

GM LSx NON-DBW TERMINATED ENGINE HARNESS FOR NEXUS R5 VCU

QUICK START GUIDE



HARNESS OVERVIEW

Congratulations on purchasing a Haltech GM LSx Non-DBW Terminated Engine Harness.

This terminated engine harness connects directly to the Nexus R5 VCU and is designed for GM LSx engines without Drive By Wire (DBW) throttle control.

In conjunction with a Haltech Nexus R5 VCU this harness provides virtually limitless performance and tuning options for your LSx powered vehicle.

This Quick Start Guide will walk you through the installation of this terminated engine harness along with the options of adding optional sub-harnesses, sensors, actuators and other devices.

WARNING!

This harness DOES NOT ground your engine. Make sure your engine is sufficiently grounded. A ground/earthing strap should be used to ground your engine to the battery. Keep all wires away from the exhaust manifold.

Harness Features:

Haltech Nexus R5 VCU connectors

Terminated engine bay and in-cabin connections

Connection to Haltech CAN devices (eg dash displays, keypads, etc.)

Connection to sensors (eg crank, cam, MAP, temperature, pressure, position, speed, flex fuel)

Dual wideband lambda sensor allocation

Dual knock sensor connection

Direct connection to the OEM ignition sub harness

Connection to 8 primary injectors (EV1) and a breakout plug for 8 secondary injectors

Breakout connection for alternator control

Starter solenoid control

Idle stepper motor control

Dual boost control solenoid allocation

Breakout connection for thermofan and fuel pump control

Breakout connection for transmission control Spare inputs and outputs

Spare high current 8 Amp PDM outputs



What's in the bag?

- Terminated engine harness (HT-186206)
- Pack of DTM/DT connector and pin set to terminate to sensors, solenoids and other devices
- 2 x DTP-2 connectors with pre-crimped 12AWG wires to use for fuel pump and thermofan
- 1 x DT-8 connector with pre-crimped 18AWG wires
- 2 and 4 pin alternator adapter harnesses



Available sub-harnesses (sold separately)



HARNESS PINOUT DIAGRAM



CONNECTOR A				
Pin	Function	Colour		
A1	Injector Pri : 1	Blue		
A2	Injector Pri : 2	Blue/Black		
A3	Injector Pri : 3	Blue/Brown		
A4	Injector Pri : 4	Blue/Red		
A5	Injector Pri : 5	Blue/Org		
A6	Injector Pri : 6	Blue/Yellow		
A7	Injector Pri : 7	Blue/Green		
A8	Injector Pri : 8	Blue/Violet		
A9	Cabin A3 (DP01)	Violet/Black		
A10	Power Ground	Black		
A11	Power Ground	Black		
A12	Cabin A4 (DPO2)	Violet/Brown		
A13	Ign Switch Pin 1	Pink		
A14	Cabin A5 (DPO3)	Violet/Red		
A15	Boost Up (DP04)	Violet/Org		
A16	Boost Dwn (DP05)	Violet/Yellow		
A17	Trans I/O A1 (DP06)	Violet/Green		
A18	Cabin B5 (DP07)	Black/Yellow		
A19	Idle A (HBO 1)	Brown/Black		
A20	Idle B (HBO 2)	Brown/Red		
A21	Idle C (HBO 3)	Brown/Green		
A22	Idle D (HBO 4)	Brown/Pink		
A23	CAN1 H	White		
A24	CAN1 L	Blue		
A25	Cabin B6 (DP08)	Violet		
A26	Ign Switch Pin 2	Red		
A27	Ignition 1	Yellow/Black		
A28	Ignition 2	Yellow/Red		
A29	Ignition 3	Yellow/Org		
A30	Ignition 4	Yellow/Green		
A31	Ignition 5	Yellow/Brown		
A32	Ignition 6	Yellow/Blue		
A33	Ignition 7	Yellow/Violet		
A34	Ignition 8	Yellow/Gray		



CONNECTOR B			
Pin	Function	Colour	
B1	Injector Sec : 1	L.Blue	
B2	Injector Sec : 2	L.Blue/Black	
B3	Injector Sec : 3	L.Blue/Brown	
B4	Injector Sec : 4	L.Blue/Red	
B5	Injector Sec : 5	L.Blue/Orange	
B6	Injector Sec : 6	L.Blue/Yellow	
B7	Injector Sec : 7	L.Blue/Green	
B8	Injector Sec : 8	L.Blue/Violet	
B9	Cabin B1 (SPI 7)	Gray/Green	
B10	Cabin B2 (SPI 8)	Gray/Violet	
B11	Trans I/O B9 (SPI 9)	Gray/Blue	
B12	Trans I/O B10 (SPI 10)	Gray/White	
B13	Unused		
B14	Injector 17	L.Blue/Gray	
B15	Trans I/O A2 (IGN9)	L.Yellow/Black	
B16	Trans I/O A3 (IGN10)	L.Yellow/Red	
B17	Trans I/O A4 (IGN11)	L.Yellow/Orange	
B18	Trans I/O A5 (IGN12)	L.Yellow/Green	
B19	Unused		
B20	Injector 18	L.Blue/Blue	
B21	Wideband 2 : 1	Gray	
B22	Wideband 2 : 2	Yellow	
B23	Wideband 2 : 3	Red	
B24	Wideband 2 : 4	Black	
B25	Wideband 2 : 5	White	
B26	Wideband 2 : 6	Green	

NOTE: Connectors are viewed from the wire side.



CONNECTOR C			
Pin	Function	Colour	
C1	Trigger +	Yellow	
C2	Unused		
C3	Home +	Yellow	
C4	Unused		
C5	Vehicle Spd (SPI 1)	Gray/Brown	
C6	Spare SPI (SPI 2)	Gray/Red	
C7	Spare SPI (SPI 3)	Gray/Org	
C8	Flex Fuel (SPI 4)	Gray/Yellow	
C9	8V sensor power	Org/White	
C10	Coolant Temp	White	
C11	Air Temp	White/Yellow	
C12	Fuel Press	White/Gray	
C13	Oil Press	White/Violet	
C14	Oil Temp	White/Green	
C15	TPS	White/Orange	
C16	Spare AVI (AVI 7)	White/Black	
C17	Spare AVI/APP (AVI 8)	White/Brown	
C18	Spare AVI/APP (AVI 9)	White/Red	
C19	Driveshft Spd (SPI 5)	Gray/Pink	
C20	Cabin A6 (SPI 6)	Gray/L.Green	
C21	Cabin A1 (CAN2 H)	White	
C22	Cabin A2 (CAN2 L)	Blue	
C23	Knock 1	White	
C24	Knock 2	White	
C25	5V sensor power	Orange	
C26	Signal Ground A	Black/White	
C27	Spare AVI (AVI 10)	L.Green	
C28	MAP	L.Green/Black	
C29	Wideband 1 : 1	Gray	
C30	Wideband 1 : 2	Yellow	
C31	Wideband 1 : 3	Red	
C32	Wideband 1 : 4	Black	
C33	Wideband 1 : 5	White	
C34	Wideband 1 : 6	Green	





	CONNECTOR D	
Pin	Function	Colour
D1	12V CAN power	Pink/Red
D2	12V Sensor power	Pink/Brown
D3	Starter output	Pink/Black
D4	Trans I/O A7 (HCO 4)	Pink/Orange
D5	Trans I/O A8 (HCO 5)	Pink/Yellow
D6	PDM Spare 1(HCO6)	Pink/Green
D7	PDM Spare 2(HC07)	Pink/Violet
D8	PDM Spare 3(HC08)	Pink/Blue
D9	Signal Ground B	Black/Gray
D10	Spare AVI (AVI 12)	L.Green/Brown
D11	Spare AVI (AVI 13)	L.Green/Red
D12	Spare AVI (AVI 14)	L.Green/Orange
D13	PDM Spare4 (HCO9)	Pink/Gray
D14	PDM Spare5(HC010)	Pink/White
D15	5V sensor power	Orange/Red
D16	Spare AVI (AVI 15)	L.Green/Yellow
D17	Trans I/O B1 (AVI 16)	L.Green/Green
D18	Trans I/O B2 (AVI 17)	L.Green/Violet
D19	PDM Spare6(HC011)	Pink/L.Green
D20	PDM Spare7(HC012)	Pink/L.Blue
D21	Trans I/O B3 (AVI 18)	Green/Black
D22	Trans I/O B4 (AVI 19)	Green/Brown
D23	Trans I/O B5 (AVI 20)	Green/Red
D24	Trans I/O B6 (AVI 21)	Green/Orange
D25	Trans I/O B7 (AVI 22)	Green/Yellow
D26	Trans I/O B8 (AVI 23)	Green/Violet

	CONNECTOR E	
Pin	Function	Colour
E1	Injector Power	Red/Blue
E2	Ignition Coil Power	Red/Yellow
E3	Fuel Pump	Red/Orange
E4	Thermofan	Red/Green

NEXUS R5 CONNECTIONS

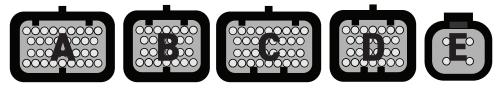
Nexus R5 VCU Connection

With the unit powered off, connect the 5 ECU plugs on the main harness to the Nexus R5:

Connector A: 34-pin, Keyway Type 1 Connector B: 26-pin, Keyway Type 1 Connector C: 34-pn, Keyway Type 2 Connector D: 26-pin, Keyway Type 3 Connector E: 4-pin DTP



Looking into connector on ECU



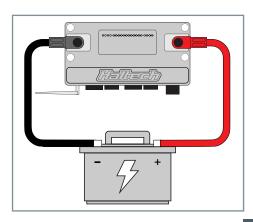
Battery Positive and Battery Negative (Nexus R5 VCU)

The battery positive and battery negative must be connected to the Nexus R5 VCU at all times.

Connect the Positive (+) battery terminal to the positive terminal (RED) on the Nexus R5 using the RED SurLok connector provided and a RED 1AWG battery cable (sold separately).

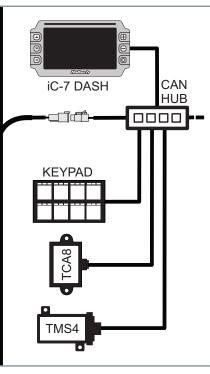
Connect the Negative (-) battery terminal to the Negative terminal (BLACK) on the Nexus R5 using the BLACK SurLok connector provided and a BLACK 1AWG battery cable (sold separately).

Note: There is an internal 32VDC 200A positive inline fuse inside the VCU for overcurrent protection (this fuse is not user-serviceable).



Haltech CAN connection (Label: CAN 1)

This harness is fitted with two DTM-4 plugs used to connect Haltech CAN devices, both in-cabin and in the engine bay (displays, keypads etc).

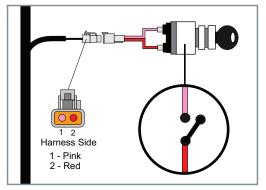


Ignition Switch

(Label: Ignition Switch)

An ignition switch must be wired in to turn the Nexus R5 unit on. This harness includes a terminated ignition switch 2-pin plug for this purpose.

Use the pink and red wires to turn the ignition on and off.



Starter Motor Control

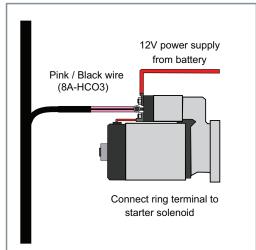
(Label: Starter Solenoid)

The Nexus R5 has a dedicated 6mm ring terminal to control a starter motor.

This ring terminal is connected to a High Current Output (8A-HCO3) from the ECU and will supply 12V to the starter motor solenoid when starting conditions are met.

An engine start button can be set up using a Haltech CAN Keypad, or by wiring a physical switch to an ECU input.

NOTE: Starter motors draw large amounts of current and MUST be wired directly to the battery using a properly sized battery cable.



Alternator Control

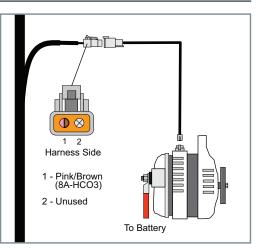
(Label: Alternator Breakout)

This harness is fitted with a breakout connector that provides switched 12V power to the alternator.

It also includes a set of adapter harnesses to fit a range of alternator connector types including:

- 2-pin Bosch alternators
- \cdot 4-pin Delco alternators
- · 2-pin Yazaki alternators

The adapter harness exctes the alternator using an inline resistor in place of a charge indicator light.



INJECTOR / IGNITION CONNECTIONS

Fuel Injectors

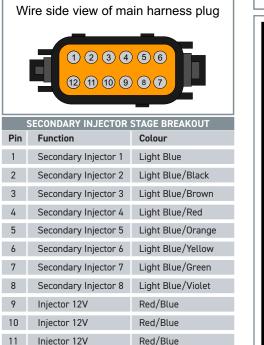
Label: Injectors 1-8 (EV1 plugs) Label: Secondary Injectors (DTM-12 Black plug)

The Haltech LSx Non-DBW Terminated Engine Harness allocates fuel injection into primary and secondary stages

The eight primary injector output (1-8) connections are terminated with Bosch EV1 plugs which branches out into two groups for each of the engine banks.

A secondary injector breakout plug (injector outputs 9-16) is also available and can be used with a secondary injector sub-harness (sold separately). See page 3 or visit the Haltech website for a range of sub-harnesses to fit your application,

The last two injector outputs (17/18) are intended to be spare outputs terminated with DTM-2 plugs, but can also be used as tertiary injectors if the application requires.



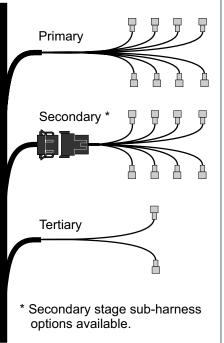
Red/Blue

Injector 12V

12





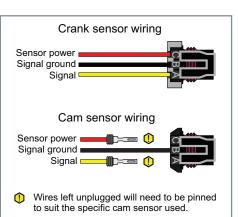


Crankshaft and Camshaft Position Sensors (Label: Crank position, Cam position)

The crank position sensor plug connects directly to the engine crank angle sensor.

The cam position plug connects directly to the sensor, but note that the wiring varies between models for the GM LSx engines. Hence the plug has the signal wire (yellow) and sensor power wire (red) both unplugged and is left for the installer to "pin" into the connector to suit what the cam sensor requires.

Refer to the table below for the pinout and insert the pins into the connector until they lock.



	CAM SENSOR PLUG PINOUT WIRING					
PIN	PIN LS1 CAM SENSOR LS2/3 CAM SENSOR LS2/3 CAM (WIRING TO PIGTAIL HARNESS					
А	Signal (Yellow)	Sensor power (Red)	Signal (Yellow)			
В	Signal ground (Black)	Signal ground (Black)	Signal ground (Black)			
С	Sensor power (Red)	Signal (Yellow)	Sensor power (Red)			

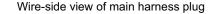
Ignition Outputs

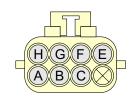
(Label: Ignition bank 1, Ignition bank 2)

This harness is designed to plug into the OEM ignition sub-harness and therefore no ignition loom is supplied. Ensure the correct ignition output is connected to the corresponding coil bank on the engine.

The harness also has two 13mm ignition coil ground ring terminals that will need to be bolted on to each of the engine heads to provide ground to the coils.

NOTE: If changing to a different type of ignition coil, do not connect the ignition output wires directly to the ignition coils unless the coils have internal ignitors. In installations with ignition coils without internal ignitors, an external ignitor must be used.





Ignition breakout connector



Ignition ground ring terminal

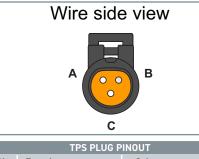
	IGNITION COIL BREAKOUT				
	IGNITIC	ON BANK 1		IGNITIO	N BANK 2
Pin	Function	Colour	Pin	Function	Colour
А	Ground	Black	А	Ground	Black
В	Ignition 7	Yellow/Violet	В	Ignition 2	Yellow/Red
С	Ignition 5	Yellow/Brown	С	Ignition 4	Yellow/Green
D	Unused		D	Unused	
E	Ground	Black	Е	Ground	Black
F	Ignition 3	Yellow/Orange	F	Ignition 6	Yellow/Blue
G	Ignition 1	Yellow/Black	G	Ignition 8	Yellow/Grey
Н	Ignition 12V	Red/Yellow	Н	Ignition 12V	Red/Yellow

9

SENSOR CONNECTIONS

Throttle Position Sensor (TPS) (Label: TPS)

Use this connector to plug into the throttle position sensor.

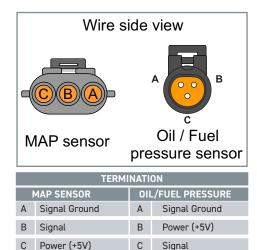


	TPS PLUG PINOUT				
Pin	Function	Colour			
А	+5V	Orange			
В	Signal Ground	Black/White			
С	Signal	White/Orange			

Manifold Absolute Pressure (MAP), **Oil Pressure, Fuel Pressure**

(Label: MAP) (Label: Oil Pressure) (Label: Fuel Pressure)

Use these connectors to connect to the MAP and fluid pressure sensors.



С

Coolant Temp, Intake Air Temp, and Oil Temp Sensor (Label: Coolant Temperature) (Label: Air Temperature) (Label: Oil Temperature)

Plug this connector into the 2-pin temperature sensor. These sensors are not polarity dependent.

Flex Fuel Sensor

(Label: Flex Fuel Input)

Use this plug to connect directly to the Haltech Flex Fuel Sensor (HT-011000 sold separately).



Wideband Lambda Sensors 1 and 2 (Label: Wideband 1 and Wideband 2)

The harness is fitted with two wideband Lambda sensor breakout plugs on each engine bank.

These connect directly to Haltech's Bosch or NTK wideband sensor kit (sold separately): HT-010746 - Bosch LSU4.9 HT-010747 - NTK LZA08-H5.



Thermofan Control

(Label: Thermofan/HC025A-4)

This harness has provision for thermofan with an allocated 2-pin DTP connector.

The breakout plug is located towards the rear of the engine and the opposing connector included with the harness kit is pre-terminated with a length of 12AWG cable to connect directly to the thermofan.

Boost Control

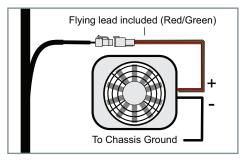
(Label: Boost Up DPO-4 / Boost Down DPO-5)

Included with this harness are two DTM-2 connectors for dual boost control solenoid control.

These connect directly to Haltech boost control solenoid kits (HT-020400, HT-020401, HT-020402 sold separately).

If connecting to an existing boost solenoid - use the opposing connector included.



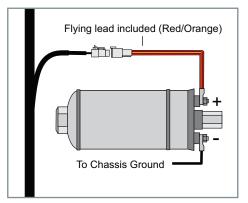


Fuel Pump Control

(Label: Fuel Pump/HC025A-3)

The 2-pin DTP breakout connector for fuel pump control is located near the main harness junction.

The opposing connector included is pre-terminated with a length of 12AWG cable and connects directly to your fuel pump.





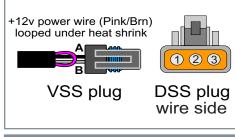
AVI / SPI CONNECTIONS

Vehicle and Driveshaft Speed Sensors

Label: Vehicle speed input, Driveshaft speed input

Use the vehicle speed input to plug into a 2 pin sensor. A spare 12V wire is available looped under the heatshrink if wiring to a 3 pin digital sensor.

Wire a driveshaft speed sensor to take advantage of advanced tuning options available in the Nexus R5 including Torque Management and Traction Control.



	DSS PLUG PINOUT				
	VSS		DSS		
А	Sig Gnd (Blk/Wht)	1	Power (Org/Wht)		
В	SPI 1 (Gry/Brn)	2	SPI 5 (Gry/Pnk)		
12v	loop (Pnk / Brn)	3	Sig Gnd (Blk/Wht)		

Spare Analogue Voltage Inputs (AVI)

This harness is fitted with multiple connectors to Analogue Voltage Inputs (AVIs) which you can use for a range of pressure sensors, temperature sensors, position sensors, laser ride height sensors, Haltech rotary trim knobs, switches, etc.

The DTM-6 connector labeled APP located in the cabin side of the harness can be used to connect to an accelerator pedal position sensor if converting to a drive by wire throttle system.

Knock Sensors

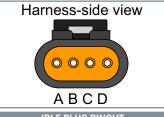
(Label: Knock 1, Knock 2)

Connect these plugs to the engine's knock sensors to use the ECU's knock detection and control features.

Idle Stepper Motor Control (Label: Idle)

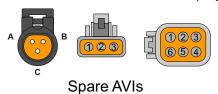
Use this connector to plug into a GM 4 pin idle stepper motor.

The connector uses the four half bridge outputs from the ECU which can also be repurposed to control drive by wire throttles or electronic wastegates if the application requires.



IDLE PLUG PINOUT				
Pin	Function	Colour		
А	Idle A / HBO 1	Brown/Black		
В	Idle B / HBO 2	Brown/Red		
С	Idle C / HBO 3	Brown/Green		
D	Idle D / HBO 4	Brown/Pink		

Wire side view of main harness plug



	SPARE AVI PLUGS						
	DELPHI DTM-3				DTM-6 (APP)		
Pin	Function	Pin	Function		Pin	Function	
А	Signal Ground	1	Power (+5V)		1	Signal Ground	
В	Power (+5V)	2	Signal		2	Signal (AVI 8)	
С	Signal	3	Signal Ground		3	Power (+5V)	
					4	Signal Ground	
					5	Signal (AVI 9)	
					6	Power (+5V)	

Spare Synchronised Pulsed Inputs (SPI) Label: Spare SPI-2 Label: Spare SPI-3

Spare SPI plugs can be used to connect frequency based sensors like vehicle and/or wheel speed sensors as well as analogue 0-5V sensors like linear position or laser ride height sensors.

NOTE: A 5V wire has been looped under the heat shrink for these spare SPI plugs for applications where 5V sensor power is required.

Remove the heat shrink to expose the wire and terminate to suit application.

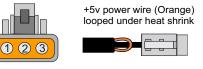
SPI PINOUT		
Pin	Function	
1	Signal Ground	
2	Power	
3	Signal (SPI)	

Cabin Harness Breakouts

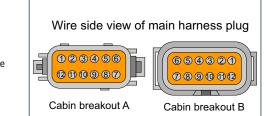
(Label: Cabin breakout A, Cabin breakout B)

This harness provides two 12-pin DTM breakouts in the cabin populated with spare inputs and output. The opposing connectors and pins for these breakouts are included.





Spare SPI pinout (harness side)



CABIN SPARE I/O							
PLUG A			PLUG B				
Pin	Function	Colour	Function	Colour			
1	CAN 2 H	White	SPI 7	Gray/Green			
2	CAN 2 L	Blue	SPI 8	Gray/Violet			
3	DPO 1	Violet/Black	Unused				
4	DPO 2	Violet/Brown	Unused				
5	DPO 3	Violet/Red	DPO 7	Black/Yellow			
6	SPI 6	Gray/Light Green	DPO 8	Violet			
7	12V Sensor (HCO2)	Pink/Brown	5V Sensor Power	Orange/Red			
8	5V Sensor Power	Orange/Red	Signal Ground B	Black/Gray			
9	Signal Ground B	Black/Gray	Signal Ground B	Black/Gray			
10	Unused		12V Sensor Power (HCO2)	Pink/Brown			
11	12V CAN Power (HCO 1)	Pink/Red	12V Sensor Power (HCO2)	Pink/Brown			
12	Power Ground	Black	Power Ground	Black			

PDM SPARES AND TRANSMISSION

PDM Spares Breakout

(Label: PDM Spares)

This harness is fitted with a PDM breakout connector for spare high current outputs for controlling various applications.

Headlights, indicator lights, brake lights, windscreen wipers and washers can all be controlled through these outputs.

The opposing connector is included and precrimped with 18AWG wires.

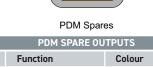
I 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 Image: Status Image: Sta

Transmission Harness Breakouts

(Label: Trans / Spare IO A (Grey plug) (Label: Trans / Spare IO B (Black plug)

Breakouts for either transmission control or spare inputs and outputs have been provided in the engine bay.

The opposing connectors and pins for this breakout are included.



Pin

Wire side view of main harness plug

1234

8765

1	HCO 6	Pink/Green
2	HCO 7	Pink/Violet
3	HCO 8	Pink/Blue
4	HCO 9	Pink/Gray
5	HCO 10	Pink/White
6	HC0 11	Pink/Light Green
7	HC0 12	Pink/Blue
8	Unused	

Wire side view of main harness plug



Trans/Spare IO Plug A and B

TRANSMISSION AND ENGINE SPARE I/O							
PIN	PLUG A (GRAY)		PLUG B (BLACK)				
	Function	Colour	Function	Colour			
1	DPO 6	Violet/Green	AVI 16	Light Green/Green			
2	Ignition 9	Light Yellow/Black	AVI 17	Light Green/Violet			
3	Ignition 10	Light Yellow/Red	AVI 18	Green/Black			
4	Ignition 11	Light Yellow/Orange	AVI 19	Green/Brown			
5	Ignition 12	Light Yellow/Green	AVI 20	Green/Red			
6	Unused		AVI 21	Green/Orange			
7	HCO 4	Pink/Orange	AVI 22	Green/Yellow			
8	HCO 5	Pink/Yellow	AVI 23	Green/Violet			
9	5V Sensor Supply	Orange/Red	SPI 9	Gray/Blue			
10	Signal Ground B	Black/Gray	SPI 10	Gray/White			
11	12V CAN Power (HCO 1)	Pink/Red	5V Sensor Supply	Orange/Red			
12	Power Ground	Black	Signal Ground B	Black/Gray			



WARRANTY CERTIFICATE

At Haltech we make every effort to design and manufacture fault-free products that perform up to or above the market expectations. All our products are covered by a Limited 12 Month Warranty.

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.

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. Proof of purchase in the form of a copy of the original purchase invoice, receipt or bill of sale which indicates that the product is within the warranty period, must be presented to obtain warranty service.

Replacement or repair of a defective product 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, receipt or bill of sale 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.

Returns of Products Supplied in Sealed Packaging

The sale of any sensor or accessory 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.

A sensor or accessory product may be returned after 30 days of purchase (with its sealed packaging intact) for credit only (no refunds given) and will be subject to a 10% restocking fee.

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 Off-Road Usage Policy

In many states 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 and may never be used on a public road or highway.

Using Haltech products for street/road use on public roads or highways is prohibited by law unless a specific regulatory exemption exists (more information can be found on the SEMA Action Network website www.semasan.com/emissions for state by state details in the USA).

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 purchasing, using or installing any Haltech product.



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