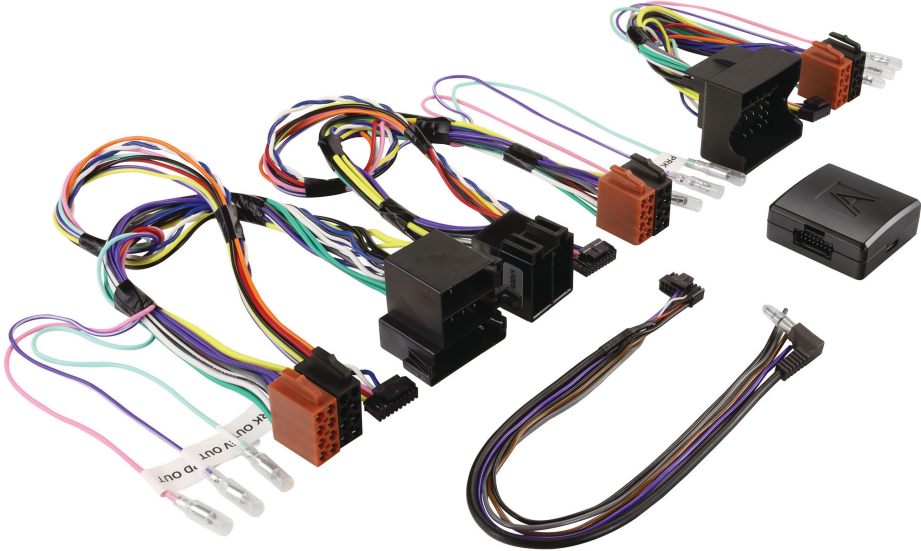


# SWMC00C

## RETENTION OF VEHICLE FACTORY STEERING WHEEL CONTROLS TO SUIT MERCEDES VEHICLES



## USER MANUAL

### VEHICLE APPLICATION

#### To Suit MERCEDES-BENZ

|               |      |           |
|---------------|------|-----------|
| A-Class       | W169 | 2004-2012 |
| B-Class       | W245 | 2005-2011 |
| C-Class       | W203 | 2000-2007 |
| R-Class       | W251 | 2007-2013 |
| CLK           | W209 | 2004-2009 |
| SLK           | R171 | 2008-2011 |
| ML            | W164 | 2005-2011 |
| Viano         | W639 | 2004-2015 |
| Vito          | W639 | 2004-2015 |
| Sprinter      | W906 | 2006-2018 |
| Smart ForFour | W454 | 2004-2006 |
| VW Crafter    |      | 2006-2017 |

### KEY FEATURES

- CAN BUS INTERFACE
- SOFTWARE UPDATEABLE
- REMAPPABLE BUTTONS
- RETAIN STEERING WHEEL CONTROL FUNCTIONALITY
- REPLACE FACTORY RADIO
- OUTPUTS FOR SPEED PULSE, PARK BRAKE & REVERSE

This harness allows for the retention of the steering wheel controls as well as other vital features when installing an aftermarket unit into a vehicle. This interface features selectable dipswitches for dedicated applications, simply refer to the provided table for the correct configuration ensuring seamless integration. Installation requires a certain level of technical knowledge. Prior to installation please read this manual in its entirety.

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.

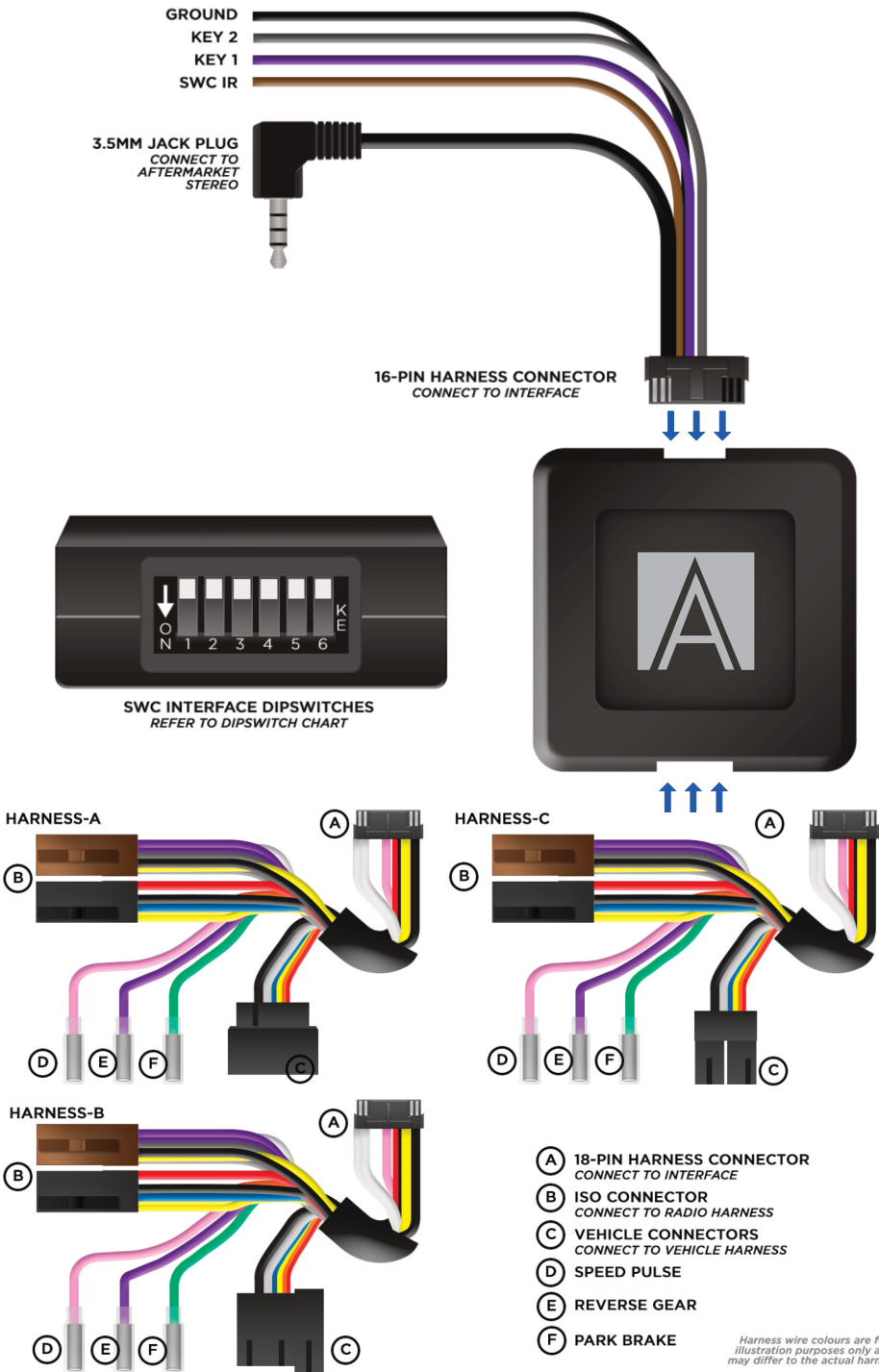
Before proceeding with installation, disconnect the negative battery terminal and ensure the key is removed from the ignition.

CONNECTION DIAGRAM

HEADUNIT PATCH LEAD

SWC INTERFACE

SWC VEHICLE HARNESS



# CONNECTION GUIDE

## INSTALLATION PROCESS

1. Take the module and attach the 16-pin patch lead connector for steering wheel control retention, then make the required connections to the aftermarket head unit.

*Different stereo brands might use different ways to connect, like a 3.5mm jack, an SWC IR wire, or two wired inputs (KEY1 and KEY2). If you're unsure, check your stereo's manual for details, or look for labels on the stereo cables.*

2. Connect the 18-pin connector for power and steering wheel controls from the vehicle.

3. Connect the ISO to the head unit or Aerpro head unit specific harness.

4. Plug in the car-specific leads from the main interface harness to the matching connectors in your vehicle.

**Depending on the vehicle not all connectors from the factory head unit will be used.**

5. If your interface has extra leads connect them to the back of the aftermarket head unit's specific harness.\*\*

6. Attach the antenna adapter to the vehicle's existing antenna port from the back of the factory head unit. \*\*

7. If you're interface has reverse camera retention, connect the yellow male RCA cable from the interface to the female RCA port on the rear of the aftermarket head unit. \*\*

8. If you're aftermarket head unit requires a DAB antenna, plug the DAB antenna connector the head unit.

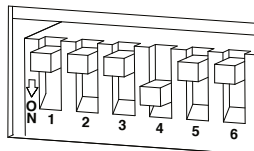
9. After connecting all cables and extra parts, make sure to test the stereo and the steering wheel controls before putting

**\* PHONE BUTTONS RETAINED WITH COMPATIBLE AFTERMARKET HEAD UNITS.**

**\*\* MAY NOT BE REQUIRED FOR YOUR VEHICLE / HEAD UNIT FITMENT.**

### SETTING 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. Refer to the diagram for an example of the 'AERPRO' dipswitch configuration.



## BUTTON REMAPPING

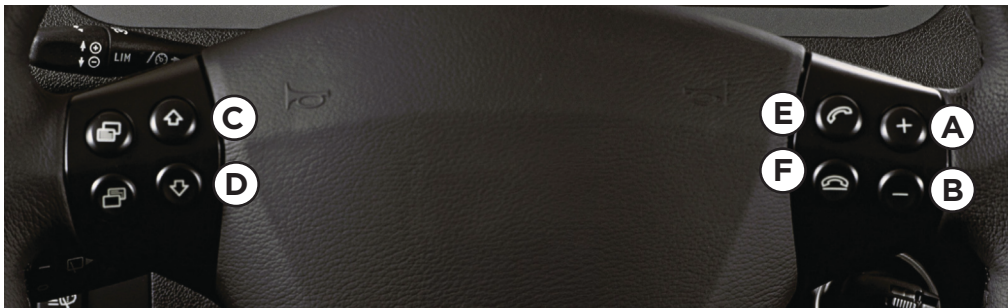
The steering wheel buttons listed offer the flexibility of being re-configured or assigned dual functions. The availability of these buttons depends on the specific vehicle to which the interface is being installed and if the aftermarket radio supports them.

In addition to button remapping, we offer the option to assign dual functions to each button on the steering wheel. This means that every button can be programmed to execute both a short press command and a long press command.

You can also add your own bespoke configuration. Button configuration can be done by PC, MAC and smart phone via the USB port.

**Button Remapping instructions can be found in a separate guide on our website (<https://aerpro.com/remapper>).**

## STEERING WHEEL CONTROL CONFIGURATION



**A** Volume Up

**B** Volume Down

**C** Track Up

**D** Track Down

**E** Pick Up

**F** Hang Up

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

# DIPSWITCH CONFIGURATION

| MANUFACTURER                 | DIPSWITCH CONFIGURATION |       |       |       |       |       | CONNECTION TYPE             |
|------------------------------|-------------------------|-------|-------|-------|-------|-------|-----------------------------|
|                              | DIP 1                   | DIP 2 | DIP 3 | DIP 4 | DIP 5 | DIP 6 |                             |
| AERPRO (3.5MM JACK)          | OFF                     | OFF   | ON    | ON    | OFF   | OFF   | 3.5MM JACK                  |
| AERPRO (THREE WIRE)          | OFF                     | ON    | ON    | OFF   | OFF   | OFF   | KEY1 / KEY2 / KEY GND WIRES |
| ALPINE                       | OFF                     | ON    | OFF   | OFF   | OFF   | OFF   | 3.5MM JACK                  |
| CLARION                      | ON                      | OFF   | OFF   | ON    | OFF   | OFF   | 3.5MM JACK                  |
| GRUNDIG                      | OFF                     | ON    | OFF   | ON    | OFF   | OFF   | BROWN SWC                   |
| JVC                          | OFF                     | OFF   | ON    | OFF   | OFF   | OFF   | BROWN SWC                   |
| KENWOOD 1                    | ON                      | OFF   | OFF   | OFF   | OFF   | OFF   | BROWN SWC                   |
| KENWOOD 2                    | ON                      | ON    | OFF   | OFF   | OFF   | OFF   | BROWN SWC                   |
| PHILIPS                      | OFF                     | ON    | OFF   | ON    | OFF   | OFF   | BROWN SWC                   |
| PIONEER 1                    | OFF                     | OFF   | OFF   | ON    | OFF   | OFF   | 3.5MM JACK                  |
| PIONEER 2                    | OFF                     | OFF   | ON    | ON    | OFF   | OFF   | 3.5MM JACK                  |
| SONY                         | ON                      | OFF   | ON    | ON    | OFF   | OFF   | 3.5MM JACK                  |
| CUSTOM                       | ON                      | OFF   | ON    | OFF   | OFF   | OFF   | HEAD UNIT DEPENDANT         |
| ANALOG SINGLE EXTEND         | ON                      | ON    | ON    | ON    | OFF   | OFF   | BROWN SWC                   |
| ANALOG SINGLE WIRE           | ON                      | ON    | ON    | OFF   | OFF   | OFF   | BROWN SWC                   |
| KEY1 / KEY2 / KEY GND WIRES  | OFF                     | ON    | ON    | OFF   | OFF   | OFF   | KEY1 / KEY2 / KEY GND WIRES |
| KEY1 / KEY2 / KEY GND EXTEND | OFF                     | ON    | ON    | ON    | OFF   | OFF   | KEY1 / KEY2 / KEY GND WIRES |
| RESERVED                     | OFF                     | OFF   | OFF   | OFF   | OFF   | OFF   | SOFTWARE UPDATE MODE        |

### DIPSWITCH 5 & 6

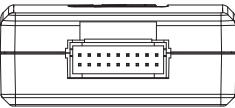
Dipswitch 5 & 6 are reserved for vehicle specific configuration.

|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>KEY1 and KEY2</b>                                    | KEY1 and KEY2 are specifically tailored for analog learning mode-style radios. Our SWC module is designed with a resistor chain that precisely matches the required resistance for seamless compatibility with this type of head unit.                                                                                                                                                                                                                                                                                              |
| <b>KEY1 and KEY2 EXTEND</b>                             | This mode extends every button press to 2 seconds during the learning process. However, with rolly wheel-designed steering wheel buttons, holding for 2 seconds isn't feasible. Our KEY1 and KEY2 extend feature addresses this by automatically prolonging each press, simplifying head unit programming even in such scenarios. Extend mode is not intended for normal use, it is only used in the teaching process.                                                                                                              |
| <b>ANALOG SINGLE WIRE and ANALOG SINGLE WIRE EXTEND</b> | This function operates similarly to KEY1 and KEY2 but transmits all unique values through the IR SWC single wire. This is crucial for compatibility with learning-style head units featuring only one learning input wire. To ensure compatibility, we've incorporated this feature into our steering wheel control interface, ensuring seamless operation across various head unit setups.<br>The Analog Extend mode functions identically to its counterpart within the KEY1 and KEY2 system but transmits through a single wire. |

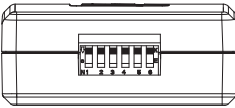
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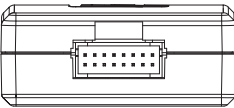
# STEERING WHEEL CONTROL MODULE



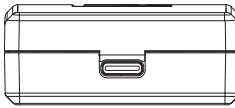
18 PIN HARNESS  
CONNECTOR



DIPSWITCHES



16-PIN HEAD UNIT  
CONNECTION LEAD



USB-C

# TECHNICAL SUPPORT

If you need assistance setting up or using your Aerpro product now or in the future, call Aerpro Support Australia  
**TEL: 03 8587 8898** MON-FRI 9AM – 5PM AEST. If you would like to download a digital copy of this manual, or other Aerpro manuals/software, please visit the <http://aerpro.com> website.