# **SETUP GUIDE**



#### Emtron ECUs to CD Dash

### **Supported Devices**

#### KV8, KV12, KV16, SL4, SL8 and all plug-in ECU's

# **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.

EMtron CAN Hi  $\rightarrow$  AEM CD "CAN 2" Pin 1 (CAN 2+), Gray wire in twisted/shielded pair EMtron CAN Lo  $\rightarrow$  AEM CD "CAN 2" Pin 2 (CAN 2-), Black wire in twisted/shielded pair

## **ECU Software Setup**

Please follow the EMtron ECUs instructions for enabling the CAN data stream if necessary.

# **Supported Channels**

AEM supports the following 38 channels transmitted by the EMtron ECUs:

AFR1	AFR1LongTermFuelTrim AFR1ShortTermFuelTrim			
AFR2	AFR2LongTermFuelTrim AFR2ShortTermFuelTrim			
AFRTarget	BaroPress CamSyncPos			
CoolantPress	CoolantTemp ECU_CrankCamErrorCount			
ECU_DTCCount	ECU_EstChargeTemp	ECUBatteryVoltage		
ECUTemp	EngineCrankcasePress	EngineSpeed		
EngineSpeedLimit	EngineSpeedRateofChange	ExhPress		
FuelCut	FuelEthanolContent	FuellnjDutyPrimary		
FuelPress	FuelPressInjDelta FuelTemp			
GearPosCalculated	IgnitionCut	IgnitionTiming		
IntakeManifoldAirPress	IntakeManifoldAirTemp	OilPress		
OilTemp	ThrottlePos	ThrottlePosRateofChange		
VehicleLateralG	VehicleLongitudinalG	VehicleSpeed		
VehicleVerticalG				

This product is legal in California for racing vehicles only and should never be used on public highways. AEM Performance Electronics, 2205 W. 126th Street Unit A, Hawthorne, CA 90250, Phone: (310) 484-2322 Fax: (310) 484-0152

# SETUP GUIDE



# 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.

Mage Setup Editor									×
ECU Text Bitmasks			1	Bit Text Gr-			aphic Selector		
Outputs CAN Receive CAN Request Scalar:				ars   Fu	inctions Rat	te Filters   Limit Filters   Time Filters			
Show Port 2  Baudrate 1 Mbit/s  Fort Termination Resistor Fort Mode OBDII ODDII									
Address Mask				otec M800	Support				
Enabled VExt Mask Ox1FFFFFFF Off C Set 1 C Set 3 ID Ox100									
Name ^	ID	Ext	Start Bit	Length	Value Type	Byte (	Order	Multiple	ex
CAN2_1	0x000	×	8	16	Unsigned Intege	er BE/Mo	otorola	Off	()
Import CAN							Delete	1	Insert
Show CAN IDs as He	adecimal								Close

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.