SETUP GUIDE



DTAFast ECUs to CD Dash

Supported Devices

S40 Pro ECU running V 79.04 and later S60 Pro ECU running V 79.04 and later S80 Pro ECU running V 79.04 and later S100 Pro ECU running V 79.04 and later

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.

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

ECU Software Setup

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

Supported Channels

AEM supports the following 30 channels transmitted by the DTAFast ECUs:

AFR	AFR_PIDAdjust AFR_PIDTarget			
Cam1Output	Cam1Position	Cam1Target		
Cam2Output	Cam2Position	Cam2Target		
CamErrors	CoolantTemp	CrankErrors		
ECUAnalogInput1Voltage	ECUAnalogInput2Voltage	ECUAnalogInput3Voltage		
ECUBatteryVoltage	EngineSpeed	FuelConsumptionRate		
FuelEconomyAverage	FuelInjDutyPrimary	FuellnjPulsew idth		
FuelPress	GearPosCalculated	IgnitionTiming		
IntakeManifoldAirPress	IntakeManifoldAirTemp	OilPress		
OilTemp	ThrottlePos	VehicleSpeed		

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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.

Mail Setup Editor								×	
ECU Text Bitmasks Outputs CAN Receive CAN Request Sca				 ars Fu	Bit Text Inctions Rat	 e Filters	Graphic Selector		
Show Port 2 Baudrate 1 Mbit/s Fort Termination Resistor Fort Mode Normal C OBDII								DII	
Address Mask Motec M800 Support ■ Enabled ▼ Ext Mask 0x1FFFFFFF ● 0 Off C Set 1 C Set 3 ID 0x100									
Enabled Ext		,			Set 1 O Set		,		
Name ^	ID 0x000	Ext	Start Bit 8	Length 16	Value Type Unsigned Intege	Byte Or r BE/Moto			
CAN2_1	0,000	X	0	10	onsigned intege			()	
Import CAN						D)elete	Insert	
Show CAN IDs as Hex	kadecimal							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.

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