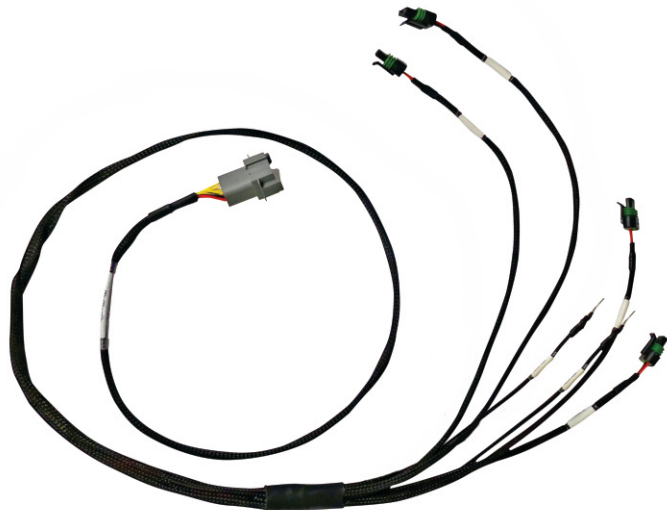




**ELITE 1000/1500**  
***Mazda 13B Series***  
***High Output IGN-1A Coil***  
***Terminated Ignition Harness***  
***(HT - 130336)***



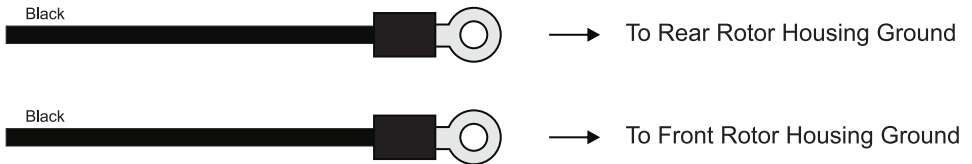
# Harness Overview

The Haltech Mazda 13B Series Ignition Harness connects to the Haltech IGN-1A ignition coils (HT-020114).

Installation of this harness is as follows:

- Position the harness in the engine bay
- Connect the Haltech Mazda 13B Series Ignition Harness to the terminated engine harness by the opposing 8 position connector within the harness labelled as "Ignition Outputs"
- Connect the Haltech IGN-1A coils (HT-020114) to the ignition harness. All outputs are labelled on the harness. Please connect these outputs to their respective cylinder / coil
- Connect the Rotor Housing Ground wire to their corresponding rotor housing.

Please Refer to the included quick start guide for more information.



**Figure 1 - Haltech IGN-1A Ignition Harness Rotor Housing Ground Connection**

# Software Setup

The Haltech IGN-1A ignition coils should be setup as follows within the Haltech ESP software ignition setup page (Figure 2):

**Ignition Mode:** Direct Fire

**Edge:** Falling Edge

**Dwell Mode:** Constant Charge

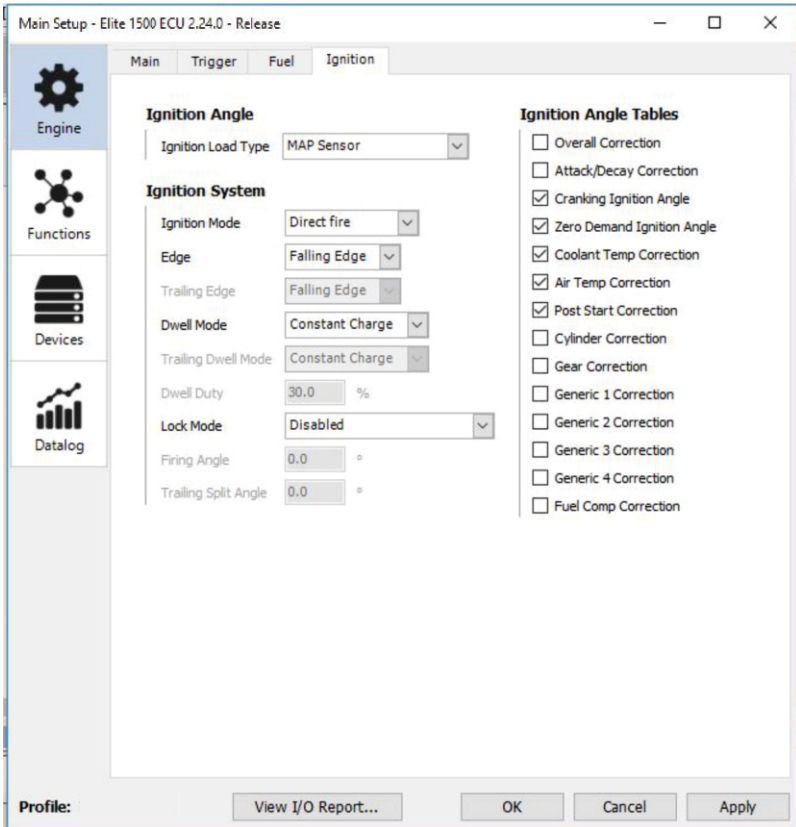


Figure 2 - Ignition Setup Page

Continue to next page for Dwell Time setup information

# Software Setup (Continued)

## Dwell Time

To setup a dwell time for ignition coils, double-click on Ignition System sub-menu within the ECU Navigator and select Dwell Time tab. An ignition dwell time table will appear on the screen. A typical dwell time table will have one axis. This axis is Battery Voltage. The dwell times for Haltech IGN-1A coils are outlined in the table below (Figure 3).

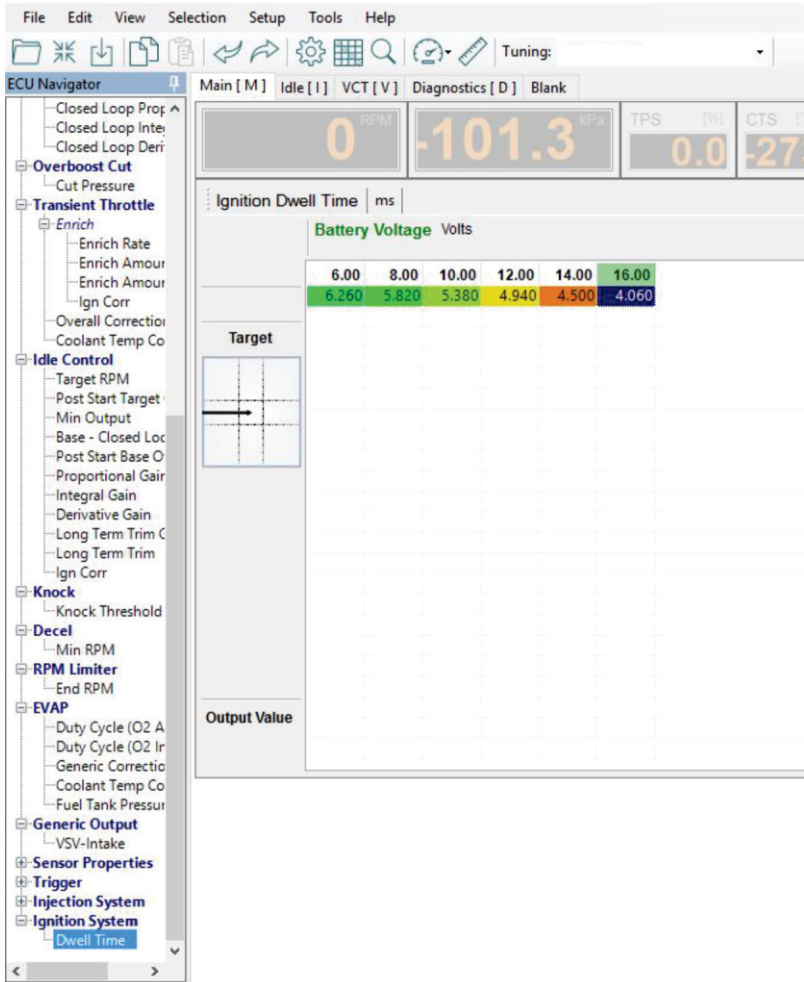


Figure 3 - Dwell Time Table

**Warning!**  
Damage can occur to the coil if the dwell time is set too high.  
Please ensure your dwell time is set based on the coil manufacturers recommendations

# Haltech IGN-1A Ignition Coil (HT-020114)

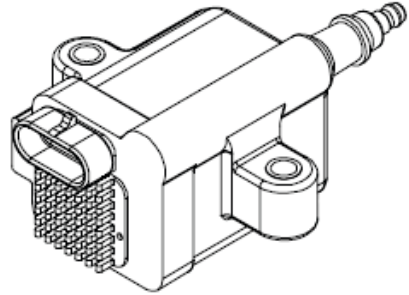
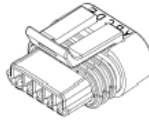
## Overview - sold separately

### **Coil connector pinout:**

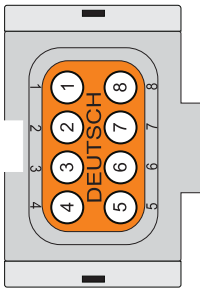
Pin A : Ignition Signal (to ECU Ignition Output)  
Pin B : Battery Ground  
Pin C : Cylinder Head / Rotor Housing Ground  
Pin D : Battery Ground  
Pin E : +12V (Switched Power)

### **ECU Ignition Setup**

Ignition Edge : Falling  
Dwell Mode : Constant Charge  
Dwell Time : 4.5ms



# Harness Diagram



Wire Side View

**TO IGNITION  
BREAKOUT**

IGN #1 OUTPUT FROM ECU

1

IGN #2 OUTPUT FROM ECU

2

IGN #3 OUTPUT FROM ECU

3

IGN #4 OUTPUT FROM ECU

4

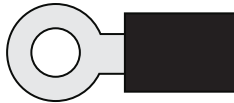
BATTERY GROUND  
(FROM BATTERY -VE TERMINAL)

7

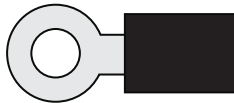
SWITCHED +12V DC  
(FROM FUSEBOX RELAY R3)

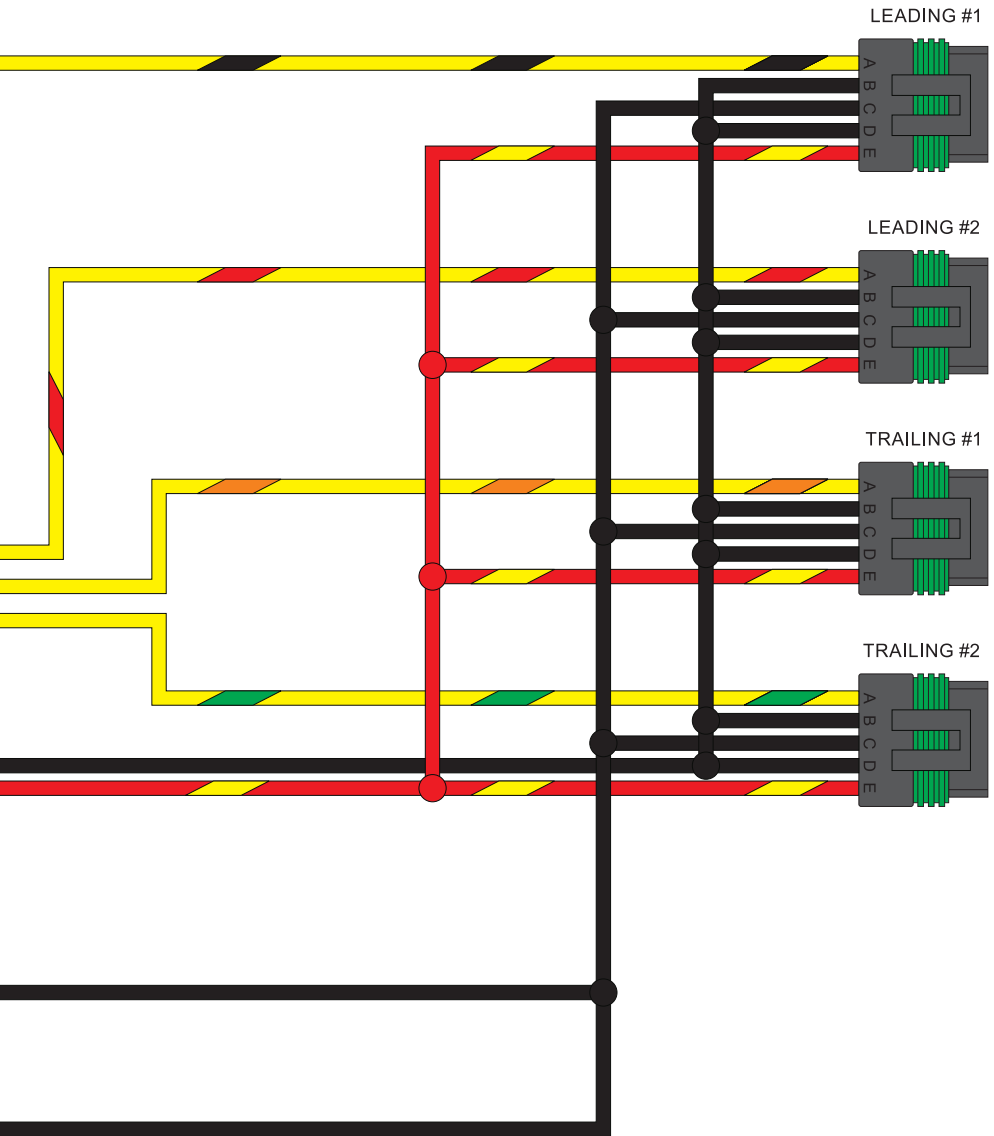
8

**Rear Rotor Housing Ground**



**Front Rotor Housing Ground**







### Need more help?



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