



## INTERFACE COMPONENTS

- AXDIS-HK3 interface
- AXDIS-HK3 harness
- AXCS-D-6V
- 16-pin harness with stripped leads
- Female 3.5mm connector with stripped leads

## TOOLS REQUIRED

- Crimping tool and connectors, or solder gun, solder, and heat shrink
- Tape
- Wire cutter
- Zip ties
- Small flat-blade screwdriver

## OPTIONAL ACCESSORIES (sold separately)

SPDIF Interface: AXSP-HK interface

## APPLICATIONS

See next page

## Hyundai/Kia Data Interface with SWC

### 2017-2022

Visit [AxxessInterfaces.com](http://AxxessInterfaces.com) for more detailed information about the product and up-to-date vehicle specific applications

## INTERFACE FEATURES

- Designed for amplified\* and non-amplified models
- Provides accessory power (12-volt 10-amp)
- Provides NAV outputs (park brake, reverse, speed sense)
- Retains audio controls on the steering wheel
- Retains the factory AUX-IN jack
- Retains the factory backup camera
- Includes an AXCS-D-6V 12-to-6V step-down for the factory camera
- Retains balance and fade\*\*
- Micro-B USB updatable

\*Requires the AXSP-HK (sold separately) \*\*Non-amplified models only

MetraOnline.com may be used to assist with dash assembly instructions. Simply enter your Year, Make, Model vehicle into the vehicle fit guide and look for the Dash Kit Installation Instructions.

[www.MetraOnline.com](http://www.MetraOnline.com)



Product Info



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**ATTENTION:** With the key out of the ignition, disconnect the negative battery terminal before installing this product. Ensure that all installation connections, especially the air bag indicator lights, are plugged in before reconnecting the battery or cycling the ignition to test this product.

**NOTE:** Refer also to the instructions included with the aftermarket radio.

## APPLICATIONS

### Hyundai

Accent (7" Touchscreen).....	2018-2019
Elantra (7" Touchscreen).....	2019-2020
Elantra (7" Touchscreen Non-NAV).....	2017-2018
Elantra GT.....	2018
Ioniq (Non-NAV).....	2018-2019
Kona.....	2018-2022
Santa Fe/Sport.....	2019
Sonata (w/NAV).....	2018
Sonata (7" Touchscreen Non-NAV).....	2017
Veloster (Non-NAV).....	2017

### Kia

Forte.....	2019
Forte / Forte 5 (7" Touchscreen Non-NAV).....	2017-2018
Optima (Non-NAV Manual Climate Screen).....	2019
Rio / Rio 5 (7" Touchscreen).....	2018
Sedona (7" Touchscreen Non-NAV).....	2017-2018
Seltos.....	2021
Sorento (7" Touchscreen Non-NAV).....	2019

## CONNECTIONS

### From the 16-pin harness with stripped leads to the aftermarket radio:

- Connect the **Red** wire to the accessory wire.
- If the vehicle comes equipped with a factory amplifier, connect the **Blue/White** wire to the amp turn-on wire.
- Connect the **Gray** wire to the right front positive speaker output.
- Connect the **Gray/Black** wire to the right front negative speaker output.
- Connect the **White** wire to the left front positive speaker output.
- Connect the **White/Black** wire to the left front negative speaker output.
- Connect the **Green/Purple** wire to the reverse wire, and also to the **Blue/White** wire from the **AXCSD-6V**.

*The following (1) wire is only for a multimedia/navigation radio that requires this wire.*

- Connect the **Light Green** wire to the parking brake wire.
- Tape off and disregard the following (8) wires, they will not be used in this application: **Blue/Pink, Blue/White\*, Brown, Green, Green/Black, Orange/White, Purple, Purple/Black**

\* Non-amplified models only

### From the AXDIS-HK3 harness to the aftermarket radio:

- Connect the **Black** wire, the **Black** wire labeled "Camera Ground", and also the **Black** wire from the **AXCSD-6V**, to the ground wire.
- Connect the **Red** wire labeled "Camera Power 6V", to the **Blue/Red** wire from the **AXCSD-6V**.
- Connect the **Yellow** wire to the battery wire.
- Connect the **Blue** wire to the power antenna wire.
- If the aftermarket radio has an illumination wire, connect the **Orange** wire to it.

*Continued on the next page*

The following (1) wire is only for a multimedia/navigation radio that requires this wire.

- Connect the **Blue/Pink** wire to the VSS/speed sense wire.
- If the factory AUX-IN jack is desired to be retained, connect the **Red & White** RCA jacks to the audio AUX-IN jacks.
- Connect the **Yellow** RCA jack to the backup camera input.

### For models equipped *without* a factory amplifier:

- Connect the **Green** wire to the left rear positive speaker output.
- Connect the **Green/Black** wire to the left rear negative speaker output.
- Connect the **Purple** wire to the right rear positive speaker output.
- Connect the **Purple/Black** wire to the right rear negative output.
- Disregard the 14-pin connector, it will not be used in this application.

### For models equipped *with* a factory amplifier:

- Connect the **AXSP-HK** (sold separately) to the 14-pin connector.
- Tape off and disregard the following (4) wires, they will not be used in this application:  
**Green, Green/Black, Purple, Purple/Black**

### 3.5mm jack steering wheel control retention:

The 3.5mm jack is to be used to retain audio controls on the steering wheel control.

- **For the radios listed below:** Connect the *female 3.5mm connector with stripped leads*, to the male 3.5mm SWC jack from the *AXDIS-HK3 harness*. Any remaining wires tape off and disregard.
  - **Eclipse:** Connect the steering wheel control wire, normally **Brown**, to the **Brown/White** wire from the connector. Then connect the remaining steering wheel control wire, normally **Brown/White**, to the **Brown** wire from the connector.
  - **Metra OE:** Connect the steering wheel control Key 1 wire (**Gray**) to the **Brown** wire.
  - **Kenwood or select JVC with a steering wheel control wire:** Connect the **Blue/Yellow** wire to the **Brown** wire.
 

**Note:** If the **Kenwood** radio auto detects as a JVC, manually set the radio type to **Kenwood**. See the instructions under **Changing Radio Type**.
  - **XITE:** Connect the steering wheel control SWC-2 wire from the radio to the **Brown** wire.
  - **Parrot Asteroid Smart or Tablet:** Connect the 3.5mm jack to the AXSWCH-PAR (sold separately). Then connect the 4-pin connector from the AXSWCH-PAR to the radio.
 

**Note:** The radio must be updated to rev. 2.1.4 or higher software.
  - **Universal “2 or 3 wire” radio:** Connect the steering wheel control wire, referred to as Key-A or SWC-1, to the **Brown** wire from the connector. Then connect the remaining steering wheel control wire, referred to as Key-B or SWC-2, to the **Brown/White** wire from the connector. If the radio comes with a third wire for ground, disregard this wire.
 

**Note:** After the interface has been programmed to the vehicle, refer to the manual provided with the radio for assigning the SWC buttons. Contact the radio manufacturer for more information.
- **For all other radios:** Connect the 3.5mm jack from the *AXDIS-HK3 harness* to the jack on the radio designated for an external steering wheel control interface. Please refer to the aftermarket radios manual if in doubt as to where the 3.5mm jack goes to.

## INSTALLATION

### With the key in the off position:

1. Connect the 16-pin harness with stripped leads, and the AXDIS-HK3 harness, to the AXDIS-HK3 interface.

**Attention!** Do not connect the AXDIS-HK3 harness to the wiring harness in the vehicle just yet.

**Attention!** If retaining steering wheel controls, ensure that the jack/wire is connected to the radio before proceeding. If this step is skipped, the AXDIS-HK3 interface will need to be reset for the steering wheel controls to function.

## PROGRAMMING

For the steps below, the LED located inside the **AXDIS-HK3** interface can only be seen while active. The interface does not need to be opened to see the LED

1. Start the vehicle.
2. Connect the AXDIS-HK3 harness to the wiring harness in the vehicle.
3. The LED will initially turn on solid **Green**, then turn off for a few seconds while it auto detects the radio installed.
4. The LED will then flash **Red** up to (24) times indicating which radio is connected to the interface, and then turn off for a couple of seconds. Pay close attention to how many red flashes there are. This will help in troubleshooting, if need be. Refer to the LED feedback section for more information.

## PROGRAMMING (CONT.)

5. After a couple seconds the LED will turn on solid **Red** while the interface auto detects the vehicle. The radio will shut off at this point. This process should take 5 to 30 seconds.
6. Once the vehicle has been auto detected by the interface, the LED will turn on solid **Green**, and the radio will come back on, indicating programming was successful.
7. Cycle the key off, then back on. If the driver's door is closed, open and close the door.
8. Test all functions of the installation for proper operation, before reassembling the dash.
9. If the interface fails to function, refer to the **Troubleshooting** section.

**Note:** The LED will turn on solid **Green** for a moment, and then turn off under normal operation after the key has been cycled.

## AUDIO LEVEL ADJUSTMENT (AMPLIFIED MODELS ONLY)

1. With the vehicle and radio turned on, turn the volume up 3/4 of the way.
2. With a small flat-blade screwdriver, adjust the potentiometer clockwise to raise the audio level; counter clockwise to lower the audio level.
3. Once at a desired level, audio adjustment is complete.

## STEERING WHEEL CONTROL SETTINGS

**LED Feedback:** The (24) **Red LED** flashes represent a different radio manufacturer for the **AXDIS-HK3 interface** to detect.

For example, if you are installing a **JVC** radio, the **AXDIS-HK3 interface** will flash **Red (5)** times, then stop.

At right is the **LED Feedback Legend**, that indicates which radio Manufacturer corresponds to which flash.

### LED Feedback Legend

Flash Count	Radio
1	Eclipse (type 1) †
2	Kenwood ‡
3	Clarion (type 1) †
4	Sony / Dual
5	JVC
6	Pioneer / Jensen
7	Alpine *
8	Visteon
9	Valor
10	Clarion (type 2) †
11	Metra OE
12	Eclipse (type 2) †

Flash Count	Radio
13	LG
14	Parrot **
15	XITE
16	Philips
17	TBD
18	JBL
19	Insane
20	Magnadyne
21	Boss
22	Axxera
23	Axxerra (type 2)
24	Alpine (type 2)

### KEYNOTES

\*If the **AXDIS-HK3** flashes **RED (7)** times, and an **Alpine** radio is not installed, that means there is an open connection not accounted for. Verify that the 3.5mm jack is connected to the correct steering wheel jack/wire in the radio.

\*\* The **AXSWCH-PAR** is required (sold separately). Also, the software in the radio must be rev. 2.1.4 or higher.

† If a **Clarion** or **Eclipse** radio is installed and the steering wheel controls do not function, change the radio to **Clarion (type 2)** or **Eclipse (type 2)** respectively. If the steering wheel controls still do not function, refer to the **Changing Radio Type** document available at [axxessinterfaces.com](http://axxessinterfaces.com).

‡ If a **Kenwood** radio is installed and the LED feedback flashes (5) times instead of (2), manually change the radio type to **Kenwood**. To do this, refer to the **Changing Radio Type** document on next page, also available at [axxessinterfaces.com](http://axxessinterfaces.com).

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## STEERING WHEEL CONTROL SETTINGS (CONT.)

**Attention:** The **Axxess Updater App** can also be used to program the following (3) sub-sections as well, pending that the **AXDIS-HK3** interface has been programmed and is functional.

**Changing radio type:** If the LED flashes do not match the radio you have connected, you must manually program the **AXDIS-HK3** interface to tell it what radio it is connected to.

1. After (3) seconds of turning the key on, press and hold the **Volume Down** button on the steering wheel until the LED in the **AXDIS-HK3** interface goes solid.
2. Release the **Volume Down** button; the LED will go out indicating the **AXDIS-HK3** interface is in **Changing Radio Type** mode.
3. Refer to the **Radio Legend** to know which radio number you would like to have programmed.
4. Press and hold the **Volume Up** button until the LED goes solid, then release. Repeat this step for the desired radio number you have selected.
5. Once the desired radio number has been selected, press and hold the **Volume Down** button on the steering wheel until the LED goes solid. The LED will remain on for about (3) seconds while it stores the new radio information.

6. Once the LED goes out, the **Changing Radio Type** mode will then end. You can now test the steering control wheel controls.

**Note:** If at any time the user fails to press any button for a period longer than (10) seconds, this process will abort.

Flash Count Radio Legend		
1. Eclipse (type 1)	9. Valor	17. TBD
2. Kenwood	10. Clarion (type 2)	18. JBL
3. Clarion (type 1)	11. Metra OE	19. Insane
4. Sony / Dual	12. Eclipse (type 2)	20. Magnadyne
5. JVC	13. LG	21. Boss
6. Pioneer / Jensen	14. Parrot	22. Axxera
7. Alpine	15. XITE	23. Axxerra (type 2)
8. Visteon	16. Philips	24. Alpine (type 2)

### Remapping the steering wheel control buttons

Once the **AXDIS-HK3** interface has been programmed, the button assignment for the steering wheel controls may be reassigned if so desired. For example, if **Seek Up** is preferred to be **Mute** instead. Follow the steps below to remap the steering wheel control buttons.

1. Ensure that the **AXDIS-HK3** interface is visible so you can see the LED flashes to confirm button recognition.  
**Tip:** Turning the radio off is recommended.
2. Within the first twenty seconds of turning the ignition on, press and hold the **Volume Up** button on the steering wheel until the LED goes solid.
3. Release the **Volume Up** button, the LED will then go out. The **Volume Up** button has now been programmed.
4. Follow the list in the **Button Function Legend** to reference the order in which the steering wheel control buttons need to be programmed.

**Note:** If the next function on the list is not present on the steering wheel, press the **Volume Up** button for (1) second until the LED comes on to skip that function, then release the **Volume Up** button. This will tell the **AXDIS-HK3** interface that this function is not available, and to move on to the next function.

5. To complete the remapping process, press and hold the **Volume Up** button until the LED in the **AXDIS-HK3** interface goes out.

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# STEERING WHEEL CONTROL SETTINGS (CONT.)

## Button function legend

Function #	Function
1	Volume-Up
2	Volume-Down
3	Seek-Up/Next
4	Seek-Down/Prev
5	Source/Mode
6	Mute
7	Preset-Up
8	Preset-Down
9	Power

Function #	Function
10	Band
11	Play/Enter
12	PTT (Push to Talk)
13	On-Hook
14	Off-Hook
15	Fan-Up*
16	Fan-Down*
17	Temp-Up*
18	Temp-Down*

\* Not applicable in this application

**Note:** Some radios may not have these commands. Please refer to the manual provided with the radio, or contact the radio Manufacturer for specific commands recognized by that particular radio.

## Dual assignment instructions (long button press)

The **AXDIS-HK3** interface has the capability to assign (2) functions to a single button, except **Volume Up** and **Volume Down**. Follow the steps below to program the button(s) to the desired setting.

**Note:** **Seek Up** and **Seek Down** come pre-programmed as **Preset Up** and **Preset Down** for a long button press.

1. Turn the key to ignition but do not start the vehicle.
2. Press and hold the desired steering wheel control button for (10) seconds, or until the LED flashes rapidly. At this point release the button; the LED will then go solid.
3. Press and release the **Volume Up** button the number of times corresponding to the new button number selected. Refer to the **Dual Assignment Legend**. The LED will flash rapidly while the **Volume Up** button is being pressed, and then go back to a solid LED once released. Proceed to the next step once the **Volume Up** button has been pressed the desired number of times.  
**Caution:** If more than (10) seconds elapses between pressing the **Volume Up** button, this procedure will abort, and the LED will go out.
4. Press the desired button to store it to memory. The LED will now go out indicating the new information has been stored to memory.

**Note:** These steps must be repeated for each button desired to assign a dual assignment feature to. To reset a button back to its default state, repeat Step 1, then press the **Volume Down** button. The LED will go out, and the dual assignment feature for that button will be erased.

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## STEERING WHEEL CONTROL SETTINGS (CONT.)

### Dual assignment legend

Function #	Function
1	Not allowed
2	Not allowed
3	Seek-Up/Next
4	Seek-Down/Prev
5	Mode/Source
6	ATT/Mute
7	Preset-Up
8	Preset-Down
9	Power

Function #	Function
10	Band
11	Play/Enter
12	PTT
13	On-Hook
14	Off-Hook
15	Fan-Up*
16	Fan-Down*
17	Temp-Up*
18	Temp-Down*

\* Not applicable in this application

## TROUBLESHOOTING

### Resetting the AXDIS-HK3

1. The **Blue** reset button is located inside the **AXDIS-HK3** interface, between the two connectors. The button is accessible outside the **AXDIS-HK3** interface, no need to open the **AXDIS-HK3** interface.
2. Press and hold the reset button for two seconds, then let go to reset the **AXDIS-HK3** interface.
3. Refer to **Programming** from this point.

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



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