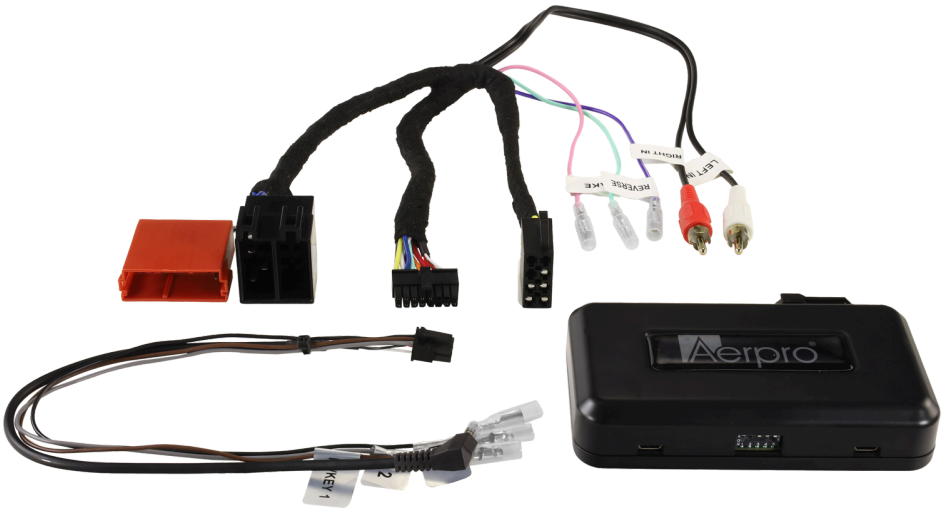
Aerpro
In-Car Tech Solutions

INSTALLATION GUIDE

**SWPS5C**

# Steering Wheel Control Interface

## For Porsche vehicles




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

OVERVIEW

# Before you start

### Vehicle application

**PORSCHE**

| | |
|---|---|
| 911 (2nd Gen) (997) | 2004-2008 |
| Boxster (987) | 2004-2008 |
| Cayman (987c) | 2005-2009 |

**For vehicles equipped with PCM3.0 touch screen navigation and a mini-ISO vehicle connector**

*Please Note: The new radio must have RCA audio out connectors.*

### 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

ACC 12V & ILLUMINATION

The MHRIPO5 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.**

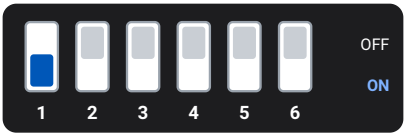
### Installation at a glance

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 |

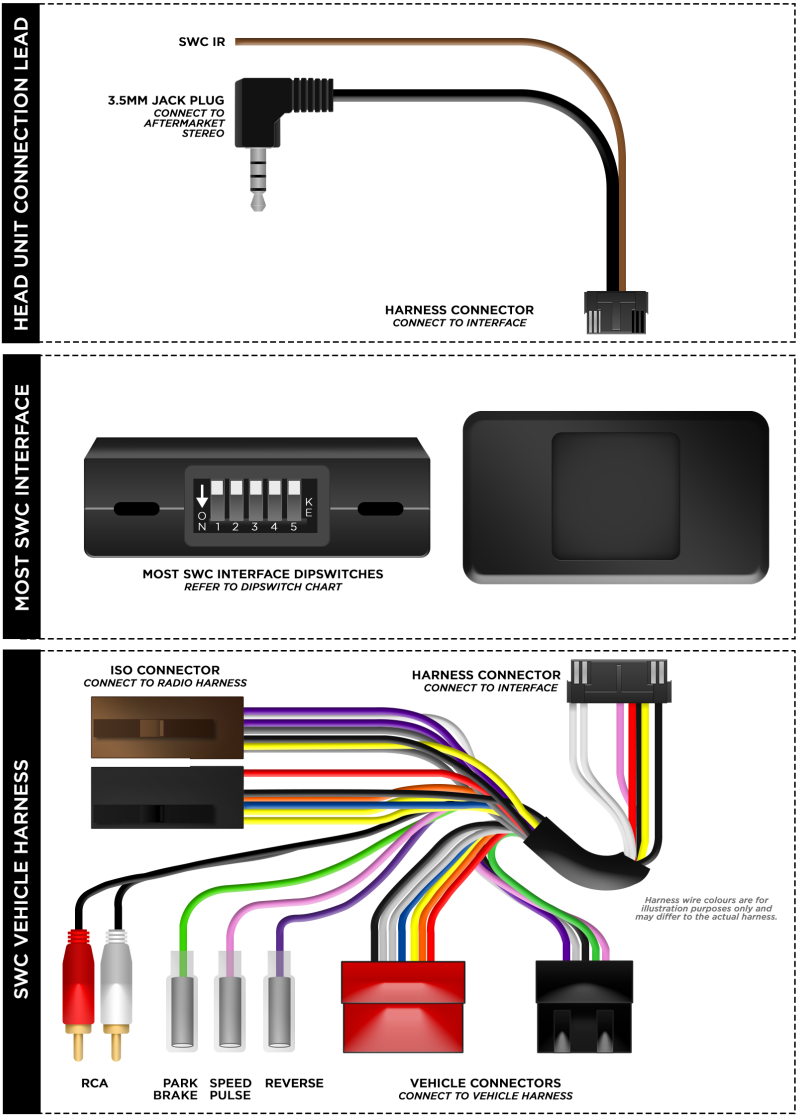
## Outputs & ratings

| 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 cable

To adapt to the MOST interface, you must remove the original fibre-optic connection. 1. Place the amplifier interface into the black connector housing provided with this kit and snap it into place. (Image A)

2. From the original fibre-optic connector: Using a pick tool, carefully pull the tab toward the outer edge of the connector housing. Gently remove the grey fibre-optic insert from the connector. (Image B)

3. From the MOST interface: Push the tab toward the grey dust cover. Using needle-nose pliers, remove the grey dust cover. Insert the factory fibre-optic cables into the MOST interface's black connector housing in place of the grey connector. (Image C)

STEP 3

# Steering wheel controls




**A** Volume Up/ Volume Down (Scroll) Mute (Push)
**B** Source
**C** Phone Pick Up
**D** Track Up/ Track Down (Scroll) Band (Push)
**E** Phone Hang Up

*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

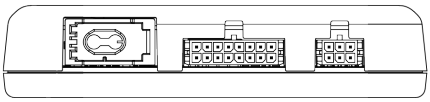
With everything connected, test the stereo and every steering wheel button before you put the dash back together.

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

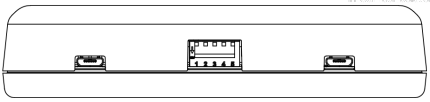
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **RESERVED** | NA | OFF | OFF | OFF | OFF | OFF | SW UPDATE BOOT MODE |
| **AERPRO** | Analog | OFF | OFF | OFF | **ON** | OFF | MALE 3.5MM JACK |
| **ALPINE** | IR DATA | OFF | **ON** | OFF | OFF | OFF | MALE 3.5MM JACK |
| **CLARION** | IR DATA | **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



FIBRE-OPTIC CONNECTOR PORT | HARNESS CONNECTOR PORT | HEAD UNIT CONNECTION LEAD PORT



CAN USB UPDATE | DIPSWITCHES | MOST USB UPDATE

## 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