

FOR HARNESES WITH BLACK 4 PIN BREAKOUT CONNECTOR ONLY**Calibration:**

After wiring, a free air calibration is required with the sensor out of the exhaust (and preferably outside). Turn the trimpots fully counterclockwise and then power up the wideband controller. After 60 seconds, slowly turn each trimpot clockwise until the corresponding LED starts flashing at a rapid rate. Try to set each trimpot at the point where its LED just starts to flash. If you cannot get an LED to flash when its trimpot is full clockwise, you either have a damaged sensor or very high hydrocarbon levels in your environment.

A fault indication will cause the LED to blink at a slow rate. Fault conditions include voltage less than 11 or over 16.5, sensor open circuit, or sensor short circuit.

Haltech Wideband Controller Wiring:

Red	Switched 12v
Black wires	Ground
White	0-5v Output 1 (Sensor 1 with yellow band)
Blue	0-5v Output 2 (Sensor 2)

Haltech EMS Harness Connector Wiring:

Black 4-Pin Breakout Connector



1	Ground
2	O2 Input Bank 2
3	O2 Input Bank 1
4	+12v Power

* IF ONLY USING 1 WIDEBAND, CONNECT WIDEBAND OUTPUT TO BOTH PINS 2 AND 3

** BE SURE TO CALIBRATE WIDEBANDS IN ECU MANAGER AS: 0v = 10AFR, 5v = 20AFR

Haltech Gauge Wiring:

Red	Switched 12v
Black	Ground
Blue	0-5v Input from wideband controller
Purple	Headlight switch to dim LED 50% when headlights are on



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A fault indication will cause the LED to blink at a slow rate. Fault conditions include voltage less than 11 or over 16.5, sensor open circuit, or sensor short circuit.

Haltech Wideband Wiring:

- Red Switched 12v
- Black wires Ground
- White 0-5v Output 1 (Sensor 1 with yellow band)
- Blue 0-5v Output 2 (Sensor 2)

Haltech EMS Wiring:

- C1 Switched 12v (Tap into wire)
- C10 Ground (Tap into wire)
- C7 O2 Input Bank 1 (CUT wire and solder wideband output onto end going into Haltech)
- C9 O2 Input Bank 2 (CUT wire and solder wideband output onto end going into Haltech)

* IF ONLY USING 1 WIDEBAND, CONNECT TO BOTH PINS C7 AND C9

** BE SURE TO CALIBRATE WIDEBANDS IN ECU MANAGER AS: 0v = 10AFR, 5v = 20AFR



(CONNECTOR SHOWN FROM WIRE SIDE)

Haltech Gauge Wiring:

- Red Switched 12v
- Black Ground
- Blue 0-5v Input from wideband controller
- Purple Headlight switch to dim LED 50% when headlights are on

