



### GM LAN-29 Data Interface 2006-up\*

\*Visit [AxxessInterfaces.com](http://AxxessInterfaces.com) for up-to-date vehicle specific applications.

#### INTERFACE FEATURES

- Provides accessory power (12-volt 10-amp)
- Maintains the retained accessory power (R.A.P.) feature
- Can be used in non-amplified, or analog/digital amplified models
- Retains warning chimes
- Provides NAV outputs (parking brake, reverse, mute, speed sense)
- Pre-wired ASWC-1 harness (ASWC-1 sold separately)
- Retains OnStar/OE Bluetooth
- Adjustable volume for chimes and OnStar
- Retains balance and fade†
- Retains the factory backup camera, satellite radio, and AUX-IN
- Satellite radio information will be displayed through the driver information center (D.I.C.)
- Micro “B” USB updatable

† Excluding digital amplified models

#### APPLICATIONS

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#### INTERFACE COMPONENTS

- GMOS-LAN-012 interface • GMOS-LAN-012 harness
- 16-pin harness with stripped leads
- 4-pin to 4-pin resistor pad harness
- Back-up camera harness • Antenna adapter

#### TOOLS REQUIRED

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

**CAUTION!** All accessories, switches, climate controls panels, and especially air bag indicator lights must be connected before cycling the ignition. Also, do not remove the factory radio with the key in the on position, or while the vehicle is running.

## APPLICATIONS

### BUICK

Enclave	2008-2017
Lucerne	2006-2011
Cadillac	
DTS‡	2006-2011
Escalade‡	2007-2011
Escalade ESV‡	2007-2011
Escalade EXT‡	2007-2011
SRX‡	2007-2009

### CHEVROLET

Avalanche* †	2007-2013
Captiva Sport	2012-2014
Equinox	2007-2009
Express**	2008-up
Impala Limited	2014
Impala	2006-2013
Monte Carlo	2006-2007
Silverado 2500/3500* †	2014
Silverado (new body)* †	2007-2013
Suburban* †	2007-2014
Tahoe* †	2007-2014
Traverse	2009-2017

### GMC

Acadia	2007-2016
Acadia Limited	2017
Savana**	2008-up
Sierra 2500/3500* †	2014
Sierra (new body)* †	2007-2013
Yukon* †	2007-2014

### HUMMER

HZ‡	2008-2009
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### PONTIAC

Torrent	2007-2009
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### SATURN

Outlook	2007-2010
Vue	2008-2010

### SUZUKI

XL-7	2007-2009
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\* If the vehicle comes equipped with factory navigation in the 2012-2014 models, you must use either the GMOS-LAN-08 for non-amplified models, or GMOS-LAN-07 for amplified models.

\*\* If the vehicle comes equipped with factory navigation in the 2013-2015 models, you must use either the GMOS-LAN-08 for non-amplified models, or GMOS-LAN-07 for amplified models.

† These vehicles have a digital amp option. Please refer to the Service Parts Identification sticker located in the glove box. If the codes STZ, UQS, or Y91 are present, then you have a digital amplifier.

‡ These vehicle come standard with a digital amplifier.

## CONNECTIONS TO BE MADE

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

- Connect the **Red** wire to the accessory wire.  
**Note:** If installing either an ASWC-1 or AX-LCD (both sold separately), connect the (2) **Red** wires from the GMOS-LAN-012 harness as well.
- Connect the **Orange/White** wire to the illumination wire. (If the aftermarket radio has no illumination wire, tape off the **Orange/White** 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 **Brown** wire to the mute wire of the aftermarket radio. If the radio has no mute wire, tape it off and disregard it.
- 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 **Gray** wire to the right front positive speaker output.
- Connect the **Gray/Black** wire to the right front negative speaker output.

### Connect the following 4 wires ONLY if your vehicle comes equipped with a digital amplifier:

- 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 (3) wires are for an aftermarket multimedia/navigation radio that provide these wires (if not required, tape them off and disregard them):*

- Connect the **Light Green** wire to the parking brake wire, if applicable.
- Connect the **Blue/Pink** wire to the speed sense wire (V.S.S.), if applicable.
- Connect the **Green/Purple** wire to the reverse wire, if applicable.

*Continue on the next page*

## CONNECTIONS TO BE MADE *(CONT.)*

### From the GMOS-LAN-012 harness:

- Connect the **Black** wire to the ground wire.
- Connect the **Yellow** wire to the battery wire.
- If installing either an ASWC-1 or AX-LCD (both sold separately), connect the (2) **Red** wires to accessory power.
- The **Black/Yellow** wire is used for OnStar level adjustment for models that do not come equipped with steering wheel controls. See OnStar Level Adjustment for further instructions.
- Connect the RCA jacks to the audio AUX-IN (if so equipped).

**Note:** This will only be required if you care to retain the factory AUX-IN, or satellite radio.

### The following wiring is **ONLY** required if your vehicle **DOES NOT** come equipped with a digital amplifier:

#### For analog amplified models **ONLY**:

- 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.
- Disconnect the 4-pin harness located between the 14-pin and 22-pin harness, and then connect the supplied 4-pin to 4-pin resistor pad harness.

#### For non-amplified models **ONLY**:

- Cut the resistors off from the **Green**, **Green/Black**, **Purple**, and **Purple/Black** wires below the heat shrink.
- 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.

**Note:** The 4-pin to 4-pin resistor pad harness will not be used in this application.

**Note:** The relay attached to the GMOS-LAN-012 harness is only for audible turn signal clicks. No extra steps are required to retain this feature, so leave the relay as-is.

#### 12-pin pre-wired ASWC-1 harness:

- This harness is to be used along with the optional ASWC-1 (not included) to retain steering wheel controls. If the ASWC-1 is not being used, disregard this harness. If it will be used, please refer to the ASWC-1 instructions for radio connections and programming. Disregard the harness that comes with the ASWC-1.

#### DIN jack:

- The DIN jack is to be used with the optional AX-LCD (sold separately) to retain satellite radio information for models that do not retain this information in the driver's information center. The AX-LCD can also be used to view which factory sources are active; rear seat entertainment, satellite radio, AUX-IN.

#### From the back-up camera harness to the aftermarket radio:

- If the vehicle comes equipped with a factory back-up camera, connect the **Yellow** RCA jack to the aftermarket radios back-up camera video input.
- Activate the back-up camera video input on your radio if required.

## INSTALLING THE GMOS-LAN-012

### With the key in the off position:

- Connect the 16-pin harness with stripped leads, and the GMOS-LAN-012 harness, into the interface.
- If an ASWC-1 (sold separately) will be used, do not connect it until the GMOS-LAN-012 is programmed and fully functional.

**Attention!** Do not connect the GMOS-LAN-012 harness to the wiring harness in the vehicle just yet.

## PROGRAMMING THE GMOS-LAN-012

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.

1. Start the vehicle.
2. Connect the GMOS-LAN-012 harness to the wiring harness in the vehicle. The L.E.D. will initially be **Green** to indicate the interface is powered.
3. After a few seconds the L.E.D. will turn on solid **Red** while the interface automatically programs to the vehicle. The radio will shut off at this point. This process should take 5 to 30 seconds.
4. After the interface is programmed, the L.E.D. will turn on solid **Green**, and the radio will come back on, indicating programming was successful.
5. Test all functions of the installation for proper operation, before reassembling the dash.
6. If the interface fails to function, refer to “Troubleshooting”.

## ADJUSTING THE GMOS-LAN-012

### Audio level adjustment (digital amplified models only):

- With the vehicle and radio turned on, turn the volume up 3/4 of the way.
- With a small flat-blade screwdriver, adjust the potentiometer clockwise to raise the audio level; counterclockwise to lower the audio level.
- Once at a desired level, audio level adjustment is complete.

### Chime level adjustment:

- With the vehicle on, turn it off and leave the keys in ignition. Open the driver’s door; chimes will be heard.
- Wait 10 seconds, and then with a small screwdriver, turn the potentiometer clockwise to raise the chime level; counterclockwise to lower the chime level.
- When the chime is at a desired level, remove the keys from the ignition. This will lock the chime volume at its current level.

### OnStar level adjustment:

- Press the OnStar button to activate it.
- While OnStar is speaking, press the VOLUME UP or VOLUME DOWN buttons on the steering wheel to raise or lower the OnStar level.
- If the vehicle does not come equipped with steering wheel controls, find the **Black/Yellow** wire on the GMOS-LAN-012 harness.
- While OnStar is speaking, tap the **Black/Yellow** wire to ground. Once the OnStar level is set, it will stay at that level until the **Black/Yellow** wire is tapped to ground again.

## EXTRA FEATURES

### AUX-IN, RSE and SAT:

- If the vehicle comes equipped with AUX-IN, rear seat entertainment, or satellite radio, the GMOS-LAN-012 can retain these features.

#### Notes when retaining the AUX-IN:

- The AUX-IN can only be used if it is a stand-alone AUX-IN.
- If the vehicle comes equipped with an AUX-IN and a USB port, neither can be retained.
- Change the source of the radio to AUX-IN; the satellite radio will start playing.
- The display in the driver's information center, or the optional AX-LCD (sold separately) will display the satellite radio information.
- Listed below are the functions of the AX-LCD while using satellite radio:
  - ▲ Arrow up—Channel up
  - ▼ Arrow down—Channel down
  - Ⓞ Enter—Selects current item on the screen
  - ✓ Return/ESC—Exits to the previous screen
- To access advanced features of the satellite radio, press and hold the SOURCE button on the steering wheel for 3 seconds.

**Note:** If the vehicle is not equipped with steering wheel controls, the AX-LCD will be required for this feature.

- Listed below are the functions of the steering wheel control buttons while accessing the advanced features:
  - SEEK UP – Scrolls menu up.
  - SEEK DOWN – Scrolls menu down.
  - VOLUME UP- Enter
- Listed below are the advanced menu options:
  - Show Text - Exits menu.
  - Set Tuning Mode - Allows the user to select tuning by either a preset, or a channel.
  - Set Preset – Allows the user to program presets.
  - Set Display - Allows user to choose what satellite radio information is displayed.
    - Note:** If using the AX-LCD, SEEK UP controls the top line on the display; SEEK DOWN controls the bottom line.
  - Set Satellite Radio Text Mode - Allows user to set the display length of the satellite radio information. Options are On, Off, or 5 seconds (default is 5 seconds).
- To exit, press and hold the SOURCE button on the steering wheel for 3 seconds.
- To access AUX-IN or rear seat entertainment, press and hold the SOURCE button on the steering wheel for 2 seconds. This will switch to the next source available. Each time the SOURCE button is pressed for 2 seconds, the source will change. The sequence of sources are SAT/RSE/AUX-IN. The driver's information center, or the AX-LCD, will provide a visual confirmation of which source is active.

### Resetting the Axxess interface

1. The **Blue** reset button is located inside the Axxess interface, between the two connectors.  
The button is accessible outside the Axxess interface, no need to open the Axxess interface.
2. Press and hold the reset button for (2) seconds, then let go to reset the Axxess interface.
3. Refer to “Programming the GMOS-LAN-012” from this point.



# GMOS-LAN-012

INSTALLATION INSTRUCTIONS



## IMPORTANT

*If you are having difficulties with the installation of this product, please call our Tech Support line at 1-800-253-TECH. Before doing so, look over the instructions a second time, and make sure the installation was performed exactly as the instructions are stated. Please have the vehicle apart and ready to perform troubleshooting steps before calling.*



## KNOWLEDGE IS POWER

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