Haltech
ENGINE MANAGEMENT SYSTEMS

High Output IGBT CHEVY / HEMI V8 Coil Harness Kit QUICK START GUIDE HT-130306

LIMITED WARRANTY

Lockin Pty Ltd trading as Haltech warrants the HaltechTM Programmable Fuel Injection System to be free from defects in material or workmanship for a period of 12 months from the date of purchase.

Proof of purchase, in the form of a bill of sale or receipted invoice, which indicates that the product is within the warranty period, must be presented to obtain warranty service. Lockin Pty Ltd trading as Haltech suggests that the purchaser retain the dealer's dated bill of sale as evidence of the date of retail purchase.

If the HaltechTM Programmable Fuel Injection System is found to be defective as mentioned above, it will be replaced or repaired if returned prepaid along with proof of purchase. This shall constitute the sole liability of Lockin Pty Ltd trading as Haltech.

To the extent permitted by law, the foregoing is exclusive and in lieu of all other warranties or representations, either expressed or implied, including any implied warranty of merchantability or fitness. In no event shall Lockin Pty Ltd trading as Haltech, be liable for special or consequential damages.

DISCLAIMER

Haltech will not be held responsible for any damage caused by the incorrect installation or tuning of this product. It is the installers responsibility to ensure the wiring connections and pinouts match that of the vehicle the unit is being installed into.

Haltech has taken all care to make sure the connections match the specified vehicles listed, but variations in wiring and connections on vehicles can occur and therefore this should be checked BEFORE the unit is installed.

Haltech highly recommends installation and tuning of this product is to be carried out by a professional, with an understanding on installing and tuning engine management systems. Misuse of this product can destroy your engine.

WARNING

This ECU is designed and sold for Racing use only. Using this product for street / road use may be prohibited by law. Please check with your local vehicle authority before using this product.

GENERAL INSTALLATION WARNING

Avoid open sparks, flames or operation of electrical devices near flammable substances.
Always disconnect the battery cables when doing electrical work on your vehicle.

Do not charge the battery with a 24 Volt truck charger or reverse the polarity of the battery or any charging unit. Do not charge the battery with the engine running as this could expose the ECU to an unregulated power supply that could destroy the ECU and other electrical equipment.

All fuel system components and wiring should be mounted away from heat sources, shielded if necessary and well ventilated. Disconnect the Haltech ECU from the electrical system whenever doing any arc welding on the vehicle by unplugging the wiring harness connector from the ECU.

After completing the installation, make sure that there are no fuel leaks, and no wiring left un-insulated in case a spark or short-circuit occurs and causes a fire. Also make sure that you follow all proper workshop safety procedures. If you're working underneath a jacked-up car, always use safety stands!

Haltech
High Powered IGBT
Inductive Coil Harness
Quick Start Guide

This Ignition Harness is designed to suit the Haltech High Output IGBT Inductive Coils and are part of our Terminated V8 Engine Harness Kits. This harness is designed to work with Chevy, Ford or Hemi style V8 engines.

The coils harness is a Direct Plug In to Haltech V8 Terminated Harness, Elite +REM 16 Injector Terminated Harness, and Elite + REM Fully Integrated Flying Lead Harness. This Kit Includes High Current Power Relay and Suits HT-020114 Coils (8 required).

Installation Notes

1. Coil Connectors are labeled for easy identification. This Harness suits Chevy/Hemi Cylinder orientation, with Even cylinders 1,3,5,7 on Bank 1 and Odd cylinders 2,4,6,8 on Bank 2.

2. The Coil harness connectors will plug into the coil for the appropriate cylinder i.e. Coil 1 will fire Cylinder 1, Coil 2 will fire Cylinder 2, Coil 3 will fire Cylinder 3 etc…

3. The Cylinder Head grounds MUST be connected to the cylinder head for the corresponding bank.

4. Be sure to mount coils and route Harness away from any sources of heat such as Exhaust Manifolds, Headers, Turbine Housings, etc…

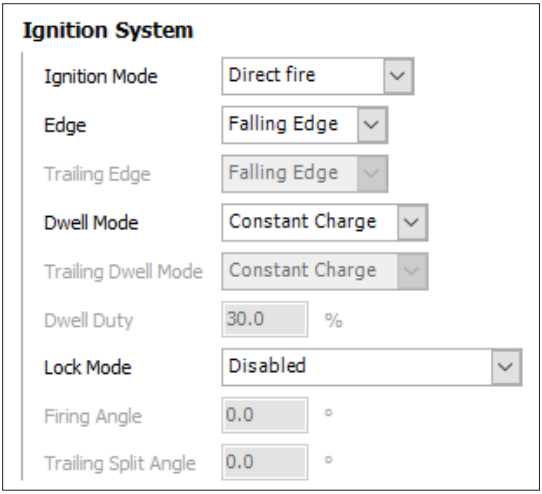
5. Ground the Black ground wires directly to the Battery, or to a main battery Ground lug which connects directly to the battery negative with ground cable, minimum 8awg.

6. A 75 Amp relay is included to power the coils. The eight (8) red coil power wires will connect to terminal 87 on the relay.

7. Terminal 30 on the relay must connect to the Battery Positive Lug Via minimum 8awg cable which is included in the kit.

8. The relay is activated by a signal and ground wires, terminating on a connector which plugs into the bottom of the relay.

IGBT Coil Ignition Settings



WARNING!

Please configure ignition settings BEFORE connecting coils to harness to prevent damage to coils.

Charge Time/Dwell Settings

Use the Haltech Elite ECU's 3D Dwell table to define the coil charge using an engine Load (Manifold Pressure) Axis. On High Power Drag Applications, using 16V Battery, with Cylinder power output exceeding 250hp/cylinder, set the charge time to 4ms at low load (i.e Idle, Cruise, While engine is in Vacuum) Increase to 6ms in Boost or at High RPM on Nitrous applications. Do Not exceed 7ms at High load.

Ignition Dwell Time | ms

Battery Voltage Volts

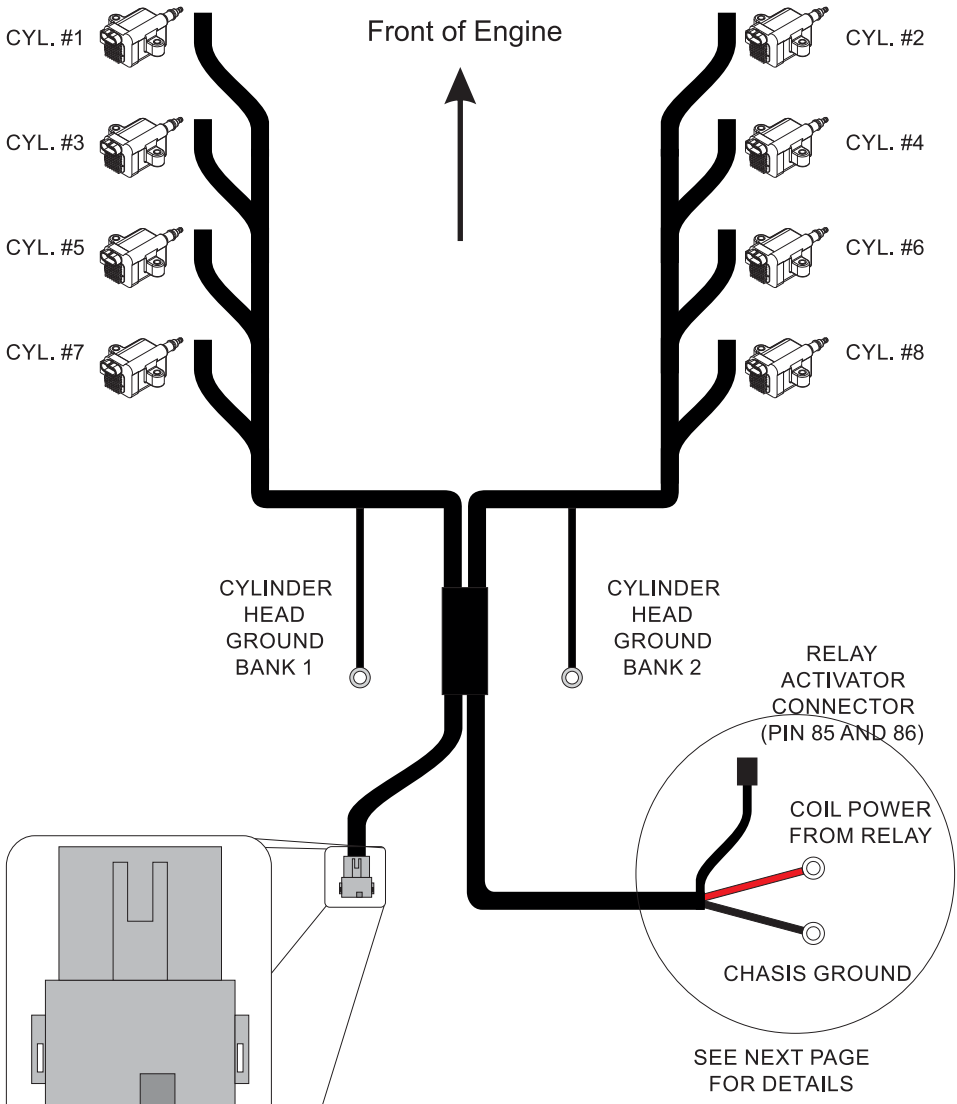
RPM / RPM	6.00	8.00	10.00	12.00	14.00	16.00
7000	8.000	7.625	7.250	6.875	6.500	6.500
5000	8.000	7.625	7.250	6.875	6.500	6.500
3000	8.000	7.250	6.500	5.750	5.000	5.000
1000	8.000	7.000	6.000	5.000	4.000	4.000
0	8.000	7.000	6.000	5.000	4.000	4.000

Target

WARNING!

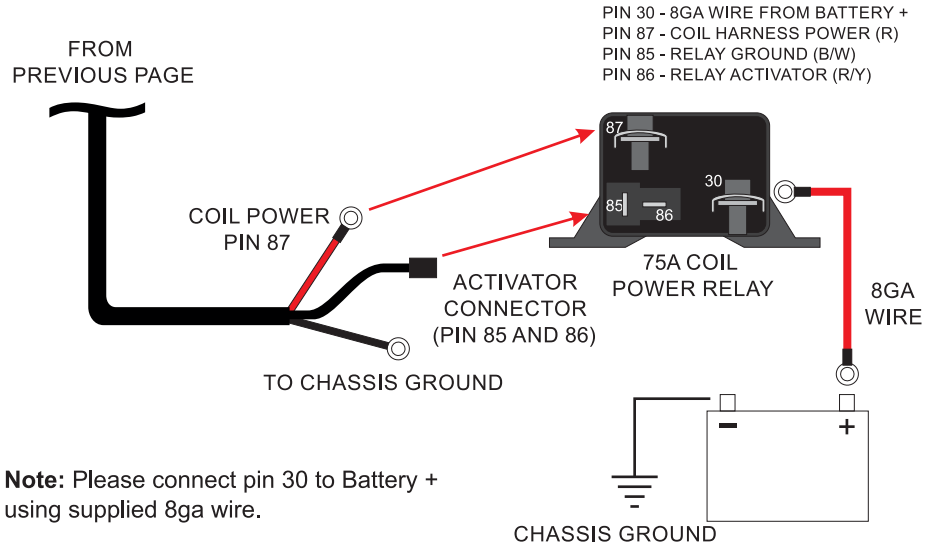
Do not exceed 5ms continuously for more than 30 sec or Coil Damage may occur.

Multicoil Inductive Setup - Typical SBC/BBC Engine



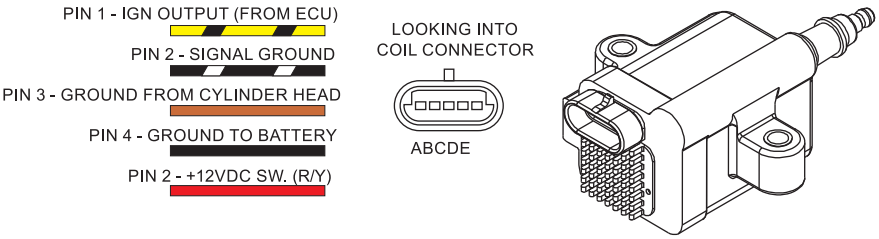
PIN 1 - IGN1 (Y/B)	PIN 7 - IGN7 (Y/V)
PIN 2 - IGN2 (Y/R)	PIN 8 - IGN8 (Y/GY)
PIN 3 - IGN3 (Y/O)	PIN 9 - NOT USED
PIN 4 - IGN4 (Y/G)	PIN 10 - NOT USED
PIN 5 - IGN5 (Y/BR)	PIN 11 - RELAY 12V (R/Y)
PIN 6 - IGN6 (Y/L)	PIN 12 - SIGNAL GROUND (B/W)

Coil Relay Wiring



Note: Please connect pin 30 to Battery + using supplied 8ga wire.

Coil Wiring



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Need more help?

Intl: +61 2 9729 0999
USA: +1 888 298 8116

Intl: support@haltech.com
USA: usasupport@haltech.com

www.haltech.com

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/HaltechEngineManagement

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