Kia **Niro** (without NAV) 2017-2019

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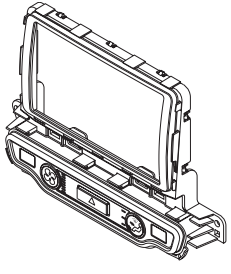
KIT FEATURES

- ISO DIN radio provision with pocket
- ISO DDIN radio provision
- Includes SWC, antenna adapter, and wiring harness
- Retains the factory backup camera
- Includes a climate display to retain the information that was displayed on the factory radio
- Includes a built-in hazard switch
- Painted high gloss black

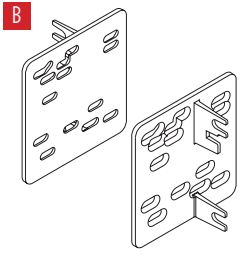
KIT COMPONENTS

• A) Radio trim panel with climate display and hazard switch • B) Radio brackets • C) Pocket • D) (4) #8 x 3/8" Phillips screws
• **Not Shown:** Wiring harness, Antenna adapter

A



B



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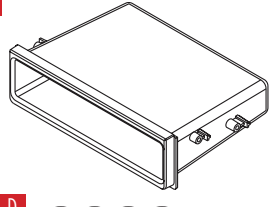

D

TOOLS REQUIRED

- Panel removal tool
- Phillips screwdriver
- 5/16" Socket wrench
- Wire cutter
- Crimp tool
- Solder gun
- Tape
- Connectors (example: butt-connectors, bell caps, etc.)

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WIRING & ANTENNA CONNECTIONS

Wiring Harness: Included with kit
Antenna Adapter: Included with kit
Steering Wheel Control Interface: Included with kit
12V-to-6V Camera Step-Down: Included with kit

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 accessory before installing this device.

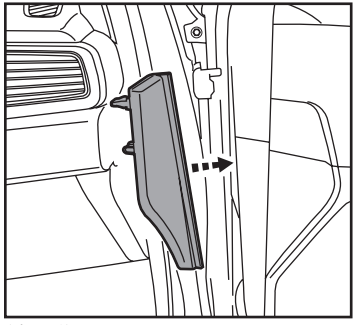
DASH DISASSEMBLY

1. Open the passenger door then unclip and remove the panel on the side of the dashboard. Remove (1) Phillips screw exposed. (Figure A)
2. Unclip and remove the entire panel surrounding the climate control. (Figure B)
3. Carefully unclip and remove the panel surrounding the radio. (Figure C)

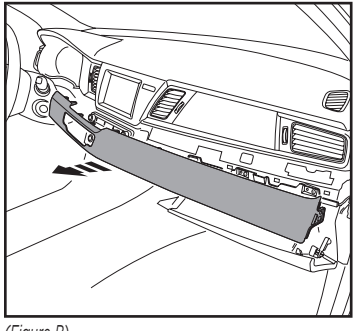
   Note: *This panel is held on by (18) clips. Extreme care and patience must be taken not to break the panel.*
4. Remove (6) Phillips screws securing the radio, then unplug and remove the radio.

   Note: *The lower harness will reconnect into the kit during kit assembly.*

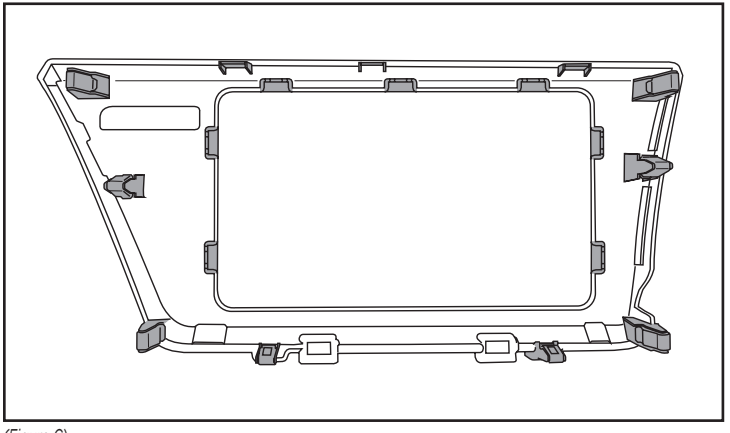
Continue to Kit Assembly



(Figure A)



(Figure B)



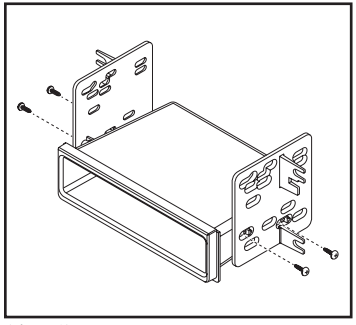
(Figure C)

KIT ASSEMBLY

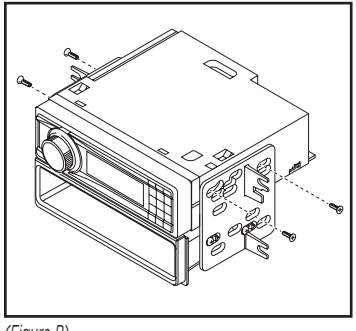
ISO DIN radio provision with pocket

1. Attach the **pocket** to the *radio brackets* using the (4) #8 x 3/8" Phillips screws provided. (Figure A)
2. Remove the metal DIN sleeve and trim ring from the aftermarket radio.
3. Slide the radio into the bracket/pocket assembly and then secure it using the screws supplied with the radio. (Figure B)

Continue to Wiring Instructions



(Figure A)

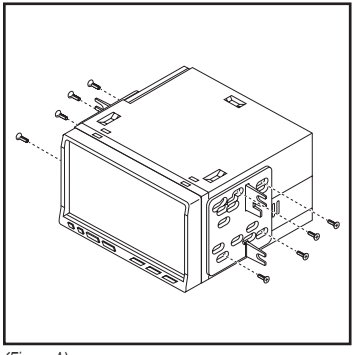


(Figure B)

ISO DDIN radio provision

1. Attach the **radio brackets** to the radio using the screws supplied with the radio. (Figure A)

Continue to Wiring Instructions



(Figure A)

WIRING INSTRUCTIONS

FEATURES

- Retains audio controls on the steering wheel
- Provides NAV outputs (speed sense)
- Retains the factory backup camera
- Includes 12V-to-6V step-down for the factory camera
- Retains balance and fade

TABLE OF CONTENTS

COMPONENTS

- Steering wheel control interface (black box with 12-pin connection
- 12V-to-6V step-down (black box with wires coming out)
- Wiring harness (LD-NIROHAZ)

TOOLS REQUIRED

- Crimping tool and connectors, or solder gun, solder, and heat shrink
- Tape • Wire cutter • Zip ties

CONNECTIONS

From the wiring harness included with the kit to the aftermarket radio:

- Connect the **Black** wire, the **Black** wire labeled "CAMERA GROUND", and also the **Black** wire from the camera's step down interface, to the ground wire.
- Connect the (2) **Yellow** wires to the battery wire.
- Connect the **Red** wire to the accessory wire.
- Connect the **Red** wire labeled "6-volt camera power" to the **Blue/Red** wire from the camera's step down interface.
- Connect the **Blue** wire to the power antenna wire.
- If the aftermarket radio has an illumination wire, connect the **Orange** wire to it.
- 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** 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.

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 retaining the factory AUX-In jack, connect the **Red** and **White** RCA jacks to the audio AUX-IN jacks.
- Connect the **Yellow** RCA jack to the backup camera input.

Continued on the next page

CONNECTIONS *(CONT.)*

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 wiring harness included with the kit. 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 AX-SWC-PARROT (sold separately). Then connect the 4-pin connector from the AX-SWC-PARROT 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 wiring harness included with the kit to the jack on the radio designated for an external steering wheel control interface. 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 wiring harness included with the kit to the *radio trim panel with climate display and hazard switch*, and then to the wiring harness in the vehicle.
2. Locate the factory antenna connector in the dash and complete all necessary connections to the radio. Use the antenna adapter provided to adapt the factory antenna connector to the aftermarket radio.
3. Connect the wiring harness included with the kit to the Steering Wheel Control Interface (SWC).

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

PROGRAMMING THE STEERING WHEEL CONTROL INTERFACE AND CLIMATE DISPLAY

Programming the Steering Wheel Control Interface:

1. Press and hold the **Volume-Up** button on the steering wheel, then turn the ignition on. The L.E.D. will start flashing rapidly, which means the **SWC** is looking for the vehicle and the radio.

   Note: If the L.E.D. didn't start flashing rapidly, press the reset button for 3 seconds, while still holding the **Volume-Up** button.
2. After a few seconds the L.E.D. should stop flashing rapidly, then go out for approx. 2 seconds.
3. After approximately 2 seconds there will be a series of 7 **Green** flashes, some short, and some long. The long flashes represent the wires that are connected to the **SWC**.

   Tip: Knowing this will help to troubleshoot, if need be.
4. The L.E.D. will pause for another 2 seconds, then flash **Red** up to 18 times depending on which radio is connected to the **SWC** interface. Refer to the L.E.D. feedback section for information.
5. This is the end of the auto detection stage. If the **SWC** detected the vehicle and the radio successfully, the L.E.D. will light up solid. Release from holding the **Volume-Up** button.
6. Test the steering wheel controls for proper operation. Refer to **Steering Wheel Control Interface/Steering Wheel Control Settings** for customizing the buttons, if so desired.

Programming the climate display:

7. Turn the key (or push to start button) to the ignition position if not already.
8. Press the hazard button.
9. In a few moments both the smaller LCD screens on the climate display should illuminate.
10. Test all functions of the installation for proper operation, before reassembling the dash.

FINAL ASSEMBLY

1. Secure the radio assembly to the dash using the factory screws.
2. Secure the *radio trim panel with climate display and hazard switch* to the dash using the factory screws.
3. Reassemble the dash in reverse order of disassembly to complete the installation.

L.E.D. feedback

The (24) **Red** L.E.D. flashes represent the radio the **SWC** interface believes it's connected to. Each flash represents a different radio Manufacturer. For example, if you are installing a JVC radio, the **SWC interface** will flash **Red** (5) times, and then stop. Following is a legend that dictates which radio Manufacturer corresponds to which flash.

L.E.D. 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	TBA
18	JBL
19	Insane
20	Magnadyne
21	Boss
22	Axxera
23	Axxerra (type 2)
24	Alpine (type 2)

* If the **Steering Wheel Control Interface** flashes **Red** (7) times, and you do not have an **Alpine** radio connected to it, that means the **SWC** interface does not detect a radio connected to it. Verify that the 3.5mm jack is connected to the correct steering wheel jack/wire in the radio.

** The **AX-SWC-PARROT** is required (sold separately). Also, the Parrot radio must be updated to rev. 2.1.4 or higher through www.parrot.com.

† If you have a **Clarion** radio and the steering wheel controls do not work, change the radio type to the other **Clarion** radio type; same for **Eclipse**. The following section explains how to do this.

‡ If you have a **Kenwood** radio and the L.E.D. feedback comes back showing as a **JVC** radio, change the radio type to **Kenwood**. The following section explains how to do this.

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

Changing radio type

If the L.E.D. flashes do not match the radio you have connected, you must manually program the **SWC** 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 L.E.D. in the **SWC** interface goes solid.
2. Release the **Volume Down** button; the L.E.D. will go out indicating the **SWC** 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 L.E.D. 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 L.E.D. goes solid. The L.E.D. will remain on for about (3) seconds while it stores the new radio information.
6. Once the L.E.D. 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.

Radio legend

Radio #	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) †

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

Remapping the steering wheel control buttons

Once the **Steering Wheel Control** 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 **SWC** interface is visible so you can see the L.E.D. 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 L.E.D. goes solid.
3. Release the **Volume Up** button, the L.E.D. 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 L.E.D. comes on to skip that function, then release the **Volume Up** button. This will tell the **SWC** 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 L.E.D. in the **SWC** interface goes out.

Continued on the next page

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 **Steering Wheel Control 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 L.E.D. flashes rapidly. At this point release the button; the L.E.D. 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 L.E.D. will flash rapidly while the **Volume Up** button is being pressed, and then go back to a solid L.E.D. 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 L.E.D. will go out.
4. Press the desired button to store it to memory. The L.E.D. 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 L.E.D. will go out, and the dual assignment feature for that button will be erased.

Continued on the next page

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*

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