Can2Cluster Installation Guide

Forbes Automotive

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Product Overview

Thank you for purchasing the Can2Cluster for Volkswagens by Forbes Automotive!

The product is designed to take CANBUS signals from OEM ECUs – like Bosch ME7.x, EDC.x as well as aftermarket ECUs – like Haltech, EMU etc.

The device takes the signals and converts them into signals to suit analog clusters – like the MK1 & MK2. It is fully opensource and the source code can be downloaded and adjusted to suit other brands if required. Please get in touch if you need help!

Inputs:

- ➤ RPM (from CAN)
- ➤ Speed (from VSS via. ECU, over CAN)
    - ○ *Optional GPS or DSG setup available too
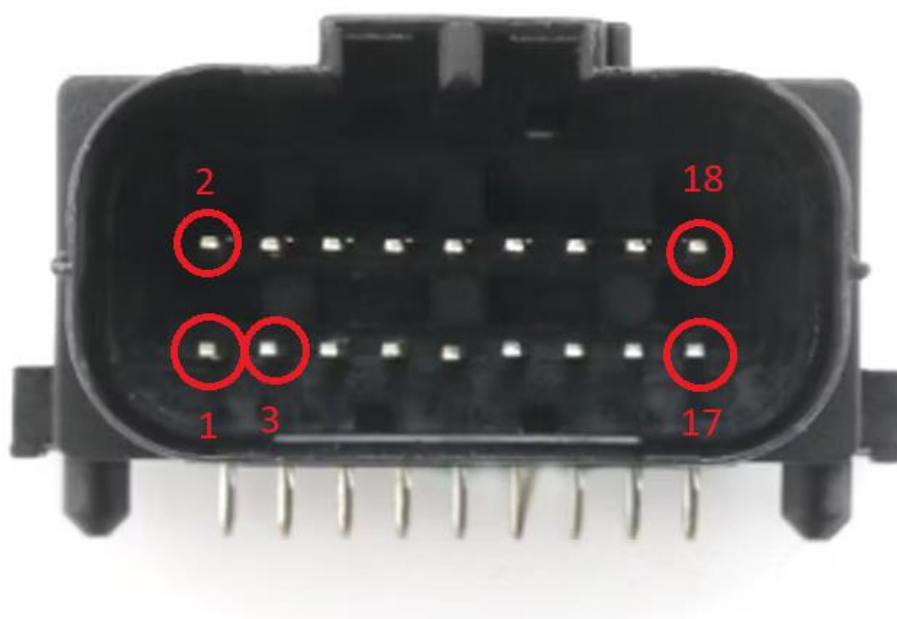- ➤ EML (from CAN)
- ➤ EPC (from CAN)

Outputs:

- ➤ RPM (12v pulse or typical ignition coil)
- ➤ Speed (12v pulse)
- ➤ EML (12v to LED)
- ➤ EPC (12v LED)
- ➤ Needle sweep (*if activated in firmware)

Wiring Installation

Wiring the new module in is easy! You'll need access to:
- ➤ CAN BUS (near the OEM ECU)
    - ○ CAN High (Orange/Black stripe)
    - ○ CAN Low (Orange)
- ➤ 12v Ignition (Red)
- ➤ Ground (Brown)

Use the outputs as per the diagram below to suit your installation. Final firmware update may be required to suit final requirements!

Pin Number	Basic Detail	Comments
1	12v Ignition (K15)	Switched power (for waking up the module)
2	Reverse	Via. Internal relay - 3A max. - for DSG
3	Ground	Module ground - to chassis etc
4	N/A	Not used
5	CAN L	CAN Low from ECU
6	N/A	Not used
7	CAN H	CAN High from ECU
8	Paddle down	Steering wheel paddle down - input to ground - for DSG
9	N/A	Not used
10	Paddle up	Steering wheel paddle up - input to ground - for DSG
11	N/A	Not used
12	EPC	12v to EPC
13	N/A	Not used
14	EML	12v to EML
15	N/A	Not used
16	RPM	12v to cluster RPM (>MK2 / not high voltage)
17	RPM	MK1 / MK2 to cluster RPM (high voltage!)
18	Speed	12v pulsed speed

Disclaimer

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