



ELITE 2000/2500
Toyota 2JZ Series
HPI 6
Terminated Ignition Harness
(HT - 130319)



Harness Overview

The Haltech HPI 6 Ignition Harness connects to the standard coils of the Toyota 2JZ engine.

Installation of this harness is as follows:

- Position the harness in the engine bay / cabin
- Connect the Haltech HPI 6 Ignition Harness to the Haltech 2JZ Terminated Engine Harness by the opposing 8 position connector within the harness labelled as "Ignition Outputs"
- Connect the factory coils to the ignition harness. All outputs are labelled on the harness. Please connect these outputs to their respective cylinder / coil
- Connect the HPI 6 unit to the harness via the main connector within the Haltech HPI 6 Ignition Harness
- Mount the HPI 6 Unit on the vehicle. Do not mount the unit where it will be exposed to water or other liquids. Select a location away from excessive heat.
- Connect the Main Power Ground to a cylinder head.

Please Refer to the included HPI 6 quick start guide for more information.



Figure 1 - Haltech HPI6 Ignition Harness Main Power Ground Connection

Software Setup

The Haltech HPI6 module 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

Main Setup - Elite 2500 ECU 2.12.0 - Release

Engine Functions Devices Datalog

Main Trigger Fuel Ignition

Ignition Angle

Ignition Load Type: MAP Sensor

Ignition System

Ignition Mode: Direct fire

Edge: Falling Edge

Trailing Edge: Falling Edge

Dwell Mode: Constant Charge

Trailing Dwell Mode: Constant Charge

Dwell Duty: 30.0 %

Lock Mode: Disabled

Firing Angle: 0.0 °

Trailing Split Angle: 0.0 °

Ignition Angle Tables

- ☐ Overall Correction
- ☐ Attack/Decay Correction
- ☒ Cranking Ignition Angle
- ☒ Zero Demand Ignition Angle
- ☒ Coolant Temp Correction
- ☒ Air Temp Correction
- ☒ Post Start Correction
- ☐ Cylinder Correction
- ☐ Gear Correction
- ☐ Generic 1 Correction
- ☐ Generic 2 Correction
- ☐ Generic 3 Correction
- ☐ Generic 4 Correction
- ☐ Fuel Comp Correction

Profile: TOYOTA 2JZ

View I/O Report... OK Cancel Apply

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 two axis. Those are Battery Voltage and RPM. The dwell time for standard Toyots 2JZ coils are outlined in the table below (Figure 3).

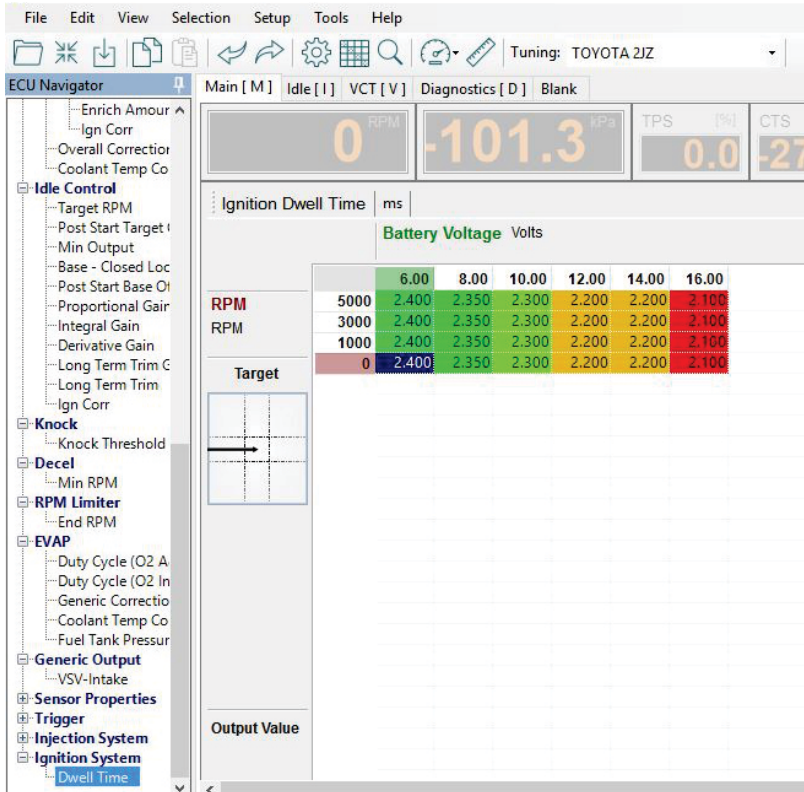


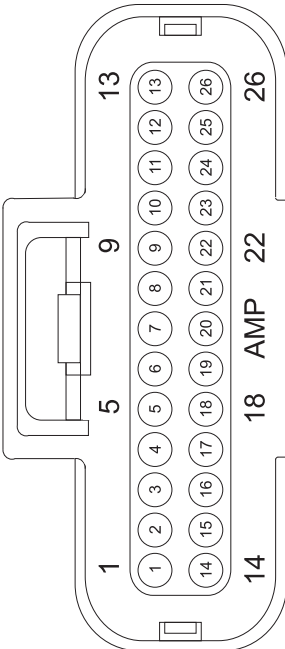
Figure 3 - Dwell Time Table

Warning!

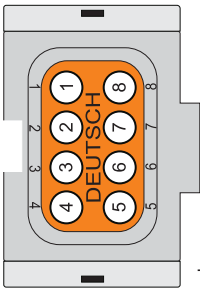
Damage can occur to the coil and / or Haltech HPI if the dwell time is set too high. Please ensure your dwell time is set based on the coil manufacturers recommendations

Notes

Harness Diagram



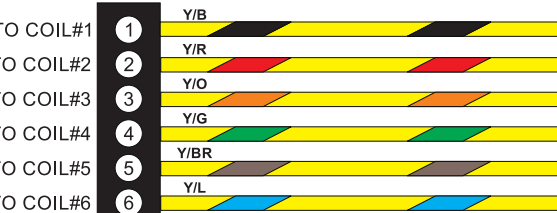
Wire Side View



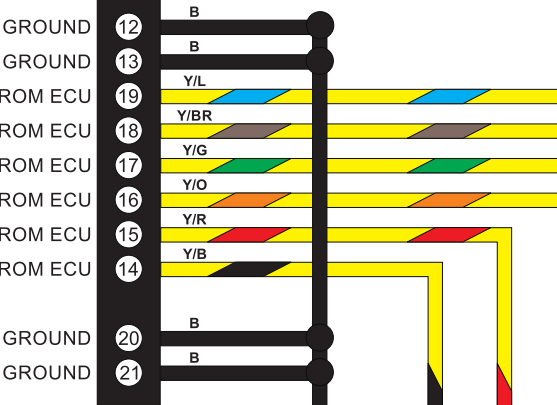
Wire Side View

TO HPI 6

IGN OUTPUT TO COIL#1
IGN OUTPUT TO COIL#2
IGN OUTPUT TO COIL#3
IGN OUTPUT TO COIL#4
IGN OUTPUT TO COIL#5
IGN OUTPUT TO COIL#6

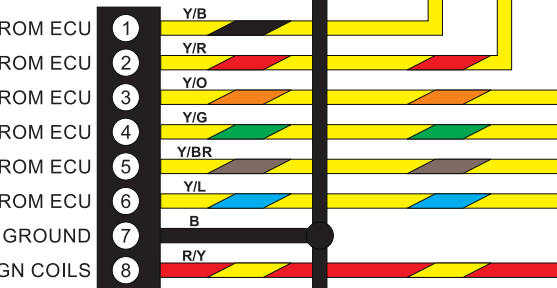


GROUND
GROUND
IGN #6 INPUT FROM ECU
IGN #5 INPUT FROM ECU
IGN #4 INPUT FROM ECU
IGN #3 INPUT FROM ECU
IGN #2 INPUT FROM ECU
IGN #1 INPUT FROM ECU



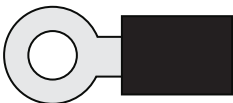
TO IGNITION BREAKOUT

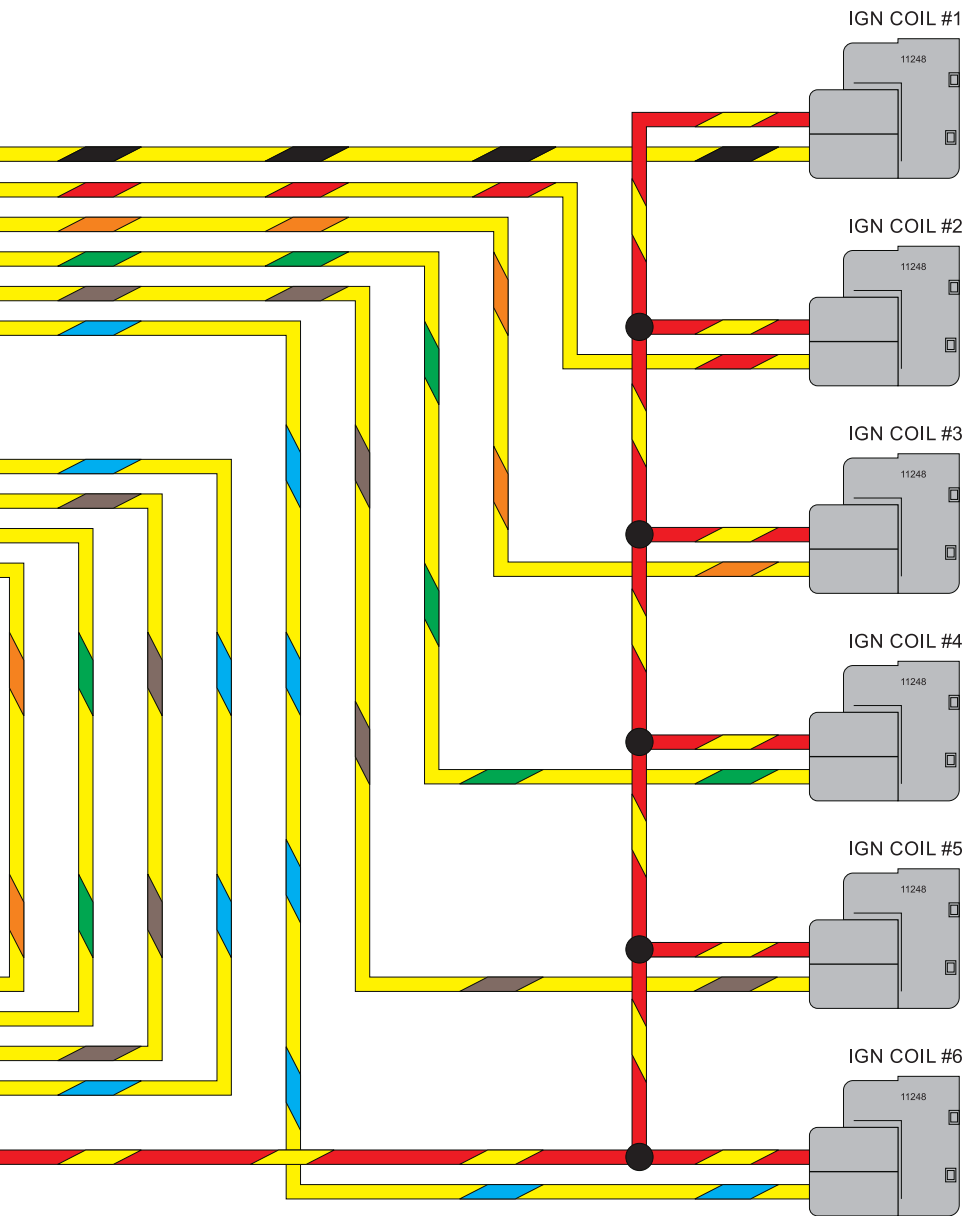
IGN #1 INPUT FROM ECU
IGN #2 INPUT FROM ECU
IGN #3 INPUT FROM ECU
IGN #4 INPUT FROM ECU
IGN #5 INPUT FROM ECU
IGN #6 INPUT FROM ECU



+12V DC SUPPLY TO IGN COILS

TO CYLINDER HEAD GROUND







Need more help?



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