

SETUP GUIDE



HONDATA KPro4 CAN Interface to CD Dash

Supported Devices

Hondata KPro4 (White PCB) ECU

CAN Bus Wiring

The Hondata KPro4 has its CAN connection (CANH & CANL) on a header. The AEM CD7 has 2 separate CAN ports. For 3rd party devices, AEM recommends you use AEM CAN BUS 2, whose connections are contained in an unterminated twisted/shielded flying lead in the dash harness.

KPro4 CANH (Blue) → AEM CD "CAN 2" Pin 1 (CAN 2+), Gray wire in twisted/shielded pair

KPro4 CANL (Yellow) → AEM CD "CAN 2" Pin 2 (CAN 2-), Black wire in twisted/shielded pair

The KPro4 does NOT have an internal terminating resistor. You MUST add a 120 ohm resistor between CANH and CANL.

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ECU Software Setup

In KManager; under Parameters | Multiplexer | Digital Output | CAN Output Select "Motec SDL/ADL" and set the speed to 500 kbit/s. Upload the calibration to the ECU.

Supported Channels

The KPro4 ECU Transmits 25 unique channels

CH	CD7 Channel Name
1	EngineSpeed
2	VehicleSpeed
3	GearPosCalculated
4	ECUBatteryVoltage
5	IntakeManifoldAirTemp
6	CoolantTemp
7	ThrottlePos
8	IntakeManifoldAirPress
9	FuelInjPulsewidth
10	IgnitionTiming
11	AFR
12	KnockCount
13	CamIntakePosTarget

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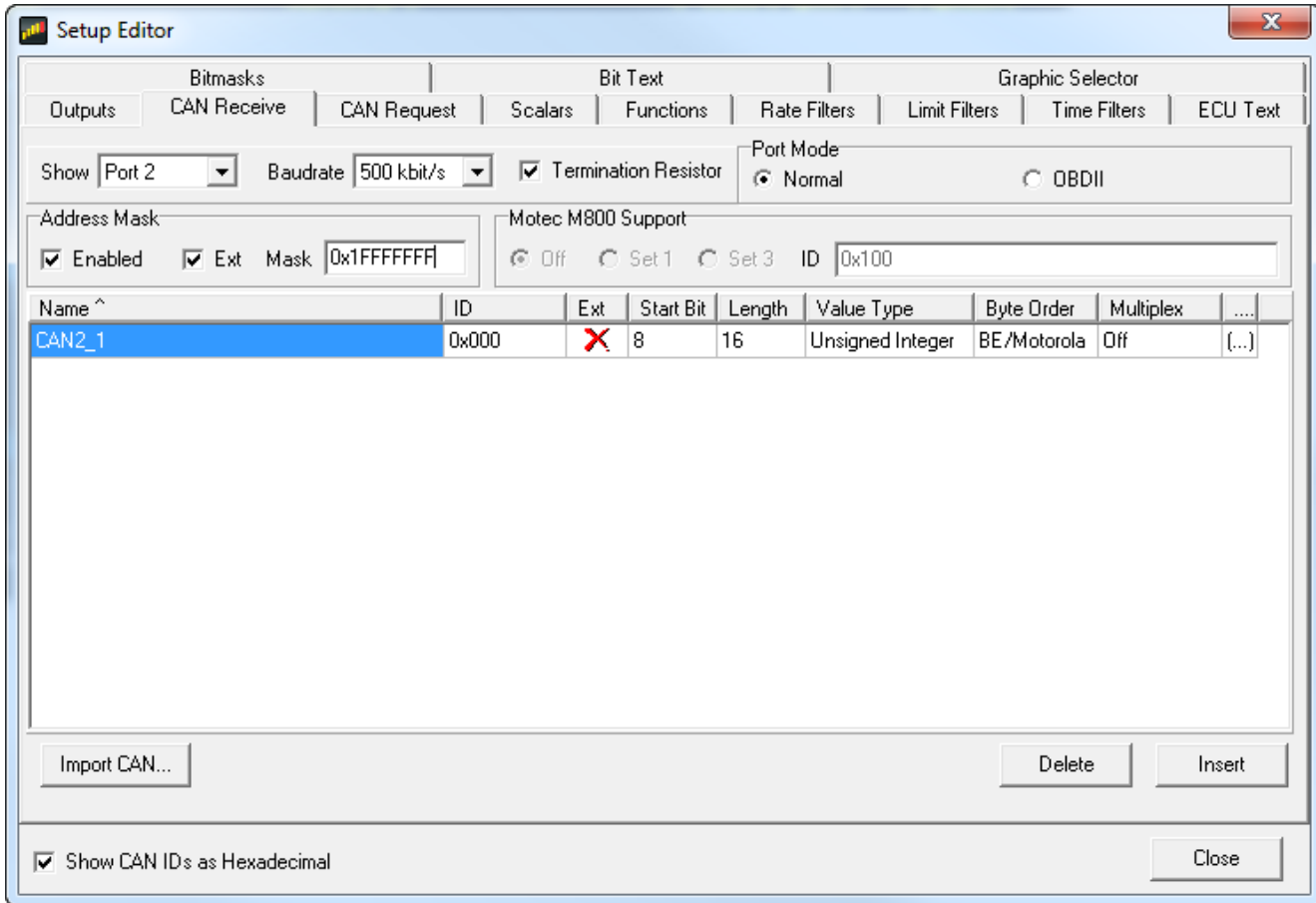
CH	CD7 Channel Name
14	CamIntakePos
15	ECUAnalogInput0Voltage
16	ECUAnalogInput1Voltage
17	ECUAnalogInput2Voltage
18	ECUAnalogInput3Voltage
19	ECUAnalogInput4Voltage
20	ECUAnalogInput5Voltage
21	ECUAnalogInput6Voltage
22	ECUAnalogInput7Voltage
23	FuelEthanolFrequency
24	FuelEthanolContent
25	FuelTemp

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: 500 kbit/s

Termination Resistor: "ON"

Address Mask: "OFF"

M800 Support: "OFF"

Then click on "Import CAN" on the lower left and open the "Hondata_KPro_RevX" file and then just click "Import". There will now be 25 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. Among these channels will be the 8 generic ECUAnalogInputVoltages. You can rename these channels and apply a calibration to them to make them more useful.