SETUP GUIDE

Holley HP EFI & Dominator EFI to CD Dash

Supported Devices

Holley HP EFI
Dominator EFI

CAN Bus Wiring

AEM CD7 has 2 separate CAN ports. For 3rd party devices, AEM recommends you use AEM CAN Bus 2. The simplest method of connecting the CD-7 to the Holly HP or Dominator system is to use the CD-7 Plug & Play Adapter Cable for Holley EFI (AEM P/N 30-2214). Doing this enables the CD-7 to be plugged directly into the Holley harness and is a simple plug & play installation.

Holley CAN Connector
Pin A CAN HI (ORANGE/BLACK) → AEM CD "CAN 2" Pin 1 (CAN 2+), Gray wire in twisted/shielded pair
Pin B CAN LO (ORANGE) → AEM CD "CAN 2" Pin 2 (CAN 2-), Black wire in twisted/shielded pair

If you are not using a standard Holley harness then you will need to connect it as follows:
Holley Conn J1A Pin A32, CAN HI → AEM CD "CAN 2" Pin 1 (CAN 2+), Gray wire in twisted/shielded pair
Holley Conn J1A Pin A24, CAN LO → AEM CD "CAN 2" Pin 2 (CAN 2-), Black wire in twisted/shielded pair

Follow Holley instructions to determine if you need a terminating resistor at the ECU. You need two in total. One is available in the CD-7. Another one must be present at the other end of the bus.

ECU Software Setup

The ECU must be set to transmit the Racepack data type.
System Parameters | Basic I/O | CAN Bus and set CAN Bus 1 Type to "Racepak"

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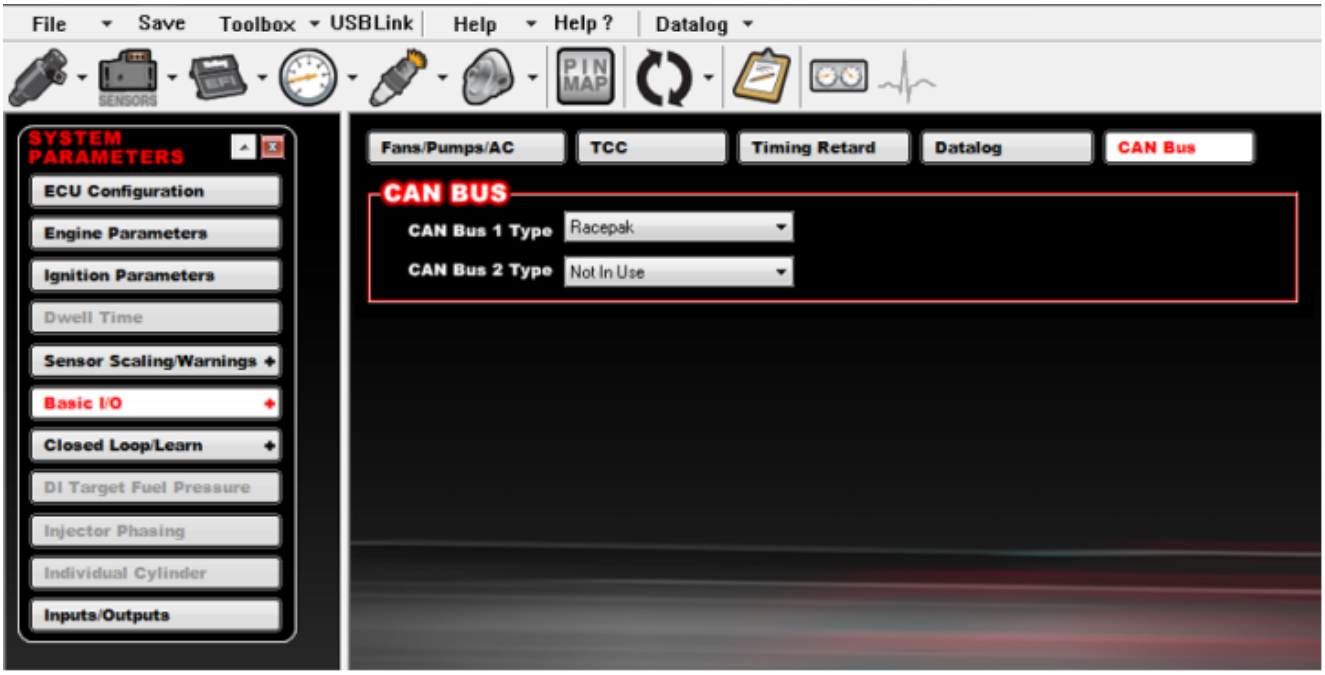

Supported Channels

The Holley Racepack Protocol transmits 50 Unique Channels and the CD-7 supports all of them.
Note: Not all ECU's will transmit values on all channels.

CH	CD7 Channel Name
1	AFRAverage
2	AFRControlState
3	AFRControlTrim
4	AFRLeft
5	AFRRight
6	AFRTarget
7	BaroPress
8	BoostControlOutput
9	BoostControlTarget
10	BoostGearStatus
11	BoostStageStatus
12	BoostVehicleSpeed
13	CoolantTemp
14	ECU_Input1
15	ECU_Input2
16	ECU_Input3
17	ECU_Input4
18	ECU_Input5

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CH	CD7 Channel Name
19	ECU_Output1
20	ECU_Output2
21	ECU_Output3
22	ECU_Output4
23	ECU_Output5
24	ECUBatteryVoltage
25	ECURunTime
26	EngineSpeed
27	EngineSpeedLimitState
28	FuelInjDutyPrimary
29	FuelInjPulsewidth
30	FuelMassFlowRate
31	FuelPress
32	GearboxInputShaftSpeed
33	GearboxInputShaftSpeed
34	GearboxLinePressPercent
35	GearPosCalculated
36	IgnitionTiming
37	IntakeManifoldAirPress
38	IntakeManifoldAirTemp
39	KnockGlobalIgnOffset
40	LaunchRampTime
41	NitrousOutputStage1Duty
42	NitrousOutputStage2Duty
43	NitrousOutputStage3Duty
44	NitrousOutputStage4Duty
45	OilPress
46	ThrottlePedalPos
47	ThrottlePos
48	TurboOutletPress
49	VehicleSpeed
50	WaterMethInjDuty

Layout Overview & CAN Setup

To use this device, the display must be running firmware 13x19 or later.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.

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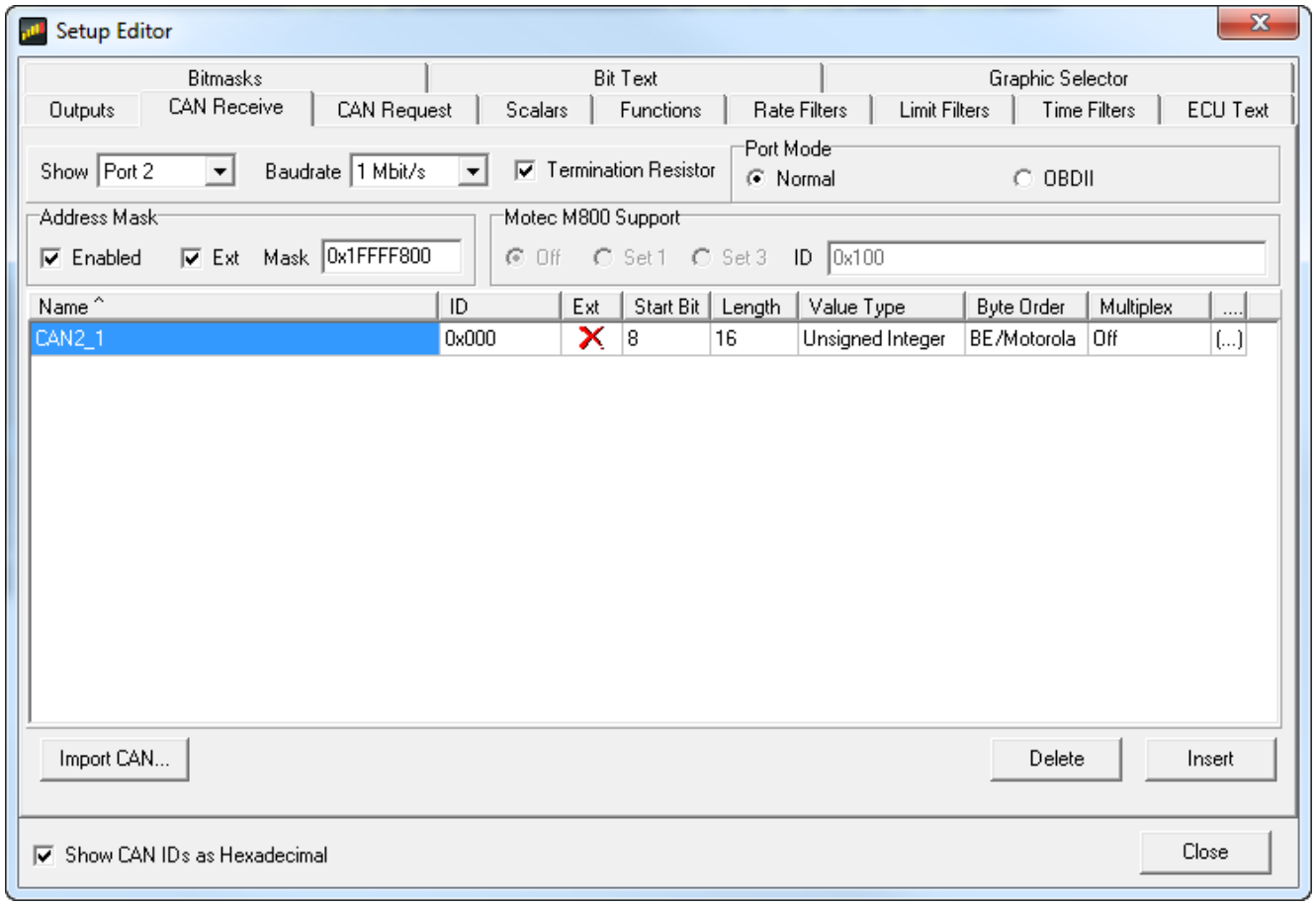
To import the CAN configuration into your setup you select “Setup” then “Display” from the main DashDesign menu. Once the dialog box opens you select the “CAN Receive” tab.



Change the settings to the following:
Show: “Port 2”
Baudrate: 1 Mbit/s
Termination Resistor: “ON”
Address Mask Enabled: “ON”
Address Mask Ext: “ON”
Address Mask: “0x1FFFF800”
M800 Support: “OFF”
Then click on “Import CAN” on the lower left and open the “Holley_HEFI_RevX” file and then just click “Import”. There will now be 50 new items shown under CAN BUS 2.
There will also be a large number of new outputs created and they are accessed 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