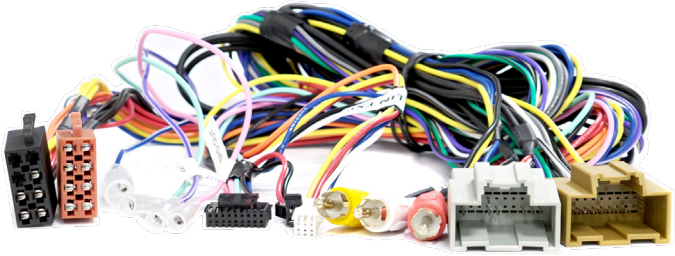
STEERING WHEEL CONTROL & VIDEO INTERFACE FOR GM VEHICLES

43xvx004-0



INSTALLATION GUIDE

The 43xvx004-0 allows for the retention of the steering wheel controls as well as other vital features 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.

VEHICLE APPLICATION

Opel / Vauxhall

Opel Astra K	**2015-2019**

OEM Head unit dependant
Aftermarket headunit requires a rear camera input.

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*
- SUPPORTS GUIDELINES OVER PARKING CAMERA**
- SUPPORTS REAR CROSS TRAFFIC ALERTS OVER REVERSE CAMERA**
- ENABLES VISUALISATION OF CLIMATE CONTROL FUNCTIONS
- AUTO-DETECTS REVERSE CAMERA INPUT (PAL/NTSC)
- OUTPUTS FOR SPEED PULSE, PARK BRAKE & REVERSE
- SUPPORTS ENGLISH, GERMAN, SPANISH, ITALIAN, FRENCH
- SOFTWARE UPDATEABLE

*AFTERMARKET CAMERA SOLD SEPARATELY. ADDITIONAL
** FEATURES DEPENDANT ON VEHICLE APPLICATION

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.

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	**Blue**	Amplifier Turn-on
Green	Park Brake 200mA	**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	SYSTEM	DIPSWITCH CONFIGURATION				CONNECTION
		1	2	3	4	
RESERVED	NA	OFF	OFF	OFF	OFF	SOFTWARE UPDATE MODE
AERPRO	Analog	OFF	OFF	**ON**	**ON**	MALE 3.5MM JACK
ALPINE	IR DATA	OFF	**ON**	OFF	OFF	MALE 3.5MM JACK
ANALOG SINGLE EXTEND	Analog	**ON**	**ON**	**ON**	**ON**	BROWN SWC IR
ANALOG SINGLE WIRE	Analog	**ON**	**ON**	**ON**	OFF	BROWN SWC IR
CLARION	IR DATA	**ON**	OFF	OFF	**ON**	MALE 3.5MM JACK
CUSTOM	IR DATA	**ON**	OFF	**ON**	OFF	HEAD UNIT DEPENDANT
GRUNDIG	IR DATA	OFF	**ON**	OFF	**ON**	BROWN SWC IR
JVC	IR DATA	OFF	OFF	**ON**	OFF	BROWN SWC IR
KENWOOD 1	IR DATA	**ON**	OFF	OFF	OFF	BROWN SWC IR
KENWOOD 2	IR DATA	**ON**	**ON**	OFF	OFF	BROWN SWC IR
KEY 1 / KEY 2	Analog	OFF	**ON**	**ON**	OFF	KEY1 / KEY 2 WIRES
KEY 1 / KEY 2 EXTEND	Analog	OFF	**ON**	**ON**	**ON**	KEY1 / KEY 2 WIRES
PHILIPS	IR DATA	OFF	**ON**	OFF	**ON**	BROWN SWC IR
PIONEER 1	Analog	OFF	OFF	OFF	**ON**	MALE 3.5MM JACK
PIONEER 2	Analog	OFF	OFF	**ON**	**ON**	MALE 3.5MM JACK
SONY	Analog	**ON**	OFF	**ON**	**ON**	MALE 3.5MM JACK
ZENEC	IR DATA	**ON**	**ON**	OFF	**ON**	BROWN SWC IR

DIPSWITCH 5 to 8

Dipswitch 5 to 8 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 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.
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.

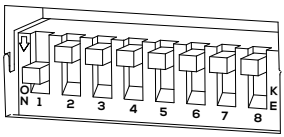
CONNECTION GUIDE

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

See connection diagram on page 4

1. Take the interface, then connect the 18-PIN head unit connection lead and the 16-PIN steering wheel harness connectors to their respective ports. Connect the chime speaker to the 2-PIN connector.

2. Connect the 6-PIN connector on the video harness to the interface (see diagram for correct port) .

3. 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.

4. 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.

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

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

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

8. Connect the brown male RCA on the video harness to the reverse camera input on the aftermarket radio.

9. Connect the camera's male RCA video connector to the brown female RCA connector on the supplied video harness. (If supported by the interface and vehicle)

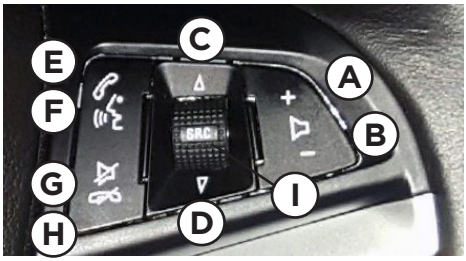
10. Ensure the reverse camera is enabled on the aftermarket radio and that the reverse trigger wire is connected to the reverse wire.

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

12. 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.

USB UPDATE LEAD - Connect the USB lead to the interface and route it to an accessible location for future software updates.

STEERING WHEEL CONTROL CONFIGURATION



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

A Volume Up
B Volume Down
C Track Up
D Track Down
E Voice (Long Press)
F Pick Up (Short Press)
G Hang Up (Long Press)
H Mute (Short Press)
I Source

MENU NAVIGATION

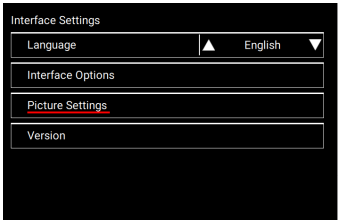
To access the menu, press and hold **D (Track Down)** button. This will open the menu.

Use **A** and **B (Vol Up/Down)** buttons to navigate through the menu options. To select an option, press **D (Track Down)** button, and press **C (Track Up)** to go back.

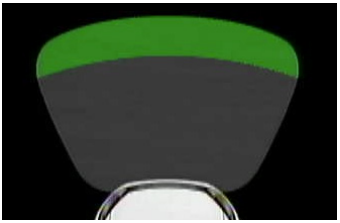
SWC Configuration: On first installation, steering wheel controls may operate incorrectly. To switch SWC mode, press the Track Down button 5 times quickly. The interface will then change to the correct configuration.

INTERFACE SETTINGS, & PARK ASSIST

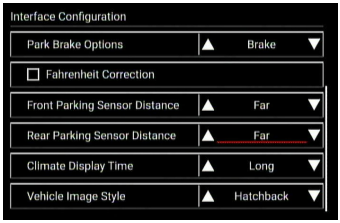
Vehicle Settings Menus – Access the same vehicle settings and configuration menus available on the original OEM display.



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



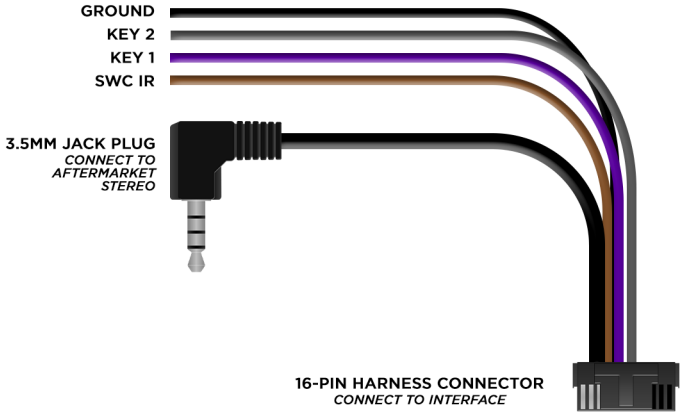
Front / Rear Parking Sensor Distance Sets when the outermost PDC segment is displayed as an obstacle approaches.



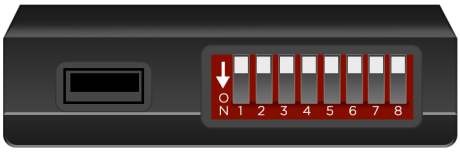
Fahrenheit Correction Enable only if the vehicle is set to °F and the climate temperatures shown on-screen do not match the vehicle's climate controls.

CONNECTION DIAGRAM

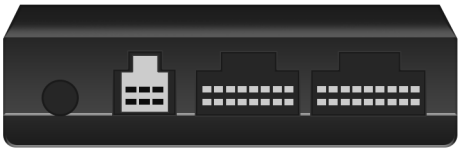
HEAD UNIT CONNECTION LEAD

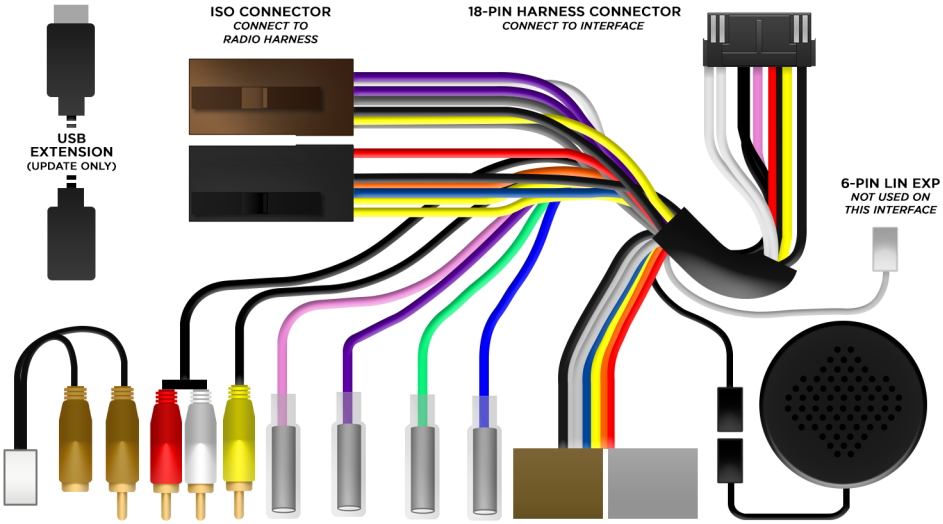


SWC INTERFACE



SWC INTERFACE DIPSWITCHES
REFER TO DIPSWITCH CHART



6-PIN VIDEO OUTPUT HARNESS

SWC VEHICLE HARNESS