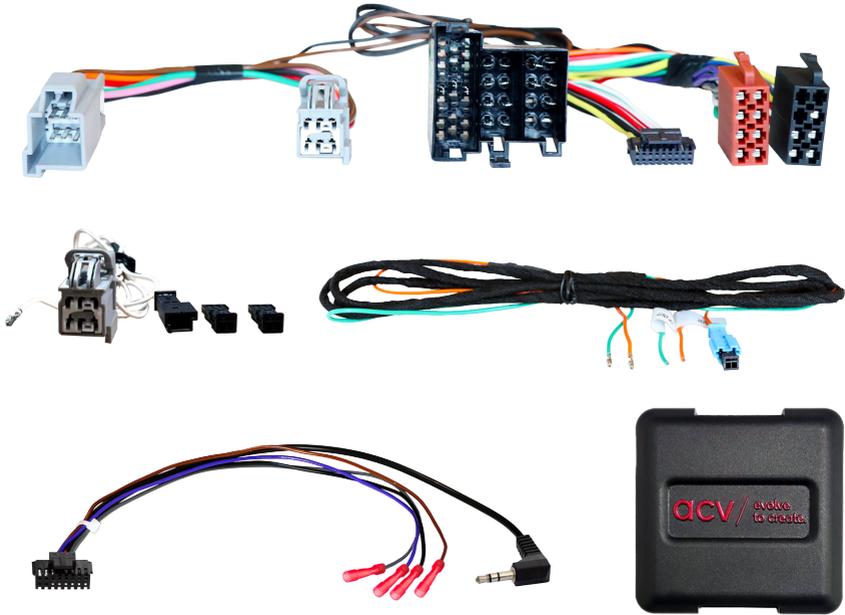


STEERING WHEEL CONTROL INTERFACE FOR FIAT VEHICLES

42xfa027-0



INSTALLATION GUIDE

The 42xfa027-0 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

Citroen

Jumper (250) 07/2024 - 2026

e-Jumper (259) 07/2024 - 2026

Relay (250) 2024 - 2026

Fiat

Ducato (ZAF 250) 11/2021 - 11/2023

Ducato (ZAF 250) 11/2023 - 2026

e-Ducato (ZAF 250) 04/2021 - 03/2024

e-Ducato (ZAF 250) 03/2024 - 2026

Opel

Movano Cargo C (Y) 01/2024 - 2026

Movano Elektrik Cargo C (Y) 01/2024 - 2026

Peugeot

Boxer (Y) 07/2024 - 2026

e-Boxer (Y) 07/2024 - 2026

Toyota

Proace Max (T) 08/2024 - 2026

Proace Max Electric (T) 01/2025 - 2026

MINI ISO CONNECTOR

FOR VEHICLES WITH OPEN DASH ONLY

KEY FEATURES

- RETAIN STEERING WHEEL CONTROL FUNCTIONALITY
- REPLACE FACTORY RADIO
- OUTPUTS FOR SPEED PULSE & REVERSE
- SOFTWARE UPDATEABLE
- REMAPPABLE BUTTONS

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 +
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

Orange Reverse
Green Speed Pulse

Purple/White Reverse Gear - 250mA

OUTPUTS & RATINGS

Standby Current <3mA

Operating Voltage 6V to 16V

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

DIPSWITCH CONFIGURATION

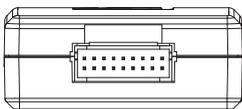
MANUFACTURER	SYSTEM	DIPSWITCH CONFIGURATION				CONNECTION
		1	2	3	4	
RESERVED	NA	OFF	OFF	OFF	OFF	SOFTWARE UPDATE MODE
ALPINE	IR DATA	OFF	ON	OFF	OFF	MALE 3.5MM JACK
ANALOG SINGLE EXTEND	Analog	ON	ON	ON	ON	BROWN SWC IR
ANALOG SINGLE WIRE	Analog	ON	ON	ON	OFF	BROWN SWC IR
CLARION	IR DATA	ON	OFF	OFF	ON	MALE 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

DIPSWITCH 5 to 8

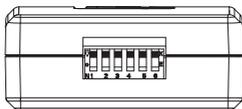
Dipswitch 5 to 8 are reserved for vehicle specific configuration.

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 roll-y 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.

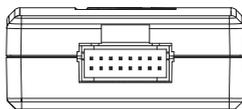
SWC INTERFACE



18 PIN HARNESS CONNECTOR



DIPSWITCHES



16-PIN HEAD UNIT CONNECTION LEAD



USB-C

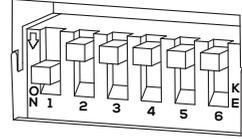
CONNECTION GUIDE

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 'KENWOOD' 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.
Note: For specific connection guidance, refer to your aftermarket stereo's installation manual if not clearly labelled on the stereo harness.
3. Route the pin end of the speed/reverse wires from the main dash aperture through and down towards the fuse panel. Leave the bare-ended wires in the dashboard aperture for use on the new head unit.
4. Disconnect both the green and black connectors located at the fuse box.
5. Take the green connector and remove the blue/white wire from pin location 17 from the back of the housing. Then, take the orange reverse wire from the supplied harness and plug it into the original place.
Note: When removing the blue/white wire from the original location, try to ensure that the retaining clip does not get damaged. If it bends, gently bend it back into shape for reuse.
6. Place the original blue/white wire from the vehicle into one of the 2-pin housings. Once done, insert this 2-pin assembly into the blue housing on the supplied harness.
Note: The location of the blue/white wire must match the location seen from behind the blue connector.
7. Insert the green speed wire into pin location 22 on the back of the black connector housing.
Note: Before making any connections, ensure that the signals are present, as pin positions may vary depending on the vehicle.
8. Connect the power/speaker ISO connector to the power/speaker ISO connector at the rear of the aftermarket stereo.
Note: For aftermarket stereos without an ISO connector, refer to the "Wiring Key" on Pg. 2 for information on which wires to connect. Some interfaces may also have additional 'flying' wires that can be connected to the vehicle to support various features, such as parking brake trigger, reverse gear, and speed pulse. Details of these can be found under 'Additional Connections'.
9. Connect the female Mini ISO connector on the harness to the male equivalent connectors from the vehicle. Test the stereo and steering wheel control functionality for correct operation before reassembling the vehicle dashboard. If the steering wheel control functions are unresponsive, uninstall the interface and wiring, then reinstall carefully according to the above steps.
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.

CONNECTING THE LIN HARNESS

This interface supports both LIN connection types. The LIN Bus connection is to allow the telephone buttons on the steering wheel to function. You can connect the LIN cable in one of two ways:

026-style (older vehicles): Use the original LIN plug at its previous location. Connect the 6-pin male connector to the grey vehicle-specific connector (pictured). This connector will either be located at the bottom of the dash, loose, or connected via the cup holder of the vehicle. Do not connect to the orange variant.
Note: If the vehicle has a Qi charger, disconnect the charger connector and use the male and female connectors between them to act as a T-harness.

027-style (newer vehicles): If the old plug isn't present, use the new LIN wire provided in the kit. This should be connected at the back of the fuse panel and then connected to the LIN connector on the vehicle harness, follow the instructions in the next section.

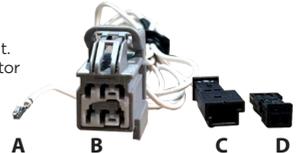
- A. Wire pin - Insert into the connector on the vehicle's body computer.
- B. Grey LIN connector - Connect to the matching LIN connector included in the main unit wiring loom.
- C. Black connector - Connect to the matching black connector (D).
- D. Black connector - Connect to the vehicle's orange/violet LIN wire.

1. Remove Fuse Holder Cover

Remove the Fuse Holder cover below the steering wheel and lower cover to access. (See Fig. 1)

2. Access Body Computer

Unscrew the 3 mounting screws and lower the fuse panel to reveal the body computer located behind it (See Fig. 1)



CONNECTION GUIDE

CONNECTING THE LIN HARNESS CONTINUED...

3. Disconnect Brown Connector

Unplug the brown connector and remove its cover.

4. Locate LIN Wire

Colour: Orange/Violet
Position: Second row, second pin (See Fig. 2)
Locate the LIN wire and remove it from the brown connector housing.

5. Install Adapter Pin

- Insert the adapter wire pin into the now-empty LIN position
- Insert the original orange/violet wire into the supplied black connector
- Connect both black connectors together

Important: Ensure the orange/violet wire aligns with the white wire in the mating connector.

6. Reconnect & Reassemble

- Refit the brown connector and cover
- Connect the grey LIN connector on the adapter harness to the matching LIN connector on the head unit wiring loom. (See Fig. 3)

Once connected, refit the body computer, followed by the fuse holder cover and the lower trim panel.-

Repeat the process to reinstall the fuse box.

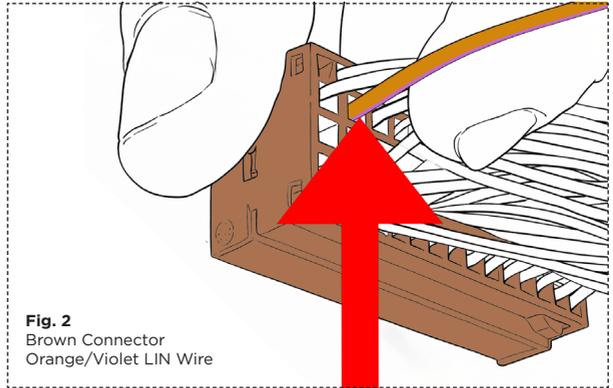


Fig. 2
Brown Connector
Orange/Violet LIN Wire

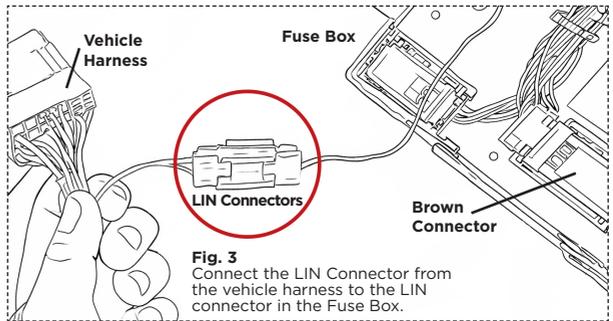


Fig. 3
Connect the LIN Connector from the vehicle harness to the LIN connector in the Fuse Box.

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

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

BUTTON REMAPPING

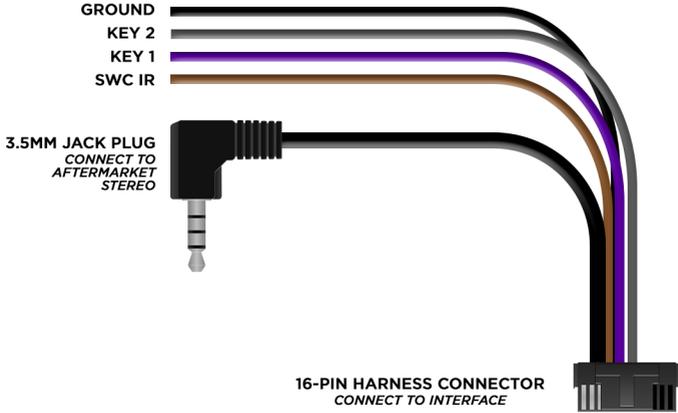
The steering wheel buttons listed offer the flexibility of being re-configured or assigned dual functions. The availability of these buttons depends on the specific vehicle to which the interface is being installed and if the aftermarket radio supports them. In addition to button remapping, we offer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

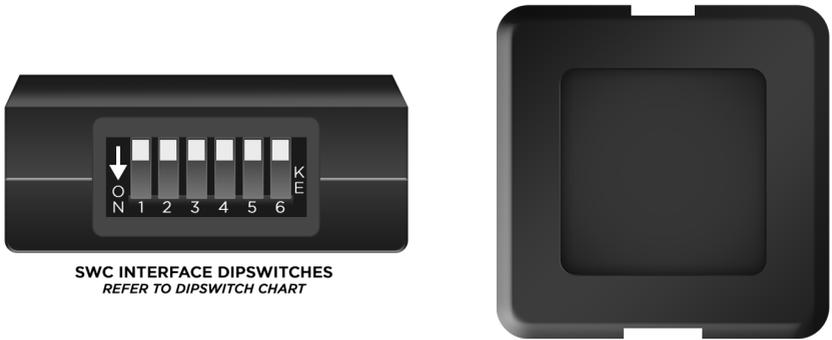
Button Remapping instructions can be found in a separate guide on our website.

CONNECTION DIAGRAM

HEAD UNIT CONNECTION LEAD

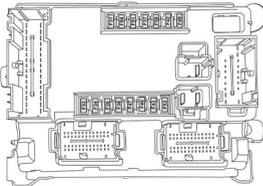


SWC INTERFACE



SWC VEHICLE HARNESS

FOLLOW STEPS 4 TO 8 ON PAGE 3
FOR SPEED PULSE & REVERSE WIRE
INSTALLATION



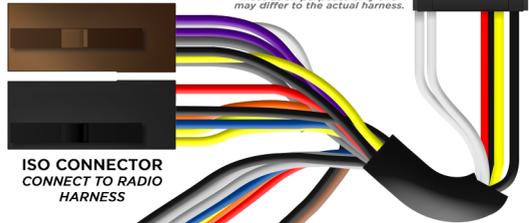
SPEED SIGNAL [GREEN]
CONNECT TO REAR PIN LOCATION 22 ON
BLACK CONNECTOR

20-PIN GREEN CONNECTOR (REAR)

REVERSE [ORANGE]
CONNECT TO REAR PIN LOCATION
17 ON GREEN CONNECTOR

18-PIN HARNESS CONNECTOR
CONNECT TO INTERFACE

*Harness wire colours are for
illustration purposes only and
may differ to the actual harness.*



VEHICLE CONNECTORS
CONNECT TO VEHICLE HARNESS