



Nissan Armada (without NAV) 2013-2015, Nissan Armada 2008-2012, Nissan Pathfinder (LE, SE, SV, Silver Edition) 2008-2012

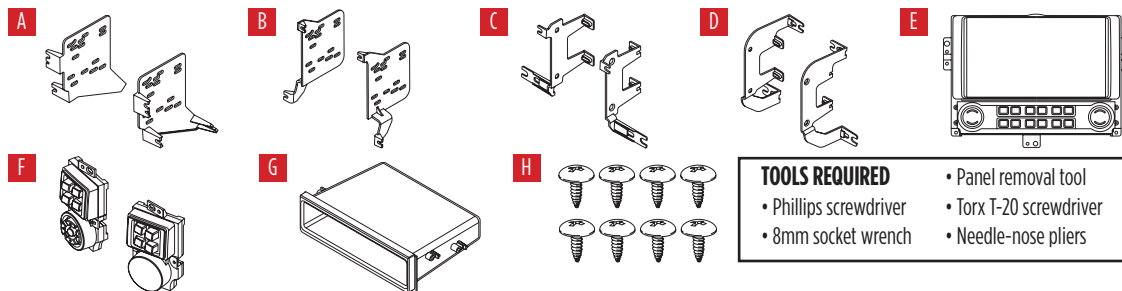
Visit MetraOnline.com for more detailed information about the product and up-to-date vehicle specific applications

KIT FEATURES

- ISO DIN radio provision with pocket
- ISO DDIN radio provision
- Painted scratch-resistant matte black
- Axxess interface to keep the factory screen active
- Buttons and circuitry to control the factory climate system

KIT COMPONENTS

- A) Radio brackets for Armada • B) Radio brackets for Pathfinder • C) Screen brackets for Armada • D) Screen brackets for Pathfinder
- E) HVAC control panel • F) Outboard control panel (2) • G) Pocket • H) #8 x 3/8" Phillips screws (8) • Axxess interface and harness (not shown)



TOOLS REQUIRED

- Panel removal tool
- Phillips screwdriver
- 8mm socket wrench
- Torx T-20 screwdriver
- Needle-nose pliers

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WIRING & ANTENNA CONNECTIONS (sold separately)

Wiring Harness: Axxess interface and harness included
Antenna Adapter: 40-NI12

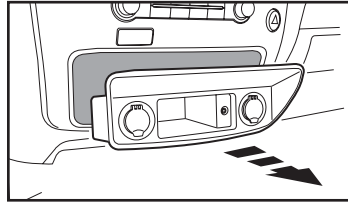
Attention! With the key out of the ignition, disconnect the negative battery terminal before installing this product. Ensure that all installation connections, especially the air bag indicator lights, are plugged in before reconnecting the battery or cycling the ignition to test this product.

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

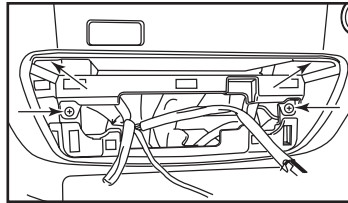
DASH DISASSEMBLY

Nissan Armada (w/o NAV) 2013-2015 Nissan Armada 2008-2012

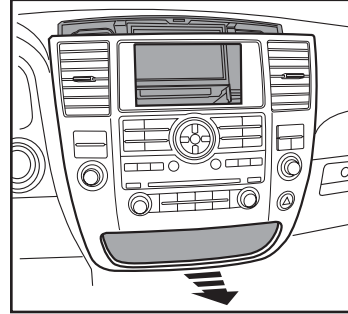
1. Unsnap and remove the power outlet/pocket assembly from the lower center dash. (Figure A)
2. Remove (4) 8mm screws now exposed in the cavity. (Figure B)
3. Using the panel removal tool, carefully unclip and remove the radio/climate control panel, including the A/C vents. (Figure C)
4. Remove (4) 8mm screws securing the display screen/climate module assembly, disconnect the wiring, and then remove the assembly. (Figure D)



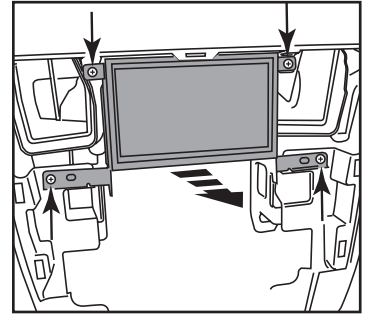
(Figure A)



(Figure B)



(Figure C)



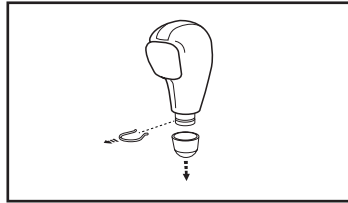
(Figure D)

Continue to Kit Preparation

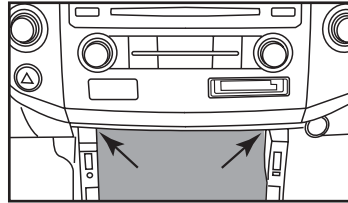
DASH DISASSEMBLY

Nissan Pathfinder (LE, SE, SV, Silver Edition) 2008-2012

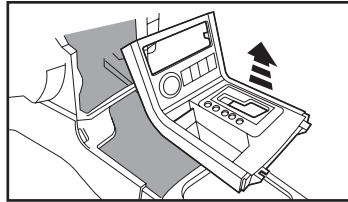
1. Push down on the collar of the shifter handle to expose the clip, and then using a pair of needle nose pliers remove the clip and then the shifter knob. (Figure A)
2. Unsnap and remove the shifter trim panel including the pocket/switch panel below the radio. (Figure B)
3. Remove (2) 8mm screws now exposed in the cavity. (Figure C)
4. Using the panel removal tool, carefully unclip and remove the radio/climate control panel. (Figure D)
5. Remove (4) 8mm screws securing the display screen/climate module assembly, disconnect the wiring, and then remove the assembly. (Figure E)



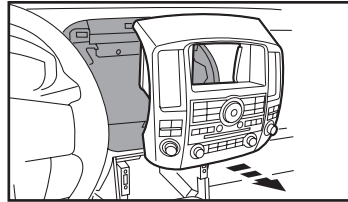
(Figure A)



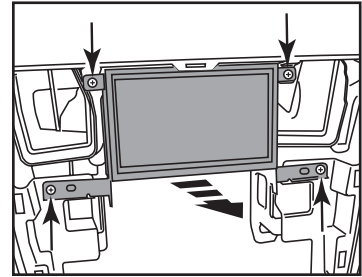
(Figure C)



(Figure B)



(Figure D)



(Figure E)

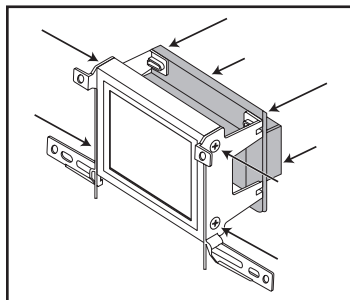
Continue to Kit Preparation

KIT PREPARATION

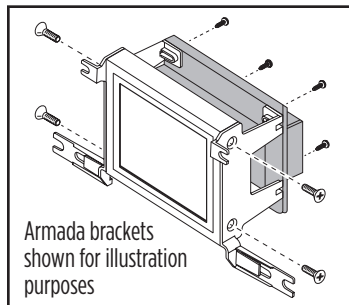
Attention! Hand tools are highly recommended as the factory dash may break with the use of power tools.

1. Remove (4) screws securing the climate module brackets to the climate module and remove the brackets. (Figure A, shaded portion)
2. Secure the climate module to the model specific set of **screen brackets** with the (4) #8 x 3/8" Phillips screws provided with this kit. (Figure B, shaded portion)
3. Remove (4) screws securing the display screen brackets to the display screen and remove the brackets. (Figure A)
4. Secure the display screen to the model specific set of screen brackets using the (4) screws previously removed. (Figure B)
5. Reconnect and secure the completed assembly to the dash using the (4) 8mm screws previously removed.

Note: It may be necessary to file the inside edges of the top (2) screen mounts to accommodate the display screen. The factory brackets will not be reused.



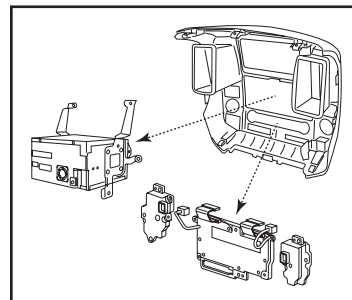
(Figure A)



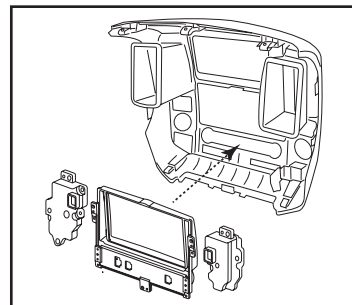
(Figure B)

6. Remove the (4) Torx T-20 screws securing the radio chassis to the radio/climate control panel, and then remove. (Figure C)
7. Remove the Torx screws securing the radio and climate controls buttons to the radio/climate control panel, and then remove. (Figure C)
8. Secure the **HVAC control panel**, and the (2) **outboard control panels**, to the factory radio/climate control panel using the factory hardware. Leave the top (2) mounting screws out for kit assembly. (Figure D)

Continue to Kit Assembly



(Figure C)



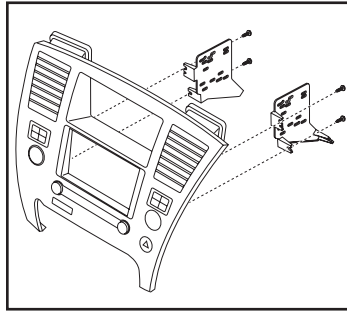
(Figure D)

KIT ASSEMBLY

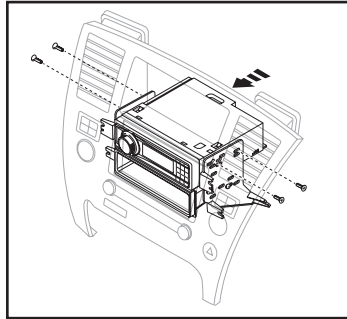
ISO DIN radio provision with pocket

1. Using the factory hardware, secure the model specific **radio brackets** onto the radio/climate control panel. (Figure A)
2. Attach the pocket to the **radio brackets** using the (4) #8 x 3/8" Phillips screws provided with this kit. (Figure B)
3. Remove the metal DIN sleeve and trim ring from the aftermarket radio.
4. Slide the radio into the bracket/pocket assembly, and then secure with the screws supplied with the aftermarket radio. (Figure B)

Continue to Axxess Interface Installation



(Figure A)

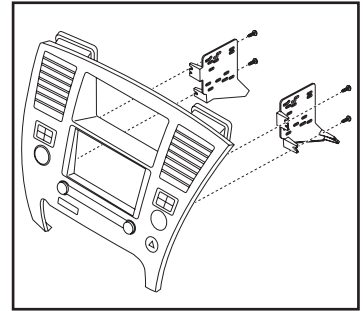


(Figure B)

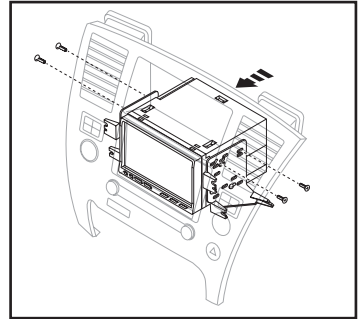
ISO DDIN radio provision

1. Using the factory hardware, secure the model specific **radio brackets** onto the radio/climate control panel. (Figure A)
2. Slide the radio into the bracket/pocket assembly, and then secure with the screws supplied with the aftermarket radio. (Figure B)

Continue to Axxess Interface Installation



(Figure A)



(Figure B)

AXXESS INTERFACE INSTALLATION

INTERFACE FEATURES

- Retains the factory display screen
- Retains the factory backup camera
- Retains the factory AUX-IN jack
- Retains personalization features
- Ability to add an aftermarket backup camera or additional video input
- Works in amplified or non-amplified models
- Pre-wired Axxess steering wheel control harness (sold separately)

INTERFACE COMPONENTS

- Axxess interface
- LD-7620-MAIN components:
 - 7620-MAIN harness
 - 12-pin harness with RCA jacks
 - 20-pin to 24-pin interface to display harness
- LD-7620-NAV components:
 - 7620-NAV harness
 - 32-pin harness with RCA jacks
 - 20-pin to 12-pin interface to display harness
- 14-pin to 14-pin HVAC control panel to interface harness
- 10-pin to 10-pin HVAC control panel to outboard control panel harness (2)

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TOOLS REQUIRED

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

CONNECTIONS

7620-MAIN harness (for models without factory navigation)

For models without a BOSE amplifier:

From the 20-pin harness to the aftermarket radio connect as indicated:

- **Black** wire to the ground wire.
- **Yellow** wire to the battery/memory wire.
- **Red** wire to the accessory wire.
- **Orange** wire to the illumination wire. (if applicable)
- **Gray** wire to the front right (+) speaker output.
- **Gray/Black** wire to the front right (-) speaker output.
- **White** wire to the front left (+) speaker output.
- **White/Black** wire to the front left (-) speaker output.
- **Green** wire to the rear left (+) speaker output.
- **Green/Black** wire to the rear left (-) speaker output.
- **Purple** wire to the rear right (+) speaker output.
- **Purple/Black** wire to the rear right (-) speaker output.

The following wire is only for multimedia/navigation radios that require this wire.

Blue/Pink wire to the VSS/speed sense wire. (if applicable)

Red & White RCA jacks labeled “AUX Left” and “AUX Right” to the audio AUX-IN jacks, if retaining the factory AUX-IN jack.

Disregard the 12-pin Harness with RCA jacks, it will not be used in this application.

- Disregard the **Red** and **White** RCA jacks labeled “From DVD”, they will not be used in this application.

- Disregard the **Yellow** RCA jack labeled “From DVD”, it will not be used in this application.

Note: This 16-pin harness must be connected for the factory backup camera to function. There are (2) 16-pin harnesses in the vehicle. Use the 16-pin harness that was connected into the factory radio chassis.

- If an aftermarket backup camera or external video source is desired to be displayed to the factory display screen, connect the **Yellow** RCA jack labeled “Backcam” to the desired source.

From the 12-pin pre-wired Axxess steering wheel control (SWC) harness & 3.5mm jack:

- If the vehicle is not equipped with steering wheel controls, disregard this harness entirely.
- If the vehicle has steering wheel controls, the 12-pin SWC harness provided in this kit is to be used with an Axxess SWC interface (sold separately) to retain steering wheel controls. Disregard the harness that comes with the interface.

Note: Please verify the Axxess steering wheel control connections for your vehicle by visiting www.axxessinterfaces.com, and using the vehicle fit guide to find a vehicle specific instruction. If the vehicle is not equipped with steering wheel controls, disregard this harness entirely.

Continue to Installation

CONNECTIONS

7620-MAIN harness (for models without factory navigation)

For models with a BOSE amplifier:

From the 20-pin Harness to the aftermarket radio, connect as indicated:

- **Black** wire with a ring terminal chassis ground.
- **Yellow** wire to the battery/memory wire.
- **Red** wire to the accessory wire.
- **Orange** wire to the illumination wire. (if applicable)

*The following wire is only for multimedia/navigation radios that require the wire. **Blue/Pink** wire to the VSS/speed sense wire.*

- *Tape off and disregard the following (9) wires, they will not be used in this application: **Gray, Gray/Black, Green, Green/Black, Purple, Purple/Black, White, White/Black, White/Blue.***
- If retaining the factory AUX-IN jack, connect the **Red** and **White** RCA jacks labeled "AUX Input" to the AUX input.
- Disregard the **Red** and **White** RCA jacks labeled "From DVD", they will not be used in this application.
- Disregard the **Yellow** RCA jack labeled "From DVD", it will not be used in this application.

Note: This 16-pin harness must be connected for the factory backup camera to function. There are (2) 16-pin harnesses in the vehicle. Use the 16-pin harness that was connected into the factory radio chassis.

- If an aftermarket backup camera or external video source is desired to be displayed to the factory display screen, connect the **Yellow** RCA jack labeled "Backcam" to the desired source.

From the 12-pin pre-wired Axxess steering wheel control (SWC) harness & 3.5mm jack:

- If the vehicle is not equipped with steering wheel controls, disregard this harness entirely.
- If the vehicle has steering wheel controls, the 12-pin SWC harness provided in this kit is to be used with an Axxess SWC interface (sold separately) to retain steering wheel controls. Disregard the harness that comes with the interface.

Note: Please verify the Axxess steering wheel control connections for your vehicle by visiting www.axxessinterfaces.com, and using the vehicle fit guide to find a vehicle specific instruction.

From the 12-pin harness with RCA jacks to the aftermarket radio, connect as indicated:

- **Blue/White** wire to the amp turn on wire. This wire must be connected to hear sound from the factory amplifier.
- **White** RCA to the left front RCA output.
- **Gray** RCA to the right front RCA output
- **Green** RCA to the left rear RCA output.
- **Purple** RCA to the right rear RCA output.

Continue to Installation

CONNECTIONS

7620-NAV harness (for models with factory navigation)

From the 20-pin harness to the aftermarket radio connect as indicated:

- **Black** wire with a ring terminal to chassis ground.
- **Yellow** wire to the battery wire.
- **Red** wire to the accessory wire.
- **Orange** wire to the illumination wire (if applicable)
- **Blue/Pink** wire to the speed sense wire (if applicable).

From the 20-pin Harness to the aftermarket radio, connect as indicated:

- **White** wire to the left front (+) speaker output.
- **White/Black** wire to the left front (-) speaker output.
- **Gray** wire to the right front (+) speaker output.
- **Gray/Black** wire to the right front (-) speaker output.
- **Green** wire to the left rear (+) speaker output.
- **Green/Black** wire to the left rear (-) speaker output.
- **Purple** wire to the right rear (+) speaker output.
- **Purple/Black** wire to the right rear (-) speaker output.

From the 12-pin pre-wired Axxess steering wheel control (SWC) harness & 3.5mm jack:

- If the vehicle is not equipped with steering wheel controls, disregard this harness entirely.
- If the vehicle has steering wheel controls, the 12-pin SWC harness provided in this kit is to be used with an Axxess SWC interface (sold separately) to retain steering wheel controls. Disregard the harness that comes with the interface.

Note: Please verify the Axxess steering wheel control connections for your vehicle by visiting www.axxessinterfaces.com, and using the vehicle fit guide to find a vehicle specific instruction.

From the 32-pin harness with RCA jacks to the aftermarket radio:

- If retaining the factory AUX-IN jack, connect the **Red** and **White** RCA jacks labeled “AUX Input” to the AUX input.
- Disregard the **Red** and **White** RCA jacks labeled “From DVD”, they will not be used in this application.

Continue to Installation

INSTALLATION

For models *without* factory navigation:

With the key in the off position:

Attention! Extreme care must be taken when inserting the following harnesses. They can be forced in backwards and can permanently damage the kit if so.

1. Connect the **7620-MAIN harness** into the interface, and then to the wiring harness in the vehicle.
2. Connect the **20-pin to 24-pin interface to display harness** into the interface, and then to the 24-pin display harness in the vehicle.
3. Connect the **12-pin harness with RCA jacks** to the wiring harness in the vehicle.
4. Connect the **14-pin to 14-pin HVAC control panel to interface harness** into the interface, and then to the HVAC control panel.
5. Connect the **10-pin to 10-pin HVAC control panel to outboard control panel harness** into the HVAC control panel, and then to the outboard control panel. The right side connector on the HVAC control panel will go to the right side outboard control panel, and likewise for the left side.

For models *with* factory navigation:

With the key in the off position:

Attention! Extreme care must be taken when inserting the following harnesses. They can be forced in backwards and can permanently damage the kit if so.

1. Connect the **7620-NAV harness** into the interface, and then to the wiring harness in the vehicle.
2. Connect the **20-pin to 12-pin interface to display harness** into the interface, and then to the 12-pin display harness in the vehicle.
3. Connect the **32-pin harness with RCA jacks** to the wiring harness in the vehicle.
4. Connect the **14-pin to 14-pin HVAC control panel to interface harness** into the interface, and then to the HVAC control panel.
5. Connect the **10-pin to 10-pin HVAC control panel to outboard control panel harness** into the HVAC control panel, and then to the outboard control panel. The right side connector on the HVAC control panel will go to the right side outboard control panel, and likewise for the left side.

FINAL ASSEMBLY

1. Locate the factory antenna connector in the dash and complete all necessary connections to the radio. Metra recommends using the proper mating adapter from Metra.
2. Before using the kit it must be initialized.

Attention! If the interface loses power for any reason, the following steps will need to be performed again.

- a. Turn the key (or push-to-start button) to the ignition position and wait until the factory display screen comes on. The screen should come on within 30 seconds.

Note: If the screen does not come on, turn the key to the off position, disconnect the interface, check all connections, reconnect the interface, and then try again. Ensure that the display harness is connected.

- b. Start the vehicle and test all functions of the installation for proper operation, before reassembling the dash.

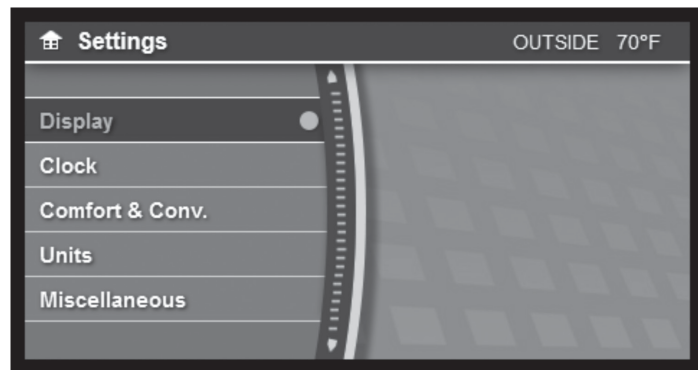
Note: The rear seat climate controls (if applicable) will no longer function with this kit.

3. Secure the completed assembly into the dash using the factory screws, and then reassemble the dash in reverse order of disassembly to complete the installation.

Note: If installing the **Axxess Steering Wheel Control** interface, test the aftermarket radio first; then, with the key on the off position, connect the **Axxess SWC** and follow the instructions on www.axxessinterfaces.com.

SCREEN OPERATION

Settings:



All button functions are retained and controlled in the same manner as the factory buttons were controlled.

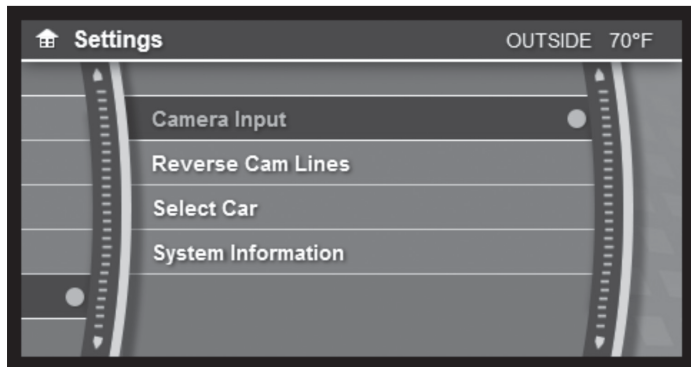
(**Example:** Tire Pressure, Fuel Economy, Brightness, Clock Setting, etc).

Note: The (2) blank buttons on the HVAC control panel will not be used in this application.

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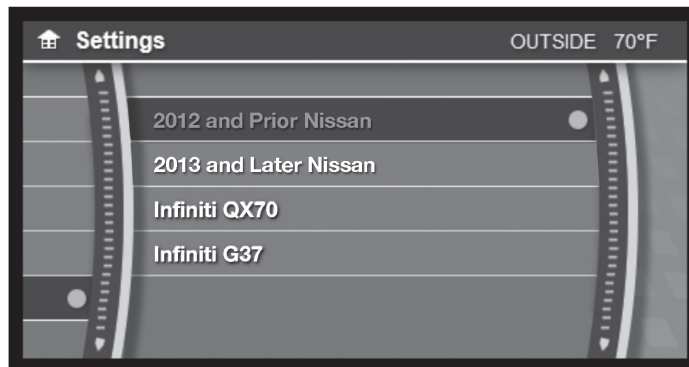
SCREEN OPERATION (CONT)

Miscellaneous:



- Go to - SETTINGS>MISCELLANEOUS
- **This menu allows access to the following options:** Camera Input / Reverse Camera Lines / Select Car / System Information

Select Car:

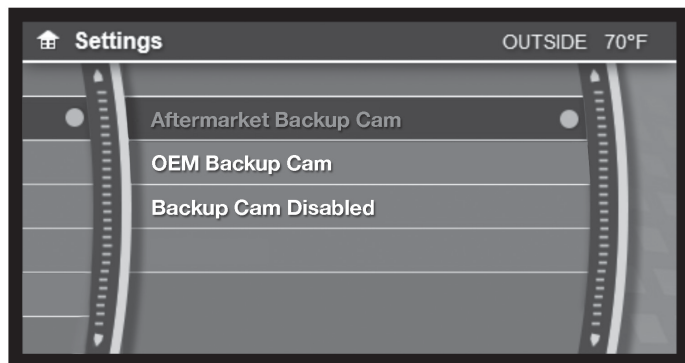


- Go to - SETTINGS>MISCELLANEOUS>SELECT CAR
- The Axxess interface will auto-detect the auto manufacturer. In the settings menu there is an option for manually designating the vehicle type to the interface. Also note, if the current selection does not appear to be functioning as intended, select a different vehicle to try.

Continued on the next page

SCREEN OPERATION (CONT)

Camera input:



- Go to – SETTINGS> MISCELLANEOUS>CAMERA INPUT
- The factory back-up camera will continue to function by default. No extra steps are required.
- If an aftermarket backup camera has been purchased, select “Aftermarket Backup Cam”.
- **For non-nav models only:** To use an external video source (AUX-VIDEO) on the factory display screen, select “Backup Cam Disabled”.
- To activate AUX-VIDEO, press the blank button on the right outboard controller. AUXVIDEO will only function while the vehicle is in park.

Reverse Cam Lines:

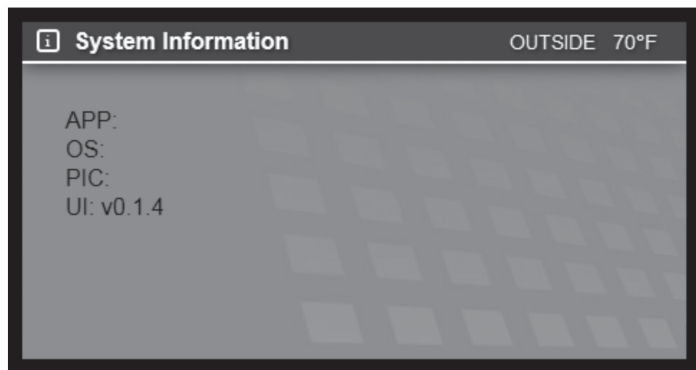


- Go to – SETTINGS>MISCELLANEOUS> REVERSE CAM LINES
- The reverse camera lines are off by default.
- Turn on to activate the reverse camera lines; off to deactivate them.

Continued on the next page

SCREEN OPERATION *(CONT)*

System Information:



- Go to - SETTINGS>MISCELLANEOUS>SYSTEM INFORMATION
- To access the current software of the product.
- Please have this information available when calling Tech Support for assistance.

UPDATING THE INTERFACE

Attention: In order to update the Axxess interface, the kit must have power from the vehicle.

1. Download and install the WebXXpress software update from axxessinterfaces.com.
2. Connect the USB-MINI-CAB update cable (sold separately) between the Axxess interface and the computer. The cable will connect into the port on the Axxess interface labeled “A”.
3. Remove the main connector from the vehicle. This will remove power from the kit.
4. Reconnect the main harness back to the vehicle, putting power back to the kit.
5. From the Start Menu of the computer, click on “USB Bootloader”, and then click “Update Board”.
6. Within a few seconds, the software will begin to download.

Note: If 30 seconds elapses before you finish this step, you will need to remove power from the Axxess interface, reapply power, and then start the update process again.

Note: Please note which firmware downloaded to the interface. This will help in troubleshooting, if need be.



99-7620B
INSTALLATION INSTRUCTIONS



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 - 7:00 PM

Sunday: 10:00 AM - 4:00 PM



KNOWLEDGE IS POWER

Enhance your installation and fabrication skills by enrolling in the most recognized and respected mobile electronics school in our industry. Log onto www.installerinstitute.edu or call 386-672-5771 for more information and take steps toward a better tomorrow.

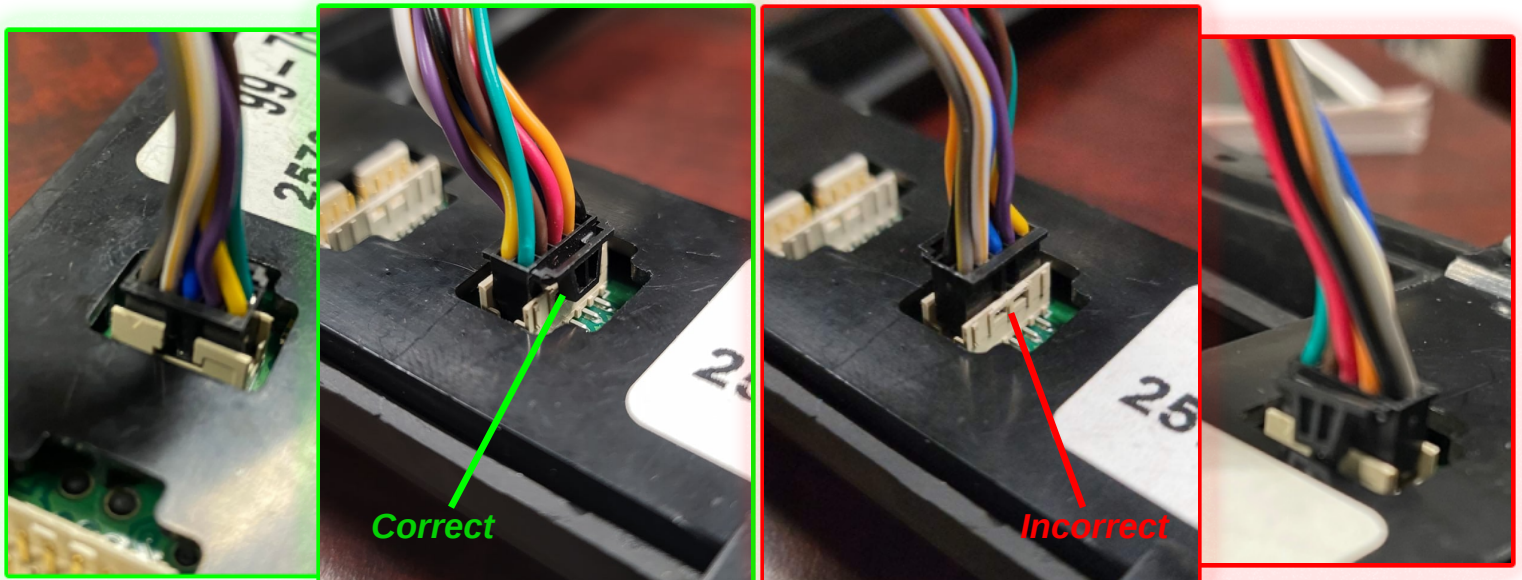


**Metra recommends MECP
certified technicians**

HVAC | Controls not responding



Ensure the connectors (10 pin) are set in the correct orientation.
See photo below for correct locking position.



99-7620B Tech Tip

The vehicle side harness¹ you use with this kit has a long black wire with a ring terminal on it.

This wire needs to be connected to chassis ground **before** you connect the interface to power. Failure to do so may cause damage to the interface.

If your vehicle side harness¹ does not have this wire, please add one before connecting the interface.

Note: Do not connect this wire to the radio ground, vehicles that use this kit may not have a ground in the factory wiring harness. It is recommended that you use a self-tapping screw to bare clean metal in the vehicle. Always check for clearance before drilling holes or screws.

¹The vehicle side harness used in this kit will be either "LD-7620-MAIN" or "LD-7620-NAV"