www.btigauges.com

CAN Bus Gauge for Haltech
Plug and Play Installation Manual
Doc version 2.3
Notice: This product is intended for Off-Road use only.
Never take your eyes off of the road while using this device.
If you are uncomfortable with wire termination, please have
this device installed by a competent shop.

Patent Pending

Plug and Play harness installation:

Plug and play wiring harness for Haltech ECUs with the BTI wiring harness:

Simply plug the BTI connector straight into the Haltech ECU and the gauge will receive both power and CAN bus communications.
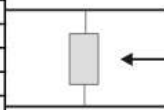
Notice! This diagram is for the Tyco connectors that are plugged directly into the ECU
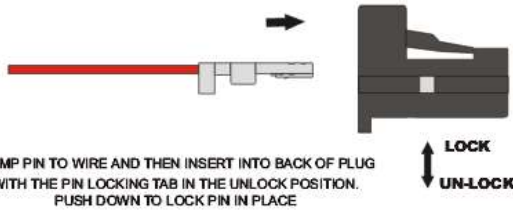
HALTECH PLATINUM SPORT SERIES 1 & 2 REAR CAN CONNECTOR
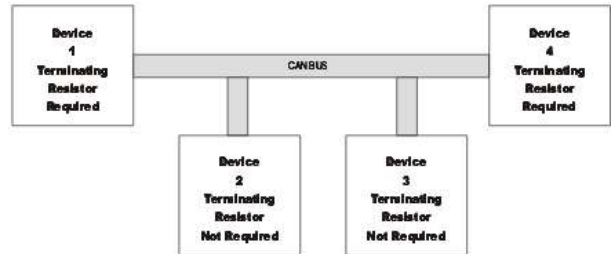
SERIES IS KNOWN BY LAST DIGIT ON SERIAL NUMBER OF UNIT

Pin #	Function
1	Ground
2	Reserved
3	CAN LO
4	12V Out
5	Reserved
6	Reserved
7	CAN HI
8	Reserved

CONNECT 120 OHM TERMINATING RESISTOR IF REQUIRED. TERMINATING RESISTOR WILL BE REQUIRED IF ECU IS AT THE END OF A CAN BUS, LEAVE OPEN IF ECU IS IN THE MIDDLE OF A CAN BUS SEE EXAMPLE
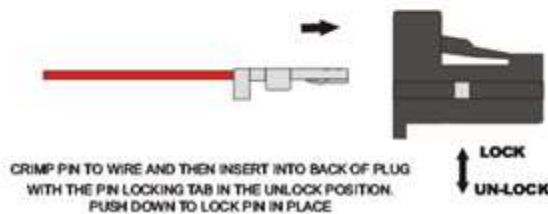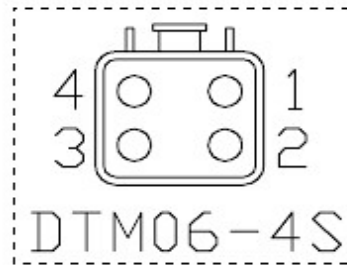
CRIMP PIN TO WIRE AND THEN INSERT INTO BACK OF PLUG WITH THE PIN LOCKING TAB IN THE UNLOCK POSITION. PUSH DOWN TO LOCK PIN IN PLACE

LOCK
UN-LOCK

4 3 2 1
8 7 6 5

TERMINATING RESISTOR EXAMPLE

Device 1 — Terminating Resistor Required
Device 4 — Terminating Resistor Required
CANBUS
Device 2 — Terminating Resistor Not Required
Device 3 — Terminating Resistor Not Required

Notice! This diagram is for the Tyco connectors that are plugged into the Haltech CAN hub:

Pin#	Function	Color
1	Ground	Black
4	12V Out	Red
2,3,6	CAN Low	Green
7,8	CAN High	White

CRIMP PIN TO WIRE AND THEN INSERT INTO BACK OF PLUG WITH THE PIN LOCKING TAB IN THE UNLOCK POSITION. PUSH DOWN TO LOCK PIN IN PLACE
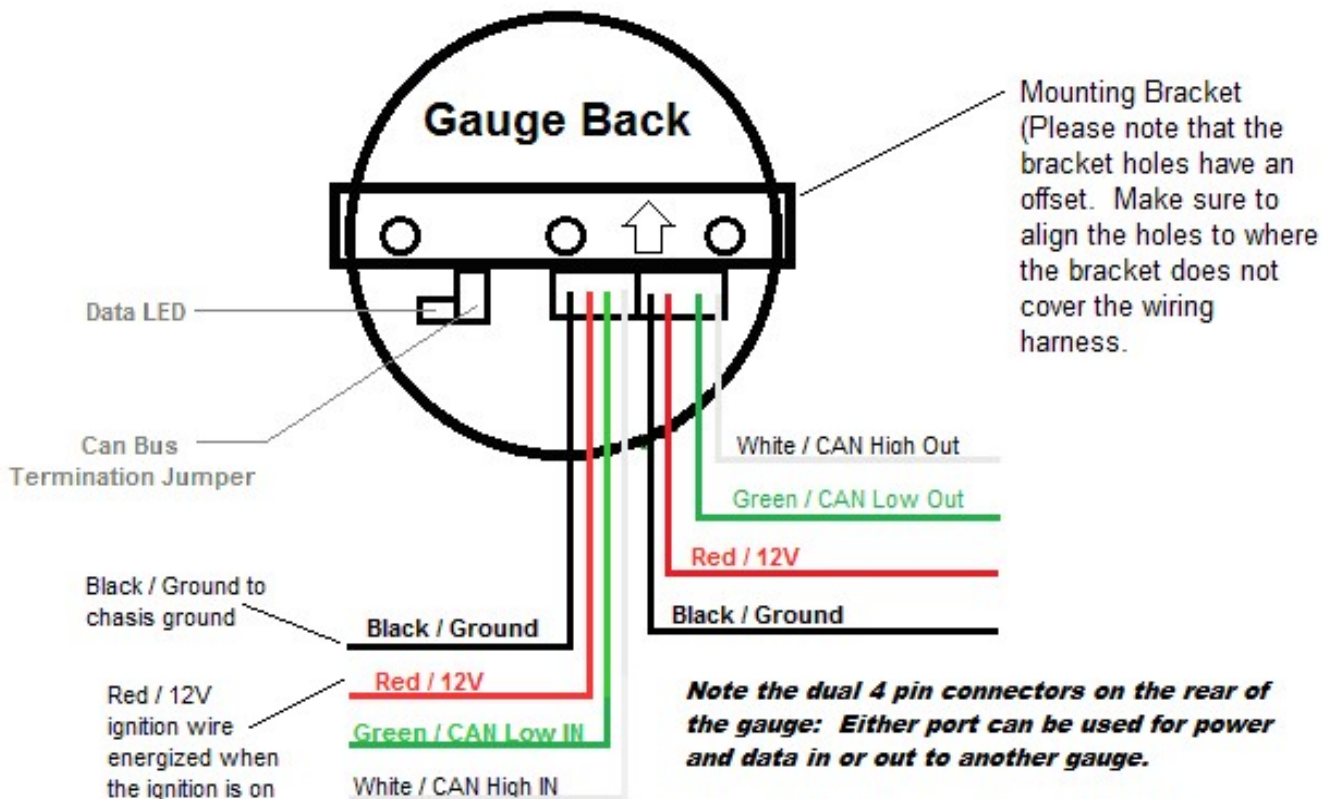
LOCK
UN-LOCK

4 3 2 1
8 7 6 5

Elite DTM06 Connector:

DTM06-4S

Deutsch 4pin connector:
1- 12v
2- Ground
3- CAN High
4- CAN Low

Make sure you select which CAN port you are using in ESP

Gauge Back

Mounting Bracket
(Please note that the
bracket holes have an
offset. Make sure to
align the holes to where
the bracket does not
cover the wiring
harness.

Data LED

Can Bus
Termination Jumper

White / CAN High Out

Green / CAN Low Out

Red / 12V

Black / Ground to
chasis ground

Black / Ground

Black / Ground

Red / 12V
ignition wire
energized when
the ignition is on

Red / 12V

Green / CAN Low IN

White / CAN High IN

*Note the dual 4 pin connectors on the rear of
the gauge: Either port can be used for power
and data in or out to another gauge.*

*(Expansion cables can be purchased from
www.btigauges.com or your BTI dealer)*

*Only the last gauge in a multi-gauge
configuration should have the termination
jumper installed.*

Data LED: This indicator will flash when ever the gauge is energized and CAN communications are present. Use this to confirm communications.

CAN Bus Termination Jumper: Remove this jumper if the gauge is not the last device on the CAN Bus. If there are multiple gauges, the last gauge should be the only gauge with the jumper installed.
Leave the jumper installed if the gauge is a stand alone installation and there is nothing else on the CAN Bus.

Operation:

Upon powering up a properly terminated gauge, the Gauge will display the interface and version number,
The gauge will then display a splash screen if one is programmed.
Following the splash screen, the gauge will display the first screen. (This screen usually has a parameter assigned from testing the gauge after manufacturing)
The remaining 11 screens will display the following message:

"No parameter selected for screen # 1-12"

Use the Left or Right buttons to scroll through the 12 screens.
Use the center button to enter the screen configuration.
Once in the screen configuration, use the Left or Right buttons to scroll to the desired parameter or compound parameters that you wish to assign to the selected screen number.
After the desired parameter or parameters have been selected, use the Center button to complete the screen assignment.
When the gauge is powered off, the last screen that was used for more than 60 seconds will be the next screen displayed when power is reapplied to the gauge.

Notice: Older Haltech ECUs may not have all available parameters. Always ensure that you are running the most recent firmware to get the most current CAN transmission.

Shift Light Configuration:
Press and hold the left button after energizing the gauge until the shift light configuration screen appears. The menu will prompt you to enter an RPM number for each gear (1-5).
Use the left and right button to increment or decrement the RPM value. Use the center button to save the value for each gear. The shift light will flash once the setup is complete.

Gauge Setup Options:
Press and hold the right button after energizing the gauge until the setup appears. The first option is for the display update rate. This value can be set from 0 – 200 milliseconds. Use the left and right buttons to adjust accordingly. Use the center button to accept the Update Rate value. You will then be prompted to enable or disable the peak hold screens. This applies only to single parameter screens and does not affect the Boost, Slip, or Knock screens which always display peak values when ever selected. The next setup option is to correct the oil and fuel pressure offset that occurs in some of the Platinum Pro ECUs. If you notice that both the oil pressure and fuel pressure are 14.5 psi or 100 kPa higher than what your software reads, you will need to "Enable" this bit. Otherwise, leave this option disabled. The Final Option is "Alternate SI pressure units" . The right button will set the SI pressure units to "Bar" while the left button will switch SI pressure units back to "kPa".

Peak-Hold Operation:
In order to reset the peak value on the selected single parameter screen, press and hold the center button for 3 seconds until the "Reset" prompt appears.
Note that the peaks on the single parameter screens will continue to record peak values no matter what parameter you are monitoring

Warranty:
All BTI Gauges carry a 1 year warranty effective at the time of purchase.

☐ This warranty extends only to products distributed and/or sold by BTI Gauges. It is effective only if the products are purchased and operated in the USA. (Within the USA including US 48 States, Alaska and Hawaii.)
☐ This warranty covers only normal use of the computer. BTI Gauges shall not be liable under this warranty if any damage or defect results from (i) misuse, abuse, neglect, improper shipping or installation; (ii) disasters such as fire, flood, lightning or improper electric current; or (iii) service or alteration by anyone other than an authorized BTI Gauge representative.
☐ You must retain your bill of sale or other proof of purchase to receive warranty service.
☐ No warranty extension will be granted for any replacement part(s) furnished to the purchaser in fulfillment of this warranty.
☐ Warranty claims must be sent to sales@btigauges.com.