

# Instruction Manual



## P/N 30-3509 1999–2001 Honda B-H-D Series OBD2b Infinity-6 and Infinity-8h\* Plug & Play Adapter Harness



### STOP!

**THIS PRODUCT HAS LEGAL RESTRICTIONS.**  
**READ THIS BEFORE INSTALLING/USING!**

THIS PRODUCT MAY BE USED SOLELY ON VEHICLES USED IN SANCTIONED COMPETITION WHICH MAY NEVER BE USED UPON A PUBLIC ROAD OR HIGHWAY, UNLESS PERMITTED BY SPECIFIC REGULATORY EXEMPTION. (VISIT THE "EMISSIONS" PAGE AT [HTTP://WWW.SEMASAN.COM/EMISSIONS](http://www.semasan.com/emissions) FOR STATE BY STATE DETAILS.)

IT IS THE RESPONSIBILITY OF THE INSTALLER AND/OR USER OF THIS PRODUCT TO ENSURE THAT IT IS USED IN COMPLIANCE WITH ALL APPLICABLE LAWS AND REGULATIONS. IF THIS PRODUCT WAS PURCHASED IN ERROR, DO NOT INSTALL AND/OR USE IT. THE PURCHASER MUST ARRANGE TO RETURN THE PRODUCT FOR A FULL REFUND.

THIS POLICY ONLY APPLIES TO INSTALLERS AND/OR USERS WHO ARE LOCATED IN THE UNITED STATES; HOWEVER CUSTOMERS WHO RESIDE IN OTHER COUNTRIES SHOULD ACT IN ACCORDANCE WITH THEIR LOCAL LAWS AND REGULATIONS.

**WARNING:** This installation is not for the tuning novice! Use this system with **EXTREME** caution! The AEM Infinity Programmable EMS allows for total flexibility in engine tuning. Misuse or improper tuning of this product can destroy your engine! If you are not well versed in engine dynamics and the tuning of engine management systems **DO NOT** attempt the installation. Refer the installation to an AEM-trained tuning shop or call 800-423-0046 for technical assistance.

**NOTE:** All supplied AEM calibrations, Wizards and other tuning information are offered as potential starting points only. **IT IS THE RESPONSIBILITY OF THE ENGINE TUNER TO ULTIMATELY CONFIRM IF THE CALIBRATION IS SAFE FOR ITS INTENDED USE.** AEM holds no responsibility for any engine damage that results from the misuse or mistuning of this product!

\*See next page for important information regarding the use of this harness with Infinity-8h

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## OVERVIEW

The 30-3509 AEM Infinity Adapter Kit was designed for the 1999-2001 Honda B-H-D Series OBD2b. This is a true standalone system that eliminates the use of the factory ECU. The use of this adapter makes the kit “plug and play” so no cutting or splicing wires is necessary. The base configuration files available for the Infinity EMS are starting points only and will need to be modified for every specific application.

The available AEM Infinity EMS part numbers for this adapter kit are:

- 30-7106 Infinity 506
- 30-7108 Infinity 508

## GETTING STARTED

Refer to the **10-7100 for EMS 30-7100 Infinity Quick Start Guide** for additional information on getting the engine started with the Infinity EMS. The base session is located in C:\Documents\AEM\Infinity Tuner\Sessions\Base Sessions

## DOWNLOADABLE FILES

Files can be downloaded from [www.aeminfinity.com](http://www.aeminfinity.com). An experienced tuner must be available to configure and manipulate the data before driving can commence. The Quick Start Guide and Full Manual describe the steps for logging in and registering at [www.aeminfinity.com](http://www.aeminfinity.com). These documents are available for download in the Support section of the AEM Electronics website:  
<http://www.aemelectronics.com/products/support/instructions>.

### **Downloadable Configuration files for 1999-2001 Honda B-H-D Series OBD2b**

- v96.X Inf-506 Universal
- v96.X Inf-508 Universal

## OPTIONS

### **30-3501-00 Honda Coil Adapter**

Ignition adapter to drive factory Honda distributor internal coil. **REQUIRED** for use with Honda distributor if not converting to a sequential coil-on-plug setup

### **30-2001 UEGO Wideband O2 Sensor**

Bosch LSU4.2 Wideband O2 Sensor that connects to AEM 30-3600 UEGO Wideband O2 Sensor Extension Harness

### **30-3600 UEGO Wideband O2 Sensor Extension Harness**

Extension harness to connect AEM UEGO Wideband O2 sensor to 6-pin Deutsch

### **30-3602 IP67 Logging Cable**

USB A-to-A extension cable: 39" long with right angled connector and bayonet style lock

## \*IMPORTANT INFINITY 508 INFORMATION

The primary difference between the **30-7106 Infinity 506** and **30-7108 Infinity 508** is that the 508 lacks Peak & Hold injector drivers to run low impedance fuel injectors. High impedance (saturated, high-z) fuel injectors must be used with the Infinity 508.

The Infinity 506 and Infinity 508 share a common pinout with the exception of four pins where the Infinity 508 has two each additional fuel injector and ignition coil drivers. Due to the additional fuel injector and ignition coil drivers, the 508 has two fewer digital inputs and lowside outputs. Use of this harness with an Infinity 508 will require slight modification and could result in loss of some plug and play function.

Infinity Pin	Infinity 506 Function	Infinity 508 Function	30-3509 PnP Honda Pin	Notes
<b>C1-3</b>	Lowside6	Injector7	B16	LS6/IAB on <b>Infinity 506</b> <u>or</u> Injector7 on <b>Infinity 508</b>
<b>C1-4</b>	Lowside7	Injector8	D2	Available LS7 on <b>Infinity 506</b> <u>or</u> Injector8 on <b>Infinity 508</b>
<b>C1-31</b>	Digital6	Coil7	Aux - 6	Turbo Speed [Hz] input on <b>Infinity 506</b> . <b>** Must de-pin for use with Infinity 508, Coil7 not used**</b>
<b>C1-32</b>	Digital7	Coil8	Unpopulated	Available Digital7 on <b>Infinity 506</b> , Coil8 not used on <b>Infinity 508</b> .

## INFINITY CONNECTORS

The AEM Infinity EMS uses the MX123 Sealed Connection System from Molex. AEM strongly recommends that users become familiar with the proper tools and procedures for working with these high density connectors before attempting any modifications. The entire Molex MX123 User Manual can be downloaded direct from Molex at:

[http://www.molex.com/mx\\_upload/family//MX123UserManual.pdf](http://www.molex.com/mx_upload/family//MX123UserManual.pdf)



## INFINITY ADAPTER HARNESS

Included with the 1999–2001 Honda B-H-D Series OBD2b kit is an adapter harness. This is used to make the connection between the AEM Infinity EMS and the Honda wiring harness plug and play. This is depicted below with the 80-pin connector and the Honda header. There are also a few other integrated connectors within this harness described below.



The gray Deutsch 6P DTM “LAMBDA” connector is for connecting a UEGO wideband Bosch LSU4.2 sensor (AEM 30-2001). The UEGO extension harness (AEM 30-3600) mates the adapter harness to the sensor.

The gray Deutsch 6P DTM “COIL” connector is for ignition output. Using with the included jumper connector runs distributor application. Coil-on-Plug conversion requires some custom wiring and setup with Infinity tuner software.

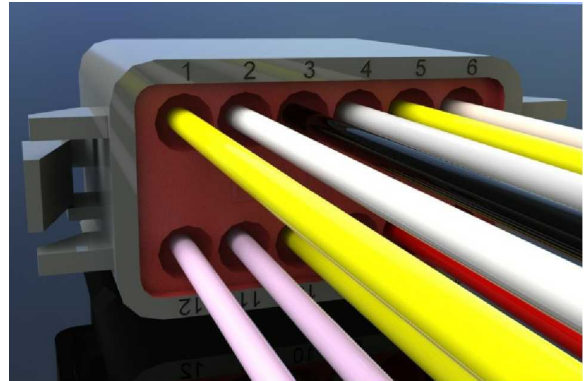
The gray Deutsch 6P DTM “LAMBDA” connector is for connecting a UEGO wideband Bosch LSU4.2 sensor (AEM 30-2001). The UEGO extension harness (AEM 30-3600) mates the adapter harness to the sensor.

The gray Deutsch 6P DTM “COIL” connector is for ignition output. This connector has been configured to allow the triggering of four individual coils by interfacing with this connector. AEM offers the **30-3501-00 Honda Coil Adapter** for use with the OEM Honda distributor’s internal coil. This adapter is required if the OEM distributor and ignition coil are to be used.

The gray Deutsch 4P DTM connector is used for “AEMNET”. AEMNet is an open architecture based on CAN 2.0 which provides the ability for multiple enabled devices, such as dashboards, data loggers, etc., to easily communicate with one another through two twisted cables (CAN+/CAN-).

The black Delphi 2-pin “FLASH” connector is used for secondary hardware flashing. The included shunt connector jumps the 2 wires together. Once initially flashed, the EMS is normally upgraded in the software, not using this connector.

The gray Deutsch 12P DTM “AUX” connector is used to adapt many common ancillary inputs and outputs easily. Included in the kit are a DTM 12P mating connector, 12 DTM terminals, and a DTM 12P wedgelock. If used, these components will need to be terminated by the installer or end user with 16–22awg wire (not included). Note: The pin numbering is molded into the connector, as shown.



## 30-2860 HONDA B-SERIES COIL-ON-PLUG CONVERSION KIT

The 30-3509 AEM Infinity Adapter Kit is ideal for use with AEM's Honda B-Series Coil-on-Plug conversion kit. Refer to the table below for pin locations to cross reference with the 30-2860 COP Conversion Kit instruction manual.

Once the appropriate wiring connections have been made, use the Infinity Tuner Setup Wizard to configure the ECU to run with the AEM EPM and for sequential COP coil triggers. There are no jumper changes required as with AEM Series1 and Series 2 ECUs.

### Setup Wizard

- Engine
  - § *Ignition Type* = Sequential (Coil on Plug)
  - § *Firing Order* = 1-3-4-2
- Cam/Crank
  - § *AEM EPM (Engine Position Module)*
- Ignition Sync: Follow instructions in AEM Infinity Quick Start Guide for proper ignition sync procedure.

PIN	30-7106 Infinity-6	30-7108 Infinity-8h	30-3509 Adapter Harness	EPM Harness	COP Harness
Coil 1	C1-14	C1-14	Coil Connector - 1	NA	Orange
Coil 2	C1-13	C1-13	Coil Connector - 2	NA	Blue
Coil 3	C1-12	C1-12	Coil Connector - 3	NA	Pink
Coil 4	C1-11	C1-11	Coil Connector - 4	NA	Gray
Cam	C1-26	C1-26	C1-26	White	NA
Crank	C1-25	C1-25	C1-25	Green	NA
Pwr Gnd	C1-33, C1-43, C1-46, C1-67	C1-33, C1-43, C1-46, C1-67	C1-46, C1-67	Drain	NA
Sw +12	C1-63, C1-68	C1-63, C1-68	Aux Connector - 8	Red	NA
Sensor Gnd	C1-23, C1-24	C1-23, C1-24	Aux Connector - 3	Black	NA

# PINOUTS

## Infinity Pinouts

<b>Dedicated</b>	<b>Dedicated and not reconfigurable</b>
<b>Assigned</b>	<b>Assigned but reconfigurable</b>
<b>Available</b>	<b>Available for user setup</b>
<b>Not Applicable</b>	<b>Not used in this configuration</b>
<b>Required</b>	<b>Required for proper function</b>

Infinity Pin	Infinity Assignment	Honda Pin	Honda Description	Infinity Hardware Specification	Notes
1	LS 4	A17	A/C Clutch Relay	Lowside switch, 4A max, No internal fly back diode.	See Setup Wizard Page "LowSide Assignment Tables" for output assignment and 2D table "LS4_Duty [%]" for on/off activation.
2	LS 5	A19	Engine Speed Pulse	Lowside switch, 4A max with internal fly back diode. Inductive load should NOT have full time power.	The tachometer is pre-calibrated using a combination of the LS5_Freq [Hz] 1-axis table and the LS5_Duty [%] 2-axis table.
3	LS 6	B16*	---	Lowside switch, 4A max with internal fly back diode. Inductive load should NOT have full time power.	See Wizard page "LowSide Assignment Tables" for output assignment. *Spare injector output Injector 7 for Infinity 8h.
4	LS 7	D2*	---	Lowside switch, 4A max, No internal fly back diode.	See Wizard page "LowSide Assignment Tables" for output assignment. *Spare injector output Injector 8 for Infinity 8h.
5	UEGO1 Heat	---	---	Bosch UEGO controller	Lowside switch for UEGO heater control. Connect to pin 4 of Bosch UEGO sensor. NOTE that pin 3 of the sensor is heater (+) and must be powered by a fused/switched 12V supply.
6	UEGO1 IA	---	---	Bosch UEGO controller	Trim Current signal. Connect to pin 2 of Bosch UEGO sensor
7	UEGO1 IP	---	---	Bosch UEGO controller	Pumping Current signal. Connect to pin 6 of Bosch UEGO sensor
8	UEGO1 UN	---	---	Bosch UEGO controller	Nernst Voltage signal. Connect to pin 1 of Bosch UEGO sensor
9	UEGO1 VM	---	---	Bosch UEGO controller	Virtual Ground signal. Connect to pin 5 of Bosch UEGO sensor.
10	+12V Perm Power	B21	Voltage Back Up	Dedicated power management CPU	Full time battery power. MUST be powered before the ignition switch input is triggered.
11	Coil 4		Ignition Coil Pulse No. 4	25 mA max source current	0–5V falling edge fire. Do NOT connect directly to coil primary. Must use an ignitor or CDI that accepts a falling edge fire signal.
12	Coil 3		Ignition Coil Pulse No. 3	25 mA max source current	0–5V falling edge fire. Do NOT connect directly to coil primary. Must use an ignitor or CDI that accepts a falling edge fire signal.

Infinity Pin	Infinity Assignment	Honda Pin	Honda Description	Infinity Hardware Specification	Notes
13	Coil 2		Ignition Coil Pulse No. 2	25 mA max source current	0–5V falling edge fire. Do NOT connect directly to coil primary. Must use an ignitor or CDI that accepts a falling edge fire signal.
14	Coil 1	B13	Ignition Coil Pulse No. 1	25 mA max source current	0–5V falling edge fire. Do NOT connect directly to coil primary. Must use an ignitor or CDI that accepts a falling edge fire signal.
15	---	---	---	---	---
16	---	---	---	---	---
17	VR0 (+) - Crank	C9	CKP -	Differential Variable Reluctance Zero Cross Detection	See Setup Wizard page Cam/Crank for options.
18	VR0 (-) - Crank	C8	CKP +	Differential Variable Reluctance Zero Cross Detection	See Setup Wizard page Cam/Crank for options.
19	VR1 (-) - Cam	C29	TDC1 +	Differential Variable Reluctance Zero Cross Detection	See Setup Wizard page Cam/Crank for options.
20	VR1 (+) - Cam	C30	TDC1 -	Differential Variable Reluctance Zero Cross Detection	See Setup Wizard page Cam/Crank for options.
21	LS 2	A20	Radiator Fan Control	Lowside switch, 4A max, No internal flyback diode.	See Setup Wizard Page "LowSide Assignment Tables" for output assignment and 2D table "LS2_Duty [%]" for on/off activation.
22	LS 3	B23	Idle Air Control Valve	Lowside switch, 4A max with internal flyback diode. Inductive load should NOT have full time power.	See Setup Wizard page and corresponding Tables for Idle Air Control.
23	Sensor GND	C7	Sensor Ground 1	Dedicated analog ground	Analog 0–5V sensor ground
24	Sensor GND	C18	Sensor Ground 2	Dedicated analog ground	Analog 0–5V sensor ground also found on aux connector
25	Digital 0 - Crank	---	---	10K pullup to 12V. Will work with ground or floating switches.	Not used for this application
26	Digital 1 - Cam1	---	---	10K pullup to 12V. Will work with ground or floating switches.	Not used for this application
27	Digital 2 - Cam2	---	---	10K pullup to 12V. Will work with ground or floating switches.	Not used for this application
28	Digital 3 – Flex Fuel	---	---	10K pullup to 12V. Will work with ground or floating switches.	Found on the Aux Connector. Input can be assigned to different pins. See Setup Wizard page Input Function Assignments for input mapping options.
29	Digital 4 - VSS#1	C23	Vehicle Speed Sensor	10K pullup to 12V. Will work with ground or floating switches.	See Setup Wizard page Vehicle Speed for calibration constant.
30	Digital 5 -	A27	A/C Switch Signal	10K pullup to 12V. Will work with ground or floating switches.	See Setup Wizard Input Function Assignments page for A/C activation.
31	Digital 6 – Turbo Speed	---	---	10K pullup to 12V. Will work with ground or floating switches.	Found on the Aux Connector. Input can be assigned to different pins. See Setup Wizard page Input Function Assignments for input mapping options. *Coil 7 for Infinity 8h.
32	Digital 7 -	---	---	10K pullup to 12V. Will work with ground or floating switches.	Input can be assigned to different pins. See Setup Wizard page Input Function Assignments for input mapping options.



Infinity Pin	Infinity Assignment	Honda Pin	Honda Description	Infinity Hardware Specification	Notes
					*Coil 8 for Infinity 8h
33	GND	B2	Power Ground 1	Power Ground	Connects to chassis ground and AEMNet
34	CAN A -	---	---	Dedicated High Speed CAN Transceiver	4P DTM Connector found in AEM adapter harness. Contact AEM for additional information.
35	CAN A +	---	---	Dedicated High Speed CAN Transceiver	4P DTM Connector found in AEM adapter harness. Contact AEM for additional information.
36	CAN B -	---	---	Dedicated High Speed CAN Transceiver	Not used
37	CAN B +	---	---	Dedicated High Speed CAN Transceiver	Not used
38	Temp 1 - Coolant Temp	C26	Engine Coolant Temp Sensor	12 bit A/D, 2.49K pullup to 5V	See "Coolant Temperature" Setup Wizard for selection.
39	Temp 2 - Air Temp (Manifold)	C25	Intake Air Temp Sensor	12 bit A/D, 2.49K pullup to 5V	See "Air Temperature" Setup Wizard for selection.
40	Temp 3 - Oil Temp	---	---	12 bit A/D, 2.49K pullup to 5V	Found on the Aux Connector. 0–5V analog signal.
41	LS 0	A16	Fuel Pump Relay	Lowside switch, 4A max, No internal flyback diode.	Switched ground. Will prime for 2 seconds at key on and activate if RPM > 0.
42	LS 1	---	---	Lowside switch, 4A max with internal flyback diode. Inductive load should NOT have full time power.	Found in Aux Connector. See Setup Wizard page Boost Control for options. Monitor BoostControl [%] channel for output state.
43	GND	B10	Power Ground 2	Power Ground	Connect directly to battery ground.
44	Knock 0	C3	Knock Sensor	Dedicated knock signal processor	See Knock in Setup Wizard for options.
45	Knock 1			Dedicated knock signal processor	See Knock in Setup Wizard for options.
46	GND			Power Ground	Connect directly to battery ground.
47	12V_Relay_Control	---	---	0.7A max ground sink for external relay control	Connects to relay found in AEM adapter. Will activate at key ON and at key OFF according to the configuration settings.
48	+12V_SW (Ign Switch)	B1	Power Source 1	10K pulldown	Full time battery power must be available at infinity pin 10 before this input is triggered.
49	+5V_Out	C19	Sensor Voltage 1	Regulated, fused +5V supply for sensor power	Analog sensor power and found on auxiliary connector
50	+5V_Out	C28	Sensor Voltage 2	Regulated, fused +5V supply for sensor power	Analog sensor power
51	Ana7 - Throttle	C27	Throttle Position Sensor	12 bit A/D, 100K pullup to 5V	0–5V analog signal. Do not connect signals referenced to +12V as this can permanently damage the ECU. See the Setup Wizard Set Throttle Range page for automatic min/max calibration.
52	Ana8 - Map	C17	MAP Sensor	12 bit A/D, 100K pullup to 5V	0–5V analog signal. See the Manifold Pressure in Setup Wizard for setup and calibration.

Infinity Pin	Infinity Assignment	Honda Pin	Honda Description	Infinity Hardware Specification	Notes
53	Ana9 - Fuel Press	---	---	12 bit A/D, 100K pullup to 5V	0–5V analog signal found on the Auxiliary Connector
54	VR2 (+) - Driven Wheel	---	---	Differential Variable Reluctance Zero Cross Detection	See Driven Wheel Speed Calibration in the Setup Wizard Vehicle Speed page.
55	VR2 (-) - Driven Wheel	---	---	Differential Variable Reluctance Zero Cross Detection	See Driven Wheel Speed Calibration in the Setup Wizard Vehicle Speed page.
56	VR3 (-) - Tag Wheel	---	---	Differential Variable Reluctance Zero Cross Detection	See Non Driven Wheel Speed Calibration in the Setup Wizard Vehicle Speed page.
57	VR3 (+) - Tag Wheel	---	---	Differential Variable Reluctance Zero Cross Detection	See Non Driven Wheel Speed Calibration in the Setup Wizard Vehicle Speed page.
58	HS Out 0	B12	VTEC solenoid Valve	0.7A max, High Side Solid State Relay	+12V High Side Drive. See Setup Wizard Honda VTEC page for options.
59	Stepper_1B	---	---	Automotive, Programmable Stepper Driver, up to 28V and $\pm 1.4A$	Be sure that each internal coil of the stepper motor is properly paired with the 1A/1B and 2A/2B ECU outputs. Supports Bi-Polar stepper motors only.
60	Stepper_2B	---	---	Automotive, Programmable Stepper Driver, up to 28V and $\pm 1.4A$	Be sure that each internal coil of the stepper motor is properly paired with the 1A/1B and 2A/2B ECU outputs. Supports Bi-Polar stepper motors only.
61	HBridge0_0	---	---	5.0A max Throttle Control Hbridge Drive	
62	HBridge0_1	---	---	5.0A max Throttle Control Hbridge Drive	
63	+12V	---	---	Main Power	12 volt power from relay powers the Infinity, Lambda sensor, and AEMNet
64	Injector 6	B19*	---	Saturated or peak and hold, 3A max continuous	Spare injector output Injector 6 *No peak and hold injector for Infinity 8h
65	Injector 5	D1*	---	Saturated or peak and hold, 3A max continuous	Spare injector output Injector 5 *No peak and hold injector for Infinity 8h
66	Injector 4	B5	Injector 4	Saturated or peak and hold, 3A max continuous	Injector 4 *No peak and hold injector for Infinity 8h
67	GND	---	---	Power Ground	Connect directly to ground.
68	+12V	---	---	Main Power	12 volt power from relay powers the Infinity
69	Ana19 - APP2	---	---	12 bit A/D, 100K pullup to 5V	0–5V analog signal. Do not connect signals referenced to +12V as this can permanently damage the ECU.
70	Ana18 - APP1	---	---	12 bit A/D, 100K pullup to 5V	0–5V analog signal. Do not connect signals referenced to +12V as this can permanently damage the ECU.
71	Ana16 - Mode SW	---	---	12 bit A/D, 100K pullup to 5V	0–5V analog signal. Use +5V Out pins as power supply and Sensor Ground pins as the low reference. Do not connect signals referenced to +12V as this can permanently damage the ECU. See the 1D lookup table 'Mode Switch' for input state. Also assignable to multiple functions. See Setup Wizard for details.

Infinity Pin	Infinity Assignment	Honda Pin	Honda Description	Infinity Hardware Specification	Notes
72	Harness_Flash_Enable	---	---	10K pulldown	Not usually needed for automatic firmware updates through Infinity Tuner. If connection errors occur during update, jump the 12V Flash Connector before proceeding with upgrade. Disconnect the 12V Flash Connector after the update.
73	Ana13 - Oil Press	---	---	12 bit A/D, 100K pullup to 5V	0–5V analog signal found on the Auxiliary Connector
74	Ana11 - Shift SW	---	---	12 bit A/D, 100K pullup to 5V	0–5V analog signal found on the Auxiliary Connector
75	Ana10	---	---	12 bit A/D, 100K pullup to 5V	0–5V analog signal found on the Auxiliary Connector
76	Injector 3	B4	Injector 3	Saturated or peak and hold, 3A max continuous	Injector 3 *No peak and hold injector for Infinity 8h
77	Injector 2	B3	Injector 2	Saturated or peak and hold, 3A max continuous	Injector 2 *No peak and hold injector for Infinity 8h
78	Injector 1	B11	Injector 1	Saturated or peak and hold, 3A max continuous	Injector 1 *No peak and hold injector for Infinity 8h
79	Stepper_2A	---	---	Automotive, Programmable Stepper Driver, up to 28V and $\pm 1.4A$	Be sure that each internal coil of the stepper motor is properly paired with the 1A/1B and 2A/2B ECU outputs. Supports Bi-Polar stepper motors only.
80	Stepper_1A	---	---	Automotive, Programmable Stepper Driver, up to 28V and $\pm 1.4A$	Be sure that each internal coil of the stepper motor is properly paired with the 1A/1B and 2A/2B ECU outputs. Supports Bi-Polar stepper motors only.

## AUX Connector Pinout

Deutsch Pin	Infinity Pin	Wire Color	Pin Name	Default Pin Function
1	53	Black	Analog 9	Fuel Pressure
2	40	Black	Analog_In_Temp_3	Oil Temperature
3	23	Black	AGND	Sensor Ground
4	49	Black	+5V_OUT	Sensor +5V
5	73	Black	Analog_In_13	Oil Pressure
6	31	Black	Digital_In_6	Turbo Speed (Hz)
7	42	Black	LS1	Boost Control
8	63	Black	+12V	+12V
9	28	Black	Digital_In_3	Flex Fuel Sensor (Hz)
10	71	Black	Analog_In_16	Mode Switch
11	75	Black	Analog_In_10	Baro Pressure
12	74	Black	Analog_In_11	Shift Switch

## Miscellaneous Pinouts

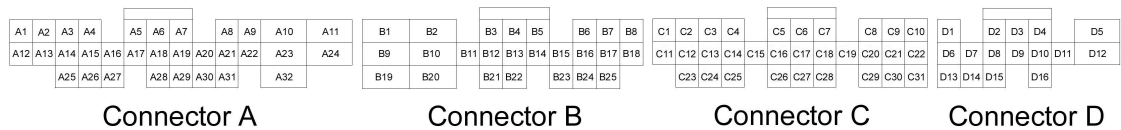
LAMBDA		
Deutsch Pin	Infinity Pin	Default Pin Function
1	8	UEGO1 UN
2	6	UEGO1 IA
3	63	+12V
4	5	UEGO1 Heat
5	9	UEGO1 VM
6	7	UEGO1 IP

COIL		
Deutsch Pin	Pin	Default Pin Function
1	Infinity 14	Coil 1
2	Infinity 13	Coil 2
3	Infinity 12	Coil 3
4	Infinity 11	Coil 4
5	Infinity 33	Ground
6	Honda B13	Distributor ICM

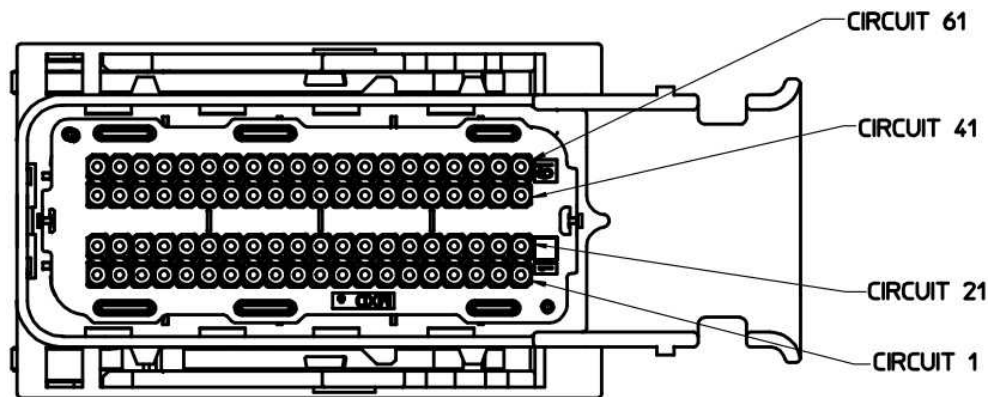
AEMNet		
Deutsch Pin	Infinity Pin	Default Pin Function
1	35	CAN A+
2	34	CAN A-
3	63	+12V
4	33	Ground

FLASH ENABLE		
Delphi Pin	Infinity Pin	Default Pin Function
A	10	Permanent Power
B	72	Harness Flash Enable

## Honda Pin Numbering



## Infinity Pin Numbering



Viewed from Wire Side

## 12 MONTH LIMITED WARRANTY

Advanced Engine Management Inc. warrants to the consumer that all AEM High Performance products will be free from defects in material and workmanship for a period of twelve (12) months from date of the original purchase. Products that fail within this 12-month warranty period will be repaired or replaced at AEM's option, when determined by AEM that the product failed due to defects in material or workmanship. This warranty is limited to the repair or replacement of the AEM part. In no event shall this warranty exceed the original purchase price of the AEM part nor shall AEM be responsible for special, incidental or consequential damages or cost incurred due to the failure of this product. Warranty claims to AEM must be transportation prepaid and accompanied with dated proof of purchase. This warranty applies only to the original purchaser of product and is non-transferable. All implied warranties shall be limited in duration to the said 12-month warranty period. Improper use or installation, accident, abuse, unauthorized repairs or alterations voids this warranty. AEM disclaims any liability for consequential damages due to breach of any written or implied warranty on all products manufactured by AEM. Warranty returns will only be accepted by AEM when accompanied by a valid Return Merchandise Authorization (RMA) number. Product must be received by AEM within 30 days of the date the RMA is issued.

UEGO oxygen sensors are considered wear items and are not covered under warranty.

Please note that before AEM can issue an RMA for any electronic product, it is first necessary for the installer or end user to contact the EMS tech line at 1-800-423-0046 to discuss the problem. Most issues can be resolved over the phone. Under no circumstances should a system be returned or a RMA requested before the above process transpires.

AEM will not be responsible for electronic products that are installed incorrectly, installed in a non-approved application, misused, or tampered with.

Any AEM electronics product can be returned for repair if it is out of the warranty period. There is a minimum charge of \$50.00 for inspection and diagnosis of AEM electronic parts. Parts used in the repair of AEM electronic components will be extra. AEM will provide an estimate of repairs and receive written or electronic authorization before repairs are made to the product.