Kia **Sportage** (with auto climate control and factory amplifier)
2017-2019

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KIT FEATURES

- ISO DDIN radio provision
- ISO DIN radio provision with pocket
- Integrated electronics with laser etched graphics retain the factory climate control display features.
- Retains factory steering wheel controls and back up camera.
- Painted scratch resistant matte black.

KIT COMPONENTS

• A) Radio trim panel • B) Radio brackets • C) Pocket • D) Climate display • E) (2) #8 x 3/8" Phillips screws • F) Wiring harness (not shown)
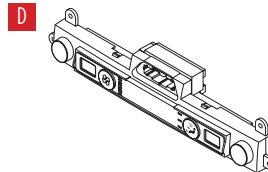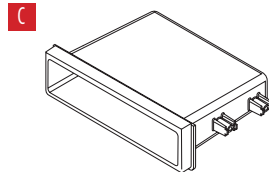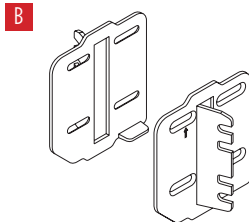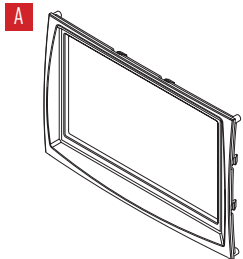
A

B

C

D

E

WIRING & ANTENNA CONNECTIONS

Wiring Harness: Interface and harness included
Antenna Adapter: Included with kit
Steering wheel control interface: Included with kit
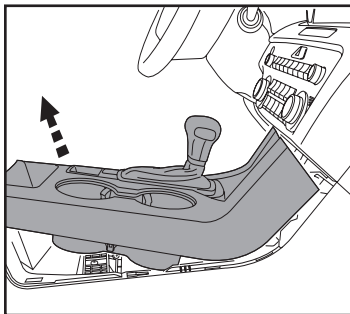12v to 6v camera step-down: included with kit

TOOLS REQUIRED

- Panel removal tool • Phillips screwdriver
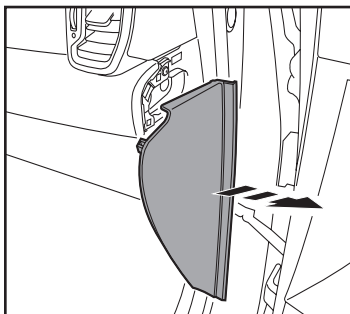- Pick tool

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.**

1. Unclip and slide the top of the center console back slightly. (Figure A)

2. Unclip and remove the panel on the end of the passenger side of the dash, then remove (1) Phillips screw exposed. (Figure B)
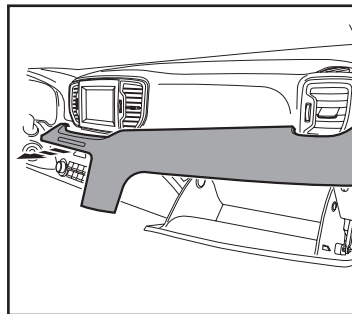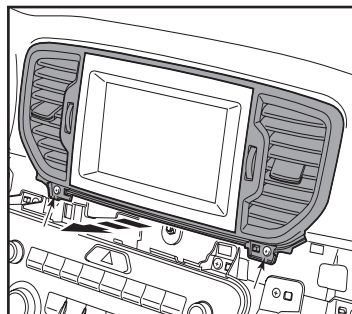
3. Unclip the panel above the glove box. Unplug the passenger airbag light, then remove the panel. (Figure C)

4. Remove (2) Phillips screws securing the radio display and a/c vent panel, then unclip and remove the panel. (Figure D)

Continued on the next page

(Figure A)

(Figure B)

(Figure C)

(Figure D)

5. Remove (4) Phillips screws securing the radio. Slide the radio out, then unplug and remove the radio. (Figure E)

6. Remove (3) Phillips screw securing the climate control panel. (Figure F)
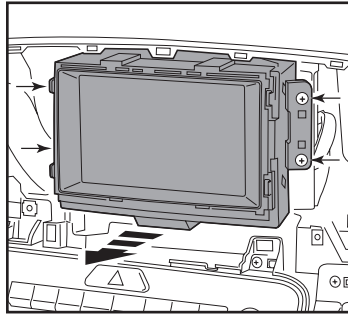
(Figure E)
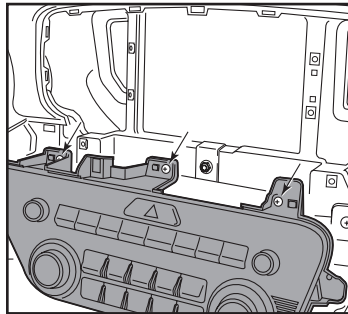
(Figure F)

7. Remove (1) Phillips screw securing the lower right side drivers knee bolster. Unsnap the bolster just enough to access the (1) Phillips screw securing the climate control panel, then remove the screw. (Figure G)

8. Unclip the climate/radio control panel from the dash, unplug the connectors, then remove the panel. (Figure H)

Continue to Kit Preparation
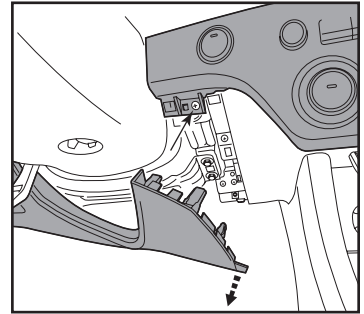
(Figure G)
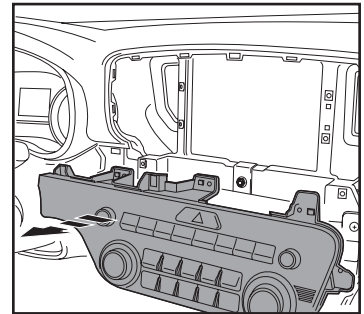
(Figure H)

Radio Trim Panel Installation

From the factory radio trim panel:

1. Remove (4) Phillips screws securing the inner trim panel, then remove the panel. (Figure A)

To the factory radio trim panel:

2. Secure the 99-7390B **radio trim panel** to the panel using with the factory screws. (Figure B)
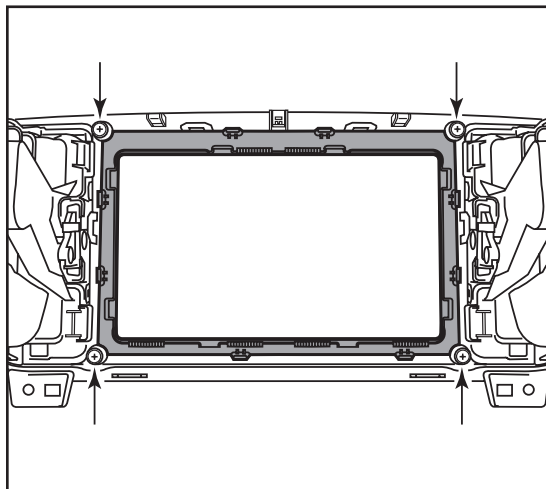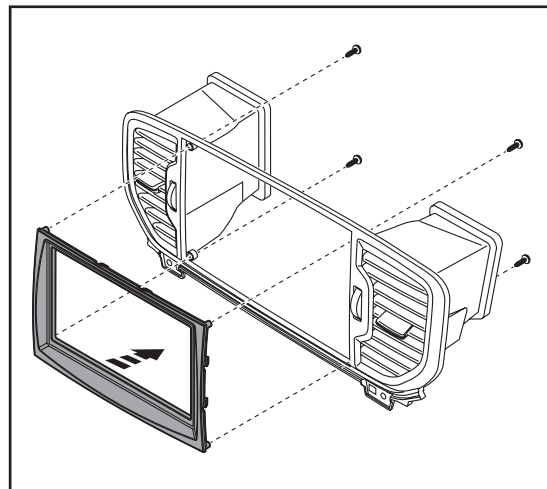
(Figure A)

(Figure B)

Climate Display Installation

1. Remove (4) Phillips screws securing the radio/hazard assembly to the climate/radio control panel, then unclip and remove the assembly.
(Figure C, heavier arrows)

2. Remove (9) Phillips screws securing the back cover to the radio/hazard assembly, then remove the cover.
(Figure C)

3. Using a pick tool, gently release (4) clips holding the hazard switch to the assembly, then remove the switch.
(Figure D)

Continued on the next page
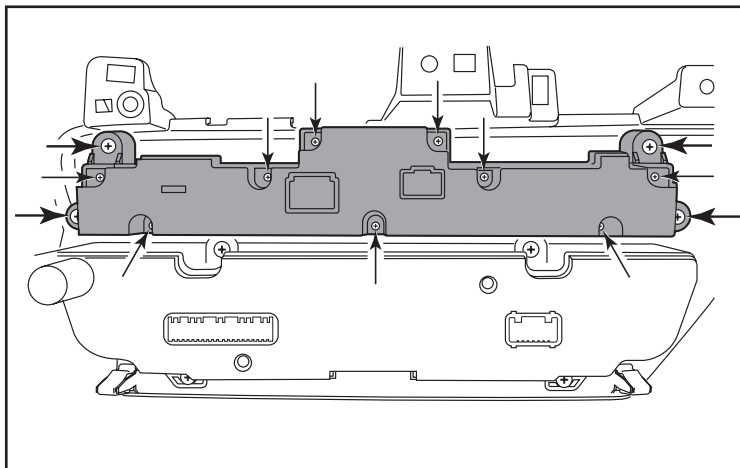
(Figure C)
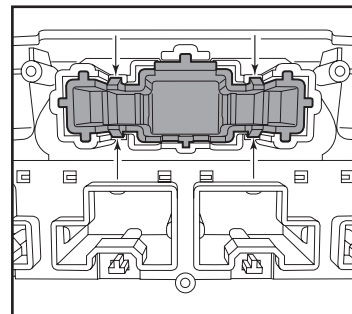
(Figure D)

4. Clip the hazard switch into the **climate display**. (Figure E)

5. Secure the climate-display/hazard-switch assembly to the climate control panel using the factory screws. (Figure F**)**

Continue to Kit Assembly
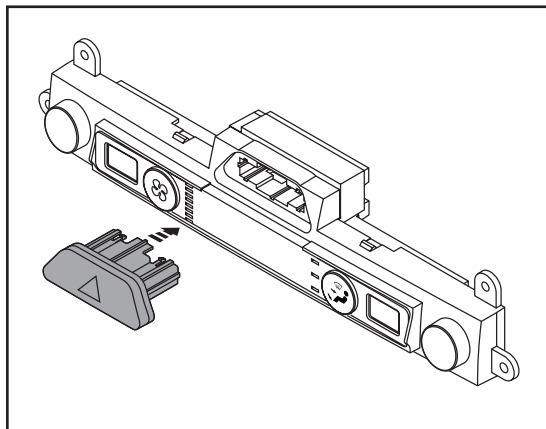
(Figure E)
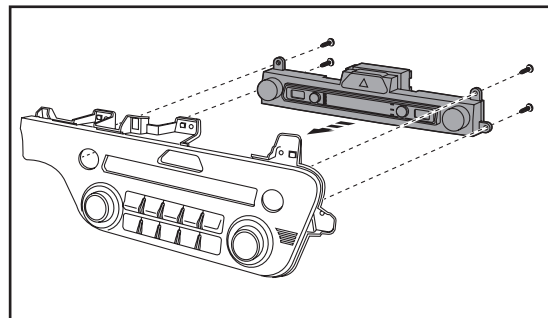
(Figure F)

ISO DIN radio provision with pocket

1. Secure the **radio brackets** to the **pocket** using the (2) #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, then secure it to the assembly using the screws supplied with the radio. (Figure B)

   Continue to Axxess Interface Installation
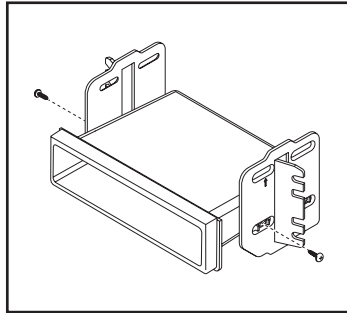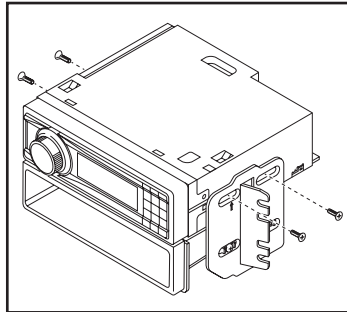
(Figure A)

(Figure B)

ISO DDIN radio provision

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

   Continue to Axxess Interface Installation
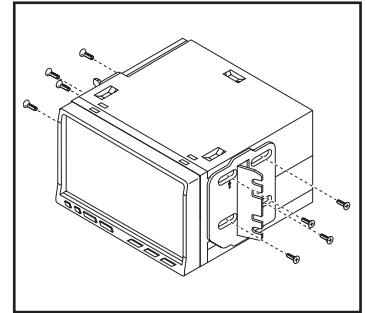
(Figure A)

INTERFACE FEATURES

- Retains audio controls on the steering wheel
- Provides NAV outputs (parking brake, reverse, speed sense)
- Retains the factory AUX-IN jack
- Retains the factory backup camera
- Includes an AX-CAM6V 12-to-6V step-down for the factory camera
- Retains balance
- Micro "B" USB updatable

INTERFACE COMPONENTS

- Axxess interface
- AX-HYKIA-SPDIF interface
- AX-CAM6V
- 7390 harness
- 16-pin harness with stripped leads
- Female 3.5mm connector with stripped leads

TABLE OF CONTENTS

TOOLS REQUIRED

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

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

- Connect the **Red** wire to the accessory wire.

- Connect the **Blue/White** wire to the amp turn on wire. This wire must be connected to hear sound from the factory amplifier.

- 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.

The following (2) wires are only for multimedia/navigation radios that require these wires.

- Connect the **Green/Purple** wire to the reverse wire, and also to the **Blue/White** wire from the AX-CAM6V (sold separately).

- Connect the **Light Green** wire to the parking brake wire.

- Tape off and disregard the following (7) wires, they will not be used in this application: **Blue/Pink, Brown, Green, Green/Black, Orange/White, Purple, Purple/Black**

From the 7390 harness to the aftermarket radio:

- Connect the **Black** wire, and also the **Black** wire from the AX-CAM6V, to the ground wire.

- Connect the **Yellow** wire to the battery wire.

- Connect the **Red** wire labeled "CAMERA POWER 6V" to the **Blue/Red** wire from the AX-CAM6V.

- Connect the **Blue** wire to the power antenna wire.

- If the aftermarket radio has an illumination wire, connect the **Orange** wire to it.

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.

- Tape off and disregard the following (2) wires, they will not be used in this application:

- **Green/Purple, Light Green**

- If retaining the factory AUX-In jack, connect the **Red** and **White** RCA jacks to the audio AUX-IN jacks from the aftermarket radio.

- Connect the **Yellow** RCA jack to the backup camera input.

3.5mm jack steering wheel control retention:

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

- For the radios listed below, connect the *female 3.5mm connector with stripped leads,* to the male 3.5mm SWC jack from the 7390 harness. Any remaining wires tape off and disregard:

  - **Eclipse:** Connect the steering wheel control wire, normally **Brown**, to the **Brown/White** wire of the connector. Then connect the remaining steering wheel control wire, normally **Brown/White**, to the **Brown** wire of 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 your **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 into the AX-SWC-PARROT (sold separately), and then connect the 4-pin connector from the AX-SWC-PARROT into 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 of the connector. Then connect the remaining steering wheel control wire, referred to as Key-B or SWC-2, to the **Brown/White** wire of 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 7390 harness into the jack on the aftermarket 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.

With the key in the off position:

1. Connect the 16-pin harness with stripped leads, and the 7390 harness, into the interface.

2. Connect the AX-HYKIA-SPDIF to the interface.

3. 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.

Attention! Do not connect the 7390 harness to the wiring harness in the vehicle just yet.

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 interface:

For the steps below, the L.E.D. located inside the interface can only be seen while active. The interface does not need to be opened to see the L.E.D.

- Start the vehicle.
- Connect the 7390 harness to the wiring harness in the vehicle.
- The L.E.D. will initially turn on solid **Green**, then turn off for a few seconds while it auto detects the radio installed.
- The L.E.D. will then flash **Red** up to (18) 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 L.E.D. feedback section for more information.
- After a couple seconds the L.E.D. 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.
- Once the vehicle has been auto detected by the interface, the L.E.D. will turn on solid **Green**, and the radio will come back on, indicating programming was successful.
- Test all functions of the installation for proper operation, before reassembling the dash. Refer to "Steering Wheel Control Settings" for customizing the buttons, if so desired.
- If the interface fails to function, refer to Resetting the interface.

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

Programming the climate display:

7. Turn the parking lights on.
8. Turn the vehicles light dimmer all the way down, then all the way up.
9. Turn the lights off.

10. Test all functions of the installation for proper operation, before reassembling the dash.

FINAL ASSEMBLY

1. Secure the climate control assembly to the dash in reverse order of disassembly using the factory screws.
2. Secure the radio assembly 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 (18) **Red** L.E.D. flashes represent what brand radio the ASWC-1 believes it is connected to. Each flash represents a different radio Manufacturer. For example, if you are installing a JVC radio, the ASWC-1 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	Flash Count	Radio
1	Eclipse (type 1) †	10	Clarion (type 2) †
2	Kenwood ‡	11	Metra OE
3	Clarion (type 1) †	12	Eclipse (type 2) †
4	Sony / Dual	13	LG
5	JVC	14	Parrot **
6	Pioneer / Jensen	15	XITE
7	Alpine *	16	Philips
8	Visteon	17	TBA
9	Valor	18	JBL

* Note: If the Axxess interface flashes Red (7) times, and you do not have an Alpine radio connected to it, that means the Axxess 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.

** Note: 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.

† Note: 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.

‡ Note: 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 Axxess interface has been programmed.

Continued on the next page

Changing radio type

If the L.E.D. flashes do not match the radio you have connected, you must manually program the Axxess 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 Axxess interface goes solid.

2. Release the "Volume-Down" button; the L.E.D. will go out indicating the Axxess 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, and 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.

Continued on the next page

Radio Legend

Radio Number	Radio	Radio Number	Radio
1	Eclipse (type 1)	10	Clarion (type 2)
2	Kenwood	11	Metra OE
3	Clarion (type 1)	12	Eclipse (type 2)
4	Sony / Dual	13	LG
5	JVC	14	Parrot
6	Pioneer / Jensen	15	XITE
7	Alpine	16	Philips
8	Visteon	17	TBA
9	Valor	18	JBL

Remapping the steering wheel control buttons

Once the ASWC-1 has been programmed, the button assignment for the steering wheel controls may be reassigned if so desired. For example, if the "Seek-Up" button is preferred to be the "Mute" button instead. Follow the steps below to remap the steering wheel control buttons.

1. Ensure the Axxess 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 on the steering wheel, press the "Volume-Up" button for (1) second until the L.E.D. comes on to skip that function, and then release the "Volume-Up" button. This will tell the Axxess interface that this function is not available, and it will 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 Axxess interface goes out.

Button Function Legend

Function #	Function	Function #	Function
1	Volume-Up	10	Band
2	Volume-Down	11	Play/Enter
3	Seek-Up/Next	12	PTT (Push to Talk)
4	Seek-Down/Prev	13	On-Hook
5	Source/Mode	14	Off-Hook
6	Mute	15	Fan-Up *
7	Preset-Up	16	Fan-Down *
8	Preset-Down	17	Temp-Up *
9	Power	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 ASWC-1 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.

Dual Assignment Legend

Function #	Function	Function #	Function
1	Not allowed	10	Band
2	Not allowed	11	Play/Enter
3	Seek-Up/Next	12	PTT (Push to Talk)
4	Seek-Down/Prev	13	On-Hook
5	Mode/Source	14	Off-Hook
6	ATT/Mute	15	Fan-Up *
7	Preset-Up	16	Fan-Down *
8	Preset-Down	17	Temp-Up *
9	Power	18	Temp-Down *

* Not applicable in this application

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Tech Support Hours (Eastern Standard Time)

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mobile electronics certification program