



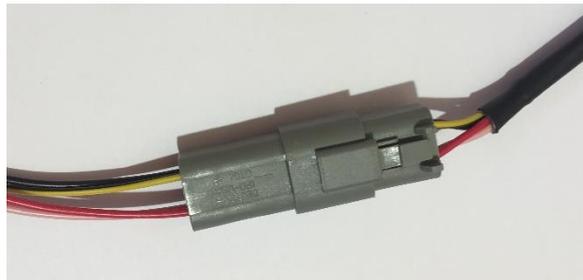
Installation Instructions – BMW M57/47N Stand Alone Harness

The wiring loom supplied has 4 connectors, a 12v supply and 2 grounds. These connections are:

1. Plug for the Body Loom
2. Plug for the BMW/Bosch Engine ECU
3. Plug for the Throttle Pedal
4. Earth Ring x2
5. 12v ECU supply
6. OBD II Connector (For diagnostic purposes)

Body Loom Connection

Firstly, the correct connections to the vehicle must be found and crimped/soldered to the 4 pin Deutsch connector, shown below.



The wires used to connect to the body loom are shown in Table 1. These must be securely connected through the appropriate protection as shown in Table 1.

Table 1: Body Loom Connections

Body Loom Connector	Wire Colour	Connection	
Pin 1	Constant 12v	Yellow/Black	5A Fused
Pin 2	Ignition 12v	Red/Black	5A Fused
Pin 3	Oil Pressure Lamp	Red	Connect to +12v through bulb
Pin 4	RPM	Pink	Output to standard rpm gauge

- Pin 1 is a constant 12 volt supply from the car battery, this must supply power after the ignition is turned off. This should be fused to 5 Amps.
- Pin 2 is an ignition 12 volt and should be fused to 5 Amps.
- Pin 3 is an output from the loom to power an oil pressure lamp, this lights if the engine suffers a significant loss in oil pressure.
- Pin 4 is an output RPM signal from the ECU.

Bosch Engine ECU Connection

This connector connects directly to the Engine ECU as shown in the picture below.

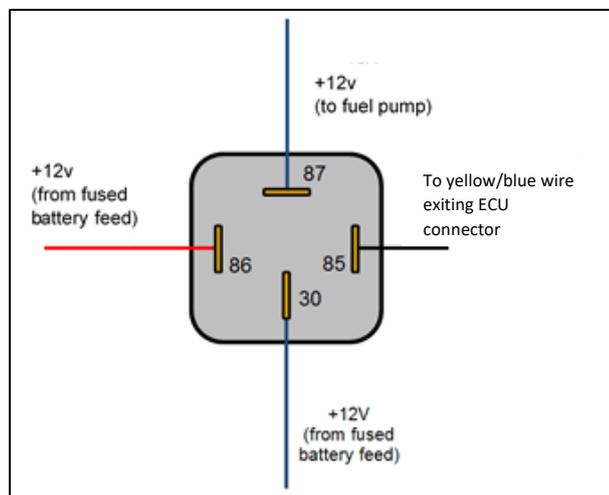
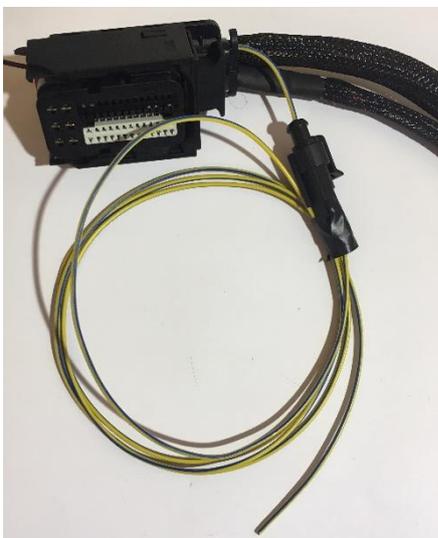


ECU Power

The free length RED cable at ECU connector must be connected to the red/blue cable exiting the engine harness. This feed to the harness is supplied by the blue DDE main relay built into the engine harness. Using the crimp tube provided, remove the black connector, join and then heat shrink the connection.

Fuel Pump

The Yellow/Blue wire provides fuel pump control. It is an ECU switched earth for a Fuel Pump Relay which in turn powers the fuel pump. Connect constant fused 12v to the '86' pin and the '85' to the yellow/blue wire.



Throttle Pedal Connection

This connector connects directly to the Throttle Pedal as shown in the picture below.



Earth Ring

The earth ring must be connected to ground. This **MUST** be a secure and strong connection to ground to avoid problems later on. The ground terminal must be clean of rust, paint and dirt to ensure a solid ground connection is made.



12V DDE Relay Supply Red Ring Terminal

This ring terminal from engine harness blue DDE main relay should be attached to a source of constant 12 volts e.g. Battery (+) Terminal. 12v supply **MUST NOT** be removed from ECU within 5 minutes of engine switch off. This allows time for the ECU to shut down correctly.



Ground Black Ring

Terminal

This ring terminal should be attached to a constant ground e.g. Battery (-) Terminal. This **MUST** be a secure and strong connection to ground. The ground terminal must be clean of rust, paint and dirt to ensure a solid ground connection is made.



OBD II Connector

The OBD port is used for diagnostics and should be located inside the vehicle. It does not need to be connected to anything for the loom to function.

The 2 pin connector provides an optional connection to the engine CAN Bus.

Pin 1	Yellow - CAN High
Pin 2	Green - CAN Low



If you have any queries with the installation, please don't hesitate to contact us.