

MOTEC AND BOSCH M5.2.2 REV 1.0

Porsche Cup cars with the Bosch (Motronic) 5.2.2 ECU/DME (and street cars) can be enabled with MoTeC systems via the CAN interface. The CAN interface is present from the factory to speak to the automatic transmission, and can be simply repurposed to communicate with MoTeC.CDL3 and similar devices. This applies to 1999 (EU), 2000, 2001 Porsche Cup cars, and may be of interest for 1997-1999 Porsche Boxster (PCA SPB class). Wiring instructions are for Porsche Cup cars. Tested and verified on 2001 Porsche Cup and 1999 Porsche Boxster (SPB)

The available channels are:

- Throttle Pos
- CDI 1 Eng RPM
- Engine Temp (o2)
- Wheel speed rear

### Wiring

The CAN bus is wired internally through the loom from the ECU/DME to the front of the car and is present in the 21 pin AMP connector in the passenger foot well. I am unable to locate a mating connector at this time.

The bus is unterminated from the factory and thus must be terminated with a 100ohm  $\frac{1}{4}$  w resistor for the bus to be valid and thus communicate with MoTeC.

If using the ECU/CAN loom from the CDL3 club logging kit, MoTeC wiring to the CDL is done via the connector labelled ECU, the other conductors are unused.

	ECU/DME AMP connector at footwell	MoTeC	ECU/DME
CAN hi	BL	WT (pin 27)	BL (pin 86)
CAN lo	GR	GN (pin 26)	GR (pin 85)

### CAN Profile

There are two MoTeC CAN profile templates originally created by Chris Brown at MoTeC USA. I have sent these templates back to MoTeC to ensure they can be given to customers in the future. Please contact MoTeC/JGM for these files.

To load these profiles from a file:

- Open MoTeC Dash Manager
- Connections->Communications->CAN 0->SELECT->Import
- Select from Bosch Motronic 5 ecu ID#316 from disk
- Repeat for Bosch Motronic 5 ecu ID#329
- Set Mode: CAN Rate: 500K (don't miss this step)

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### **ECU/DME**

The Bosch M5.2.2 ECU/DME requires no modifications from the factory. I have verified with Christian @ PMNA that further flashes and/or historical flashes/updates of the ECU should have no effect on the CAN communications protocol and function. Thanks to PMNA.