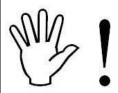
Instruction Manual



P/N 30-3501 1992–1995 Honda B-H-D Series OBD1 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 <u>SOLELY</u> 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 <u>HTTP://</u>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, <u>DO NOT</u> INSTALL AND/OR USE IT. THE PURCHASER <u>MUST</u> 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 30-3501 AEM Infinity Adapter Kit was designed for the 1992–1995 Honda B-H-D Series OBD1. 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-6
- 30-7108 INFINITY-8h

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. 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. These documents are available for download in the Support section of the AEM Electronics website: http://www.aemelectronics.com/ products/support/instructions.

Downloadable files for 1992-1995 Honda B-H-D Series OBD1

- 7106-XXXX-75 Infinity-6 (XXXX = serial number)
- 7108-XXXX-76 Infinity-8h (XXXX = serial number)

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-8H INFORMATION

The primary difference between the **30-7106 Infinity-6** and **30-7108 Infinity-8h** is that the 8h lacks Peak & Hold injector drivers to run low impedance fuel injectors. <u>High impedance (saturated, high-z) fuel</u> injectors must be used with the Infinity-8h.

The Infinity-6 and Infinity-8h share a common pinout with the exception of four pins where the Infinity-8h has two each additional fuel injector and ignition coil drivers. Due to the additional fuel injector and ignition coil drivers, the 8h has two fewer digital inputs and lowside outputs. Use of this harness with an Infinity-8h will require slight modification and could result in loss of some plug and play function.

| Infinity Pin | Infinity-6 Function | Infinity-8h Function | 30-3501 PnP Honda Pin | Notes |
|-----------------|------------------------|-------------------------|-----------------------------|--|
| C1-3 | Lowside6 | Injector7 | A14 | LS6/IAB on Infinity-6 or Injector7 on Infinity-8h |
| C1-4 | Lowside7 | Injector8 | A16 | Available LS7 on Infinity-6 or Injector8 on Infinity-8h |
| C1-31 | Digital6 | Coil7 | Aux - 6 | Turbo Speed [Hz] input on Infinity-6. ** Must de-pin for use with Infinity-8h, Coil7 not used** |
| C1-32 | Digital7 | Coil8 | Unpopulated | Available Digital7 on Infinity-6, Coil8 not used on Infinity-8h. |

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



INFINITY ADAPTER HARNESS

Included with the 1992–1995 Honda B-H-D Series OBD1 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 Infinity connector and the Honda header. There are also a few other integrated connectors within this harness described below.



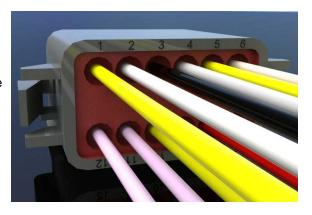
The gray Deutsch 6P DTM "LAMBDA" connector is for connecting a UEGO wideband Bosch LSU4.2 sensor (AEM 30-2001). The UEGO extension harness (AEM 30-3600) mates the adapter harness to the sensor.

The gray Deutsch 6P DTM "COIL" connector is for ignition output. 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 <u>required</u> 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 30-3501 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 | 30-3501 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 Pinout

| Dedicated | Dedicated and not reconfigurable | |
|----------------|----------------------------------|--|
| Assigned | Assigned but reconfigurable | |
| Available | Available for user setup | |
| Not Applicable | Not used in this configuration | |
| Required | Required for proper function | |

| Infinity Pin | Infinity Assignment | Honda Pin | Honda Description | Infinity Hardware Specification | Notes |
|-----------------|------------------------|-----------|------------------------------|---|--|
| 1 | LS 4 | A15 | 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 | | | Lowside switch, 4A max with internal fly back diode. Inductive load should NOT have full time power. | See Setup Wizard Page "LowSide Assignment Tables" for output assignment. |
| 3 | LS 6 | A14 | | Lowside switch, 4A max with internal fly back diode. Inductive load should NOT have full time power. | See Setup Wizard page "LowSide Assignment Tables" for output assignment. *Spare injector output Injector 7 for Infinity 8h. |
| 4 | LS 7 | A16 | | Lowside switch, 4A max, No internal fly back diode. | See Setup 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 power 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 | D1 | 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. |
| 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. |

| Infinity Pin | Infinity Assignment | Honda Pin | Honda Description | Infinity Hardware Specification | Notes |
|-----------------|----------------------------|-----------|------------------------------|--|--|
| 14 | Coil 1 | A21 | 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 | B16 | CKP - | Differential Variable Reluctance Zero Cross Detection | See Setup Wizard page Cam/Crank for options. |
| 18 | VR0 (-) - Crank | B15 | CKP + | Differential Variable Reluctance Zero Cross Detection | See Setup Wizard page Cam/Crank for options. |
| 19 | VR1 (-) - Cam | B11 | TDC1+ | Differential Variable Reluctance Zero Cross Detection | See Setup Wizard page Cam/Crank for options. |
| 20 | VR1 (+) - Cam | B12 | TDC1 - | Differential Variable Reluctance Zero Cross Detection | See Setup Wizard page Cam/Crank for options. |
| 21 | LS 2 | A12 | Radiator Fan Control | Lowside switch, 4A max, No internal fly back diode. | See Setup Wizard Page "LowSide Assignment Tables" for output assignment and 2D table "LS2_Duty [%]" for on/off activation. |
| 22 | LS 3 | A9 | Idle Air Control Valve | Lowside switch, 4A max with internal fly back diode. Inductive load should NOT have full time power. | See Setup Wizard page and corresponding Tables for Idle Air Control. |
| 23 | Sensor GND | D21 | Sensor Ground 1 | Dedicated analog ground | Analog 0-5V sensor ground |
| 24 | Sensor GND | D22 | 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 | B10 | 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 | B5 | 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. |

| Infinity Pin | Infinity Assignment | Honda Pin | Honda Description | Infinity Hardware Specification | Notes |
|-----------------|-------------------------------------|-----------|-------------------------------|--|---|
| 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. *Coil 8 for Infinity 8h. |
| 33 | GND | A23 | 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 | D13 | 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 (Manif old) | D15 | 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 | A7 | Fuel Pump Relay | Lowside switch, 4A max, No internal fly back 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 | A24 | Power Ground 2 | Power Ground | Connect directly to battery ground. |
| 44 | Knock 0 | D3 | 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_C ontrol | | | 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 | D19 | Sensor Voltage 1 | Regulated, fused +5V supply for sensor power | Analog sensor power and found on auxiliary connector |
| 50 | +5V_Out | D20 | Sensor Voltage 2 | Regulated, fused +5V supply for sensor power | Analog sensor power |
| 51 | Ana7 - Throttle | D11 | 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 | D17 | 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 (+) - Driv en Wheel | | | Differential Variable Reluctance Zero Cross Detection | See Driv en Wheel Speed Calibration in the Setup Wizard Vehicle Speed page. |
| 55 | VR2 (-) - Driv en Wheel | | | Differential Variable Reluctance Zero Cross Detection | See Driv en 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 | A4 | 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 ±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 ±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 | A6 | | Saturated or peak and hold, 3A max continuous | Spare injector output Injector 6 *No peak and hold injector for Infinity 8h |
| 65 | Injector 5 | A8 | | Saturated or peak and hold, 3A max continuous | Spare injector output Injector 5 *No peak and hold injector for Infinity 8h |
| 66 | Injector 4 | A2 | Injector 4 | Saturated or peak and hold, 3A max continuous | Injector 4 *No peak and hold injector for Infinity 8h |
| 67 | GND | | | Power Ground | Connects 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 found on the Auxiliary Connector |
| 72 | Harness_Flas h_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. |

| Infinity Pin | Infinity Assignment | Honda Pin | Honda Description | Infinity Hardware Specification | Notes |
|-----------------|------------------------|-----------|-------------------|--|--|
| 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 | A5 | Injector 3 | Saturated or peak and hold, 3A max continuous | Injector 3 *No peak and hold injector for Infinity 8h |
| 77 | Injector 2 | А3 | Injector 2 | Saturated or peak and hold, 3A max continuous | Injector 2 *No peak and hold injector for Infinity 8h |
| 78 | Injector 1 | A1 | 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 ±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 ±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_ln_Temp_3 | Oil Temperature |
| 3 | 23 | Black | AGND | Sensor Ground |
| 4 | 49 | Black | +5V_OUT | Sensor +5V |
| 5 | 73 | Black | Analog_ln_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_ln_3 | Flex Fuel Sensor (Hz) |
| 10 | 71 | Black | Analog_ln_16 | Mode Switch |
| 11 | 75 | Black | Analog_ln_10 | Baro Pressure |
| 12 | 74 | Black | Analog_ln_11 | Shift Sw itch |

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 A21 | Distributor ICM | | |

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

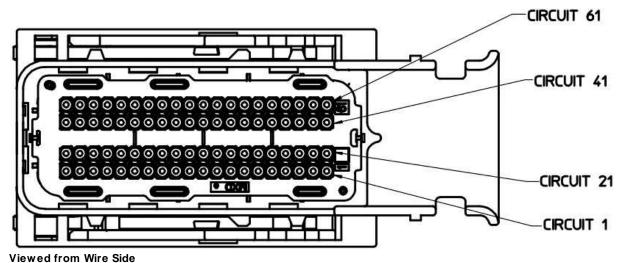
| FLASH ENABLE | | | | | | | | | | | | |
|--------------|--------------|----------------------|--|--|--|--|--|--|--|--|--|--|
| Delphi Pin | Infinity Pin | Default Pin Function | | | | | | | | | | |
| А | 10 | Permanent Power | | | | | | | | | | |
| В | 72 | Harness Flash Enable | | | | | | | | | | |

Honda Pin Numbering

| A1 | A3 | A5 | A7 | A9 | A11 | A13 | A1: | 5 A1 | 7 A1 | 19 A | 21 | A23 | A25 | В1 | ВЗ | B5 | В7 | В9 | B11 | B13 | B15 | C1 | СЗ | C5 | C7 | C9 | C11 | D1 | D3 | D5 | D7 | D9 | D11 | D13 | D15 | D17 | D19 | D21 |
|----|----|----|----|-----|-----|-----|-----|------|------|------|----|-----|-----|----|----|----|----|-----|-----|-----|-----|----|----|----|----|-----|-----|----|----|----|----|-----|-----|-----|-------|-----|-----|-----|
| A2 | A4 | A6 | A8 | A10 | A12 | A14 | A16 | 6 A1 | 8 A2 | 20 A | 22 | A24 | A26 | B2 | B4 | В6 | В8 | B10 | B12 | B14 | B16 | C2 | C4 | C6 | C8 | C10 | C12 | D2 | D4 | D6 | D8 | D10 | D12 | D14 | 1 D16 | D18 | D20 | D22 |

Connector A Connector B Connector C Connector D

Infinity Pin Numbering



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.

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.