# GMOS-LAN-08

# GM LAN non-amplified OnStar Interface 2012-up

*(Vehicles equipped with OE Navigation)*

## APPLICATIONS

*See inside front cover*

## KIT FEATURES

- Provides accessory (12-volt 10-amp)
- Retains R.A.P. (Retained Accessory Power)
- Used in non-amplified systems
- Retains chimes
- Provides NAV outputs (Parking Brake, Reverse, Mute, V.S.S.)
- Prewired ASWC harness included (ASWC sold separately)
- Retains OnStar/OE Bluetooth
- Adjustable volume for chimes and OnStar
- High level speaker input
- USB updatable
- Retains balance and fade

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## INTERFACE COMPONENTS

• GMOS-LAN-08 interface • 16-pin harness with stripped leads • 18-pin harness to 44-pin GM harness with stripped leads

## TOOLS REQUIRED

• Cutting tool • Crimping tool • Tape • Connectors (example: butt-connectors, bell caps, etc.)

*CAUTION: Metra recommends disconnecting the negative battery terminal before beginning any installation. All accessories, switches, and especially air bag indicator lights must be plugged in before reconnecting the battery or cycling the ignition.*

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

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## Applications

*(Note: This interface will also work in vehicles listed below that are not equipped with OnStar)*

**CADILLAC**

| | |
|---|---|
| Escalade | 2012-up |

**CHEVROLET**

| | |
|---|---|
| Avalanche | 2012-up |
| Cheyenne | 2012-up |
| Silverado | 2012-up |
| Suburban | 2012-up |
| Tahoe | 2012-up |

**GMC**

| | |
|---|---|
| Sierra | 2012-up |
| Yukon | 2012-up |

## Connections to be made

**From the 16-pin harness:**

• Connect the **Red** wires to the ignition wire of the aftermarket radio.

• Connect the **Orange/White** wire to the illumination wire of the aftermarket radio. If the aftermarket radio has no illumination wire, tape off the **Orange/White** wire.

• Connect the **White** wire to the left front positive speaker output of the aftermarket radio.

• Connect the **White/Black** wire to the left front negative speaker output of the aftermarket radio.

• Connect the **Gray** wire to the right front positive speaker output of the aftermarket radio.

• Connect the **Gray/Black** wire to the right front negative speaker output of the aftermarket radio.

• Connect the **Blue/White** wire to the radio's amp turn on wire.

• Connect the **Brown** wire to the mute wire of the aftermarket radio. If the aftermarket radio does not have a Mute wire, tape up the **Brown** wire.

• Connect the **Light Green** wire to the parking brake wire of the aftermarket navigation radio.

• Connect the **Blue/Pink** wire to the VSS or speed sense wire of the aftermarket navigation radio.

## Connections to be made

- Connect the **Green/Purple** wire to the reverse wire of the aftermarket navigation radio.

- Plug the 16-pin harness into the GMOS-LAN-08.

**From the 30-pin harness:**

- Connect the **Yellow** wire to the radio's 12-volt battery or memory wire.

- Connect the **Black** wire to the radio's ground wire.

- Plug the 14-pin harness into the GMOS-LAN-08.

- Connect the **Green** wire to the radio's left rear positive speaker output.

- Connect the **Green/Black** wire to the radio's left rear negative speaker output.

- Connect the **Purple** wire to the radio's right rear positive speaker output.

- Connect the **Purple/Black** wire to the radio's right rear negative speaker output.

- The **Black/Yellow** wire is for the OnStar volume adjustment. This will be discussed in the OnStar Level Adjustment section of this instruction.

The 12-pin harness (ASWC-1 plug) will be discussed later in the manual.

## Installing the GMOS-LAN-08

- With all connections completed to the aftermarket radio, plug the 44-pin harnesses into the vehicles wiring harnesses.

- Reconnect the negative battery terminal.

- Cycle the key, by turning the ignition on for 30 seconds. Then off and on again to test the radio.

## Testing the GMOS-LAN-08

1) Turn the ignition on if not already, and then turn the radio on to verify that the radio works. Check balance and fader controls for proper operation.

2) Push the Onstar button (if equipped) to verify Onstar is working. The radio will shut off or mute, depending if the Brown wire on the 16-pin harness is connected, and Onstar will be heard through the front speakers. Turn off Onstar and the radio will turn back on.
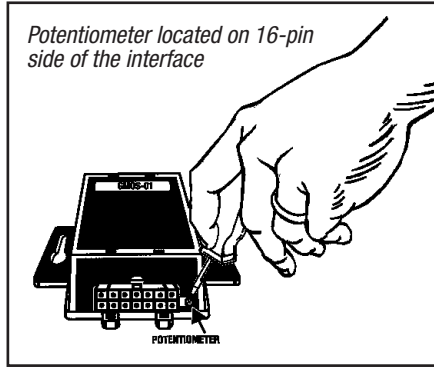
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# Testing the GMOS-LAN-08

**Chime Volume Adjustment**

*Note: If Y91 is present on the RPO list, refer to your owner's manual to adjust chimes.*

1)  With the key out of the ignition and door open turn on your headlights. The chimes should start chiming.

2)  Wait 10 seconds, then with a small screwdriver adjust the potentiometer clockwise to raise chime level and counterclockwise to lower the chime level.

3)  When the volume is at the desired level turn off your headlights. This will lock the chime volume at its current level.



*Potentiometer located on 16-pin side of the interface*

**OnStar Level Adjustment**

To adjust the OnStar volume level find the **Black/Yellow** wire on the 16-pin harness. Push the **Blue** OnStar button, while the voice is speaking tap the **Black/Yellow** wire to ground.

There are 4 volume settings for OnStar; once the 4th setting is reached and the **Black/Yellow** wire is tapped to ground it will automatically go back to the first volume setting. Once the volume is set it will stay at that volume until the **Black/Yellow** wire is tapped to ground again. This can be set during installation and then left alone. If user adjustment is desired, the customer may also tap volume "up" or "down" on the steering wheel (if equipped) to adjust the OnStar level.

**Additional 12-pin harness (ASWC-1 harness)**

This 12-pin harness is to be used in conjunction with the ASWC-1 (not included). Please refer to ASWC-1 instructions for programming.

# Notes

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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 Help line or Metra at 1-800-221-0932 for assistance.**

### 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.com or call 800-354-6782 for more information and take steps toward a better tomorrow.

**Metra recommends MECP certified technicians**