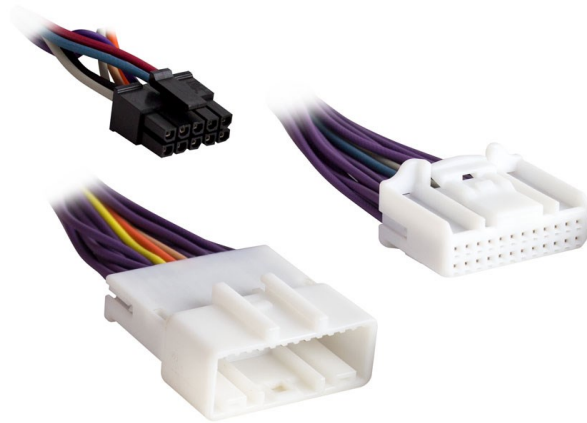




## AXi-NI24-R INSTALLATION MANUAL

**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	OPTIONS
INFINITI	EX	2008-2009	NAVIGATION OR COLOR SCREEN
INFINITI	EX	2010-2013	COLOR SCREEN NO NAVIGATION
INFINITI	FX	2003-2005	NAVIGATION OR COLOR SCREEN
INFINITI	FX	2006-2008	NAVIGATION OR COLOR SCREEN
INFINITI	FX	2009	NAVIGATION OR COLOR SCREEN
INFINITI	FX	2010-2013	COLOR SCREEN NO NAVIGATION
INFINITI	G	2007-2009	NAVIGATION OR COLOR SCREEN
INFINITI	G	2010-2013	COLOR SCREEN NO NAVIGATION
INFINITI	JX	2013	COLOR SCREEN NO NAVIGATION
INFINITI	M	2008-2010	NAVIGATION OR COLOR SCREEN
INFINITI	M	2011-2013	COLOR SCREEN NO NAVIGATION
INFINITI	QX	2004-2010	NAVIGATION OR COLOR SCREEN
INFINITI	Q40	2015-2016	COLOR SCREEN NO NAVIGATION
INFINITI	Q50	2015-2016	COLOR SCREEN NO NAVIGATION
INFINITI	Q60	2014-2016	COLOR SCREEN NO NAVIGATION
INFINITI	Q70	2014-2016	COLOR SCREEN NO NAVIGATION
INFINITI	QX50	2014-2016	COLOR SCREEN NO NAVIGATION
INFINITI	QX60	2014-2016	COLOR SCREEN NO NAVIGATION
INFINITI	QX70	2014-2016	COLOR SCREEN NO NAVIGATION
NISSAN	370Z	2009	NAVIGATION OR COLOR SCREEN
NISSAN	ALTIMA	2005-2006	NAVIGATION OR COLOR SCREEN
NISSAN	ARMADA	2004-2007	NAVIGATION OR COLOR SCREEN
NISSAN	ARMADA	2008-2012	NAVIGATION OR COLOR SCREEN
NISSAN	ARMADA	2013-2016	COLOR SCREEN NO NAVIGATION
NISSAN	GT-R	2009-2010	NAVIGATION OR COLOR SCREEN
NISSAN	MAXIMA	2004-2008	NAVIGATION OR COLOR SCREEN
NISSAN	MAXIMA	2009	NAVIGATION OR COLOR SCREEN
NISSAN	MAXIMA	2010-2015	COLOR SCREEN NO NAVIGATION
NISSAN	MURANO	2003-2007	NAVIGATION OR COLOR SCREEN
NISSAN	MURANO	2008-2010	NAVIGATION OR COLOR SCREEN
NISSAN	MURANO	2011-2014	COLOR SCREEN NO NAVIGATION
NISSAN	PATHFINDER	2005-2007	NAVIGATION OR COLOR SCREEN
NISSAN	PATHFINDER	2008-2012	NAVIGATION OR COLOR SCREEN
NISSAN	PATHFINDER	2013-2016	COLOR SCREEN NO NAVIGATION
NISSAN	QUEST	2004-2006	NAVIGATION OR COLOR SCREEN
NISSAN	QUEST	2007-2009	NAVIGATION OR COLOR SCREEN
NISSAN	QUEST	2011-2016	COLOR SCREEN NO NAVIGATION
NISSAN	TITAN	2004-2012	NAVIGATION OR COLOR SCREEN



**ACCESSORY GROUND REV**

MAKE	MODEL	YEAR
INFINITI	EX	2008-2009
INFINITI	EX	2010-2013
INFINITI	FX	2003-2005
INFINITI	FX	2006-2008
INFINITI	FX	2009
INFINITI	FX	2010-2013
INFINITI	G	2007-2009
INFINITI	G	2010-2013
INFINITI	JX	2013
INFINITI	M	2008-2010
INFINITI	M	2011-2013
INFINITI	QX	2004-2010
INFINITI	Q40	2015-2016
INFINITI	Q50	2015-2016
INFINITI	Q60	2014-2016
INFINITI	Q70	2014-2016
INFINITI	QX50	2014-2016
INFINITI	QX60	2014-2016
INFINITI	QX70	2014-2016
NISSAN	370Z	2009
NISSAN	ALTIMA	2005-2006
NISSAN	ARMADA	2004-2007
NISSAN	ARMADA	2008-2012
NISSAN	ARMADA	2013-2016
NISSAN	GT-R	2009-2010
NISSAN	MAXIMA	2004-2008
NISSAN	MAXIMA	2009
NISSAN	MAXIMA	2010-2015
NISSAN	MURANO	2003-2007
NISSAN	MURANO	2008-2010
NISSAN	MURANO	2011-2014
NISSAN	PATHFINDER	2005-2007
NISSAN	PATHFINDER	2008-2012
NISSAN	PATHFINDER	2013-2016
NISSAN	QUEST	2004-2006
NISSAN	QUEST	2007-2009
NISSAN	QUEST	2011-2016
NISSAN	TITAN	2004-2012

Accessory and Ground wires are found in the 24



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**AXXESS.i™**  
**IMPORTANT NOTE.**

AXi-NI24-R must be connected directly in the back of the front color or navigation screen.

Vehicles with monochrome screen that display only orange color is not compatible.

Vehicles with color or navigation screen sometimes may have a module attached to the back of the screen, that module has the same connector as one found directly in the back of the color or navigation screen. DO NOT connect AXi-NI24-R to that module.

Color or navigation screen must have only one connector in the back. Any module attached to the back of the screen will have two or more connectors. DO NOT connect to that module, must connect directly behind the color or navigation screen.

If there are two connectors behind the screen, one 24 pin and one is 4 pin, AXi-NI24-R is not compatible. You will need a digital interface kit from AXXESS.i

Many Infiniti and Nissan vehicles come equipped with a factory color screen but no factory installed navigation system, install AXXESS.i AXi-RGB3 video interface with built in HDMI to allow smartphone image mirroring in HD quality\*, this will allow driver to use their smartphone as navigation system and display image on a convenient larger factory color screen instead of a small smartphone screen that doesn't stay in drivers view.

Use above setup even on vehicles with outdated navigation system, most factory installed navigation systems lack many modern features like live traffic reports, road blocks, 3D map views and other convenient feature that modern smartphone navigation applications provide to aid drivers in their daily commute.

\*QUALITY OF THE DISPLAYED IMAGE DEPENDS ON RESOLUTION OF THE FACTORY INSTALLED SCREEN.

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# AXXESS.I™

## RSE CONNECTIONS

Rear Seat Entertainment Wires-below you can find drawings of connectors at the DVD video players and video signals locations.

RSE wiring provided only for reference, its is installers responsibility to verify correct wires and signal before connecting.

Play DVD movie and see an image appear on the factory RSE screen, cut the suspect wire, if screen backlight stays on but image disappears you have identified correct video signal wires.

Infiniti FX 2003-2008

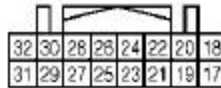
Infiniti QX56 2004-2007

NISSAN ARMADA 2005-2007

Nissan Murano 2003-2008

Nissan Quest 2004-2009

Pin 23. video +



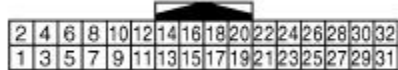
Pin 24. video -

Infiniti FX 2009-2013

Nissan Murano 2008-2014

Nissan Quest 2001-2016

Pin 7. video +

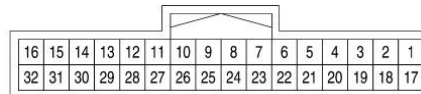


Pin 5. video -

Infiniti QX56 2008-2013

Nissan Armada 2008-2016

Pin 12. video +



Pin 13. video -

*ABOVE INFORMATION IS FOR REFERENCE ONLY, VERIFY EACH AND EVERY CONNECTION.*



**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 4-5
- 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 page 7.

### **INSTALLATION LOCATION:**

AXi-NI24-R must be connected directly in the back of the front color or navigation screen. See page 10 for details

Vehicles with color or navigation screen sometimes may have a module attached to the back of the screen, that modules has the same connector as one found directly in the back of the color or navigation screen. DO NOT connect AXi-NI24-R to that module.



## Plug & Play Harness Installation

### **PLUG & PLAY AXi-NI24-R HARNESS INSTALLATION:**

**All connections of AXi-NI24-R plug and play installation harness in NISSAN/INFINITI vehicles are done directly at the factory screen .**

**Step 1:** Access connectors in the back of the factory color or navigation screen.

**Step 2:** Disconnect white 24-pin connector from back of the navigation or color screen.

**Step 3:** Insert male connector of AXi-NI24-R plug-and-play harness back into the navigation or color screen.

**Step 4:** Insert previously disconnected factory 24-pin connector into female connector of AXi-NI24-R plug-and-play harness.

**Step 5:** Connect AXi-NI24-R plug-and-play harness to the universal AXi-UNIHAR-R harness supplied with AXi-RGB1/AXi-RGB2/AXi-RGB3.

**Step 6:** Connect black ground wire of AXi-UNIHAR-R harness directly to chassis ground of the DVD-ROM ground wire. (see table 1 on pages 4-5)

**Step 7:** Connect red wire of AXi-UNIHAR-R harness to a +12v accessory power source in the vehicle. (see table 1 on pages 4-5)

**Step 8:** 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 9:** Connect orange wire of AXi-UNIHAR-R harness to a reverse light in the vehicle. (see table 1 on pages 4-5) 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 10:** Connect yellow wire of AXi-UNIHAR-R harness to 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 11:** 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.



## 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 12 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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