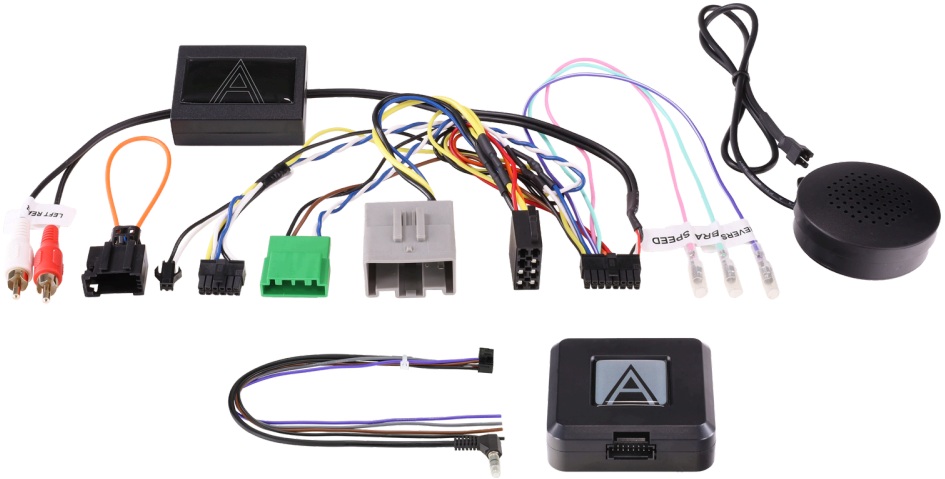
Aerpro
In-Car Tech Solutions

INSTALLATION GUIDE

SWLR10C

Steering Wheel Control Interface

For Land Rover vehicles



- Retain steering wheel control functionality
- Replace factory radio
- Retains the MOST fibre-optic amplified system

OVERVIEW

Before you start

Vehicle application

LAND ROVER

Freelander II	2006-2014

Vehicles with MOST OEM Amplified System

Does not support date or time retention through the OEM system. OEM display is not supported. The Land Rover start logo is displayed.

Key features

- Retain steering wheel control functionality
- Replace factory radio
- Retains the MOST fibre-optic amplified system
- Outputs for park brake, reverse, speed pulse
- Software updateable

The MHRILR10 allows for the retention of the steering wheel controls as well as other vital features including the MOST Fibre-Optic amplified system when installing an aftermarket unit into the vehicle. This interface features selectable dipswitches for dedicated applications, simply refer to the provided table for the correct configuration ensuring seamless integration.

Prior to installation

- Installation requires a certain level of technical knowledge.
- Prior to installation, it is important to read the manual.
- Select a location for installation that is dry and free from heat sources.
- It is essential to use the correct tools during installation to prevent any damage to the vehicle or the product itself.
- Please note that we cannot be held liable for any issues arising from improper installation.
- **Before proceeding with installation, disconnect the negative battery terminal and ensure the key is removed from the ignition.**

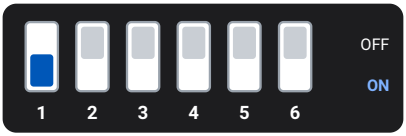
Installation at a glance

1. **Set**
   Set the dipswitches for your stereo brand (page 3)
2. **Connect**
   Remove the factory stereo and connect the interface (page 5)
3. **Test**
   Check the stereo and steering wheel controls (page 7)

STEP 1

Set the dipswitches

This interface includes a set of dipswitches. Consult the dipswitch selection guide to select the appropriate configuration. To activate a dipswitch, press it downward into the 'ON' position.



Example: Kenwood Type 1

MANUFACTURER	SYSTEM	DIP					CONNECTION
		1	2	3	4	5	
AERPRO TYPE 1	Analog	OFF	OFF	OFF	**ON**	**ON**	3.5MM JACK PLUG
AERPRO TYPE 2	Learning	**ON**	**ON**	**ON**	OFF	OFF	KEY 1 / KEY 2 / KEY GND WIRES
ALPINE TYPE 1	IR Data	OFF	**ON**	OFF	OFF	OFF	3.5MM JACK PLUG
ALPINE TYPE 2	Learning	**ON**	**ON**	**ON**	OFF	OFF	KEY 1 / KEY 2 / KEY GND WIRES
ANALOG SINGLE WIRE	Learning	**ON**	**ON**	**ON**	OFF	OFF	BROWN IR / KEY 1 WIRE
BLAUPUNKT	Learning	**ON**	**ON**	**ON**	OFF	OFF	3.5MM JACK PLUG
CLARION	IR Data	**ON**	OFF	OFF	**ON**	OFF	3.5MM JACK PLUG
ESX	Learning	OFF	**ON**	**ON**	OFF	OFF	KEY 1 / KEY 2 / KEY GND WIRES
GRUNDIG	IR Data	OFF	**ON**	OFF	**ON**	OFF	BROWN IR / KEY 1 WIRE
JBL	Learning	OFF	**ON**	**ON**	OFF	OFF	KEY 1 / KEY 2 / KEY GND WIRES
JVC	IR Data	OFF	OFF	**ON**	OFF	OFF	BROWN IR / KEY 1 WIRE
KENWOOD TYPE 1	IR Data	**ON**	OFF	OFF	OFF	OFF	BROWN IR / KEY 1 WIRE
KENWOOD TYPE 2	IR Data	**ON**	**ON**	OFF	OFF	OFF	BROWN IR / KEY 1 WIRE
KEY 1 / KEY 2	Learning	OFF	OFF	OFF	**ON**	OFF	KEY 1 / KEY 2 / KEY GND WIRES
PHILIPS	IR Data	OFF	**ON**	OFF	**ON**	OFF	BROWN IR / KEY 1 WIRE
PIONEER TYPE 1	Analog	OFF	OFF	OFF	**ON**	**ON**	3.5MM JACK PLUG
PIONEER TYPE 2	Analog	OFF	OFF	OFF	**ON**	OFF	3.5MM JACK PLUG
SONY	Analog	OFF	OFF	**ON**	**ON**	OFF	3.5MM JACK PLUG
ZENEC	IR Data	**ON**	**ON**	OFF	**ON**	OFF	BROWN IR / KEY 1 WIRE

Shaded cells are ON. Find your stereo brand, then set the switches to match that row.

REFERENCE

Stereo modes and wiring

ISO connector wiring key

Purple	Right Rear Speaker +	**Purple/Black**	Right Rear Speaker -
Green	Left Rear Speaker +	**Green/Black**	Left Rear Speaker -
Grey	Right Front Speaker +	**Grey/Black**	Right Front Speaker -
White	Left Front Speaker +	**White/Black**	Left Front Speaker -
Yellow	Permanent 12V	**Black**	Ground
Red	Ignition 12V	**Orange**	Illumination

Flying wire wiring key

Pink	Speed Pulse - 0 to 12V Square Wave @ 1Hz/Kph	**Green**	Park Brake
Purple/White	Reverse Gear - 250mA	**Orange**	Illumination - 250mA
Red/White	Acc 12V - 250mA	**Yellow RCA**	Camera

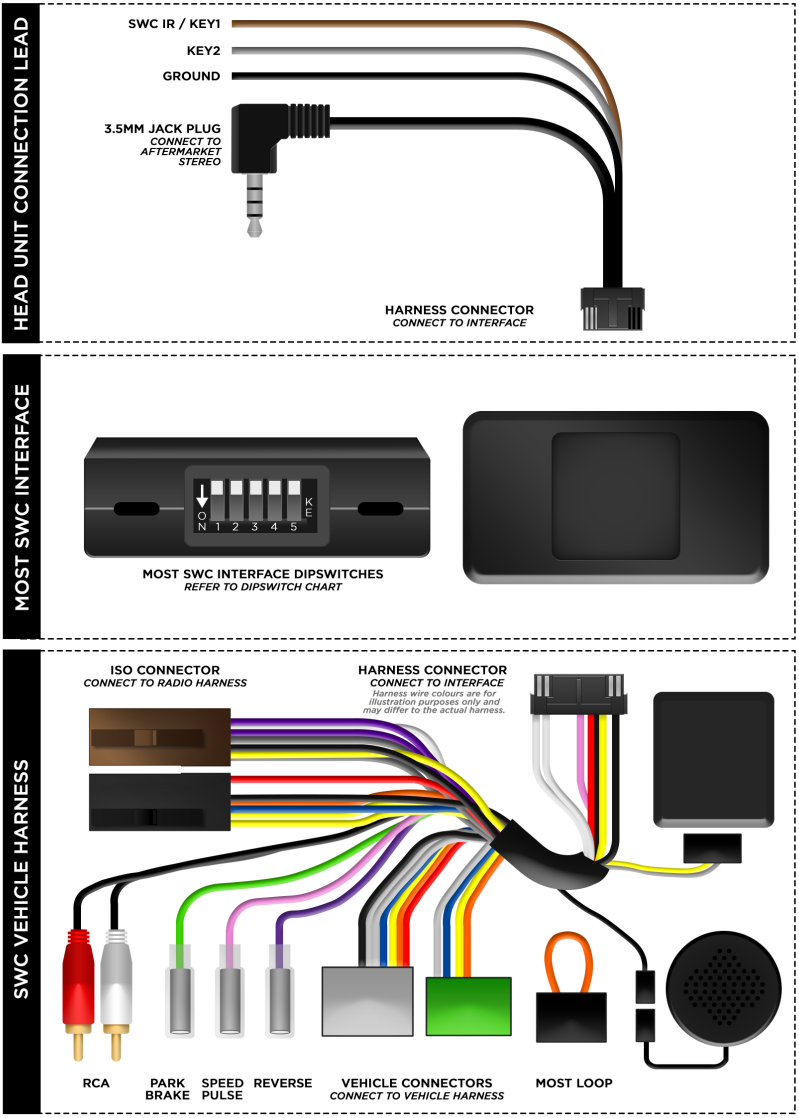
Outputs & ratings

Standby Current	Operating Voltage	Operating Temperature
<3mA	**6V to 16V**	**-20C to 85C**

*rated at 25 degrees Centigrade

STEP 2

Connect the interface



Before installation

Prior to installing the interface, it is essential to remove and disconnect the factory stereo. For guidance on this process, please refer to the vehicle owner's manual/handbook or seek assistance from a professional.

Installation

1. Take the interface, then connect the head unit connection lead and the steering wheel harness connectors to their respective ports.

2. Connect the head unit connection lead to the steering wheel remote input on the rear side of the aftermarket stereo. Connection methods vary based on the stereo brand, utilising either a 3.5mm jack connector or brown SWC IR wire .

   For specific connection guidance, refer to your aftermarket stereo's installation manual if not clearly labelled on the stereo harness.

3. Connect the power/speaker ISO connector from the interface to the corresponding power/speaker ISO connection on the aftermarket stereo.

   For aftermarket stereos lacking an ISO connector, refer to the "Wiring Key" on page 4 for guidance on connecting wires. Certain interfaces may also include extra "flying" wires for additional functionalities such as parking brake trigger, reverse gear, and speed pulse. Further information on these wires is available in the "Flying Wire Wiring Key" section.

4. Connect the vehicle-specific connectors from the interface harness to the corresponding connectors on the vehicle harness.

5. Connect the flying wires on the harness to the rear of the stereo (if applicable).

6. Connect the antenna adapter to the vehicle's existing connection at the rear of the aftermarket stereo.

7. When installing an aftermarket reverse camera, connect the yellow RCA from the harness to the yellow RCA of the aftermarket camera. (If supported by the interface and vehicle)

8. When installing a DAB antenna, ensure to connect the DAB aerial connector to the rear of the new stereo.

9. After connecting all wires (along with any additional accessories), it's crucial to thoroughly test the stereo and steering wheel controls before reassembling the dashboard. If steering wheel controls are unresponsive, inspect connections and check dipswitch settings. Repeat the connection process if necessary, following the outlined steps.

Installing the fibre-optic loop

Unscrew the radio's front panel and disconnect both the MOST connector and the Green connector.

Install the MOST Loop - Connect the supplied MOST loop into the MOST connector from the back of the radio button panel as shown in picture 2.

With the panel removed, take out the silver radio box and disconnect the MOST connector along with the Grey vehicle connector.

This MOST connector (Picture 3) must be connected to the interface to complete the installation.

1 2 3

STEP 3

Steering wheel controls



A Volume Up
B Volume Down
C Mode
D Track Up
E Track Down
F Phone Pick Up
G Phone Hang Up
H Voice

The provided diagram, while meticulously researched, serves as an example only. Actual steering wheel control configurations may vary dependant on each vehicle.

Test before you reassemble the dash

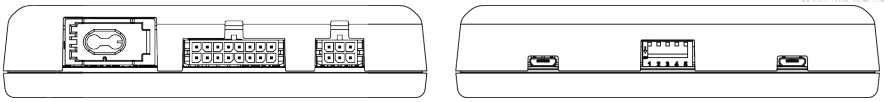
With everything connected, test the stereo and every steering wheel button before you put the dash back together.

Manufacturer system dip switch settings additional comments 1 2 3 4 5

RESERVED	NA	OFF	OFF	OFF	OFF	OFF	SW UPDATE BOOT MODE
AERPRO	Analog	OFF	OFF	OFF	**ON**	OFF	MALE 3.5MM JACK
ALPINE	IR DATA	OFF	**ON**	OFF	OFF	OFF	MALE 3.5MM JACK
CLARION	IR DATA	**ON**	OFF	OFF	**ON**	OFF	MALE 3.5MM JACK
GRUNDIG	IR DATA	OFF	**ON**	OFF	**ON**	OFF	BROWN SWC IR
JVC	IR DATA	OFF	OFF	**ON**	OFF	OFF	BROWN SWC IR
KENWOOD 1	IR DATA	**ON**	OFF	OFF	OFF	OFF	BROWN SWC IR
KENWOOD 2	IR DATA	**ON**	**ON**	OFF	OFF	OFF	BROWN SWC IR
LG	Analog	OFF	OFF	**ON**	**ON**	OFF	MALE 3.5MM JACK
PHILIPS	IR DATA	OFF	**ON**	OFF	**ON**	OFF	BROWN SWC IR
PIONEER 1	Analog	OFF	OFF	OFF	**ON**	**ON**	MALE 3.5MM JACK
PIONEER 2	Analog	OFF	OFF	OFF	**ON**	OFF	MALE 3.5MM JACK
SONY	Analog	OFF	OFF	**ON**	**ON**	OFF	MALE 3.5MM JACK
ZENEC	IR DATA	**ON**	**ON**	OFF	**ON**	OFF	BROWN SWC IR
KEY1 / KEY2	Analog	OFF	OFF	OFF	**ON**	**ON**	KEY1 / KEY2 WIRE
ANALOG SINGLE WIRE	Analog	ON	ON	ON	**ON**	**OFF**	BROWN SWC IR / KEY1

PLEASE NOTE: The dipswitch settings for the MOST SWC interfaces differ from those for the SWC interface range. Please refer to the appropriate dipswitch table in the instruction guides for accurate configuration.

SWC MOST interface



Software update

The interface software can be updated using the two micro USB ports on the device. These ports serve specific purposes: one is dedicated to updating the MOST software, while the other is for updating the CAN Bus software. By connecting to these ports, users can ensure their interface remains up-to-date, maintaining optimal performance and compatibility with their vehicle's systems.

Software update instructions can be found in a separate guide on our website.

Technical support

If you need assistance setting up or using your Aerpro product now or in the future, call Aerpro Support Australia.

03 8587 8889

Mon to Fri, 9am to 5pm AEST. If you would like to download a digital copy of this manual, or other Aerpro manuals/software, please visit aerpro.com