Haltech
ENGINE MANAGEMENT SYSTEMS

PLATINUM SERIES

High Power Igniter Module

4 channel - HT-020032

6 channel - HT-020036

8 channel - HT-020040

QUICK START GUIDE

WARNING - HALTECH OFF-ROAD USAGE POLICY

It is unlawful to tamper with your vehicle's emissions equipment.

Haltech products are designed and sold for sanctioned off-road/competition non-emissions controlled vehicles only. Using Haltech products for street/road use on public roads is prohibited by law. It is the responsibility of the installer and/or user of this product to ensure compliance with all applicable local and federal laws and regulations. Please check with your local vehicle authority before using any Haltech product

INSTALLATION OF HALTECH PRODUCTS

No responsibility whatsoever is accepted by Haltech for the fitment of Haltech Products. The onus is clearly on the installer to ensure that both their knowledge and the parts selected are correct for that particular application. Any damage to parts or consequential damage or costs resulting from the incorrect installation of Haltech products are totally the responsibility of the installer.

Always disconnect the battery when doing electrical work on your vehicle. Avoid sparks, open flames or use of electrical devices near flammable substances. Do not run the engine with a battery charger connected as this could damage the ECU and other electrical equipment. Do not overcharge the battery or reverse the polarity of the battery or any charging unit. Disconnect the Haltech ECU from the electrical system whenever doing any welding on the vehicle by unplugging the wiring harness connector from the ECU. After completing the ECU installation, make sure there is no wiring left un-insulated. Uninsulated wiring can cause sparks, short circuits and in some cases fire. Before attempting to run the engine ensure there are no leaks in the fuel system. All fuel system components and wiring should be mounted away from heat sources, shielded if necessary and well ventilated. Always ensure that you follow workshop safety procedures. If you're working underneath a jacked-up car, always use safety stands!

HALTECH LIMITED WARRANTY

Unless specified otherwise, Haltech warrants its products to be free from defects in material or workmanship for a period of 12 months from the date of purchase, valid in the original country of purchase only. 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. Haltech suggests that the purchaser retain the dealer's dated bill of sale/receipt as evidence of the date of retail purchase. If the Haltech product 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 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 Haltech be liable for special or consequential damages.

PRODUCT RETURNS

Please include a copy of the original purchase invoice along with the unused, undamaged product and its original packaging. Any product returned with missing accessory items or packaging will incur extra charges to return the item to a re-saleable condition. All product returns must be sent via a freight method with adequate tracking, insurance and proof of delivery services. Haltech will not be held responsible for product returns lost during transit. The sale of any sensor or accessory that is supplied in sealed packaging is strictly non-refundable if the sealed packaging has been opened or tampered with. This will be clearly noted on the product packaging. If you do not accept these terms please return the sensor in its original unopened packaging within 30 days for a full refund.

Returning a sensor or accessory product within 30 days of purchase: Product may be returned for credit or full refund. (Any sealed packaging must not have been opened or tampered with)

Returning a sensor or accessory product after 30 days of purchase: Product may be returned for credit only (no refunds given) and is subject to a 10% Restocking fee. (Any sealed packaging must not have been opened or tampered with)

Haltech High Power Igniter Module
Quick Start Guide

Congratulations on purchasing a Haltech High Power Igniter Module.
This product allows the user to easily upgrade their current transistor ignition system.

This quick start guide will walk you through installation of the Haltech High Power Module into a vehicle.

Available Modules

Haltech HPI 4 Channel - HT-020032
Haltech HPI 6 Channel - HT-020036
Haltech HPI 8 Channel - HT-020040

Included with Module

Quick Start Guide

Optional Accessories (Sold Separately)

Plug and Pin Set	HT-020041
2M Flying Lead Harness	HT-040025
Dual Post Coil	HT-020100

Installation

Location: The Haltech HPI module should be mounted within the vehicle cabin or alternatively high on the firewall within the engine bay with the connector facing down.

Wiring: Wiring the Haltech HPI module is easy. Each channel has both an input and output:

The input is connected the ignition signal from the ECU

The output is connected to the negative side of the corresponding coil

If the optional wiring harness is being used, the inputs and outputs are colour coded. ie. yellow wires are the inputs and white wires are the outputs the trace colours identify the channels. A full lisiting of pin allocations and colours can be found in the appendix.

Individual Channels are only capable of controlling 1 Coil each.

Unused channels can be left isolated and disconnected.

Do not connect the wiring to the HPI until you have configured the software first.

Software Setup: Please refer to the diagrams in this Quick Start Guide for wiring of typical applications.

Spark Mode: Select the configuration of your ignition system
Spark Edge: Falling
Dwell Mode: Constant Charge
Dwell Time: Coil Dependant

WARNING:
Damage can occur to the Coil and/or the Haltech HPI if the Dwell time is set to high. Please ensure your dwell time is set based on the coil manufacturers recommendations.

Typical Applications

Wiring colours shown here correspond to the Haltech Elite Series of ECU's and the optional HPI module flying lead harness. Refer to pin numbers and product pinout guides if wiring harness is not purchased.

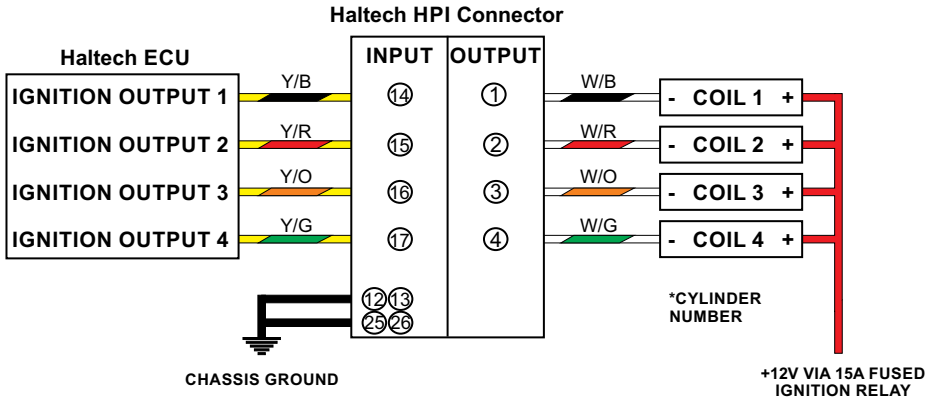


Figure 1 – 4 Cylinder Direct Fire

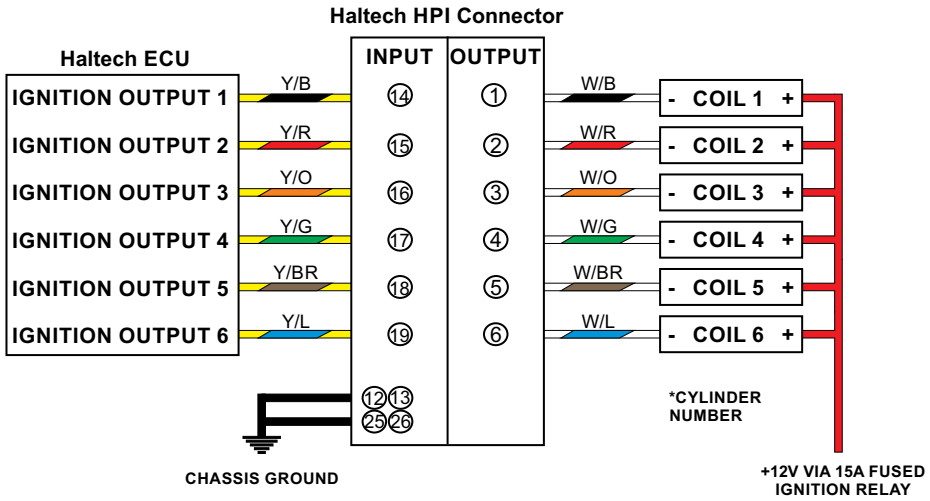


Figure 2 – 6 Cylinder Direct Fire

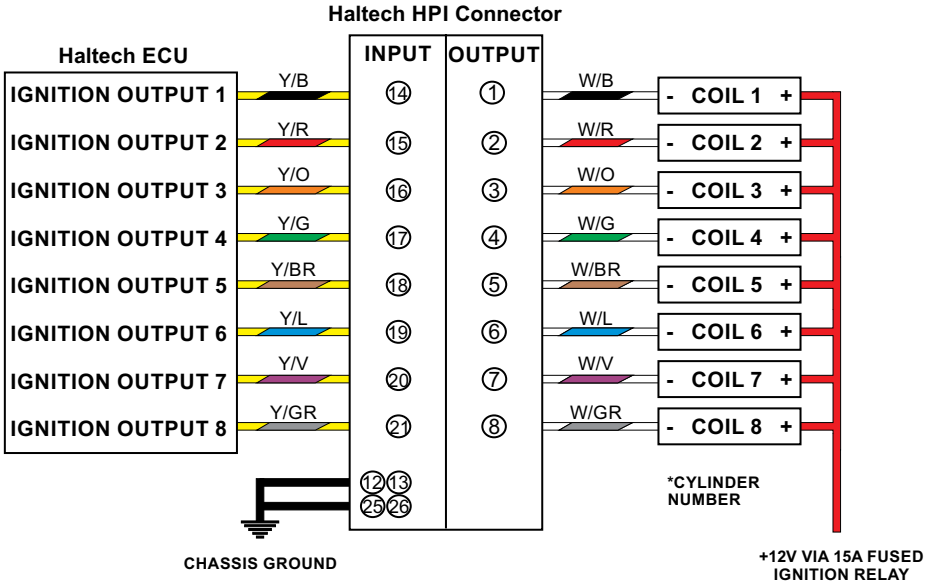


Figure 3 – 8 Cylinder Direct Fire

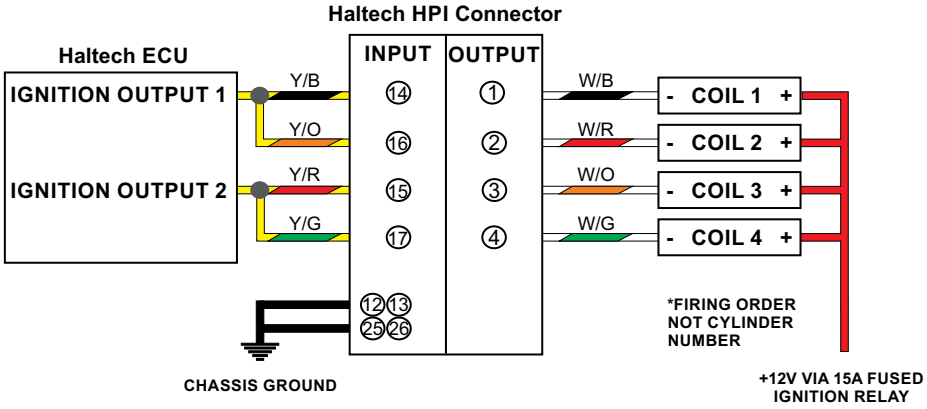


Figure 4 – 4 Cylinder Wasted Spark

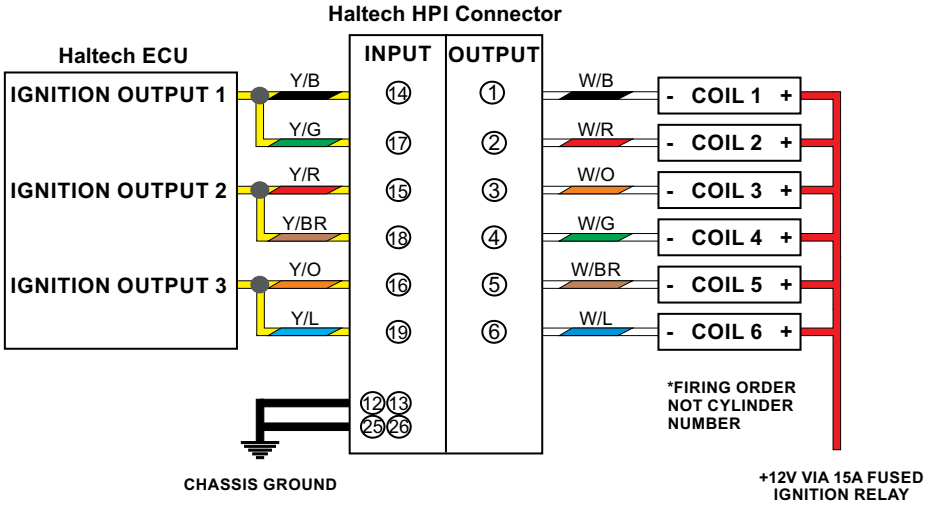


Figure 5 – 6 Cylinder Wasted Spark

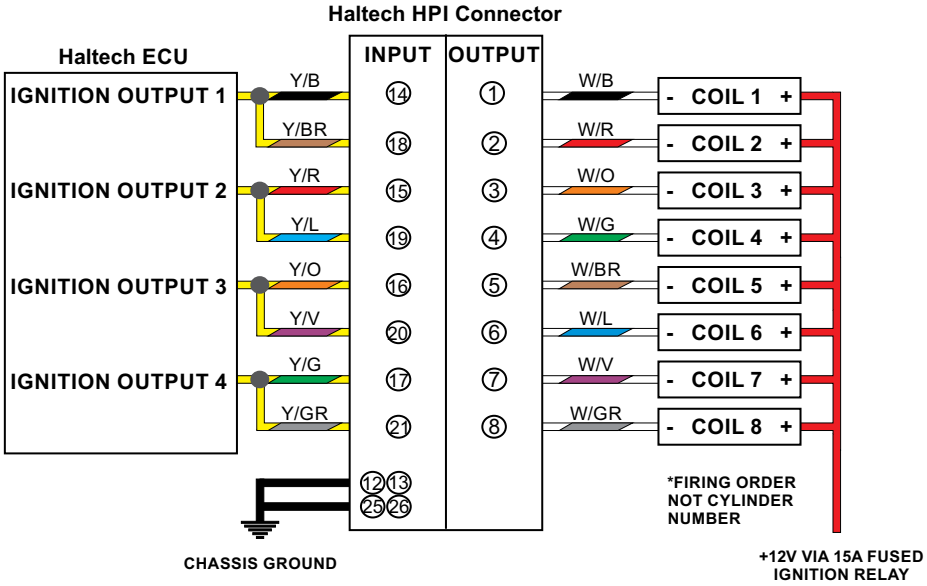


Figure 6 – 8 Cylinder Wasted Spark

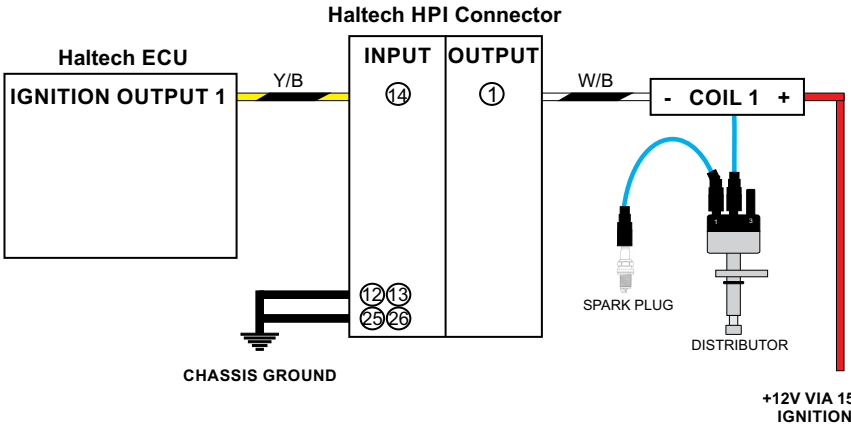


Figure 7 – Single Distributor

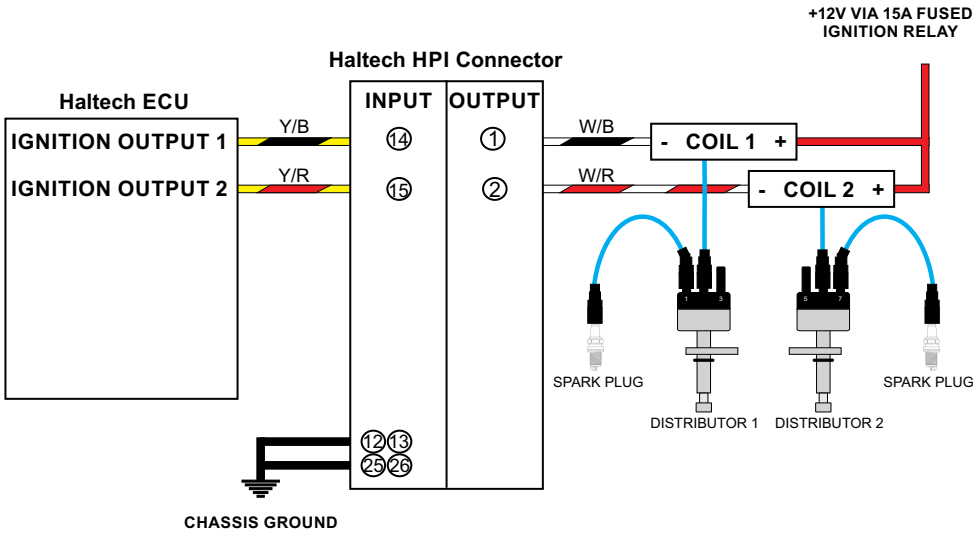


Figure 8 - Twin Distriutor

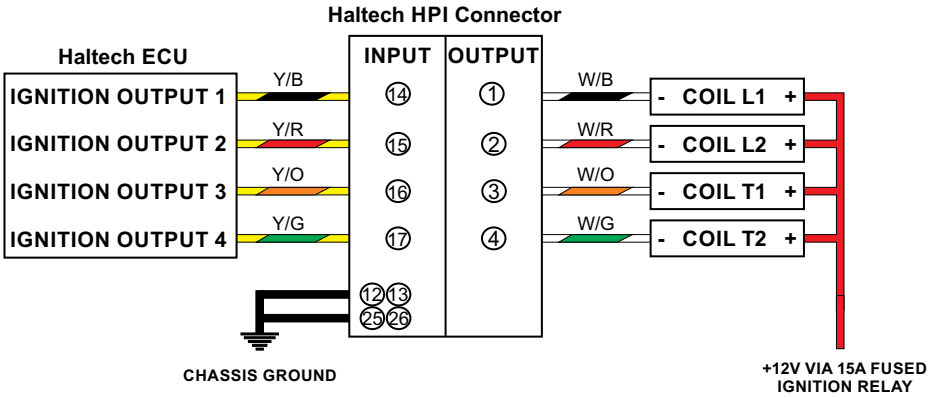


Figure 9 – 2 Rotor Direct Fire

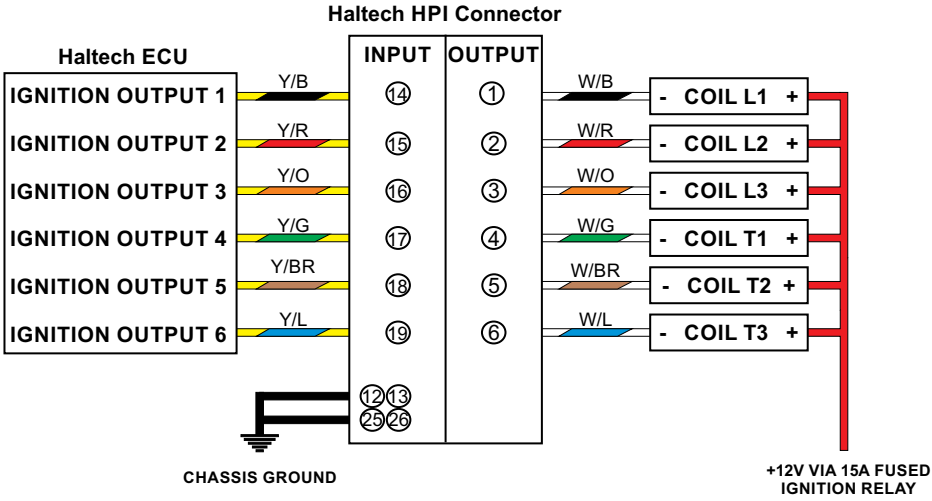


Figure 10 – 3 Rotor Direct Fire

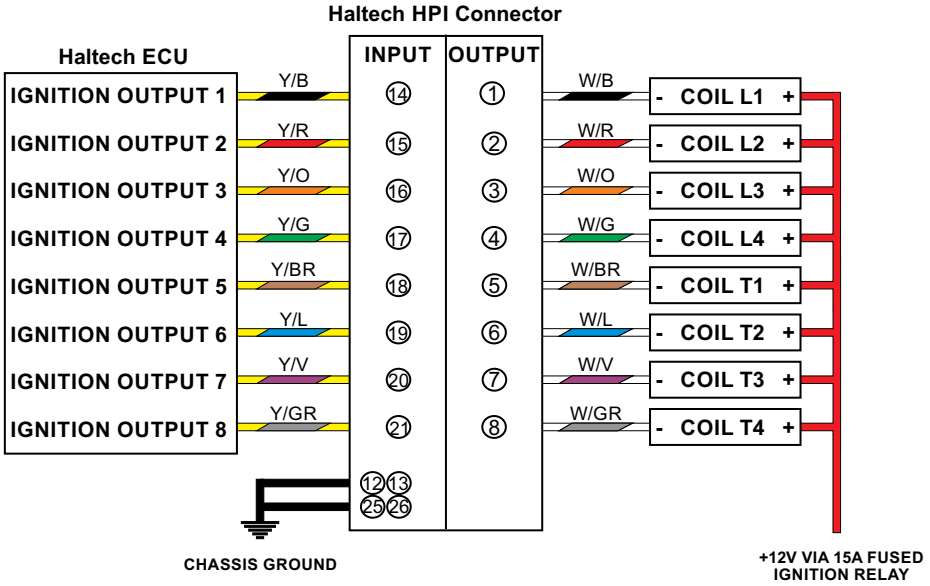
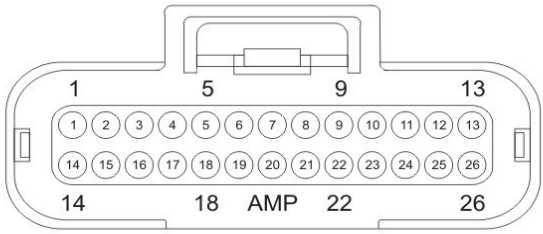


Figure 11 – 4 Rotor Direct Fire

Notes



REAR VIEW (WIRE SIDE)

HALTECH HIGH POWER IGNITION PINOUT		
HPI Pin #	***Colour***	***Description***
1	White/Black	Coil Negative - IGN 1
2	White/Red	Coil Negative - IGN 2
3	White/Orange	Coil Negative - IGN 3
4	White/Green	Coil Negative - IGN 4
5	White/Brown	Coil Negative - IGN 5
6	White/Blue	Coil Negative - IGN 6
7	White/Violet	Coil Negative - IGN 7
8	White/Grey	Coil Negative - IGN 8
9	-	Not used
10	-	Not used
11	-	Not used
12	Black	Chassis Ground
13	Black	Chassis Ground
14	Yellow/Black	ECU - IGN 1
15	Yellow/Red	ECU - IGN 2
16	Yellow/Orange	ECU - IGN 3
17	Yellow/Green	ECU - IGN 4
18	Yellow/Brown	ECU - IGN 5
19	Yellow/Blue	ECU - IGN 6
20	Yellow/Violet	ECU - IGN 7
21	Yellow/Grey	ECU - IGN 8
22	-	Not used
23	-	Not used
24	-	Not used
25	Black	Chassis Ground
26	Black	Chassis Ground

Figure 12 – Haltech HPI Pinout Diagram

V3.0

Need more help?

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