

SETUP GUIDE



Electromotive ECUs to CD Dash

Supported Devices

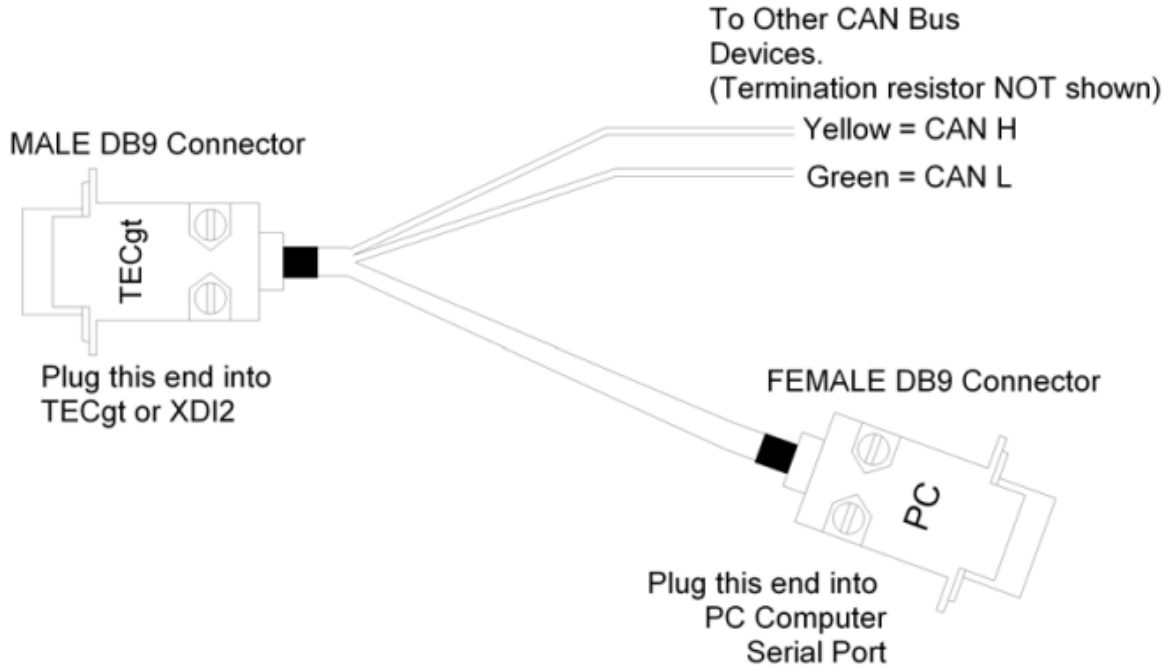
TEC3r ECU
TECgt ECU
TECs ECU
TECm ECU

CAN Bus Wiring

AEM CD has 2 separate CAN ports. For 3rd party devices, AEM recommends you use AEM CAN Bus 2, whose connections are contained in a 2 pin Deutsch DTM connector. On older harnesses it may be in an unterminated, twisted/shielded flying lead in the dash harness.

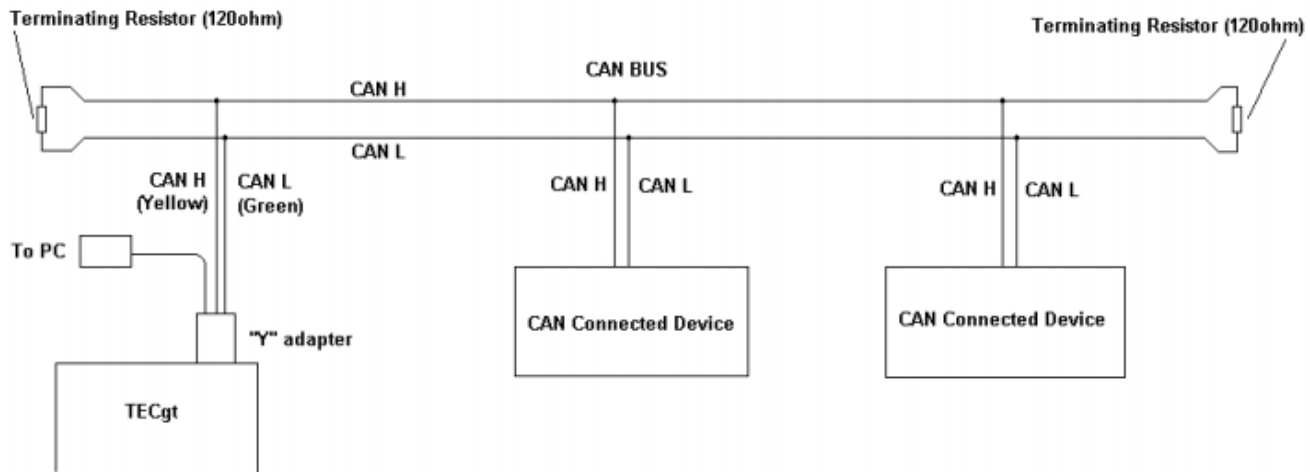
Electromotive ECU's require a CAN Breakout cable (Electromotive P/N 011-10003) that allows CAN equipped TEC units with DB9 serial ports to be connected to CAN networks while still retaining serial communications through the DB9 cable.

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Electromotive CAN Breakout Cable

TEC CAN Hi (Yellow Wire) → AEM CD7 Pin 5 (CAN 2+), Gray wire in twisted/shielded pair
TEC CAN Lo (Green Wire) → AEM CD7 Pin 6 (CAN 2-), Black wire in twisted/shielded pair



If you don't have a CAN breakout cable, you can wire one yourself. CAN Low is Pin 4 and CAN High is Pin 1 on the ECU DB9 connector. Note the terminating resistors. All CAN networks require two 120 ohm terminating resistors, one at each physical end of the network. The CD7 has a software selectable resistor that will take care of one end of the network but neither the TEC ECU nor the CAN breakout harness have this resistor built in so one must be added.

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ECU Software Setup

Please follow the Electromotive TEC ECU instructions for enabling the CAN data stream if necessary.

Supported Channels

AEM supports the following 16 channels:

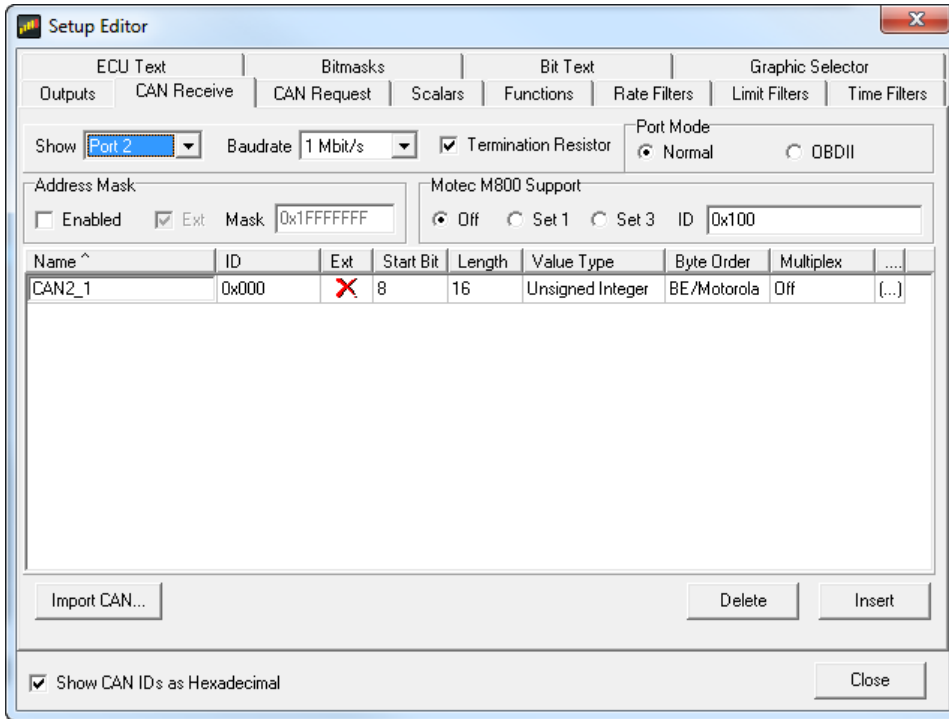
Ch	Channel Name
1	EngineSpeed
2	ThrottlePos
3	IntakeManifoldAirPress
4	IgnitionTiming
5	FuelInjPriPulsewidth
6	GAMA
7	AFRVolts
8	KnockCount
9	FuelAirEquivRatio_Act
10	FuelAirEquivRatio_Target
11	AFRControlTrim
12	KnockGlobalIgnOffset
13	CoolantTemp
14	IntakeManifoldAirTemp
15	ECUBatteryVoltage
16	IndicatorCheckEngineState

Layout Overview & CAN Setup

You can either start with a new dash layout by selecting "File" then "New" in DashDesign or you can select from a pre-designed layout that has screens already designed and inserted but has the CAN inputs left blank. These are chosen by selecting "File" then "Open" and selecting one of the setups titled xzyblank.aemcd7 with the xyz representing a description of the layouts contained in the file.

To import the CAN setup you select SETUP then DISPLAY from the main DashDisplay menu. Once the dialog box opens you select the "CAN Receive" tab.

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Change the settings to the following:

Show: "Port 2"

Baudrate: 1 Mbit/s

Termination Resistor: "ON"

Address Mask: "OFF"

M800 Support: "OFF"

Then click on "Import CAN" on the lower left and select the can setup file. The new items will appear in the Outputs tab. They can now be viewed on the display or logged. You can rename, filter, or manipulate any of these channels to make them more useful.

*CAN Setup File: Electromotive_TEC_GT_Rev0.dbc