SETUP GUIDE

Bosch Motorsports MS 4.3 ECU to CD Dash

Supported Devices

Bosch Motorsports MS 4.3 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.

MS4.3 CAN Hi → AEM CD "CAN 2" Pin 1 (CAN 2+), Gray wire in twisted/shielded pair
MS4.3 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 92 channels transmitted by the Bosch MS 4.3 ECU:

AFR1	AFR2	AFRContOutput1
AFRContOutput2	AFRControlState1	AFRControlState2
AFRSensorTemp1	AFRSensorTemp2	AFRTarget
BaroPress	BrakePressFront	BrakePressRear
CamSensorOK	ClutchPress	CoolantPress
CoolantTemp	CoolantTemp2	DamperTravelFrontLeft
DamperTravelFrontRight	DamperTravelRearLeft	DamperTravelRearRight
ECU_LapTriggerPresent	ECU_PaceEnable	ECUBatteryVoltage
EngineCrankcasePress	EngineSpeed	ExhaustTemp1
ExhaustTemp2	FuelConsumption	FuelConsumptionCurrentLap
FuelConsumptionLastLap	FuelCutStatus	FuelInjEffectivePulsewidth1
FuelInjEffectivePulsewidth2	FuelPress	FuelPress2
FuelPumpState	FuelTemp	GearboxDrumPosVoltage
GearboxTemp	GearPosCalculated	GearShiftActive
GearShiftSwitch	IgnitionTiming	IgnitionTimingRetardCyl1

 AEM Performance Electronics, 2205 W. 126th Street Unit A, Hawthorne, CA 90250, Phone: (310) 484-2322 Fax: (310) 484-0152

IgnitionTimingRetardCyl2	IgnitionTimingRetardCyl3	IgnitionTimingRetardCyl4
IgnitionTimingRetardCyl5	IgnitionTimingRetardCyl6	IgnitionTimingRetardCyl7
IgnitionTimingRetardCyl8	IndicatorEngineSpeedLimiter	IndicatorLow OilPressState
IndicatorMILState	IndicatorShiftLampState	IndicatorTracControlState
IndicatorUserMILState	IntakeManifoldAirPress	IntakeManifoldAirPress2
IntakeManifoldAirTemp	IntakeManifoldAirTemp2	IntakePressureBeforeThrottle1
IntakePressureBeforeThrottle2	LapCounter	LaunchSlipStatus
LaunchSlipSwitchState	MapSw Position	MaxEngineRPMCurrentLap
MaxEngineSpeedOccured	NumberCylindersCut	OilPress
OilTemp	PitLaneSpeedLimiterState	PitLaneSpeedLimiterSwitchState
RelativeAirCharge	RelativeAirCharge2	SecondaryEngineTemp
SparePressSensor	SpareTempSensor	SteeringAngle
ThrottlePos	TracControlModeSwitchState	TracControlSlipMeasured
TracControlSlipTarget	VehicleAccel_X	VehicleAccel_Y
VehicleAccel_Z	VehicleSpeed	VehicleYaw RateofChange
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.

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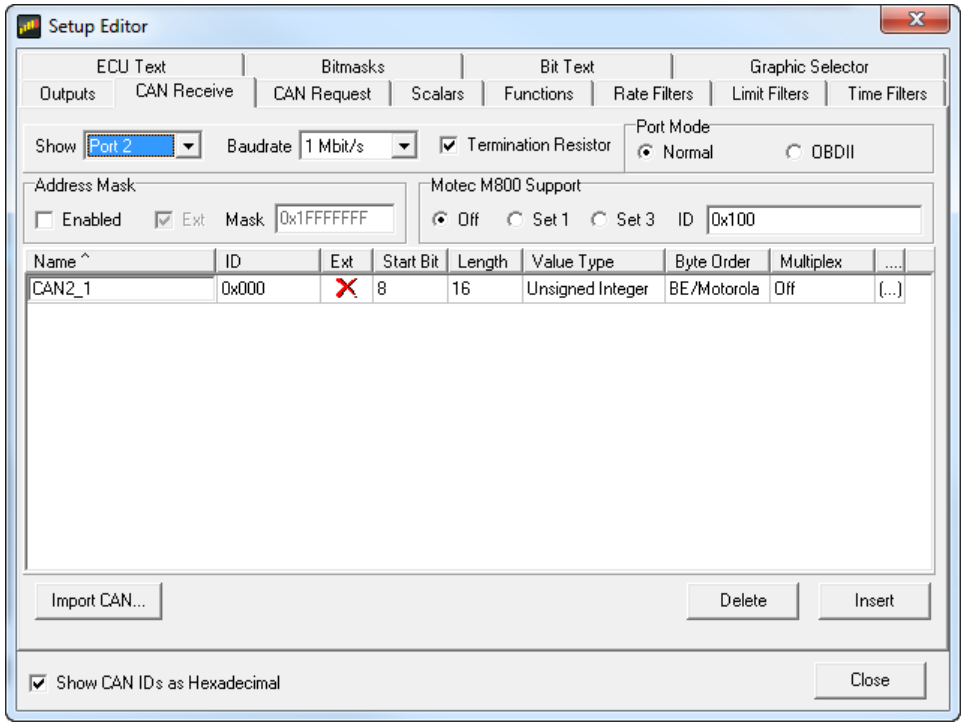

Change the settings to the following:
Show: “Port 2”
Baudrate: 1 Mbit/s
Termination Resistor: “ON”
Address Mask: “OFF”
M800 Support: “OFF”

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.