



## GM ONSTAR LAN DATA BUS INTERFACE

### **GMOS-LAN-02** **INSTALLATION INSTRUCTIONS** *For amplified sound systems only*

The GMOS-LAN-02 is designed to retain the amplified sound systems, retain Onstar, and retain the warning chimes that are normally lost when the OEM radio is removed. It also provides a 12 volt accessory output for proper aftermarket radio operation. THE GMOS-LAN-02 also PROVIDES a MUTE, PARKING BRAKE, VSS OR SPEED SENSE, AND A REVERSE OUTPUT TO MAKE INSTALLING AN AFTERMARKET NAVIGATIONAL RADIO SIMPLER AND LESS TIME CONSUMING.

**\* READ IMPORTANT WARNING ON PAGE 1  
BEFORE ATTEMPTING ANY INSTALLATION**

#### APPLICATIONS

##### Buick

- Enclave 2007-2008
- Lucerne 2006-07

##### Cadillac

- DTS 2006-2008

##### Chevrolet

- Avalanche 2007
- Equinox 2007
- Express 2008
- Impala 2006-2007
- Monte Carlo 2006-2007
- Silverado (new body) 2007
- Suburban 2007
- Tahoe 2007

##### GMC

- Acadia 2007-2008
- Savanna 2008
- Sierra (New body) 2007
- Yukon 2007

##### Hummer

- H2 2008

##### Pontiac

- Torrent 2007

##### Saturn

- Outlook 2007
- Vue 2008

##### Suzuki

- XL-7 2007

#### INTERFACE COMPONENTS

- GMOS-LAN-02 Interface
- 10 pin harness with rca's
- 16 pin to 30 pin GM harness



1-800-221-0932



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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 THE METRA AT 1-800-221-0932 FOR ASSISTANCE.**

## TOOLS REQUIRED FOR INSTALLATION

- Cutting Tool • Tape • Crimping Tool • Connectors (I.E. butt-connectors, bell caps, ECT...)

## WIRING CONNECTIONS

*\*Important: Before beginning any of the following, disconnect the negative battery terminal to prevent an accidental short circuit.*

### 1. From the 14 pin harness:

- Connect the **Red** wire to the ignition/accessory wire of the aftermarket radio.
- Connect the **Blue/White** wire to the amp turn on wire of the aftermarket radio.
- Connect the **White** rca to the left front rca output of the aftermarket radio.
- Connect the **Gray** rca to the right front rca output of the aftermarket radio.
- Connect the **Green** rca to the left rear rca output of the aftermarket radio.
- Connect the **Purple** rca to the right rear rca output of the aftermarket radio.
- 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.

### The following wires on the 14 pin harness are for the aftermarket radios that have navigation built in:

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

### 2. From the 16 pin harness:

- Connect the **Yellow** wire to the 12 volt constant/battery wire of the aftermarket radio.
- Connect the **Black** wire to the ground wire of the aftermarket radio.
- Connect the **Orange** wire to the illumination wire of the aftermarket radio.
- If no illumination wire is present, tape up the **Orange** wire.
- The **Black/Yellow** wire will be discussed later in this manual.

### 3. From the 30 pin harness:

- The **Brown** wire has no function at this time. Please tape up to prevent any short circuit.



## GMOS-LAN-02

### INSTALLING THE GMOS-LAN-02

1. With all the connections completed, plug the 14 and 16 pin harnesses into the GMOS-LAN-02.
2. Reconnect the negative battery terminal.
3. Plug the 30 pin GM harness into the vehicle side harness, and plug the aftermarket radio harness into the aftermarket radio.
4. Cycle the key by turning the ignition on then back off, then back on again to test the radio.

### TESTING THE GMOS-LAN-02

Turn the ignition on, and then turn the aftermarket radio on. Push the Onstar button, the radio should turn off and you should hear Onstar. Push the Onstar cancel button and the radio should come back on.

### CHIME VOLUME ADJUSTMENT

If the chime is too loud, remove the bottom shunt jumper that is next to the 10 pin harness side of the interface (See diagram). This will lower the chime volume.

### AUDIBLE TURN SIGNAL

When the factory radio is removed the audible turn signal indicator is lost. The GMOS-LAN-02 will emulate the audible turn signal heard through the left front speaker. If the turn signal is too loud remove the top shunt jumper that is next to the 10 pin harness side of the interface (See diagram). This will lower the audible turn signal.

### ONSTAR LEVEL ADJUSTMENT

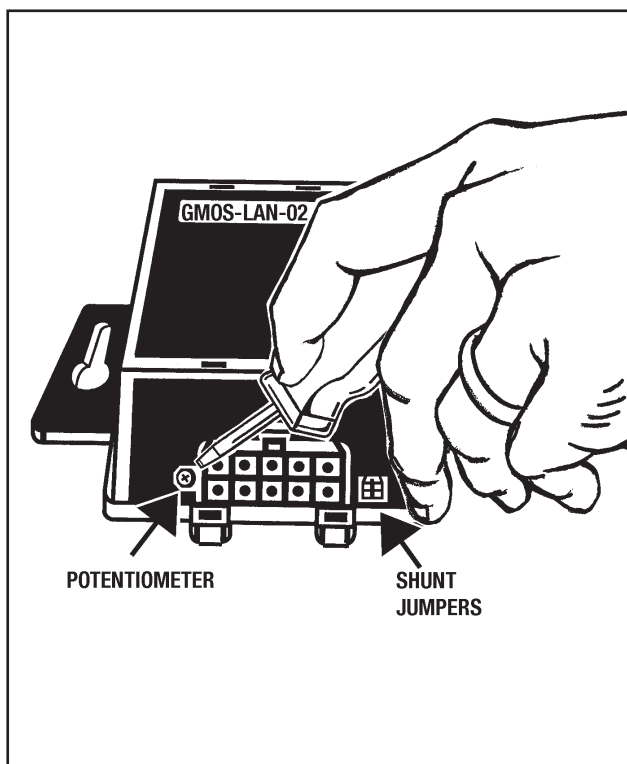
To adjust the Onstar volume level find the **Black/Yellow** wire on the 16 pin harness. Push the blue Onstar button, while the voice is speaking tap the **Black/Yellow** wire to ground. There are 31 volume settings for Onstar; once the 31st setting is reached and the **Black/Yellow** wire is tapped to 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. If the user would like to adjust the Onstar volume without having to get to the GMOS-LAN-02 interface, a 10K potentiometer from Radio Shack (part # 271-1715 or 271-interface, either one will work) can be wired in. Connect one side of the

potentiometer to the **Black/Yellow** wire and connect the other side to ground. Mount the potentiometer in a convenient location that is easy to reach.

## **AUDIO LEVEL ADJUSTMENT**

If the audio level is too distorted or way too low under normal listening levels, to correct this there is a potentiometer on the 10 pin side of the interface. Using a small screwdriver turn the potentiometer counterclockwise to lower the input signal, and turn the potentiometer clockwise to raise the input signal.

***Note: The chime and turn signal volume will adjust with the audio input.***



# GMOS-LAN-02

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INSTGMOS-LAN-02



**1-800-221-0932**



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