



WIRING SCHEMATIC  
FOR STC

LAST UPDATED  
28/10/14

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**NEEDS FIRMWARE  
V10.00 AND HIGHER**

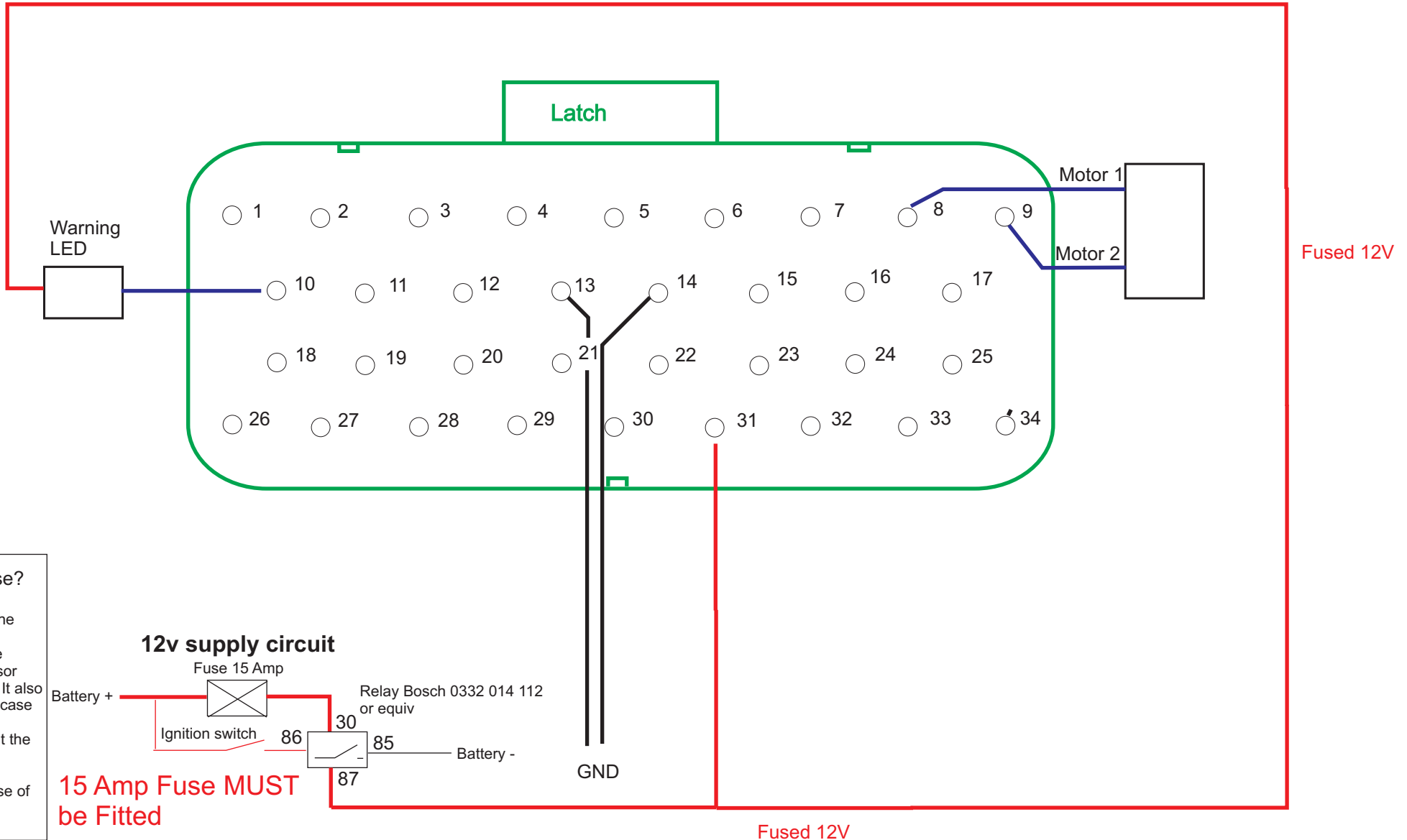
Revision History

- 30/3/11 Swapped Pins 1 & 4 on 0280 750 097 Body
- 26/1/12 Added Ford Focus Connections
- 6/2/12 Added BMW E46 Connections
- 8/2/12 Reverse Pin Numbers of Focus TB Connector
- 29/2/12 Add Lotus Elise Set
- 29/12/12 Add BMW Mini Set
- 1/3/12 Add drawing of double sensor connections
- 19/4/12 Add Vx220 Connections
- 15/8/13 Add Toyota 1ZZ Connections
- 20/12/13 Add Polaris Twin Body Connections
- Change Pin Numbers on 1ZZ TB Connections
- 11/3/14 Add Jenvey Details
- 22/5/14 Add Subaru STI Details
- 27/10/14 Add Aston Martin V8 Details

The STC is sold for competition use only

**STC Power Connections**

Drawn from pin insertion side  
Note this connector has Three keyways in total



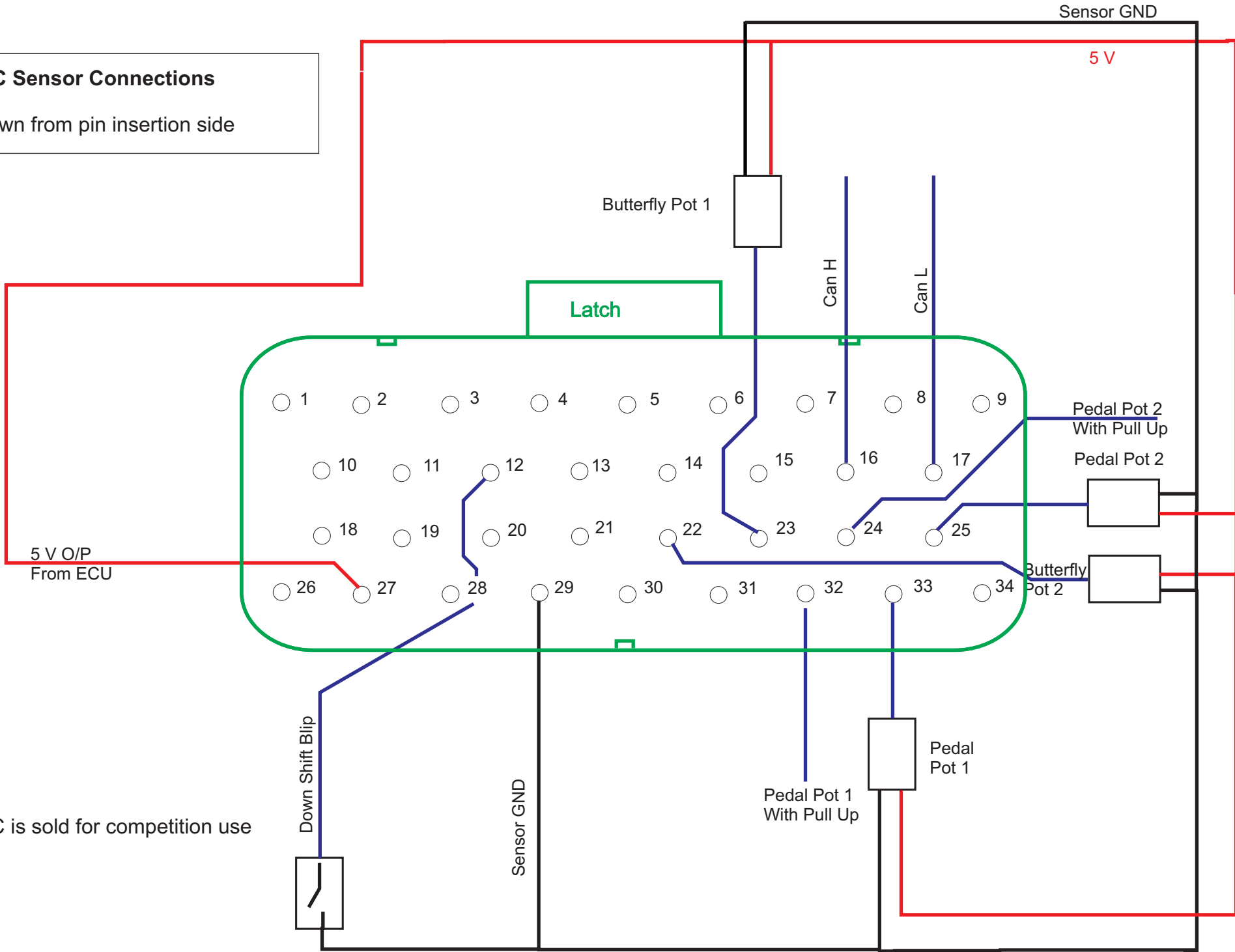
**Why The Fuse?**

The fuse protects the ECU in the case of severe errors in the wiring (12V to Sensor GND for instance). It also protects the unit in case of reverse battery connection. Without the fuse the unit will CERTAINLY be damaged in the case of a reversed battery connection.

**15 Amp Fuse MUST  
be Fitted**

Fused 12V

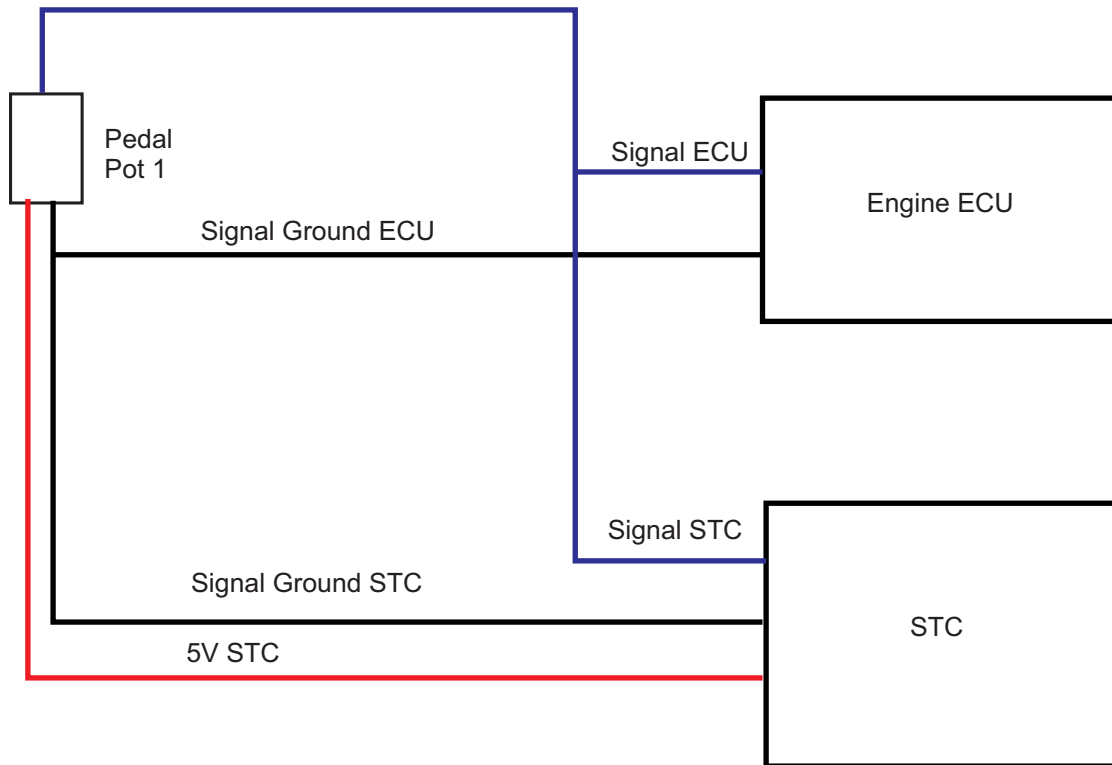
**STC Sensor Connections**  
Drawn from pin insertion side



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## Double Sensor Connections

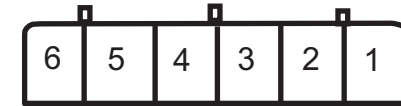
Where a sensor must be connected to both the STC AND the engine ECU this MUST be done as below. If you do not you will be relying on power grounds and excess noise will be introduced into at least one of the signals.



## Lotus Elise Toyota 2ZZ Connections

Pedal Sensor GM A116J0003L

Connections shown looking at sensor

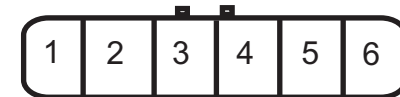


- 1 = Pedal Sensor 1 (TC Pin 33)
- 2 = Signal GND
- 3 = Signal GND
- 4 = Pedal Sensor 2 (TC Pin 25 & ECU Ana1 Input)
- 5 = 5V
- 6 = 5V

## Throttle Body Connections

Toyota 22030, 7K22, 04293

Connections shown looking at body



- 1 = Butterfly Sensor 1 & ECU TPS Input
- 2 = 5V
- 3 = Butterfly Sensor 2
- 4 = Signal GND
- 5 = Motor 2
- 6 = Motor 1

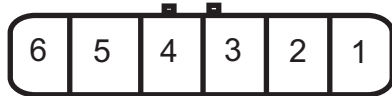
Use Throttle Body Mode 5

Connections are shown for information only. It is up to the user to ensure these are correct for their application.

## Honda K20 Connections

### Pedal Sensor

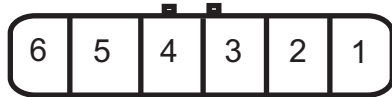
Connections shown looking at sensor



- 1 = 5V
- 2 = Signal GND
- 3 = Pedal Sens 1 (TC Pin 33)
- 4 = 5V
- 5 = Signal GND
- 6 = Pedal Sensor 2 (TC Pin 25 & ECU Pin Ana1 Input)

### Throttle Body

Connections shown looking at body



- 1 = Motor 2 (TC Pin 9)
- 2 = Motor 1 (TC Pin 8)
- 3 = Signal GND
- 4 = Butterfly Sensor 2
- 5 = 5V
- 6 = Butterfly Sensor 1 & ECU TPS Input

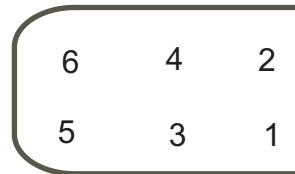
Use Throttle Body Mode 2

Connections are shown for information only. It is up to the user to ensure these are correct for their application.

## VW 1.8T Connections

### Pedal Sensor Bosch 021 907 475D

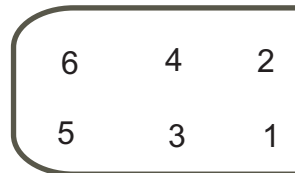
Connections shown looking at sensor



- 1 = Pedal Sensor 2 (TC Pin 25 & ECU Ana1 Input)
- 2 = 5V
- 3 = Signal GND
- 4 = Signal Gnd
- 5 = 5V
- 6 = Pedal Sensor 1 (TC Pin 33)

### Throttle Body Bosch 0280 750 036

Connections shown looking at body



- 1 = Butterfly Sensor 1
- 2 = 5V
- 3 = Motor 1
- 4 = Butterfly Sensor 2 & ECU TPS Input
- 5 = Motor 2
- 6 = Signal Gnd

Use Throttle Body Mode 0

Connections are shown for information only. It is up to the user to ensure these are correct for their application.

## Peugeot/Citroen

### Pedal Sensor Valeo 445 821 001 001

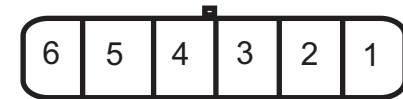
Connections shown looking at sensor



- 1 = Pedal Sensor 2 (TC Pin 24 Pull Up & ECU Ana 1 Input)
- 2 = Pedal Sensor 1 (TC Pin 32 Pull Up)
- 3 = 5V
- 4 = Signal Gnd

### Throttle Body Bosch 0280 750 085

Connections shown looking at body



- 1 = Butterfly Sensor 1
- 2 = 5V
- 3 = Butterfly Sensor 2 & ECU TPS Input
- 4 = Signal Gnd
- 5 = Motor 1
- 6 = Motor 2

Use Throttle Body Mode 0

Connections are shown for information only. It is up to the user to ensure these are correct for their application.

### More Bosch Connections

Pedal Sensor Bosch 0280 752 211

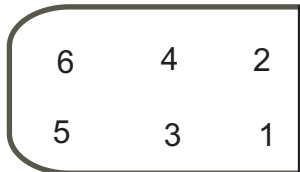
Connections shown looking at sensor



- 1 = 5V
- 2 = 5V
- 3 = Signal GND
- 4 = Pedal Sensor 2 (TC Pin 25 & ECU Ana1 Input)
- 5 = Signal GND
- 6 = Pedal Sensor 1 (TC Pin 33)

Throttle Body Bosch 0280 750 097

Connections shown looking at body



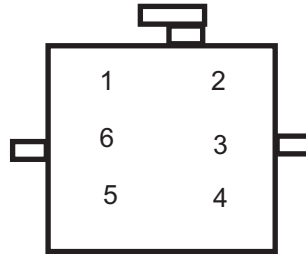
- 1 = Butterfly Sensor 2 & ECU TPS Input
- 2 = 5V
- 3 = Motor 1
- 4 = Butterfly Sensor 1
- 5 = Motor 2
- 6 = Signal Gnd

Use Throttle Body Mode 0

Connections are shown for information only. It is up to the user to ensure these are correct for their application.

### Ford Focus Connections

Connections shown looking at sensor



- 1 = 5V
- 2 = 5V
- 3 = Pedal Sensor 2 (TC Pin 25 & ECU Ana1 Input)
- 4 = Signal GND
- 5 = Signal GND
- 6 = Pedal Sensor 1 (TC Pin 33)

Throttle Body Connections

Connections shown looking at body



- 1 = Motor 1 (TC Pin 8)
- 2 = Motor 2 (TC Pin 9)
- 3 = Butterfly Sensor 2 & ECU TPS Input
- 4 = 5V
- 5 = Signal GND
- 6 = Butterfly Sensor 1

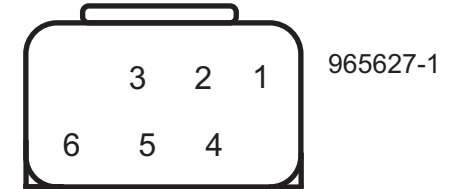
Use Throttle Body Mode 4

Connections are shown for information only. It is up to the user to ensure these are correct for their application.

### BMW E46 Connections

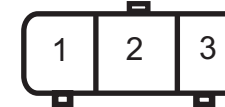
Pedal BMW 6 753 518 a

Connections shown looking at sensor



- 1 = Signal GND
- 2 = Signal GND
- 3 = 5V
- 4 = Pedal Sensor 2 (TC Pin 25 & ECU Ana1 Input)
- 5 = 5V
- 6 = Pedal Sensor 1 (TC Pin 33)

Throttle Body Connections



Potentiometer on Motor

- 1 = 5V
- 2 = Butterfly Sensor 1
- 3 = Signal Gnd

Potentiometer on Bodies

- 1 = 5V
- 2 = Butterfly Sensor 2 & ECU TPS Input
- 3 = Signal Gnd

Motor Connections



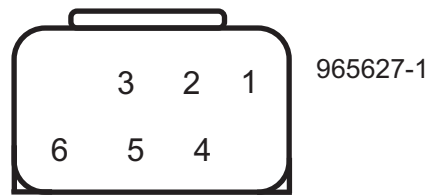
Use Throttle Body Mode 3

- 1 = Motor 2 (TC Pin 9)
- 2 = Motor 1 (TC Pin 8)

### BMW Mini Connections

Pedal BMW 259160-10

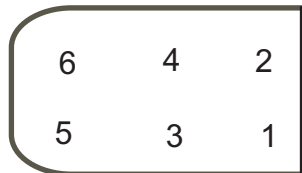
Connections shown looking at sensor



- 1 = Signal GND
- 2 = Signal GND
- 3 = 5V
- 4 = Pedal Sensor 2 (TC Pin 25 & ECU Ana1 Input)
- 5 = 5V
- 6 = Pedal Sensor 1 (TC Pin 33)

### Throttle Body VDO 1354 1 503 358 -03

Connections shown looking at body



- 1 = Butterfly Sensor 2 & ECU TPS Input
- 2 = 5V
- 3 = Motor 1
- 4 = Butterfly Sensor 1
- 5 = Motor 2
- 6 = Signal Gnd

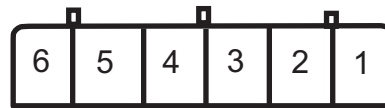
Use Throttle Body Mode 0

Connections are shown for information only. It is up to the user to ensure these are correct for their application.

### Vauxhall VX220 Connections

Pedal Sensor GM A116J0003L

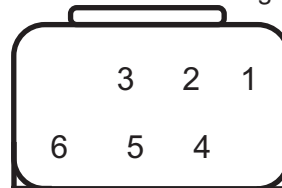
Connections shown looking at sensor



- 1 = Pedal Sensor 1 (TC Pin 33)
- 2 = Signal GND
- 3 = Signal GND
- 4 = Pedal Sensor 2 (TC Pin 25 & ECU Ana1 Input)
- 5 = 5V
- 6 = 5V

### Throttle Body Bosch 0280 750 084

Connections shown looking at body



- 1 = Motor 2
- 2 = 5V
- 3 = Signal GND
- 4 = Motor 1
- 5 = Butterfly Sensor 1 & ECU TPS Input
- 6 = Butterfly Sensor 2

Use Throttle Body Mode 0

Connections are shown for information only. It is up to the user to ensure these are correct for their application.

### Toyota 1ZZ Connections

Pedal Sensor

Connections shown looking at sensor



- 1 = 5V
- 2 = Signal GND
- 3 = Pedal Sens 1 (TC Pin 33)
- 4 = 5V
- 5 = Signal GND
- 6 = Pedal Sensor 2 (TC Pin 25 & ECU Pin Ana1 Input)

Throttle Body

Connections shown looking at body



- 1 = Butterfly Sensor 1 & ECU TPS Input
- 2 = 5V
- 3 = Butterfly Sensor 2
- 4 = Signal GND
- 5 = Motor 2 (TC Pin 9)
- 6 = Motor 1 (TC Pin 8)

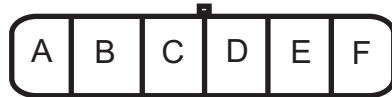
Use Throttle Body Mode 6

Connections are shown for information only. It is up to the user to ensure these are correct for their application.

## Polaris Connections

### Pedal Sensor

Connections shown looking at sensor



- A = Pedal Sens 1 (TC Pin 33)
- B = Signal GND
- C = 5V
- D = 5V
- E = Signal GND
- F = Pedal Sensor 2 (TC Pin 25 & ECU Pin Ana1 Input)

### Throttle Body

Connections shown looking at body



- 1 = Motor 1 (TC Pin 8)
- 2 = Motor 2 (TC Pin 9)
- 3 = Signal GND
- 4 = Butterfly Sensor 1
- 5 = 5V
- 6 = Butterfly Sensor 2 & ECU TPS Input

Use Throttle Body Mode 7

Connections are shown for information only. It is up to the user to ensure these are correct for their application.

## Jenvey Connections

### Pedal Sensor

Use any of the Bosch pedals on previous pages

### Throttle Body

Use Two pots, a P & G one3 on the motor going 0 - 5V, a Colvern on the bodies going 5V - 0. Because of the many different possible arrangements it is not possible to be more specific. Similarly motor connections also depend on the direction of rotation.

## Subaru 2.5 STI Connections

### Pedal Sensor

Connections shown looking at sensor



- 1 = 5V
- 2 = Pedal Sens 1 (TC Pin 33)
- 3 = 5V
- 4 = Signal GND
- 5 = Pedal Sensor 2 (TC Pin 25 & ECU)
- 6 = Signal GND

### Throttle Body

Connections shown looking at body



- 1 = Motor 1 (TC Pin 8)
- 2 = Motor 2 (TC Pin 9)
- 3 = Signal GND
- 4 = Butterfly Sensor 1
- 5 = 5V
- 6 = Butterfly Sensor 2 & ECU TPS Input

Use Throttle Body Mode 8

Connections are shown for information only. It is up to the user to ensure these are correct for their application.

## Aston Martin V8 Connections

### Pedal Sensor

Connections shown looking at sensor



LHS Connector  
When Looking  
to Front of Car

- 1 = 5V
- 2 = Pedal Sens 1 (TC Pin 33)
- 3 = Signal GND
- 4 = No Connection
- 5 = Signal GND
- 6 = Pedal Sensor 2 (TC Pin 25 & ECU)
- 7 = 5V

### Throttle Body

- 1 = Motor 1 (TC Pin 8)
- 2 = 5V
- 3 = Signal GND
- 4 = Motor 2 (TC Pin 9)
- 5 = Butterfly Sensor 2 & ECU TPS Input
- 6 = Butterfly Sensor 1

Use Throttle Body Mode 9

Connections are shown for information only. It is up to the user to ensure these are correct for their application.