



DISPLAY DASH QUICK START GUIDE

iC-7 DISPLAY DASH OVERVIEW

The iC-7 Display Dash is available in two kits:

Part No. HT-067010 is pre-configured for connection to all Haltech ECUs via a supplied DTM-4 to DTM-4 CAN extension cable.

Part No. HT-067012 is pre-configured for connection to an OBD-II port via a supplied DTM-4 to OBD-II CAN cable. This quick start guide will walk you through the installation of a Haltech iC-7 Display Dash into a vehicle already fitted with a Haltech ECU or equipped with an OBD-II port.

This guide is accompanied by the Help information available within the iC-7 software (iCC), located on the USB key provided.



What's in the box?

- Haltech iC-7 Display Dash
- 34 Pin main connector harness
- DTM-4 to OBD-II CAN cable (with HT-067012)
- DTM-4 to DTM-4 CAN cable (with HT-067010)
- USB to M5 right angle cable
- USB cable
- Mounting screws
- 10 x spare pins to suit AUX connector
- USB flash drive with iCC software
- Quick start guide
- Haltech product catalogue
- Haltech stickers and a keyring





Display Size	7"
Resolution	800 x 480
Shift Lights	14 RGB
Dimensions	217mm x 122mm x 39mm
Connectors	1 x M5 USB connector (COMMS)
	1 x 34-pin Superseal (AUXILIARY/MAIN)
External Sensor and Connections	Haltech CAN
	OBD-II CAN
	5 x switched inputs (left indicator, right indicator, high beam, parking lights, handbrake)
Internal Sensors / Inputs	6 x Control Buttons
	1 x Ambient Light Sensor
Ingress Protection	IP66
Operating Voltage	6V - 20V
Max Current Draw	1A @ 12V
Ambient Temperature Range	-10°C ~ +60°C

iC-7 DISPLAY DASH OVERVIEW

FRONT VIEW

- 1 Display Screen
- 2 Control Buttons
- 3 Shift / Alarm Light Panel
- 4 Ambient Light Sensor

REAR VIEW

- 5 Comms Connector
- 6 Auxiliary Connector
- 7 Mounting Screw Holes



iC-7 DISPLAY DASH OPERATION

Screen Navigation

Three keys perform the screen navigation.

- Press 🔨 key to go back to the previous screen in the sequence.
- Press 🗡 key to go to the next screen in the sequence.
- Press O to go to the home (default) screen

When the dash is powered up it will display a Haltech Logo Screen. After an initial configuration time the dash will display the default home screen

You can choose from a number of display lavouts available in the Haltech iCC software. Display channels are user-customisable.

Brightness Control

The dash has an ambient light sensor placed in the light bar to detect ambient light conditions.

In addition, the dash has a manual brightness control which alters the range of the ambient light sensor.

There are five brightness settings. On minimum brightness setting, the display is at its minimum brightness when the environment is dark, and the brightness of the display increases as the environment becomes brighter.

On the maximum brightness setting, the display



is always at full brightness regardless of the ambient light level.

The default setting is brightness level 3.

Press the + key to increase the brightness level by 1.

Press the **—** key to decrease the brightness level by 1.

Shift / Alarm Lights

The default function of the shift / alarm light panel is as a shift light bar, however alarms can be progremmed for any channel in the iC-7.

There are 14 lights in the sequence.

Each LED has a threshold to trigger, and a colour which it lights up when the RPM exceeds the threshold.

The colours available are red, green, blue and their combinations (vellow, cvan, magenta and white).

Alarms are configured using the Haltech iCC software. When an alarm event occurs, a message will appear on the screen.

The lights on the light bar can be set to flash in a preset colour.

When an alarm is triggered there are two options of turning it off:

1. Press the **X** key to acknowledge the alarm.

2. Pre-set your alarm to turn off automatically when the alarm condition is no longer active after a preset amount of time.

For more information, please see the Help file in the Haltech iCC software.



First Start Up

1. Remove the protective film from the screen.

2. Turn on the ignition power.

3. Initially, the dash will display a Haltech logo while it starts up. It will go to black briefly before the main dash image appears.

4. After a few seconds, the dash will display the default screen selected in the software, with data from your Haltech ECU or vehicle's OBD-II.

Haltech IC-C Software

With this software you can change various aspects of the dash behaviour including:

- Ranges of channels. Eq. the maximum RPM on a needle style tacho or a bar graph.
- Red ranges for channels. Eq. when a numeric display changes to red, red zone on a tacho.
- Display units. Eq. metric or imperial. lambda or AFR.

- The channel to be displayed at each location on the screen.
- The connection method, Eq. Haltech CAN or OBD-II
- Shift light RPM points and colours.
- Alarm thresholds, colour for on-screen display and shift lights, manual or auto reset methods

Installing the software

1. Insert the supplied USB Key into your PC. If you have lost your USB key, you can download the Haltech iCC software directly from the "Downloads" section of the Haltech website

2. If the window does not open automatically. open My Computer and find the USB drive. Double click on the USB drive.

3. Double click on the installer icon you see in the root directory of the USB drive.

4. Once the Haltech iCC is installed, run the software

5. With the the software opened, press F1 to read the Help file.

If you need help contact our Tech Support on:

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iC-7 MOUNTING OPTIONS

Universal Mounting Bracket → HT-060070

Bolts directly to the back of your iC-7 using three mounting screws provided.

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Universal Mounting Bracket with Integrated Visor ↓ HT-060071

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Bolts directly to the back of your iC-7 using three mounting screws provided. Includes a sun visor which reduces glare and protects the screen.



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Haltech Elite ECU

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Haltech Elite ECU

Supply and Battery Ground

+12V Switched



iC-7 TO HALTECH ECU INSTALLATION

1. Find a suitable place to mount your iC-7 Display Dash. A pull-out mechanical template is provided in the centre of this booklet if holes need to be cut in an existing panel.

2. Plug the supplied M5 (small circular connector) to USB cable into the "Comms" connector on the dash

3. Plug the supplied Main Connector Harness (34-pin Superseal connector) into the 34 pin connector on the dash labelled "Auxiliary".

4. Plug the DTM-4 to DTM-4 CAN extension cable into the Main Connector Harness DTM-4 connector.

5. Thread the cables through the hole in the mounting bracket or panel.

6. Mount the USB connector where it can be easily accessed for programming and configuration.

7. Securely mount your iC-7 Display Dash into your vehicle.

8. Run the DTM-4 cable to your Haltech ECU or CAN hub.

9. Connect the DTM-4 cable into a spare port on your Haltech CAN bus.



iC-7 TO OBD-II INSTALLATION

The iC-7 to OBD-II CAN Cable allows the Haltech iC-7 Dash to display the data obtained from the vehicle's OBD-II system in real-time.

This cable also provides a power source to the dash

The +12V Supply from the vehicle's OBD II connector is constant and would cause the dash to be powered even when the vehicle is off.

For this reason, the RED power wire must be connected to a switched +12V "Key On" power source in the vehicle as per the diagram (ie. connection to switched +12V supply)

Please refer to your specific ECU wiring diagram for more information.

Connect to



ECU configuration for Elite Series ECUs

1. Connect to the ECU with the ESP software (Elite Software Programmer)

2. Go into "Main Setup" (press F4)

3. Click "Devices" on the left tab

4. Under Haltech CAN System, enable the Haltech CAN Supported Dash (see below)

5. For extended functionality of the iC-7 Display Dash, Elite firmware 2.35 or later is required.

Earlier firmware versions are supported, but some channels may not display.

Main Setup - Elite 2500 ECU 2.08.0 - Release				
*	CAN Devices			
Engine	Vehicle CAN System			
	Bus Selection			
	Port Main Connectors 🗸			
E urotions	OBDII Enabled V			
Functions	Vehide None 🗸			
	Receive Only Mode Disabled V			
Devices Haltech CAN System				
مر	Bus Selection			
ih)	Port Aux CAN Bus Port 🗸			
Datalog	Displays			
	Haltech CAN Supported Dash			
Dynamometer				
	Dyno None 🗸			
Input/Output Expander Boxes				
I/O Expander 12 (Box A)				
	I/O Expander 12 (Box B)			
	Thermocouple Amplifier Boxes			

CAN Connection: DTM-4 receptacle

Pin Number		
1		
2		
3		
4		

CAN Connection: 34 pin Superseal Connector Connection CAN High CAN Low +12V Supply Battery Ground Rear View. Wire Side

Pin Number	
1	
2	
3	
4	

Connecting iC-7 Display Dash to a Haltech Platinum Series ECU:

Haltech Platinum ECU

Connection
+12V Supply
Battery Ground
CAN High
CAN Low



Rear View, Wire Side

You will need to use an 8-pin Tyco to DTM-4 cable to connect all Platinum Series ECUs to this device. This cable is supplied with the ECU.

If you already have a Platinum Series ECU and are adding the iC-7 display dash to your system this cable can be purchased separately (HT-130040).







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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

WIRE CONTINUES

AS PER FACTORY

WIRING

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 in tact) 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 vou'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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