SETUP GUIDE

Supported Devices

BigStuff3 Gen4 Pro Xtreme EFI to CD Dash

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.

BS3 GEN4 CAN Hi (Hdr1 Pin N1) → AEM CD "CAN 2" Pin 1 (CAN 2+), Gray wire in twisted/shielded pair
BS3 GEN4 CAN Lo (Hdr1 Pin N2) → AEM CD "CAN 2" Pin 2 (CAN 2-), Black wire in twisted/shielded pair

Please follow the BigStuff3 instructions for adding a resistor on the ECU side of the bus (if necessary). The CD has a software selectable termination resistor available so if you are hooking the CD directly up to the BS3 Gen4 then you need to activate the termination resistor in the CD.

ECU Software Setup

Please follow the BigStuff3 instructions for enabling the CAN data stream if necessary.

Supported Channels

The BigStuff3 Gen4 Pro Xtreme EFI transmits 32 unique channels to the CD.

CD Channel Name	BS3 Gen4 Name	Transmitted Speed
EngineSpeed	Engine_Speed	100hz
ThrottlePos	Throttle_Position	100hz
IgnitionTiming	Spark_Advance	100hz
FuelPress	Fuel_Pressure	100hz
OilPress	Eng_Oil_Pressure	100hz
EngineCrankcasePress	Pan_Vacuum	100hz
CoolantTemp	Coolant_Temp	10hz
IntakeManifoldAirTemp	Air_Temp	10hz
OilTemp	Eng_Oil_Temp	10hz
AFRLeft	Left_Bank_Afr_Actual	100hz
AFRRight	Right_Bank_Afr_Actual	100hz

CD Channel Name	BS3 Gen4 Name	Transmitted Speed
AFRTargetLeft	Left_Bank_Afr_Desired	100hz
AFRTargetRight	Right_Bank_Afr_Desired	100hz
AFRControlTrimLeft	Left_Bank_O2_Corr	100hz
AFRControlTrimRight	Right_Bank_O2_Corr	100hz
TC_Command	TC_Command	10hz
TracControlSlipMeasured	TCC_Slip	100hz
VehicleSpeed	Vehicle_Speed	100hz
VehicleLongitudinalG	Accelerometer	100hz
GearPosCalculated	Gear	100hz
GearboxLinePress	Trans_Line_Pressure	100hz
GearboxTemp	Trans_Oil_Temp	10hz
Boost_Index	Boost_Index	10hz
BoostPress	Boost	100hz
BoostControlOutput	Duty_Cycle	100hz
TurboSpeed	Turbo_Speed_1	100hz
TurboSpeed2	Turbo_Speed_2	100hz
NitrousOutputStage	Nos_Stage	100hz
NitrousBottlePress	NOS_Bottle_Pressure	100hz
ECUBatteryVoltage	Battery_Voltage	100hz
FSL_Command	FSL_Command	10hz
FSL_Index	FSL_Index	100hz

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.
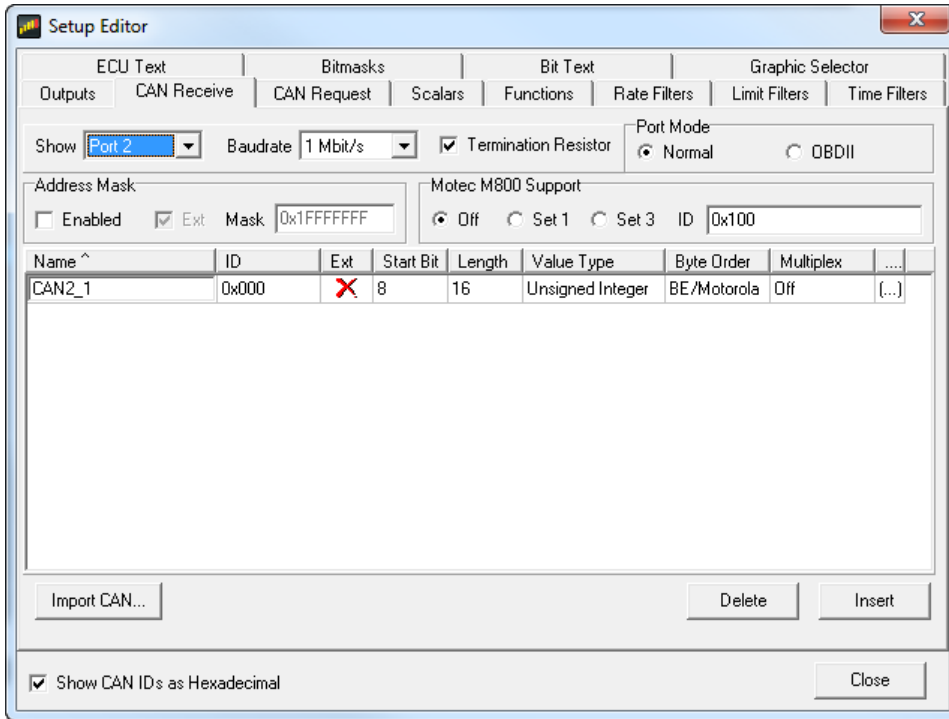
Change the settings to the following:

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.