

Bosch Motorsports MS 3.0 ECU to CD Dash

Supported Devices

Bosch Motorsports MS 3.0 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.

MS3.0 CAN Hi → AEM CD "CAN 2" Pin 1 (CAN 2+), Gray wire in twisted/shielded pair

MS3.0 CAN Lo → AEM CD "CAN 2" Pin 2 (CAN 2-), Black wire in twisted/shielded pair

ECU Software Setup

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

Supported Channels

AEM supports the following 108 channels transmitted by the Bosch MS 3.0 ECU:

AFR1	AFR1ControlState	AFR1ControlTrim
AFR2	AFR2ControlState	AFR2ControlTrim
AFRControl1_I_Component	AFRControl1_P_Component	AFRControl2_I_Component
AFRControl2_P_Component	AFRTarget	BaroPress
CamSignalState	CamSyncPos	CoolantTemp
ECU_Lap	ECU_LapTriggerPresent	ECUBatteryVoltage
EngineCrankcasePress	EngineModeSwitchStatus	EngineRotatingState
EngineRunningState	EngineSpeed	EngineSpeedLimitState
EngineSyncState	ExhaustTemp1	ExhaustTemp2
FuelAccelPumpState	FuelCut	FuelCutInStatus
FuelCutStatus	FuelInj1Pulsewidth	FuelInj2Pulsewidth
FuelInj3Pulsewidth	FuelInj4Pulsewidth	FuelInj5Pulsewidth
FuelInj6Pulsewidth	FuelInj7Pulsewidth	FuelInj8Pulsewidth
FuelInjBatteryOffset	FuelInjEndAngle	FuelInjMapPulsewidth

SETUP GUIDE



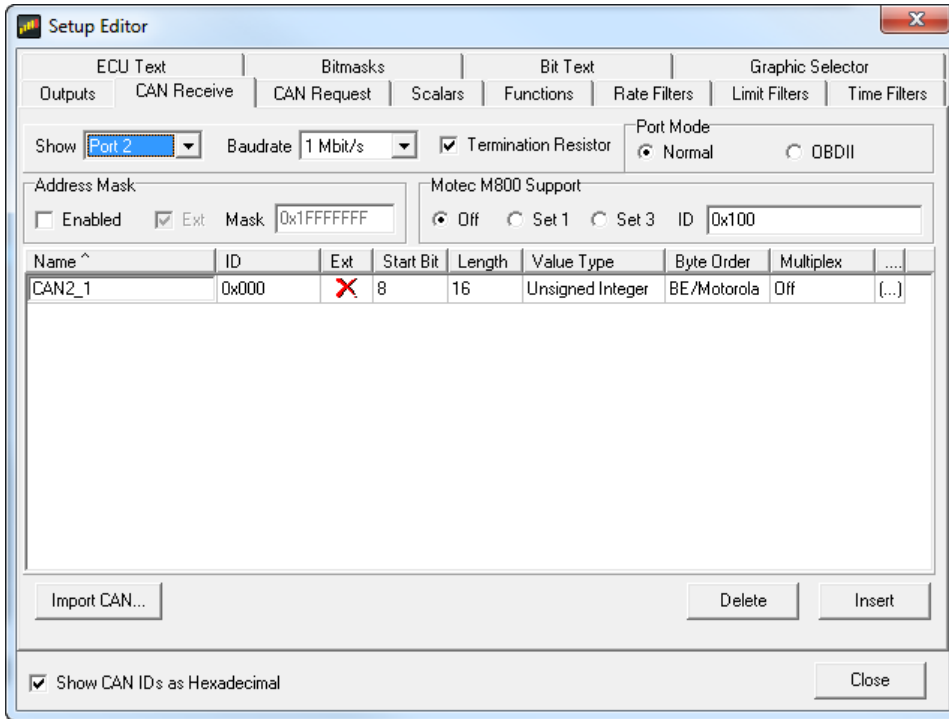
FuelInjPulsewidth	FuelInjStartPhase	FuelPress
FuelTankLevel	FuelTemp	FuelUsedCurrLap
GearboxRatioCalculated	Gearddu	GearPosCalculated
GearShiftCutState	GearShiftCutState	GearShiftSwitch
IdleControl	IgnitionCutState	IgnitionDwellTime
IgnitionMapTiming	IgnitionTiming	IgnitionTimingCyl1
IgnitionTimingCyl2	IgnitionTimingCyl3	IgnitionTimingCyl4
IgnitionTimingCyl5	IgnitionTimingCyl6	IgnitionTimingCyl7
IgnitionTimingCyl8	IndicatorBatteryState	IndicatorLowOilPressState
IndicatorLowOilPressState	IndicatorMILState	IndicatorShiftLED1
IndicatorShiftLED2	IndicatorShiftLED3	IndicatorShiftLED4
IndicatorShiftLED5	IntakeManifoldAirTemp	KnockAdaptEnabledState
KnockEnabledState	LapDistance	LapNumber
LapTimeCurrent	LapTimeDelta	LapTimeFastest
OilPress	OilTemp	PitLaneSpeedLimiterState
ThrottleDBWControlErrorState	ThrottleDBWPos	ThrottleDBWTarget
ThrottlePedalPos	ThrottlePos	ThrottlePosRateOfChange
TracControl_P_Component	TracControlCutState	TracControlModeSwitchState
TracControlSlipMeasured	TracControlSlipTarget	VehicleAccel_X
VehicleAccel_Y	VehicleAccel_Z	VehicleSpeed
WheelSpeedAvgDriven	WheelSpeedAvgNonDriven	WheelSpeedFrontLeft
WheelSpeedFrontRight	WheelSpeedRearLeft	WheelSpeedRearRight

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.

SETUP GUIDE



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.