

Data Interface with SWC

Fits Select HYUNDAI/KIA Models 2010-2013

FEATURES

- Designed for amplified systems
- Provides accessory power (12-volt)
- Retains audio controls on the steering wheel
- Provides NAV outputs (parking brake, reverse, and speed sense)
- Type "C" USB updatable
- All outputs are 250mA
- 1-year warranty

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Visit MetraOnline.com for more detailed information about the product and up-to-date vehicle specific applications

Visit our Vehicle Fit Guide for up-to-date vehicle-specific applications.

COMPONENTS

- MET-HK3 interface
- Vehicle-specific harness

***ATTENTION:** With the key out of the ignition, disconnect the negative battery terminal before installing this product. Ensure that all installation connections are secure before cycling the ignition to test this product.*
***NOTE:** Refer also to the instructions included with the aftermarket radio.*

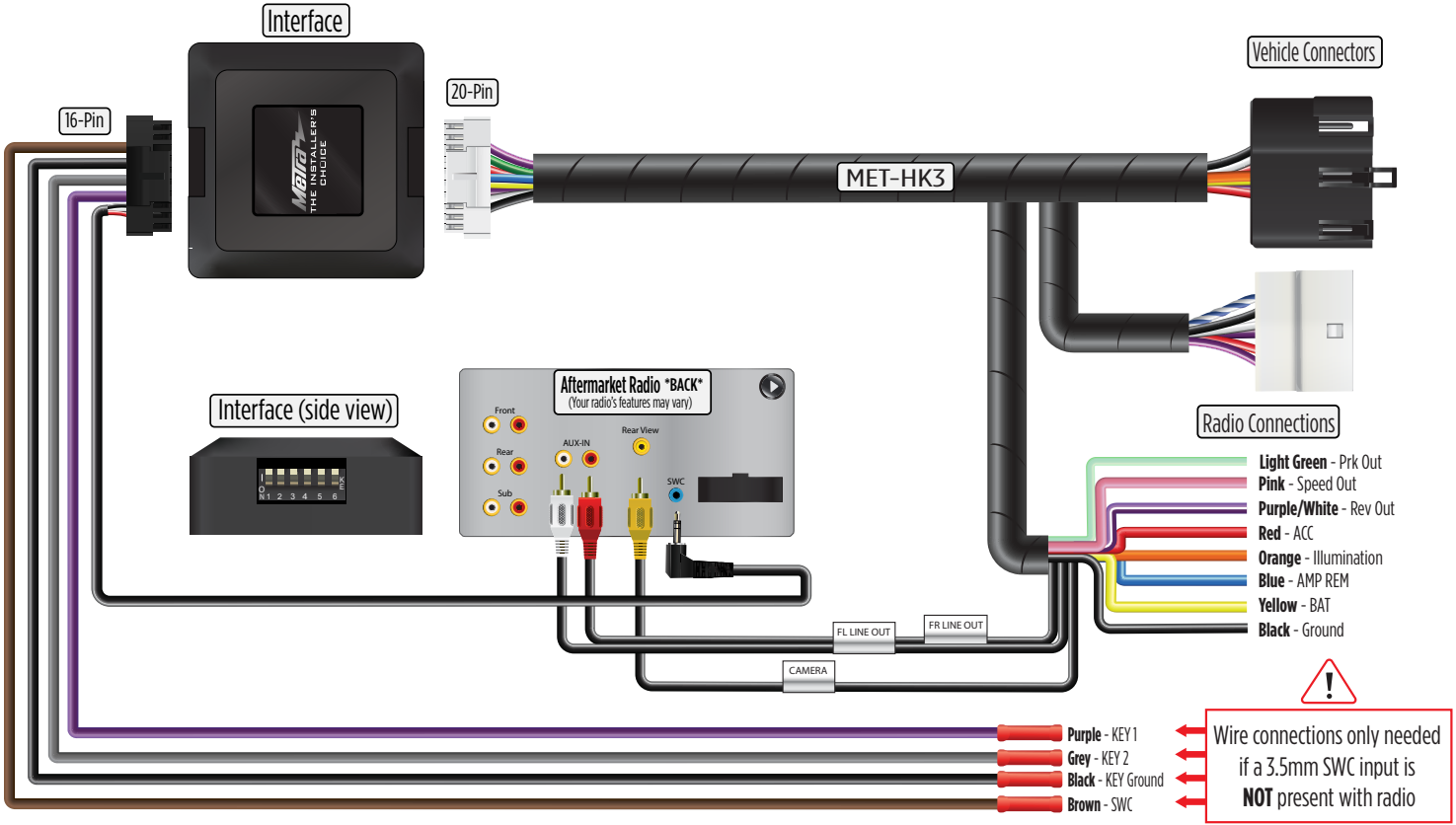
APPLICATIONS

HYUNDAI
Tucson with NAV 2010-2013
KIA
Sorento with NAV 2011-2013

Note: Vehicles without OEM SAT
Vehicles with OEM amplified system

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CONNECTION DIAGRAMS



SWC CHART: DIP SWITCH CONFIGURATION

MANUFACTURER	SYSTEM	DIP SWITCH SETTINGS					CONNECTION
		1	2	3	4	5	
RESERVED	NA	OFF	OFF	OFF	OFF	OFF	SW UPDATE MODE
ALPINE	IR DATA	OFF	ON	OFF	OFF	OFF	MALE 3.5MM JACK
ANALOG SINGLE EXTEND	Analog	ON	ON	ON	ON	ON	BROWN SWC IR
ANALOG SINGLE WIRE	Analog	ON	ON	ON	OFF	ON	BROWN SWC IR
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
KEY 1 / KEY 2	Analog	OFF	ON	ON	OFF	OFF	KEY1 / KEY 2 WIRES
KEY 1 / KEY 2 EXTEND	Analog	OFF	ON	ON	ON	OFF	KEY1 / KEY 2 WIRES
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	ON	OFF	ON	ON	OFF	MALE 3.5MM JACK
ZENEC	IR DATA	ON	ON	OFF	ON	OFF	BROWN SWC IR

DIP SWITCH 5 & 6

DIP Switch 5 & 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 roll wheel-designed steering wheel buttons, holding for 2 seconds isn't feasible.

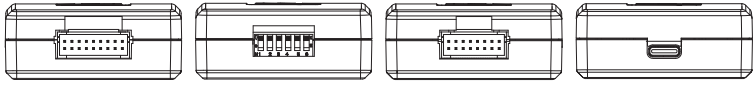
Our KEY1 and KEY2 extend feature addresses this by automatically prolonging each press, simplifying head unit programming even in such scenarios. Extend mode is not intended for normal use, it is only used in the teaching process.

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 | DIP SWITCHES | 16-PIN HEAD UNIT CONNECTION LEAD | USB-C

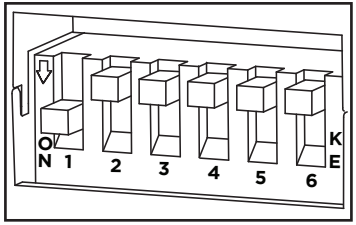
INSTALLATION & STEERING WHEEL CONTROL CONFIGURATION

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 DIP Switches

This interface includes a set of DIP Switches. Consult the DIP Switch selection guide to select the appropriate configuration. To activate a DIP Switch, press it downward into the **'ON'** position. Refer to the diagram for an example of the 'KENWOOD1' DIP Switch configuration. (Figure A)



(Figure A)

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 wires from the interface to the corresponding power/speaker wires on the aftermarket stereo.
4. Connect the vehicle-specific connectors from the interface harness to the corresponding connectors on the vehicle harness.
5. Connect the 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. 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 DIP Switch 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

The image at right serves as an example. Actual steering wheel control configurations may vary.

Adjusting the Fader

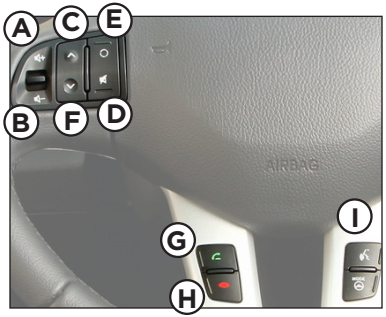
Press and hold the **Source** button for approximately 10 seconds to enter the Fader adjustment menu. The audio will be muted during this process.

Note: While in the Fader menu, the steering wheel controls will temporarily switch to menu navigation mode.

Use the **Track + and Track –** buttons to adjust the front-to-rear fader setting.

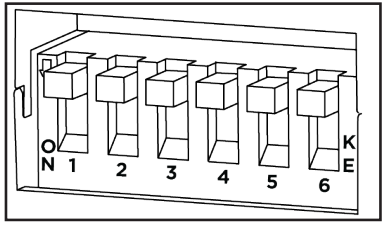
Press the **Source** button to save your setting and exit the Fader menu.

Note: Upon exiting, the audio will mute twice to confirm the setting has been saved. The steering wheel controls will then return to their normal operation.



Updating The Software on Your Steering Wheel Control Interfaces

1. Set all six DIP Switches to OFF. (Figure A)
2. Connect the USB-C cable to your PC, Mac, or smartphone, then connect it to the interface.
3. The interface will show up as a drive on the connected device and will be identified by the name “INTERFACE”. (Figure B)
4. Double click the drive to open it.
5. The system file displays the current versions of the hardware (HW) and BIOS. The other file, starting with “SWxxxx,” indicates the current software (SW) version installed on the interface.
6. You need to first delete the SWxxxx file.
7. Simply drag and drop, or copy, the new “SWxxx” file onto the interface. Once the file is copied, unplug the USB cable and then plug it back in.
8. The interface LED will illuminate solid for approximately 7 seconds, then it will begin to flash. Once it starts flashing, the interface will be visible as a drive on the PC again.



(Figure A)

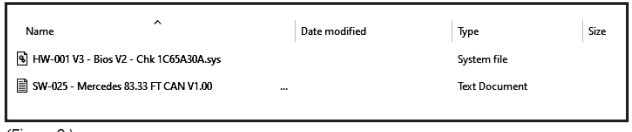
9. Open the drive and verify that the “SWxxxx” file has been updated to the new version.

You should now have the latest software on your interface, indicating that the update was successful. At this point, you are ready to install the interface in your vehicle.

Ensure that all connections are secure and follow the installation guidelines provided in the user manual. Once installed, the interface should function with the updated software.



(Figure B)



(Figure C)



(Figure D)

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.

Having difficulties? We're here to help.

Contact our Tech Support line at:
386-257-1187

Or via email at:
techsupport@metra-autosound.com

Tech Support Hours (Eastern Standard Time)

Monday - Friday: 9:00 AM - 7:00 PM
Saturday: 10:00 AM - 5:00 PM
Sunday: 10:00 AM - 4:00 PM

Metra recommends MECP certified technicians

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