



GM ONSTAR CLASS II DATA BUS INTERFACE

GMOS-07

Installation Instructions

The **GMOS-07** is designed to be used in vehicles listed below to retain Onstar and the warning chimes that are lost when the OEM radio is removed, and also provide a 12 volt accessory output for proper after-market radio operation. THE **GMOS-07** 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.

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

***NOTE: This interface will also work in vehicles listed
below that are NOT equipped with Onstar.**

***NOTE: This interface will NOT work to retain factory amplifiers.**

APPLICATIONS

CHEVY

Equinox 2005-2006

PONTIAC

Torrent 2006

INTERFACE COMPONENTS

- GMOS-07 Data Interface
- 14 pin harness with stripped leads
- 12 pin harness to 12 and 24 pin GM harness with stripped leads



1-800-221-0932



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*** READ IMPORTANT WARNING
BEFORE ATTEMPTING ANY INSTALLATION**

*** IMPORTANT WARNING**

THIS PRODUCT INCLUDES INSTRUCTIONS FOR INSTALLATION WHICH MUST BE CAREFULLY FOLLOWED. THE INSTRUCTIONS ARE WRITTEN 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.**



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TOOLS REQUIRED FOR INSTALLATION

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

WIRING UP THE GMOS-07

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

****Note: The ignition power source of most factory GM radios keep the radio on until one of the doors is opened. This is called the R.A.P. (retained accessory power). The GMOS-07 is designed to retain this feature.**

FOR AFTERMARKET RADIO ONLY: (See wiring diagram on page 6)

CONNECTIONS TO BE MADE ON THE 14 PIN HARNESS:

1. Connect the **red** wire to the ignition/accessory wire of the aftermarket radio.
2. Connect the **orange/white** wire to the illumination wire of the aftermarket radio. If the aftermarket radio has no illumination wire just tape off the **orange** wire.
3. Connect the **blue/white** wire to the amp turn on wire of the aftermarket radio and to the **blue/white** wire in the 24 pin harness.
4. Connect the **white** wire to the left front positive speaker output of the aftermarket radio.
5. Connect the **white/black** wire to the left front negative speaker output of the aftermarket radio.
6. Connect the **gray** wire to the right front positive speaker output of the aftermarket radio.
7. Connect the **gray/black** wire to the right front negative speaker output of the aftermarket radio.
8. Connect the **brown** wire to the mute wire of the aftermarket radio. If the after market 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:

1. Connect the **green** wire to the parking brake wire of the aftermarket navigation radio.
2. Connect the **blue/pink** wire to the VSS or speed sense wire of the aftermarket navigation radio.
3. Connect the **green/purple** wire to the reverse wire of the aftermarket navigation radio.

When completed, plug the 14 pin harness into the GMOS-07.

CONNECTIONS TO BE MADE ON THE 24 PIN GM HARNESS:

1. Connect the **yellow** wire to the radio's 12 volt battery or memory wire.
2. Connect the **black** wire to the radio's ground wire.
3. Connect the **blue/white** wire to the amp turn on wire of the aftermarket radio and to the **blue/white** wire of the 14 pin harness.

4. Connect the **green** wire to the radio's left rear positive speaker output.
5. Connect the **green/black** wire to the radio's left rear negative speaker output.
6. Connect the **purple** wire to the radio's right rear positive speaker output.
7. Connect the **purple/black** wire to the radio's right rear negative speaker output.

CONNECTIONS TO BE MADE ON THE 12 PIN HARNESS:

1. The **brown** wire is for the Onstar volume adjustment. This will be discussed in the Onstar Level Adjustment section of this instruction.

When completed, plug the 12 pin harness into the GMOS-07.

FOR AFTERMARKET RADIO AND AMPLIFIER

[See wiring diagram on page 6]

CONNECTIONS TO BE MADE ON THE 14 PIN HARNESS:

1. Connect the **red** wire to the ignition/accessory wire of the aftermarket radio.
2. Connect the **Orange** wire to the illumination wire of the aftermarket radio. If the aftermarket radio has no illumination wire just tape off the **orange** wire.
3. Connect the **blue/white** wire to the amp turn on wire of the aftermarket radio and to the **blue/white** wire in the 24 pin harness.
4. **White NOT USED**
5. **White/black NOT USED**
6. **Gray NOT USED**
7. **Gray/black NOT USED**
8. Connect the **Brown** wire to the mute wire of the aftermarket radio. If the after market 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:

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

When completed, plug the 14 pin harness into the GMOS-07.

CONNECTIONS TO BE MADE ON THE 24 PIN GM HARNESS:

1. Connect the **yellow** wire to the radio's 12 volt battery or memory wire.
2. Connect the **black** wire to the radio's ground wire.
3. Connect the **blue** wire to the amp turn on wire of the aftermarket radio and to the **blue** wire of the 14 pin harness.
4. Connect the **green** wire to the amplifier's left rear positive speaker output.
5. Connect the the **green/black** wire to the amplifier's left rear negative speaker output.
6. Connect the **purple** wire to the amplifier's right rear positive speaker output.
7. Connect the **purple/black** wire to the amplifier's right rear negative speaker output.
8. The **Orange** and **Orange/White** wires are not used. Please tape up wires to avoid a short circuit output.
9. Cut the **white** wire about half way between the two plugs. Connect the **white** wire from the 24 pin plug to amplifier's left front positive speaker output wire. Connect the **white** wire from the 12 pin plug to the positive speaker wire of the Metra SP-2003 or equivalent.
10. Cut the **white/black** wire about half way between the two plugs. Connect the **white/black** wire from the 24 pin plug to amplifier's left front negative speaker output wire. Connect the **white/black** wire from the 12 pin plug to the negative speaker wire of the Metra SP-2003 or equivalent.
11. Cut the **gray** wire about half way between the two plugs. Connect the **gray** wire from the 24 pin plug to amplifier's right front positive speaker output wire. Connect the **gray** wire from the 12 pin plug to the positive speakerwire of the Metra SP-2003 or equivalent.
12. Cut the **gray/black** wire about half way between the two plugs. Connect the **gray/black** wire from the 24 pin plug to amplifier's right front negative speaker output wire. Connect the **gray/black** wire from the 12 pin plug to the negative speaker wire of the Metra SP-2003 or equivalent.

Note: If only one SP-2003 is used tape up the gray wires that would normally connect to the second SP-2003 to avoid a short circuit.

INSTALLING THE GMOS-07

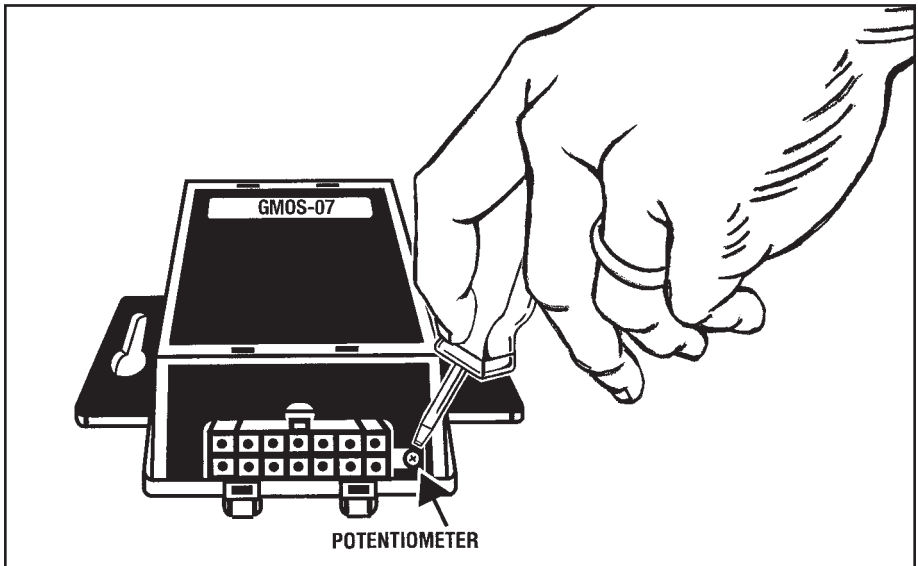
1. With all connections completed to the aftermarket radio, plug the GM24 and GM12 pin harnesses into the vehicles wiring harnesses.
2. Reconnect the negative battery terminal.
3. Cycle the key by turning the ignition on then back off, then on again to test the radio.

TESTING THE GMOS-07

1. Turn the ignition on if not already, and then turn the radio on to verify that the radio works. Check the balance and fader control of the radio for proper operation.
2. Push the **Onstar** button (if so equipped) to verify **Onstar** is working properly. The radio will shut off or mute, depending if the **brown** wire on the 14 pin harness is connected, and **Onstar** will be heard through the front speakers. Turn off **Onstar** and the radio will turn back on.

CHIME VOLUME ADJUSTMENT

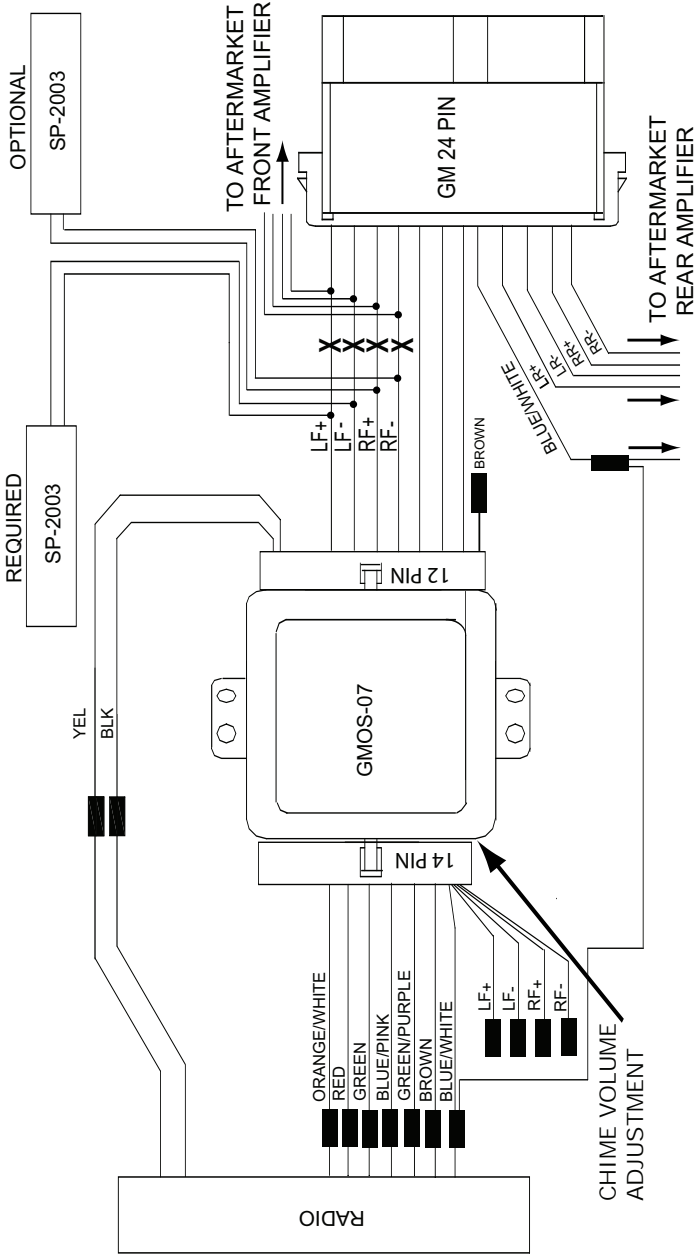
To adjust the chime volume, use a small screwdriver to rotate the potentiometer clockwise to make the chime louder and counterclockwise to make it softer. The potentiometer is located on the side of the GMOS-07.



ONSTAR LEVEL ADJUSTMENT

To adjust the **Onstar** volume level find the **brown** wire on the 12 pin harness. Press the **blue** Onstar button, while the voice is talking tap the **Brown** wire to ground. Each time the **Brown** wire sees ground the volume level will change. There are 3 volume settings, low, medium, and high. The volume setting will be set until the **Brown** wire is tapped to ground again.

AFTERMARKET RADIO AND AMPLIFIER WIRING



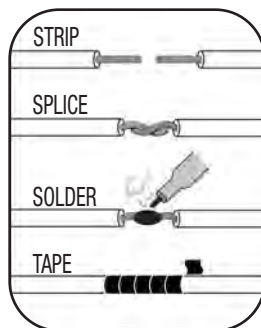
GMOS-07 INSTRUCTIONS

FINAL WIRING CONNECTIONS

Make wiring connections using the EIA color code chart shown below and the instructions included with the head unit. Metra recommends making connections as shown below; Strip, Splice, Solder, Tape. Isolate and individually tape off ends of any unused wires to prevent electrical short circuit.

METRA/EIA WIRING CODE

12V Ignition / Acc.	Red
12V Batt / Memory.	Yellow
Ground.	Black*
Power Antenna.	Blue
Amp Turn-On.	Blue / White
Amp Ground.	Black / White
Illumination	Orange
Dimmer	Orange / White
Right Front (+).	Gray
Right Front (-).	Gray / Black
Left Front (+).	White
Left Front (-).	White / Black
Right Rear (+).	Violet
Right Rear (-).	Violet / Black
Left Rear (+).	Green
Left Rear (-).	Green / Black



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