



## GM ONSTAR CLASS II DATA BUS INTERFACE

# GMOS-04

### INSTALLATION INSTRUCTIONS

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

THE GMOS-04 IS DESIGNED TO BE USED WITH VEHICLES THAT HAVE A FACTORY AMPLIFIED SYSTEM INCLUDING THE BOSE AUDIO SYSTEMS. BESIDES RETAINING THE ONSTAR SYSTEM, THE GMOS-04 WILL ALSO RETAIN THE WARNING CHIMES THAT WILL BE LOST WHEN THE FACTORY RADIO IS REMOVED. THE GMOS-04 WILL ALSO PROVIDE A 12 VOLT SWITCHED WIRE FOR PROPER RADIO OPERATION. THE GMOS-04 NOW PROVIDES MUTE, PARKING BRAKE, VSS OR SPEED SENSE, AND A REVERSE OUTPUT TO MAKE INSTALLING AN AFTERMARKET NAVIGATIONAL RADIO SIMPLER AND LESS TIME CONSUMING.

• SEE APPLICATIONS LIST INSIDE •

### TOOLS REQUIRED FOR INSTALLATION

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

REV. 03/19/07

INSTGMOS-04



1-800-221-0932



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## GM05-04

### **\* 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.**



## GMOS-04

### APPLICATIONS

#### BUICK

ALLURE 2005-07  
 CENTURY 2004-05  
 RAINIER 2004-07  
 RENDEZVOUS 2002-07  
 TERRAZA 2005-07  
**CADILLAC**  
 ESCALADE 2003-06  
 ESCALADE EXT 2003-06  
**CHEVROLET**  
 AVALANCHE 2003-06  
 CAVALIER 2000-05  
 IMPALA 2000-05  
 MALIBU 2002-03  
 MALIBU CLASSIC 2004  
 MONTE CARLO 2000-05  
 SILVERADO 2003-06  
 SILVERADO CLASSIC 2007  
 SSR 2003-06  
 SUBURBAN 2003-06  
 TAHOE 2003-06  
 TRAILBLAZER 2002-07  
 VENTURE 2000-05

#### GMC

ENVOY 2002-07  
 SAVANA 2003-07  
 SIERRA 2003-06  
 YUKON/XL/DENALI 2003-06

#### HUMMER

H2 2003-07  
 H3 2006-07

#### ISUZU

ASCENDER 2003-07

#### OLDSMOBILE

ALERO 2001-04  
 BRAVADA 2002-05  
 INTRIGUE 2002  
 SILOUETTE 2000-04

#### PONTIAC

AZTEC 2001-05  
 GRAND AM 2001-05  
 GRAND PRIX 2004-06  
 SUNFIRE 2000-05

#### SAAB

9-7x 2005-07

### INTERFACE COMPONENTS

- GMOS-04 Data Interface
- 14 pin harness with RCA'S
- 16 pin harness to 24 pin GM harness and 12 pin Onstar harness

### WIRING UP THE GMOS-04

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

\*\***Note:** The ignition power source of most GM vehicles keep the radio on until one of the doors is opened. This is called the R.A.P. (retained accessory power). The GMOS-04 is designed to retain this feature.

### IMPORTANT

• THE BROWN LOOP ON THE 16 PIN HARNESS MUST BE CUT THEN TAPED UP. PLEASE REFER TO THE ONSTAR LEVEL AJUSTMENT SECTION FOR FURTHER DETAILS ABOUT THE BROWN WIRE.

### CONNECTIONS TO BE MADE ON THE 24 PIN GRAY HARNESS:

1. Connect the **yellow** wire to the radio's 12V battery or memory wire.
  2. Connect the **red** wire to the radio's ignition or accessory wire.
  3. Connect the **black** wire to the radio's ground wire.
  4. Connect the **orange** wire to the radio's illumination wire. If the wire is not present, tape up wire.
  5. Connect the **orange/white** wire to the radio's dimmer wire. If the wire is not present, tape up wire.
- When completed, plug the 16 pin harness into the GMOS-04.

### CONNECTIONS TO BE MADE ON THE 14 PIN HARNESS

1. Connect the **blue/white** wire to the radio's AMP turn-on wire.
2. Connect the **red** wire to the radio's Igniton or accessory wire.
3. Connect the **RCA cables** to the radio's **RCA outputs**. If no **RCA outputs** are available, use the Metra line output converter part #ALO-648 (SOLD SEPARATELY).
4. The **white** RCA goes to the left front RCA output of the radio.
5. The **gray** RCA goes to the front right RCA output of the radio.
6. The **green** RCA goes to the left rear RCA output of the radio.
7. The **purple** RCA goes to the right rear RCA output of the radio.

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

1. Connect the **Brown** wire to the mute wire of the aftermarket radio..
2. Connect the **Green** wire to the parking brake wire of the aftermarket radio..
3. Connect the **Blue/Pink** wire to the VSS or speed sense wire of the aftermarket radio.

4. Connect the **Green/Purple** wire to the reverse wire of the aftermarket radio.
- When completed, plug the 14 pin harness into the GMOS-04.

### INSTALLING THE GMOS-04

1. With all connections completed to the aftermarket radio, plug the 24 pin and the 12 pin connectors into the vehicles corresponding wiring harnesses.
2. Reconnect the negative battery terminal.
3. Cycle the key by turning the ignition on then back off, then back on again to test the radio.

### TESTING THE GMOS-04

1. Turn the ignition on then the radio to verify the radio works. Check balance and fader controls for proper operation. If controls are backwards, check to see if the RCA's are in the correct location.
2. Push the Onstar button to verify Onstar is working. the radio will shut off and Onstar will be heard through the left front speaker. Turn off Onstar and the radio will turn back on.

### ONSTAR LEVEL ADJUSTMENT

To adjust the Onstar volume level find the BROWN wire that you cut on the 16 pin harness, you will use the BROWN wire that is by itself, with no other wire with it. Push the blue Onstar button, while the voice is speaking tap the BROWN wire to ground. There are 4 volume settings for Onstar; once the 4th setting is reached and the BROWN 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 BROWN wire is tapped to ground again. This can be set during installation and then left alone. If user adjustment is desired, a momentary contact switch (sold separately) can be added. Connect one terminal from the switch to ground and the other terminal to the brown wire. The volume will change one level every time the switch is pressed.

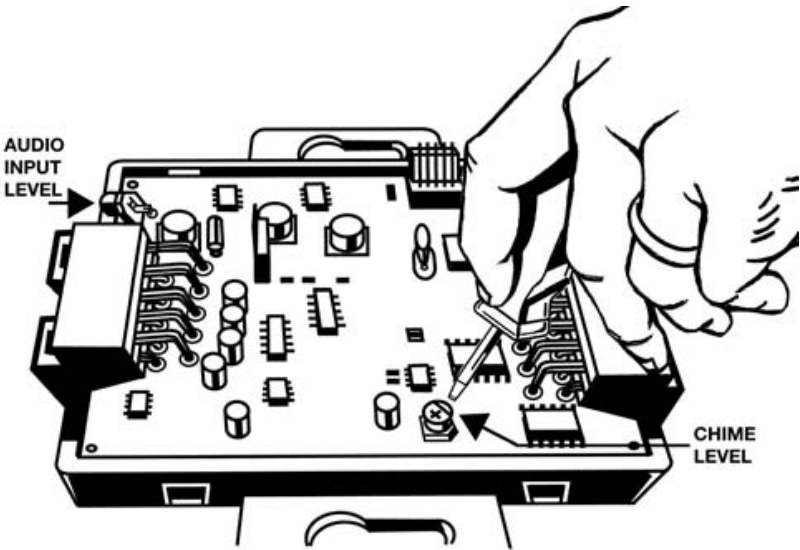
# GMOS-04

## TOUBLESHOOTING:

### *Chime Too Loud/Soft:*

There are some instances where the chime is too loud or too soft. To resolve this follow these steps:

1. Make sure the ignition is turned to the "off" position.
2. Disconnect the 14 pin and 16 pin wire harnesses from the GMOS-04
3. Open up the GMOS-04 by squeezing the sides of the top cover
4. Locate the potentiometer facing up on the circuit board, this is the Chime potentiometer
5. Taking a small flat headed screwdriver, turn the potentiometer clockwise to decrease the chime level; turning the potentiometer counterclockwise will increase the chime level
6. After adjustment replace top cover of GMOS-04 and reconnect wire harnesses



### *Distorted Audio Output:*

When using the GMOS-04 with a radio that has a high pre-out voltage, usually greater than 2 volts, the audio signal may become distorted. To resolve this follow these steps:

1. Make sure the ignition is turned to the "off" position
2. Disconnect the 14 pin and 16 pin wire harnesses from the GMOS-04
3. Open up the GMOS-04 by squeezing the sides of the top cover
4. Locate the potentiometer next to the 10 pin board mounted connector located at the end of the GMOS-04
5. Taking a small flat headed screwdriver, turn the potentiometer counterclockwise to lower the input level going to the factory amplifier
6. After adjustment replace top cover of GMOS-04 and reconnect wire harnesses.

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