WH01EM Conversion Harness Installation Guide

Wire Harness Instructions Version 1.0:

Below you will find instructions on how to install your Hybrid Racing 01-05 Honda Civic K-series conversion harnesses.

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PACKAGE CONTENTS: Conversion Harness, Install Guide, Zip Ties and Butt Connectors.
PARTS NEEDED: Stock EM harness for oxygen sensor connector, coolant temp connector.
TOOLS NEEDED: Crimp tool, wire stripper, 10mm socket, ratchet and pliers.
RECOMMENDED TOOLS: Soldering iron, solder, heat shrink and heat gun.

NOTE: If you are using a Type R engine harness it is recommended to lengthen the ECU connectors by 2'.

1. Begin by removing the battery, battery tray and fuse box.
2. Route the **K series engine harness** through the firewall on the passenger side utilizing the factory grommet. Start by inserting one connector at a time working your way up to the larger gray connector.
3. Take the Hybrid Racing Conversion harness and plug the Male blue connector into the female K series engine harness.
4. Plug the other end of the conversion harness into the stock EM wire harness, located near the ECU.

Oxygen Sensor Relay Wiring

On the Hybrid Racing conversion harness, you will find a relay with 3 extra wires labeled:

Yellow wire – 12v Key on

Connect this wire to a 12 volt source that only has 12 volts with the key in the "on" position. Check under dash fuse box for appropriate source.

Red Wire – 12v Constant

Connect this wire to a 12 volt source that has constant 12 volts at all time. Check under dash fuse box for appropriate source.

White Wire – E-Plug Pin 8

- On the **K series engine harness**, the “E” plug (small 31 pin white connector) has a 9 pin top row.
- Locate pin 8
- If there is no pin in slot 8 on the “E” plug unlock the plug by pulling the center lock out on the underside.
- Pin the white wire labeled E-Plug Pin 8 into slot 8 on the “E” plug.
- If there is an orange wire in slot 8, cut the wire and connect the white wire labeled E-Plug Pin 8 onto the ECU side of the wire.
- Disregard the other end of the orange wire.

Oxygen Sensor Wiring

NOTE: Even though we supply you with but connectors we highly recommend soldering all joints.

NOTE: If you are running a Kpro you do not need to run the secondary oxygen sensor wires. This sensor can be disabled in the Kpro software. Refer to your Kpro Help section on how to perform this task.

NOTE: The primary sensors located on the RSX Type S and Type R engines are wideband sensors and can not be replaced with any other sensor. Make sure to use the primary oxygen sensor from an RSX or equivalent.

19a. **Primary Oxygen sensor**: Located on your **Hybrid Racing conversion harness** are 2 sets of heat-shielded wire. Locate the one labeled primary. Next remove the Female O2 connector from your stock EG/DC engine harness (leaving 2-3 in of wire). Connect the plug to the **Hybrid Racing conversion harness** as outlined below. The first row of wires are the colors found on the Hybrid Racing shielded wire. The second row of wires are the colors that you should find on your K series oxygen sensor.

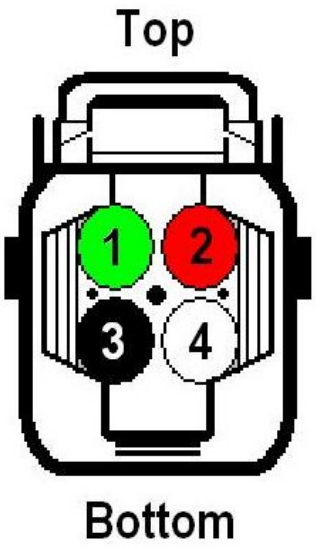
Female 02 Connector

-Green wire on the PRIMARY 02 wire into pin location 1

-Red wire on the PRIMARY 02 wire into pin location 2

-Black wire on the PRIMARY 02 wire into pin location 3

-White wire on the PRIMARY 02 wire into pin location 4



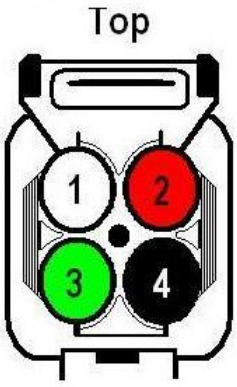
Wire side of the connector shown.

Hybrid Racing Harness	Primary Oxygen Sensor
Green	White
Red	Light Green
White	Black
Black	Black

19b. **Secondary Oxygen sensor**: Located on your hybrid racing harness are 2 sets of heat-shielded wire. Locate the one labeled secondary. Next remove the Male O2 connector from your stock EG/DC engine harness (leaving 2-3in of wire). Connect the plug to the **Hybrid Racing conversion harness** as outlined below. The first row of wires are the colors found on the Hybrid Racing shielded wire. The second row of wires are the colors that you should find on your K series oxygen sensor.

Male O2 Connector

- White wire on the Secondary O2 into Pin location 1
- Red wire on the Secondary O2 into Pin location 2
- Green wire on the Seconday O2 into Pin location 3
- Black wire on the Secondary O2 into Pin location 4



Wire side of the connector shown.

Hybrid Racing Harness	Secondary Oxygen Sensor
White	Grey
Red	Black
Green	White
Black	White

Trouble Shooting

How do I check my ECU codes?
Connect an OBD2 scan tool to the black connector (DLC) in your chassis. If you do not have access to a scan tool contact your local automotive shop or parts store for additional help.

I have a stored code P0600? My check engine light flash's a code 39?
All K series swaps will have a stored code p0600/Code 39 (Serial Communication Link Malfunction/Multiplex) unless disabled with a Hondata Kpro or other K series ECU software. This code does not throw a CEL and does not affect performance.

What is the Multiplex control unit?
The system controls these functions in the stock RSX/CIVIC SI chassis:

Entry light control	Wiper washer
Interlock system	Keyless/Power door lock
Temperature gauge	HVAC
Key in reminder	Lights on reminder
Seat Belt reminder	

To reduce the overall number of wires needed for the car Honda implemented a system using digital signals sent through the multiplex communication lines opposed to normal electrical signals sent through individual wires.

My car idles up and down?
Start by cleaning the idle air control valve located under the throttle body and make sure that you have adequate coolant in your radiator system.
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You have successfully completed your K series engine wiring!

If you have any questions or comments please email Info@hybrid-racing.com

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