



## AXi-GM1-R INSTALLATION MANUAL

**PLEASE REVIEW THIS INSTALLATION MANUAL  
CAREFULLY BEFORE BEGINNING ANY WORK**



**PROUDLY MADE IN USA**

Rev. 4.0 081915

**PLUG & PLAY WIRING HARNESS COMPATIBLE WITH**

**AXi-RGB1**

**AXi-RGB2**

**AXi-RGB3**

**Tech Support: 844-AXX-ESSI [WWW.AXXESSINTERFACES.COM](http://WWW.AXXESSINTERFACES.COM)**



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### **IMPORTANT WARNING**

This product includes instructions for installation which must be carefully followed. The instructions are worded in such a manner to assume that the installer is capable of completing these type of electronic installations. If you are unclear as to what you are instructed to do or believe that you do not understand the instructions so as to properly and safely complete the installation you should consult a technician who does have this knowledge and understanding.

Failure to follow these instructions carefully and to install the interface as described could cause harm to the vehicle or to safety systems on the vehicle. Interference with certain safety systems could cause harm to persons as well. If you have any questions in this regard please call the Metra Help line at 1-844-299-3774 and for ordering questions call Metra at 1-800-221-0932.

## COMPATIBLE VEHICLES

MAKE	MODEL	YEAR
CADILLAC	DTS	2006-2011
CADILLAC	SRX	2007-2009
CHEVROLET	AVALANCHE	2007-2011
CHEVROLET	SILVERADO	2007-2011
CHEVROLET	SUBURBAN	2007-2011
CHEVROLET	TAHOE	2007-2011
CHEVROLET	TRAVERSE	2009-2012
GMC	ACADIA	2007-2012
GMC	SIERRA	2007-2011
GMC	YUKON	2007-2011
HUMMER	H2	2008-2009

## ACCESSORY GROUND REVERSE LOCATION

MAKE	MODEL	YEAR	ACCESSORY	GROUND	REVERSE
CADILLAC	DTS	2006-2011	IGNITION SWITCH	RADIO GND	REV, LIGHT
CADILLAC	SRX	2007-2009	IGNITION SWITCH	RADIO GND	REV, LIGHT
CHEVROLET	AVALANCHE	2007-2011	IGNITION SWITCH	RADIO GND	REV, LIGHT
CHEVROLET	SILVERADO	2007-2011	IGNITION SWITCH	RADIO GND	REV, LIGHT
CHEVROLET	SUBURBAN	2007-2011	IGNITION SWITCH	RADIO GND	REV, LIGHT
CHEVROLET	TAHOE	2007-2011	IGNITION SWITCH	RADIO GND	REV, LIGHT
CHEVROLET	TRAVERSE	2009-2012	IGNITION SWITCH	RADIO GND	REV, LIGHT
GMC	ACADIA	2007-2012	IGNITION SWITCH	RADIO GND	REV, LIGHT
GMC	SIERRA	2007-2011	IGNITION SWITCH	RADIO GND	REV, LIGHT
GMC	YUKON	2007-2011	IGNITION SWITCH	RADIO GND	REV, LIGHT
HUMMER	H2	2008-2009	IGNITION SWITCH	RADIO GND	REV, LIGHT

Table.1

## REAR SEAT ENTERTAINMENT VIDEO SIGNAL LOCATION

General Motors SUV with RSE (Rear Seat Entertainment) system doesn't have a video signal going outside of the RSE system. In order to connect video output of the factory RSE, you must remove the factory RSE system from the ceiling. Inside you will find the cable connecting DVD player and drop down monitor, in that harness locate video signal usually yellow wire and connect RCA wire to the cable and connect that rca to AXXESS.I interface.

Table.2



**PRECAUTIONS:** Please read before you start the installation.

- Please study these instructions carefully before installing AXXESS.i plug and play wiring harness.
- Many new vehicles use low-voltage or data-bus systems that can be damaged by test lights and logic probes. Test all circuits with a digital multi-meter before making connections.
- Do not disconnect the battery if the vehicle has an anti-theft-coded radio, unless you have the radio code.
- If installing an external push button switch, check with the customer about where to install the switch.
- To avoid accidental battery drainage turn off the interior lights or remove the dome light fuse.
- Roll down a window to avoid being locked out of the car.
- Use of this product in a manner different to its intended way of operation may result in property damage, personal injury, or death.
- Set Parking brake.
- Remove the negative battery cable.
- Protect fenders before starting.
- Using protective blankets to cover front seats, interior of the vehicle and center console.
- Always install a fuse 6-12 inches away from AXXESS.i interface, 5 amp fuse should be used.
- Always secure AXXESS.i interface with Velcro or double side tape to prevent rattling of the interface.
- When securing AXXESS.i interface make sure that panels can be closed back easily.
- Use electrical tape on all you connections and splices, do not leave any exposed connections.
- Route all wires along factory harnesses, try not to drill or make any unnecessary holes.
- Make sure you are not connecting to any data wires; always check your connections with a multi-meter.
- Always use help of a professional installer to prevent any damage to the vehicle or AXXESS.i interface.



## WIRING CONNECTIONS

- Before making your connections, plan entire wire routing inside the vehicle prior to starting the installation.
- There are few acceptable ways of making a wire connections:

Solder connections, strip and tape connections and crimp connectors. When soldering connection be careful not drop solder on interior dash panels. When doing strip and tape wiring method, best way is to strip insulation off a wire, make a hole in a wire and route a wire thru a hole and then use tape to insulate. When using crimp connectors make sure not to crimp to insulation as this may cause wire to break.

- Low quality electrical tape is not a reliable insulator. It often falls off in hot weather, always use high quality electrical tape.
- Never twist and tape wires together without soldering.
- Never use fuse taps as they can damage fuse box terminals.
- If you use wire-tap connectors such as T-Taps, avoid using them. These connectors are inferior in quality and should be avoided.
- For help locating accessory , ground and reverse wires please see table.1 on page 3
- If vehicle is equipped with factory RSE (rear seat entertainment) system and customer would like to display factory installed RSE system on the front navigation screen, it is possible to get it done. Simply tap in to the factory video signal with the RCA wire and connect that RCA wire to video 1 input of an AXXESS.i AXi-RGB1/AXi-RGB2/AXi-RGB3 video interface.  
For help locating RSE system video signal see table.2 on page 3.

**INSTALLATION LOCATION:** Connection of AXi-GM1-R replacement flex cable installation is done at the navigation radio headunit. See page 6-10 for details.



## Flex Cable Installation

### **FLEX CABLE HARNESS INSTALLATION:**

**All connections of AXi-GM1-R flex cable installation harness in General Motors vehicles are done at the navigation radio headunit.**

**Step 1:** Access the flex cable connectors, see page 7 step 1.

**Step 2:** Disconnect the factory flex cable, see page 8-9 step 3-6.

**Step 3:** Connect main flex cable of AXi-GM1-R, see page 9 step 6.

**Step 4:** Insert small flex cable of AXi-GM1-R flex cable, see page 9 step 7

**Step 5:** Complete steps 8-11

**Step 6:** Connect AXi-GM1-R flex cable harness to the universal AXi-UNIHAR-R harness supplied with AXi-RGB1/AXi-RGB2/AXi-RGB3.

**Step 7:** Connect black ground wire of AXi-UNIHAR-R harness directly to chassis ground of the navigation system ground wire. (see table 1 on page 3)

**Step 8:** Connect red wire of AXi-UNIHAR-R harness to a +12v accessory power source in the vehicle. (see table 1 on page 3)

**Step 9:** Connect gray wire of AXi-UNIHAR-R harness to emergency brake in the vehicle. (connection is not required if only installing the back-up camera)

**Step 10:** Connect orange wire of AXi-UNIHAR-R harness to a reverse light in the vehicle. (see table 1 on page 3) If an aftermarket back-up camera is not going to be installed or vehicle is already equipped with a factory back-up camera, DO NOT connect Orange wire.

**Step 11:** Connect yellow wire of AXi-UNIHAR-R harness the push button switch, and connect other side of the push button switch to a +12V accessory power source. (connection is not required if only installing back-up camera)

Momentary normally open push button should be used for this purpose.

**Step 12:** Connect AXi-UNIHAR-R harness to AXi-RGB1/AXi-RGB2/AXi-RGB3 AXXESS.i video interface.

If installing an aftermarket back up camera connect it to video input 2, If an external video source is being installed connect it video 1 input.

If installing AXi-RGB2/AXi-RGB3 and blue wire is not used, insulate the end of blue wire with electrical tape.

If installing AXi-RGB3 with HDMI video source you have an option of audio output via 3.5 mm audio jack located next to the main interface plug.



## AXi-GM1-R Installation

**STEP 1:** After you disassemble the dashboard and before you pull the radio out, open the radio face. With the navigation unit ON, press the "Change Map Coverage" option under the "Nav" menu and eject the navigation disc, this will open the radio face and eject the navigation disk, put the disk aside, be careful not to scratch the disk, and disconnect the connectors back of the radio so that radio screen stays open.



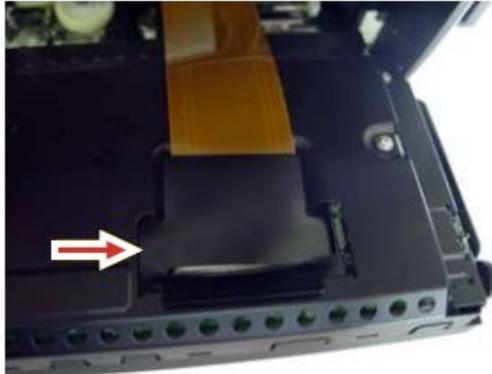
Pic 1

**STEP 2:** Remove the headunit and place it on the flat surface, workbench would be the most suitable. Remove the small Philips screw on each side of the display. Remove the display from the navigation unit but don't pull on it as you still need to disconnect the flex ribbon cable in next step.



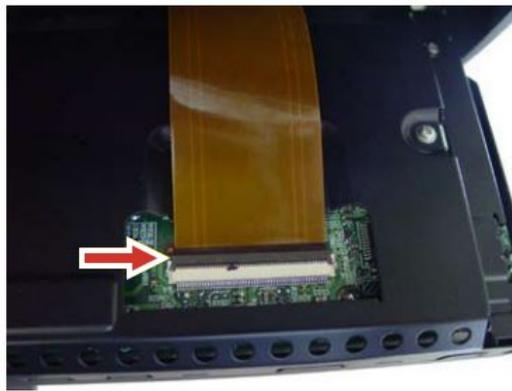
Pic 2

**STEP 3:** Remove the plastic cover of the factory flex ribbon cable.



Pic 3

**STEP 4:** Carefully lift up the brown release tab and release the factory flex ribbon cable.



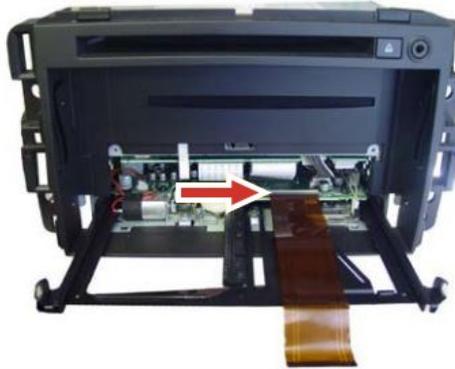
Pic 4

**STEP 5:** Remove two screws from the center cover and remove the center cover panel.



Pic 5

**STEP 6:** Carefully lift up on the brown release tab, release and remove the factory flex ribbon cable. Install provided flex ribbon cable in place of removed factory flex cable.



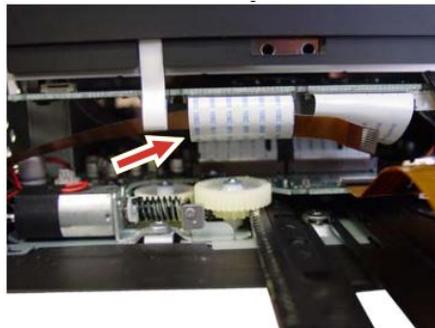
Pic 6

**STEP 7:** Route small flex ribbon cable through the side of the navigation unit with the contacts facing DOWN.



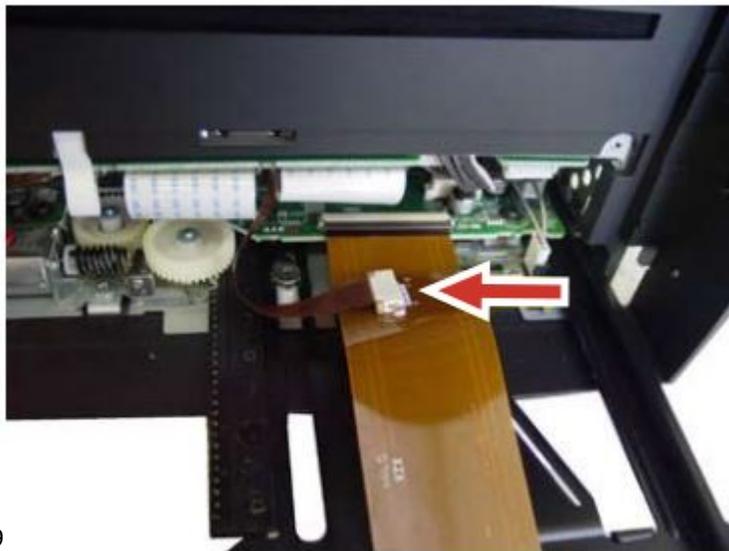
Pic 7

**STEP 8:** Route small flex ribbon cable inside the large white factory flex ribbon cable to avoid the mechanism gears.



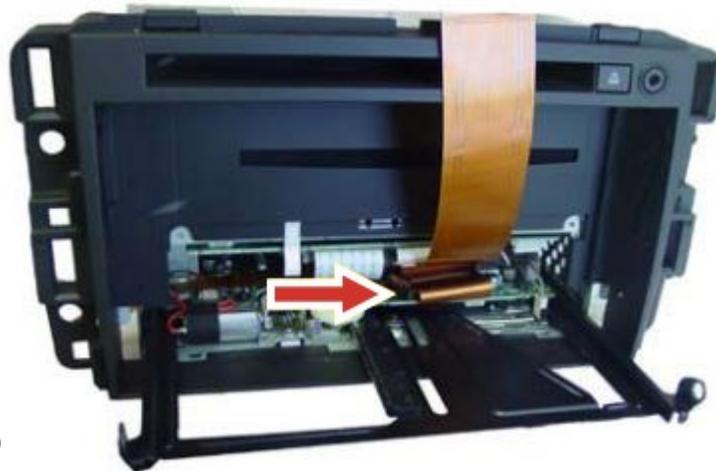
Pic 8

**STEP 9:** Connect small flex ribbon cable to the main flex ribbon cable with the contacts facing UP. A half twist on the small flex ribbon cable is necessary for this step.



Pic 9

**STEP 10:** Carefully fold and insert the flex ribbon cable inside the navigation unit cavity.



Pic 10

**STEP 11:** Assemble the navigation headunit in reverse order of steps, starting from step 6 down to step 1.



## Testing AXXESS.i Operation

**Step 1:** Turn on the ignition switch, check to see if status LED is on.

**Step2:** Test operation of video 1 input/smartphone input (AXi-RGB3), engage the parking brake and press the push button once, video 1 or smartphone(AXi-RGB3) input should turn on. OSD (on screen display) on the screen will display "Video 1" or "smartphone input" (AXi-RGB3) on the top left corner of the vehicles screen, connected video source will display on the screen, if no video source is connected OSD on the screen will display a "no signal" message.

**Step 3:** If an aftermarket back-up camera was installed, test proper operation of the back-up camera by shifting vehicle into reverse gear. Camera will display on video 2, if no camera is connected OSD on the screen will display a message "no camera connected". Static distance camera lines can be turned ON or OFF, to turn the camera lines OFF, please see installation manual of the (AXi-RGB1/AXi-RGB2/AXi-RGB3) interface you are installing for details.

To go back to the factory navigation/information screen, press and hold the push button for 2 seconds or more. If camera is desired to be displayed while vehicle is driving forward, please connect your camera to accessory power and select video 2 via push button.

**Step 4:** If video 2 is used as an input for an external video source, turn the static parking lines OFF, please see installation manual of the (AXi-RGB1/AXi-RGB2/AXi-RGB3) interface you are installing for details.

## After The Installation

- Test all functions of AXXESS.i Interface.
- Check operation of all dashboard components such Heat and AC controls, hazard lights, headunit operation etc.
- Check to see if all reinstalled panels are mounted properly.
- See page 8 for detailed checklist.



## Vehicle Reassembly Checklist

**When performing vehicle reassembly, please make sure to go over the list and checkoff check mark boxes :**

- Check to see if all connectors behind the screen, radio, HVAC etc. were reconnected.
- Check that LCD screen shuts off with key off, and turns back on with key on.
- Check touch-screen operation.
- Check Heat and AC controls operation.
- Check AM/FM/SAT radio reception.
- Check CD player/changer operation.
- Check GPS signal reception.
- Check cigarette lighter or +12V power source for accessory or constant power.
- Check to see if any other panels that were removed during installation and now being reassembled have all and any electrical connectors reconnected.
- Turn on parking light and check all dashboard lights operation.
- Check all panels for proper fit, make sure no gaps in panels are left behind.

**If all steps above are checked off, you will save time, money and have an extremely happy customer.**

**All above steps eliminate any unnecessary customer comebacks to your shop.**

**If you require any further assistance please call our tech support line, email or go online [WWW.AXXESSINTERFACES.COM](http://WWW.AXXESSINTERFACES.COM)**

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