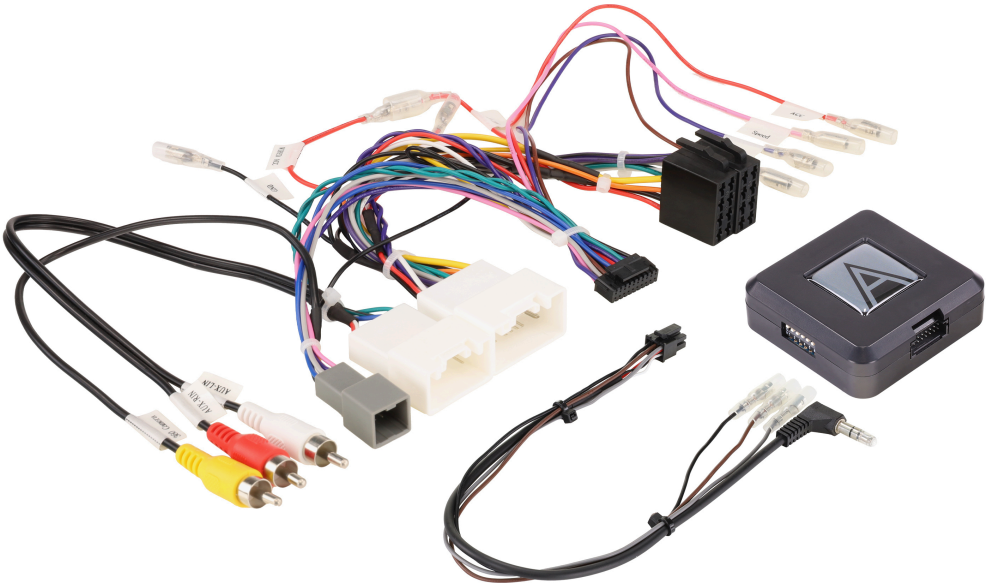
STEERING WHEEL CONTROL & 360-DEGREE CAMERA RETENTION INTERFACE FOR MITSUBISHI VEHICLES

SWMB9C



INSTALLATION GUIDE

The SWMB9C allows for the retention of the OEM 360-Degree camera system and 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

MITSUBISHI

L200 (KJ/KK/KL)	2019 - 2022
Montero Sport (QE)	2019 - 2022
Outlander (GFO)	2018 - 2022
Pajero Sport (QE)	2019 - 2022
Shogun Sport (QE)	2019 - 2022
Triton (L200)	2020 - 2022

FOR AMPLIFIED VEHICLES
Does not support the amplifier fade feature.

KEY FEATURES

- RETAIN STEERING WHEEL CONTROL FUNCTIONALITY
- RETAINS OEM 360-DEGREE CAMERA SYSTEM
- RETAINS OEM USB INPUT
- REPLACE FACTORY RADIO
- CAN BUS INTERFACE
- OUTPUTS FOR SPEED PULSE, PARK BRAKE & REVERSE
- SOFTWARE UPDATEABLE

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.

360-DEGREE CAMERA FUNCTIONALITY

ACCESS THE 360-DEGREE CAMERA

When the vehicle is in Park

A short press of the 360 View Button (J) will display the 'dynamic 360 view' (Image 1). In this view, use the button presets above to change the viewing angles. Another short press of the 360 View Button (J) will return to the main menu.

When the vehicle is in Reverse

When the reverse gear is engaged, the rear view camera will appear on the display (Image 2). You can change the camera view using the button presets above; for example, pressing Volume + (1) will switch the display to 'rear view' (Image 3). Disengaging the reverse gear will exit the 360 camera mode. Note: While in reverse, the 360 View Button (J) will not control the camera angle.

When the vehicle is in Drive

When shifting from Reverse to Drive, the camera will automatically switch to 'front & panoramic view' (image 4). A short press of the 360 View Button (J) will change the display to 'front left / front right view' (Image 5). Another short press of the 360 View Button (J) will return to the main menu.

360 Camera Button Settings

Reassigning Steering Wheel Controls

Press and hold the Mode button for more than 8 seconds to reassign the steering wheel controls. This allows you to use the controls for various functions while "Panoramic View" is enabled. You can toggle features such as the color and layout of parking lines and the 360 layout.

AUTO Functionality

The screen can switch automatically by using the camera switch or through the automatic display mode (see images 4/5). In this mode, the screen changes automatically based on vehicle speed. The monitor will display images under the following conditions:

1. When the shift lever is moved to the "N" or "D" position.
2. When the vehicle speed decreases to approximately 10 mph (18 km/h).

If no action is taken within approximately 15-20 seconds, the camera mode will close automatically.



IMAGE 1

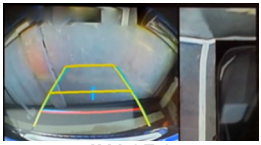


IMAGE 2



IMAGE 3



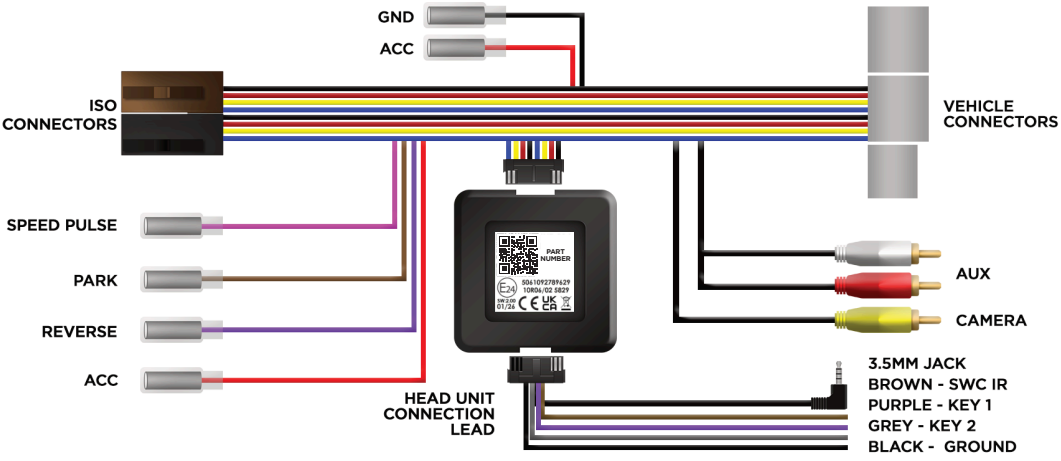
IMAGE 4



IMAGE 5

LANGUAGE SETTINGS

The language settings are controlled by the original vehicle system. If a specific language is needed, set it before installing the new head unit, as this interface does not support language adjustments. Please ensure the 360 camera language is configured to the desired format, if not set in advance, the interface and new head unit will default to English.



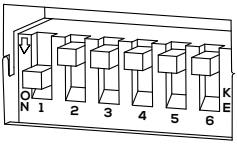
CONNECTION GUIDE

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. 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.

STEERING WHEEL CONTROL CONFIGURATION



A Volume Up
B Volume Down
C Track Up
D Track Down
E Source
F Mute
G Pick Up
H Hang Up
I Voice Control
J 360 Camera

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

360 CAMERA SETTINGS

Press and hold the Mode button (E) for more than 8 seconds to enter the square-controlled multiplexing state.

Use the following button inputs to navigate:

1. Volume +: 360 interface button function for lower left corner.
2. Volume -: Button function in the upper left corner.
3. < Arrow: 360 interface button function in the middle.
4. > Arrow: 360 interface button function for lower right corner.
5. Pickup: Button function in the upper right corner.

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**	Acc 12V - 250mA
Brown	Park Brake	**Orange**	Illumination - 250mA	**Yellow RCA**	Camera

OUTPUTS & RATINGS

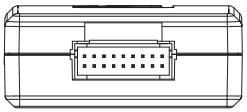
Standby Current <3mA **Operating Voltage** 6V to 16V **Operating Temperature** -20C to 85C
***rated at 25 degrees Centigrade**

DIPSWITCH CONFIGURATION

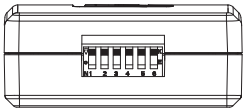
MANUFACTURER	SYSTEM	DIPSWITCH CONFIGURATION					CONNECTION
		1	2	3	4	5	
RESERVED	NA	OFF	OFF	OFF	OFF	OFF	SW UPDATE BOOT MODE
AERPRO	Analog	OFF	OFF	OFF	**ON**	OFF	MALE 3.5MM JACK
ALPINE	IR DATA	OFF	**ON**	OFF	OFF	OFF	MALE 3.5MM JACK
CLARION	IR DATA	**ON**	OFF	OFF	**ON**	OFF	MALE 3.5MM JACK
GRUNDIG	IR DATA	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

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.

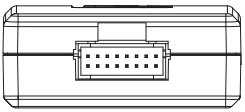
SWC INTERFACE



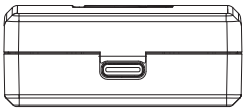
18 PIN HARNESS CONNECTOR



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 8889** 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.