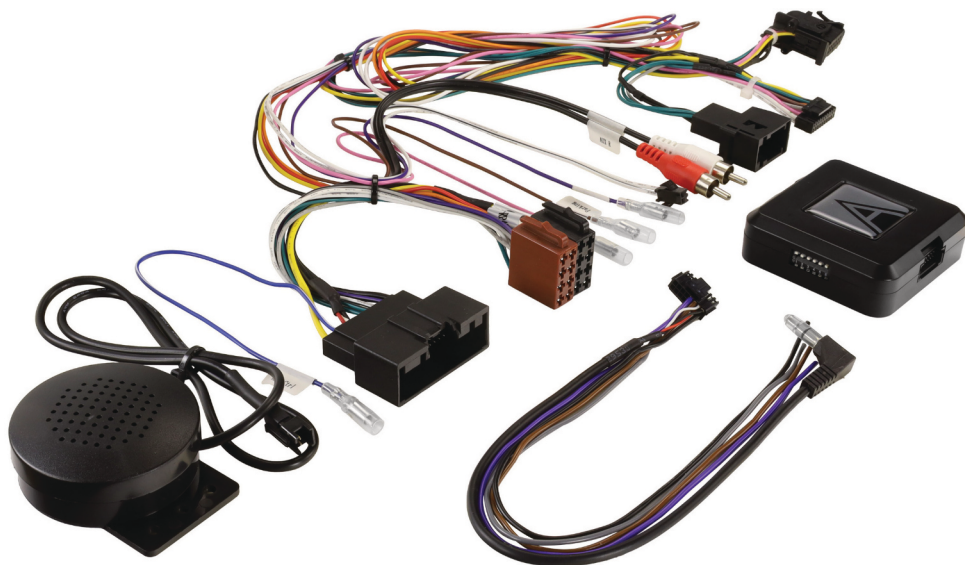


SWFO7C

RETENTION OF VEHICLE FACTORY STEERING WHEEL CONTROLS TO SUIT FORD VEHICLES



USER MANUAL

VEHICLE APPLICATION TO SUIT FORD

Ecosport (BK)	2013 - 2017
Fiesta (WT, WZ)	2012 - 2018
Focus (LW, LWII)	2012 - 2014
Kuga (TF)	2012 - 2015
Ranger (PX)	2012 - 2015
Transit Custom	2013 - 2017
Transit (VO)	2014 - 2017

KEY FEATURES

- RETAIN STEERING WHEEL CONTROL FUNCTIONALITY
- REPLACE FACTORY RADIO
- OUTPUTS FOR SPEED PULSE, REVERSE & PARK BRAKE
- RETAINS TIME & DATE SETTINGS
- SOFTWARE UPDATEABLE

Vehicles with steering wheel OK and/or speech button. Vehicles with OEM display. Vehicles with CD player under the display.
vehicles with SYNC: SYNC function not supported

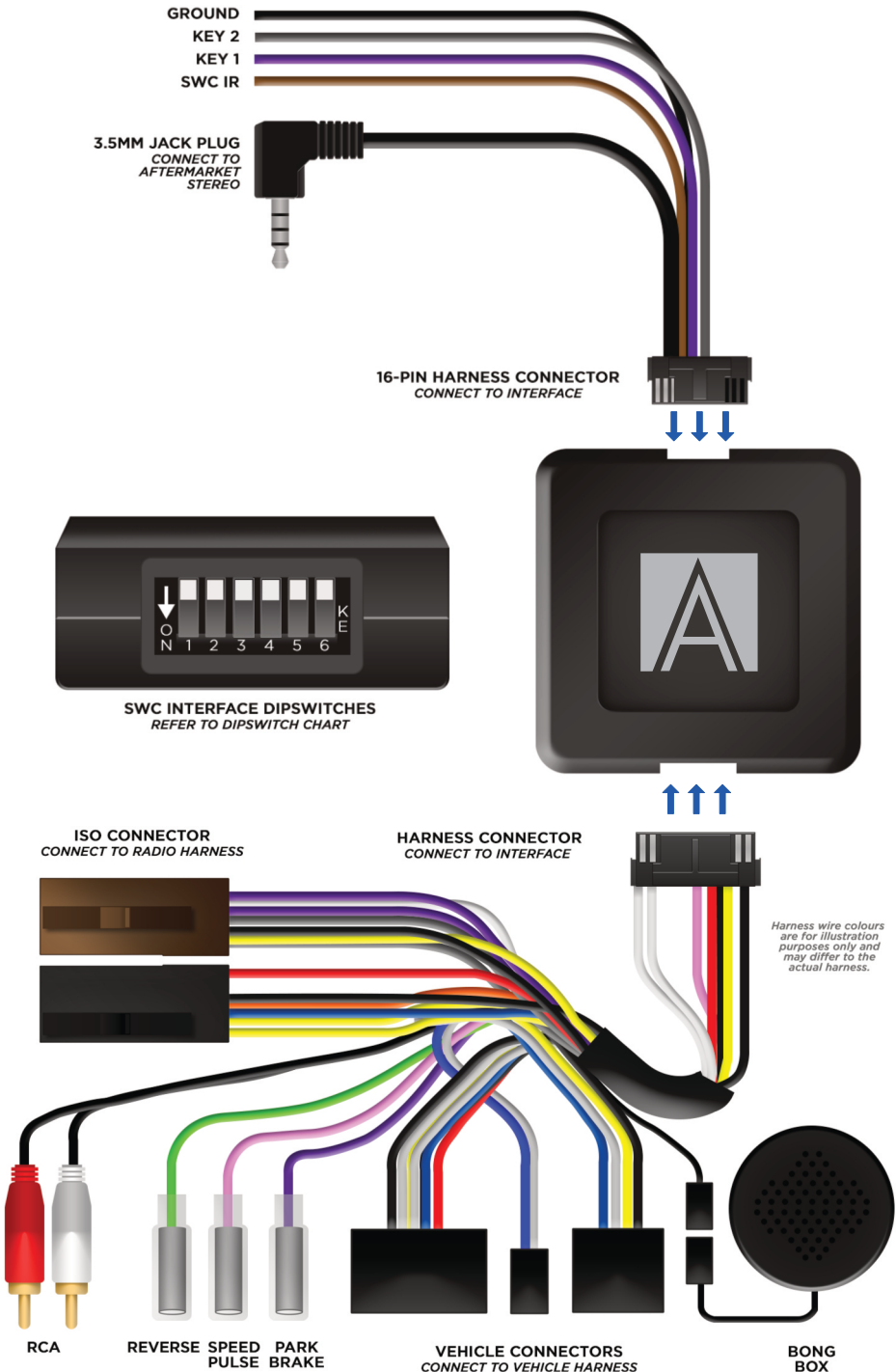
This harness allows for the retention of the steering wheel controls as well as other vital features when installing an aftermarket unit into a vehicle. This interface features selectable dipswitches for dedicated applications, simply refer to the provided table for the correct configuration ensuring 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.

Depening 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.

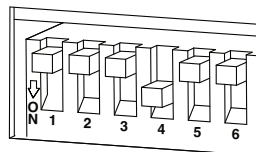
9. After connecting all cables and extra parts, make sure to test the stereo and the steering wheel controls before putting

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

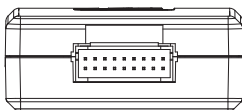
**** MAY NOT BE REQUIRED FOR YOUR VEHICLE / HEAD UNIT FITMENT.**

SETTING THE DIPSWITCHES

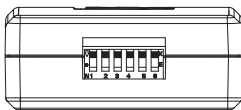
This interface includes a set of dipswitches. Consult the dipswitch selection guide to select the appropriate configuration. To activate a dipswitch, press it downward into the 'ON' position. Refer to the diagram for an example of the 'AERPRO' dipswitch configuration.



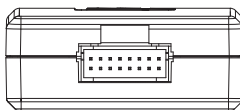
STEERING WHEEL CONTROL MODULE



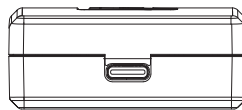
**18 PIN HARNESS
CONNECTOR**



DIPSWITCHES



**16-PIN HEAD UNIT
CONNECTION LEAD**



USB-C

STEERING WHEEL CONTROL CONFIGURATION



- A Volume Up
- B Volume Down
- C Track Up
- D Track Down
- E Mute

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

SETTING TIME & DATE

1. Press the **Speech** button to turn on the vehicle display.
2. Press and hold the **Speech** button for two seconds to enter the menu mode.
3. Use the **Volume + / -** buttons to navigate to the "Clock Settings" menu and press **Speech** to select it.
4. Adjust the time by using the **Volume + / -** buttons, then press **Speech** to confirm.
5. Repeat the process to set the date.
6. Once the time and date are set, press **Speech** to save the settings.

Note: The menu will automatically exit after 10 seconds of inactivity.

WIRING KEY

ISO CONNECTOR WIRING KEY	Purple	Right Rear Speaker +	Grey	Right Front Speaker +	Yellow	Permanent 12V
	Purple/Black	Right Rear Speaker -	Grey/Black	Right Front Speaker -	Black	Ground
	Green	Left Rear Speaker +	White	Left Front Speaker +	Red	Ignition 12V
	Green/Black	Left Rear Speaker -	White/Black	Left Front Speaker -	Orange	Illumination
FLYING WIRE WIRING KEY	Pink	Speed Pulse - 0 to 12V Square Wave @ 1Hz/Kph	Purple/White	Reverse Gear - 250mA	Red/White	Acc 12V - 250mA
	Green	Park Brake	Orange	Illumination - 250mA	Yellow RCA	Camera
OUTPUTS & RATINGS		Standby Current <3mA	Operating Voltage 6V to 16V		Operating Temperature -20C to 85C *rated at 25 degrees Centigrade	

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	OFF	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	ON	OFF	3.5MM JACK
PIONEER 2	OFF	OFF	OFF	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	ON	OFF	BROWN SWC
ANALOG SINGLE WIRE	ON	ON	ON	OFF	ON	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 6

Dipswitch 6 are reserved for vehicle specific configuration.

KEY1 and KEY2	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.
KEY1 and KEY2 EXTEND	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.
ANALOG SINGLE WIRE and ANALOG SINGLE WIRE EXTEND	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.

* PHONE BUTTONS RETAINED WITH COMPATIBLE AFTERMARKET HEAD UNITS.

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

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.