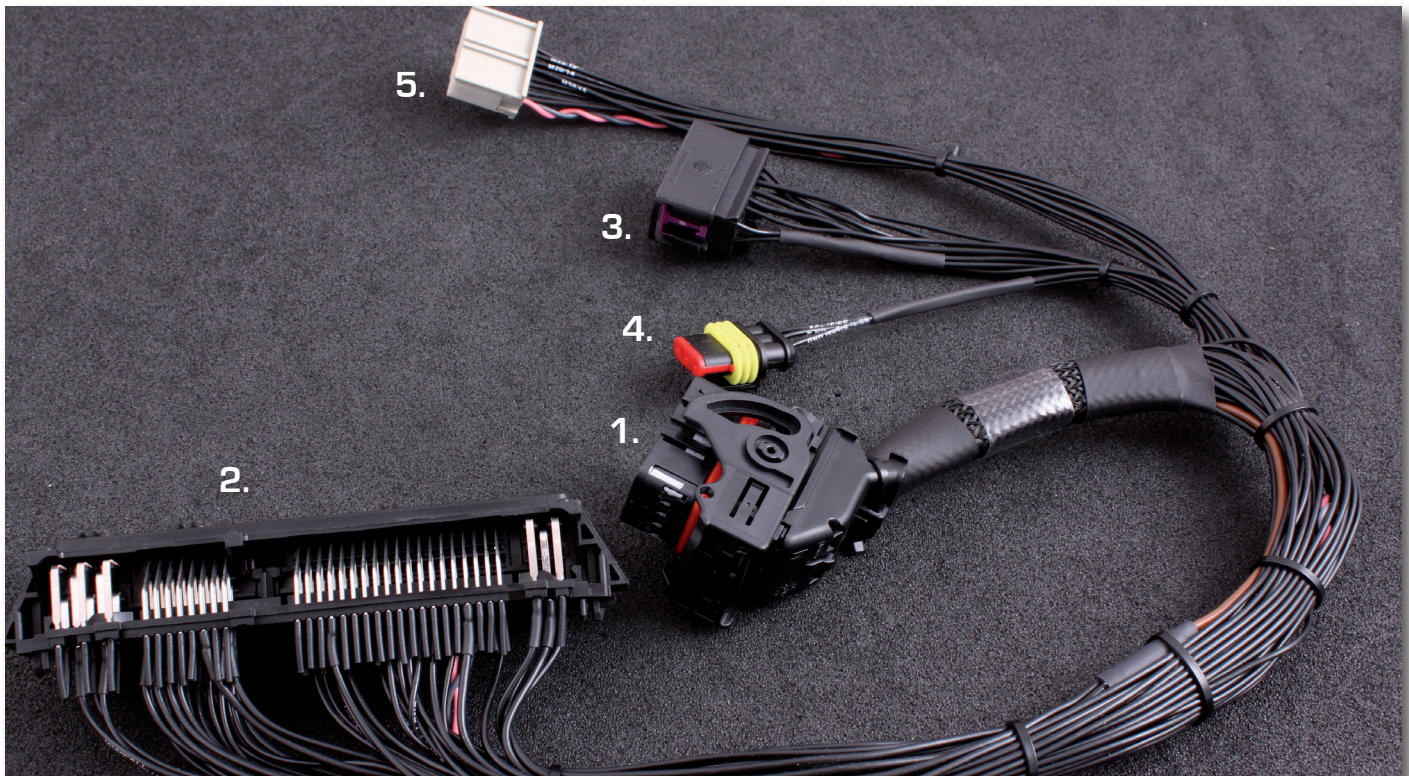


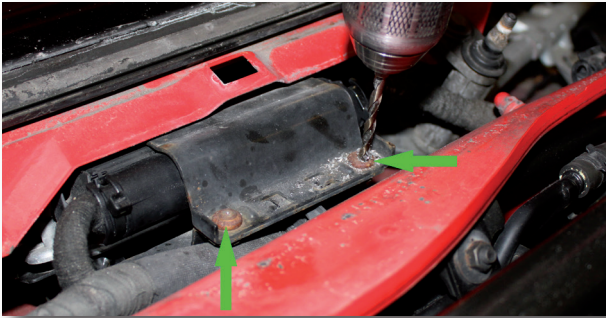
Fig 1 - MaxxECU kit consist of the following parts:

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.

Vehicle	EngineCode	Year	LSU sensor	Note
Audi S3	BAM	2003	Uses stock LSU 4.2 sensor	
Audi S3	AMK	2000 - 2003	Uses stock LSU 4.2 sensor	
Audi S3	APY	1998 - 1999	External sensor needed	
Audi S3	AUL	1999 - 2001	External sensor needed	
Golf IV GTI	AUM/AUQ	2002+	Uses stock LSU 4.2 sensor	No auto transmission support!
Skoda Octavia RS	AUG	2000 - 2005	Uses stock LSU 4.2 sensor	
Seat Leon	AMK/ARY/AUQ	2002+	Uses stock LSU 4.2 sensor	
Seat Leon	ARY	2000 - 2004	Uses stock LSU 4.2 sensor	
Seat Leon	AJQ	2001+	Uses stock LSU 4.2 sensor	
Audi TT	APX	1999	External sensor needed	
Audi TT	APX/APP/AJQ	2000+	External sensor needed	
Audi TT	AUM/AUQ/ARY/BAM	2002+	Uses stock LSU 4.2 sensor	

ECU installation

Stock Engine Control Unit (ECU) on this vehicle is mounted in engine bay, in the center below windshield.



Step1: Remove wipers and plastic covers. Drill out the rivets.



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



Step3: Drill out the rivets.



Step5: Remove plastic cover.



Step6: Install MAP-sensor hose to intake manifold and route it to the MaxxECU and install it. Put back plastic cover.



Step7: If your vehicle (see table in page one) do have a stock LSU sensor already mounted, MaxxECU uses it directly.

If no factory wideband sensor is mounted, please install a new (included) Bosch LSU 4.2 sensor in your exhaust system and route the cables to the MaxxECU 16-pin connector using the included lambda cable. [See Plugin general manual for wiring information!](#)

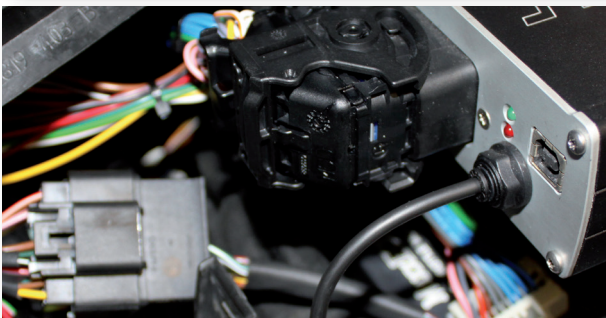


Step8: Install E-Throttle connector (5) to the E-Throttle module. Use adhesive tape or velcro to install the E-Throttle module upside down with connectors downwards, to prevent water to get into the module.

NOTE: E-Throttle module is not waterproofed, make sure NO water can enter your MaxxECU products.



Step9: Gently bend the ECU plate to make room for the MaxxECU unit.



Step10: Install MaxxECU CMC connector, MAP-sensor hose and USB cable before sliding in the MaxxECU into position. Use adhesive tape or velcro for mounting.

NOTE: MaxxECU V1 is NOT waterproofed, make sure NO water can enter your MaxxECU unit after installation!



Step11: Connect harness adapter to vehicle harness, make sure the connectors are properly installed and secured.

16-pin connector

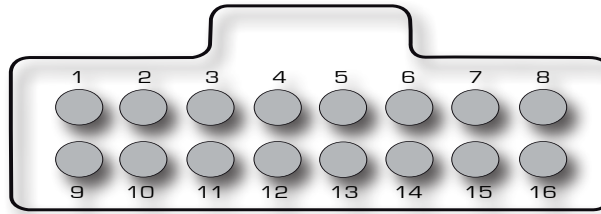


Fig 2 - Extra connector (3) seen from cable side.

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

9: Wideband.
 10: Wideband.
 11: Wideband.
 12: +12V (output).
 13: GND.
 14: AIN 1 (input)
 15: -
 16: AIN 3 (input)

Extra inputs.

GPO 7 (can be used as digital input), flexfuel sensor, switch.
 AIN 1, temperature input.
 AIN 3, 0-5v input.
 AIN 4, 0-5V input. Extra 3-pin connector (4).

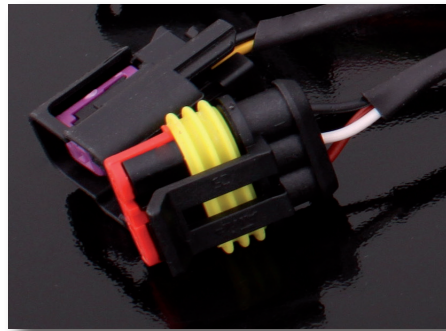
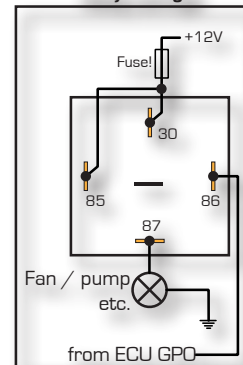


Fig 3 - 3-pin Superseal connector.
 1: Signal GND.
 2: AIN 4 [0-5V] input.
 3: +5V from ECU.

Extra outputs.

Plugin offers extra outputs for flexible control like boost control, fan control.
 INJ 8, 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.