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Fitting Guide - SmartLink RCL

READ THIS FITTING GUIDE IN FULL BEFORE COMMENCING INSTALLATION

IMPORTANT

BEFORE COMMENCING ANY ELECTRICAL WORK DISCONNECT THE BATTERY EARTH TERMINAL.

INSTALLATION TO BE COMPLETED BY AN APPROVED INSTALLER

Harness Layout

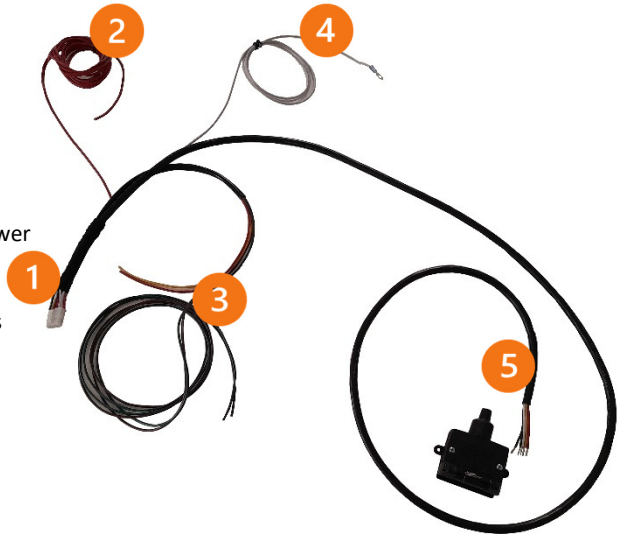
1) **ECU to Harness Connector**

2) **Power Wire (Long RED wire)** - Connects to +12V vehicle power

3) **Input connections -** Connects to vehicle lighting signal wires

4) **Ground Wire with ring terminal** - Connect to ground

5) **Output connections -** Connect to trailer socket



Tools Required

1. **Screwdriver (Philips Head) to connect the five-core wire harness to the 7pin trailer socket** 5
2. **Soldering iron/solder (to solder SmartLink harness input signal wires** 3 **to vehicle lighting signal wires).**

Alternatively…

If you do not have a soldering iron, you can use blue quick splice wire connectors (not supplied) for each signal input.

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STEP 1 – INPUT CONNECTIONS

1) Locate the corresponding vehicle output wires for the tail, stop, left indicator and right indicator.
RECOMMENDED: A test light or multi-meter to test which wire belongs to stop, tail, left indicator and right indicator to identify the corresponding signal wires.

2) Once all vehicle output signal wires are identified, solder or splice (using a quick splice wire connector) to the corresponding SmartLink harness input wire. i.e. Vehicle STOP light wire to SmartLink Red input wire.

3) Repeat for each vehicle output signal to the corresponding SmartLink input wire – see table below:

For vehicles with **SEPARATE** STOP and TAIL light signal feed wires.
(i.e. one wire for the stop light and another wire for the taillights).

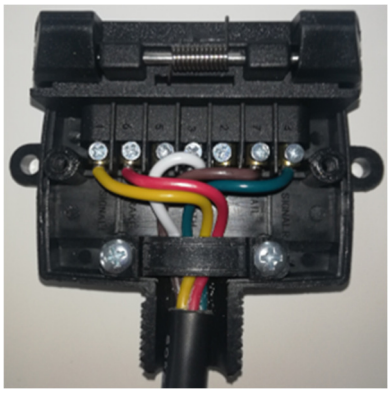
Vehicle Signal Output	SmartLink Input Wire Color
RIGHT indicator	GREEN
LEFT indicator	YELLOW
TAIL/RUNNING light	BROWN
STOP Light on	RED

For vehicles with **COMBINED** STOP and TAIL light signal feed wires.
(i.e. one wire controls both the stop lights and taillights).

Vehicle Signal Output	SmartLink Input Wire Color
RIGHT indicator	GREEN
LEFT indicator	YELLOW
NOT CONNECTED	BROWN
Combined **STOP** and **TAIL** signal feed wire	RED

STEP 2 – OUTPUT CONNECTIONS

Connect 5 core trailer cable to the trailer socket.



1) Fit the cable grommet over the trailer cable first
2) Remove lid & screw output wires into the terminal output, as below:
   a) Green = Right Indicator
   b) Yellow = Left Indicator
   c) Brown = Taillight
   d) Red = Stop/Brake light
   e) White = Earth/Ground wire
3) Secure the trailer cable with the cross member (2 x screws)
4) Fit the trailer socket cover (2 x screws)
5) Push the grommet onto the trailer socket for a secure seal.
6) Mount the trailer socket to the bumper or towbar mount if available using 2 x M4 screws with nylon lock nuts (not supplied)

STEP 3 – POWER SOURCE

1) Identify a suitable constant +12V power source (e.g., a constant powered boot light)
2) Splice or solder the RED power wire (2) (length = ~3750mm) to the chosen power source.
3) Check the power source fuse rating in the vehicles fuse box. If it is less than 10Amps, it is recommended to replace it with one that is 10Amps.

STEP 4 – EARTH/GROUND WIRE CONNECTION

1) Identify a suitable, clean ground connection for maximum grounding conductivity. Typically, the vehicle body or chassis.
2) Securely fasten the White earth wire (4) with the ring terminal to the selected grounding point. This can be an existing grounded screw/nut location or use a self-tapping automotive screw (not supplied) to mount to a grounded location of your choice.

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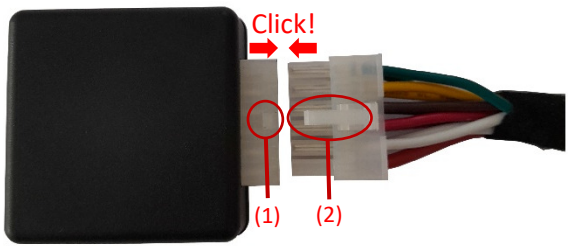
STEP 5 – CONNECT THE ECU MODULE TO THE HARNESS

1) Plug the ECU module into the wire harness connector, ensuring the ECU plug and harness mating plug lock tab (1) and latch (2) snap together. 1



STEP 6 – TESTING

1) Reconnect the battery.

Once all connections have been made, test to verify both the vehicle lights and the trailers lights are working. The easiest way is to connect to a trailer, trailer test light board or similar towed device and check the lights.

If you do not have a trailer available to test with you can use a 'test light' or 'multi-meter' to test. Simply place the test device earth probe into the trailer socket earth pin (the middle hole as shown in the attached image labelled "trailer socket pinout guide.png"). Then place the other test probe into the relevant output you want to test, again refer to the trailer socket pinout guide image.

If you are experiencing any difficulties during the installation process, please contact the supplier you purchased your SmartLink product, as they have specialist knowledge for your specific vehicle make and model.