

# SAVW01

## RETENTION OF VEHICLE FACTORY STEERING WHEEL CONTROLS TO SUIT VOLKSWAGEN & SKODA VEHICLES



## USER MANUAL

### VEHICLE APPLICATION

#### VOLKSWAGEN

Eos	2007 - 2014
Golf VI	2009 - 2013
Passat	2006 - 2015
Polo	2010 - 2014
Scirocco	2009 - 2013
Tiguan I	2008 - 2014

#### SKODA

Octavia	2007 - 2013
Roomster	2007 - 2013
Superb	2009 - 2015
Yeti	2011 - 2014

### KEY FEATURES

- RETAIN STEERING WHEEL CONTROL FUNCTIONALITY
- REPLACE FACTORY RADIO
- MAINTAINS ACCESS TO SETTINGS THROUGH ON-SCREEN MENUS
- SUPPORTS PARKING CAMERA WITH OPS RADAR DISPLAY OVERLAY\*
- ENABLES VISUALISATION OF CLIMATE CONTROL FUNCTIONS
- AUTO-DETECTS REVERSE CAMERA INPUT (PAL/NTSC)
- WORKS WITH FACTORY-INSTALLED FENDER AMPLIFIED SYSTEMS
- OUTPUTS FOR SPEED PULSE, PARK BRAKE & REVERSE
- SUPPORTS ENGLISH, GERMAN, SPANISH, ITALIAN, FRENCH
- SOFTWARE UPDATEABLE

\*AFTERMARKET CAMERA SOLD SEPARATELY. ADDITIONAL INTERFACE MAY BE REQUIRED FOR OEM CAMERA RETENTION.

**Quadlock (Fakra) Connector**  
For vehicles with white MFD display only

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.

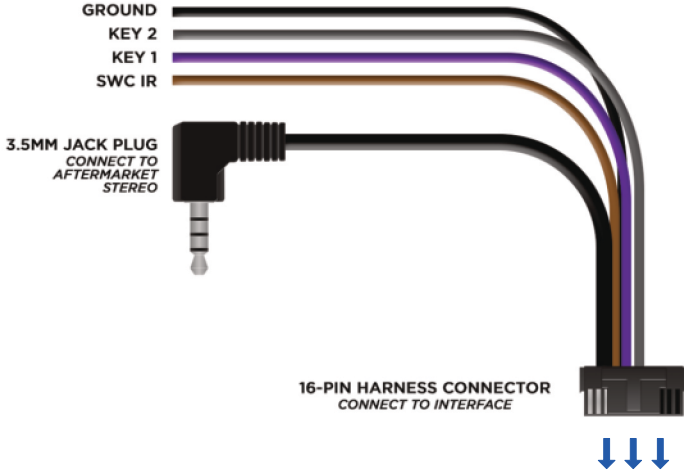
Before proceeding with installation, disconnect the negative battery terminal and ensure the key is removed from the ignition.

# CONNECTION DIAGRAM

HEADUNIT PATCH LEAD

SWC INTERFACE

SWC VEHICLE HARNESS



SWC INTERFACE DIPSWITCHES  
REFER TO DIPSWITCH CHART



ISO CONNECTOR  
CONNECT TO RADIO HARNESS



18-PIN HARNESS CONNECTOR  
CONNECT TO INTERFACE



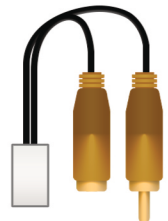
SPEED  
PULSE

REVERSE

PARK  
BRAKE

QUADLOCK (FAKRA)  
CONNECTOR  
CONNECT TO VEHICLE HARNESS

VIDEO OUTPUT  
HARNESS



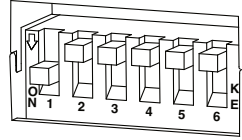
# CONNECTION GUIDE

## 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.

## 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 'KENWOOD1' dipswitch configuration.



## INSTALLATION

1. Take the interface, then connect the 16-PIN head unit connection lead and the 18-PIN 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 SWC IR wire or wired inputs KEY1 and KEY2. *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 2 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. Ensure the reverse camera is enabled on the aftermarket radio and that the reverse trigger wire is connected to the reverse wire.
10. 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.

## WIRING KEY

### 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

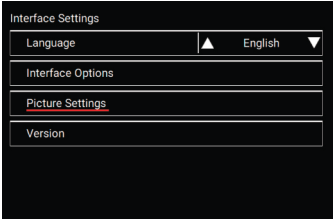
**Purple/White** Reverse Gear - 250mA  
**Orange** Illumination - 250mA

### OUTPUTS & RATINGS

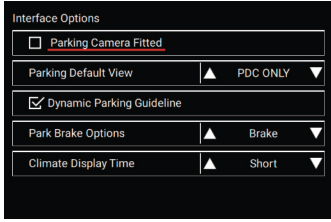
**Standby Current** <3mA **Operating Voltage** 6V to 16V

**Operating Temperature** -20C to 85C  
\*rated at 25 degrees Centigrade

# VEHICLE SETTINGS, PARK ASSIST & CLIMATE



**Interface Settings** Select language. Supports English, German, Spanish, Italian, French



**Interface Options** Select parking camera, PDC and interface options.



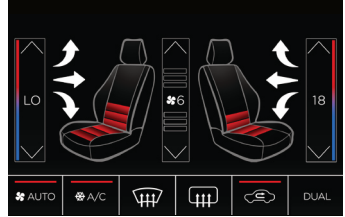
**Picture Settings** Select picture setting options including position, brightness and contrast.



**Audio Settings** Adjust vehicle audio settings, including bass, mid, treble, and more - when equipped with an OEM amplifier.

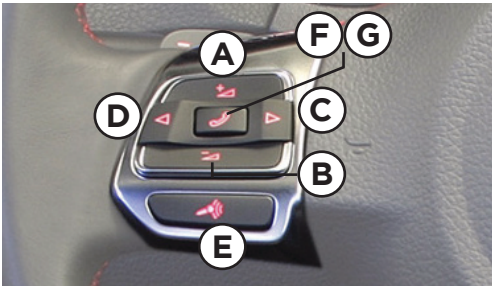


**Parking Display** Parking camera with PDC overlay pictured. Parking display is triggered from the Reverse signal.



**Climate Control** Pictured: The display screen supporting the vehicle's climate control functions.

# STEERING WHEEL CONFIGURATION



- A Volume Up
- B Volume Down
- C Track Up
- D Track Down
- E Mute / Voice
- F Pick Up
- G Hang Up

## MENU NAVIGATION

Hold **C** to **access** the vehicle menu

Short press **A** and **B** to **navigate** through the menu

Short press **C** or **D** to **select** a menu option

*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	DIP 7	DIP 8	
AERPRO (3.5MM JACK)	OFF	OFF	ON	ON	OFF	OFF	OFF	OFF	3.5MM JACK
AERPRO (THREE WIRE)	OFF	ON	ON	OFF	OFF	OFF	OFF	OFF	KEY1 / KEY2 / KEY GND WIRES
ALPINE	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	3.5MM JACK
CLARION	ON	OFF	OFF	ON	OFF	OFF	OFF	OFF	3.5MM JACK
GRUNDIG	OFF	ON	OFF	ON	OFF	OFF	OFF	OFF	BROWN SWC
JVC	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF	BROWN SWC
KENWOOD 1	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	BROWN SWC
KENWOOD 2	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	BROWN SWC
PHILIPS	OFF	ON	OFF	ON	OFF	OFF	OFF	OFF	BROWN SWC
PIONEER 1	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF	3.5MM JACK
PIONEER 2	OFF	OFF	ON	ON	OFF	OFF	OFF	OFF	3.5MM JACK
SONY	ON	OFF	ON	ON	OFF	OFF	OFF	OFF	3.5MM JACK
CUSTOM	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF	HEAD UNIT DEPENDANT
ANALOG SINGLE EXTEND	ON	ON	ON	ON	OFF	OFF	OFF	OFF	BROWN SWC
ANALOG SINGLE WIRE	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	BROWN SWC
KEY1 / KEY2 / KEY GND WIRES	OFF	ON	ON	OFF	OFF	OFF	OFF	OFF	KEY1 / KEY2 / KEY GND WIRES
KEY1 / KEY2 / KEY GND EXTEND	OFF	ON	ON	ON	OFF	OFF	OFF	OFF	KEY1 / KEY2 / KEY GND WIRES
RESERVED	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	SOFTWARE UPDATE MODE

DIPSWITCH 5 to 8

Dipswitch 5 to 8 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 rollly 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. The Analog Extend mode functions identically to its counterpart within the KEY1 and KEY2 system but transmits through a single wire.

## 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.