



## GM ONSTAR INTERFACE

# GMOS-11

## Installation Instructions

*\* Retains ONSTAR system when installing an aftermarket radio.*

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

### APPLICATIONS

#### **CADILLAC**

Escalade 1999-2002

#### **CHEVROLET**

Avalanche 2001-2002

Silverado 1999-2002

Suburban 1999-2002

Tahoe 1999-2002

#### **GMC**

Sierra 1999-2002

Yukon 1999-2002

Yukon XL 2001-2002

### INTERFACE COMPONENTS

- GMOS-11 Onstar Interface
- 10 pin harness with stripped leads
- 12 pin to 21pin GM and and 9 pin Onstar harness

### TOOLS REQUIRED FOR INSTALLATION

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



1-800-221-0932



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## GMOS-11

***\* 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.**



### **KNOWLEDGE IS POWER**

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## WIRING UP THE GMOS-11

**\* 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-11 is designed to retain this feature.

**FOR AFTERMARKET RADIO ONLY:** (See wiring diagram below)

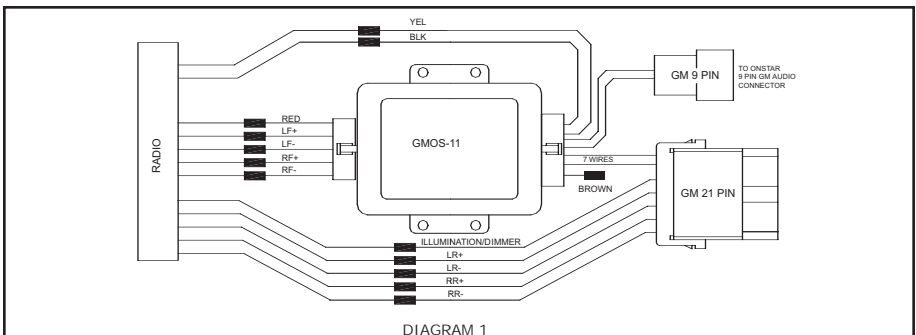
### CONNECTIONS TO BE MADE ON THE 10 PIN HARNESS:

- 1.) Connect the **white** wire to the radio's left front positive speaker output.
- 2.) Connect the **white/black** wire to the radio's left front negative speaker output.
- 3.) Connect the **gray** wire to the radio's right front positive speaker output.
- 4.) Connect the **gray/black** to the radio's right front negative speaker output.
- 5.) Connect the **red** wire to the radio's 12 volt accessory or switched wire.

### CONNECTIONS TO BE MADE ON THE 21 PIN GM HARNESS:

- 1) Connect the **yellow** wire to the radio's 12 volt battery or memory wire.
- 2) Connect the **blue** wire to the radio's antenna turn on wire.
- 3) Connect the **orange** wire to the radio's illumination wire (if wire is not present, tape wire off).
- 4) Connect the **black** wire to the radio's ground wire.
- 5) Connect the **green** wire to the radio's left rear positive speaker output.
- 6) Connect the **green/black** wire to the radio's left rear negative speaker output.
- 7) Connect the **purple** wire to the radio's right rear positive speaker output.
- 8) Connect the **purple/black** wire to the radio's right rear negative speaker output.

When completed, plug both harnesses into the GMOS-11





## **FOR AFTERMARKET RADIO AND AMPLIFIER**

**(See wiring diagram on page 6)**

### **CONNECTIONS TO BE MADE ON THE 10 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 21 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.*

**When completed, plug the 10 pin harness into the GMOS-11.**

### **CONNECTIONS TO BE MADE ON THE 21 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 10 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 21 pin plug to amplifier's left front positive speaker output wire. Connect the **white** wire from the 9 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 21 pin plug to amplifier's left front negative speaker output wire. Connect the **white/black** wire from the 9 pin plug to the negative speaker wire of the Metra SP-2003 or equivalent.*



## GM05-11

- 11.) Cut the **gray** wire about half way between the two plugs. Connect the **gray** wire from the 21 pin plug to amplifier's right front positive speaker output wire. Connect the **gray** wire from the 9 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 21 pin plug to amplifier's right front negative speaker output wire. Connect the **gray/black** wire from the 9 pin plug to the negative speaker wire of the Metra SP-2003 or equivalent.

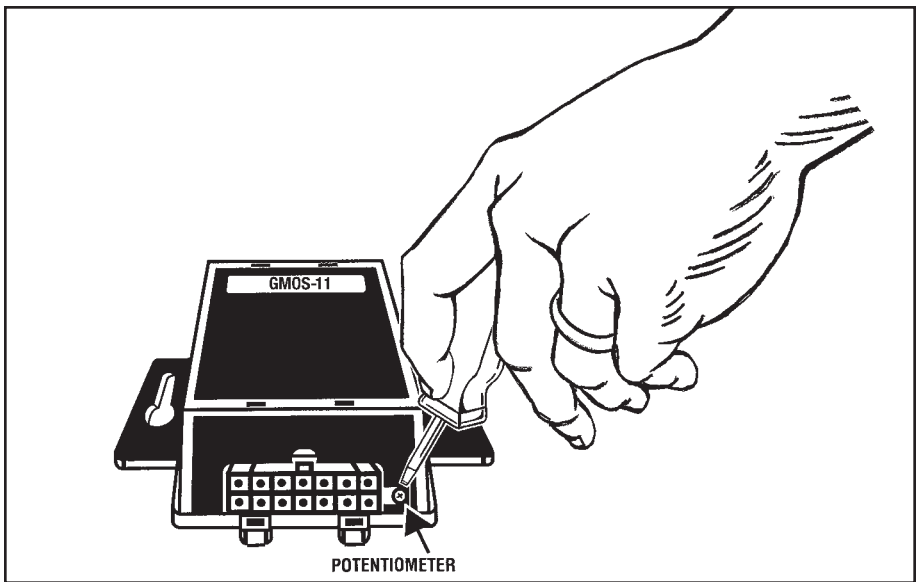
**Note: If only one SP-2003 is used tape up the gray wires that would normally connect to the second SP-2003 to avoid a short circuit.**

## INSTALLING THE GMOS-11

1. With all connections completed to the aftermarket radio, plug the GM21 and GM9 pin harnesses into the vehicles wiring harnesses.

## TESTING THE GMOS-11

1. Reconnect the negative battery terminal.
2. 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.
3. Push the **Onstar** button (if so equipped) to verify **Onstar** is working. The radio will shut off and **Onstar** will be heard through the front speakers. Turn off **Onstar** and the radio will turn back on.



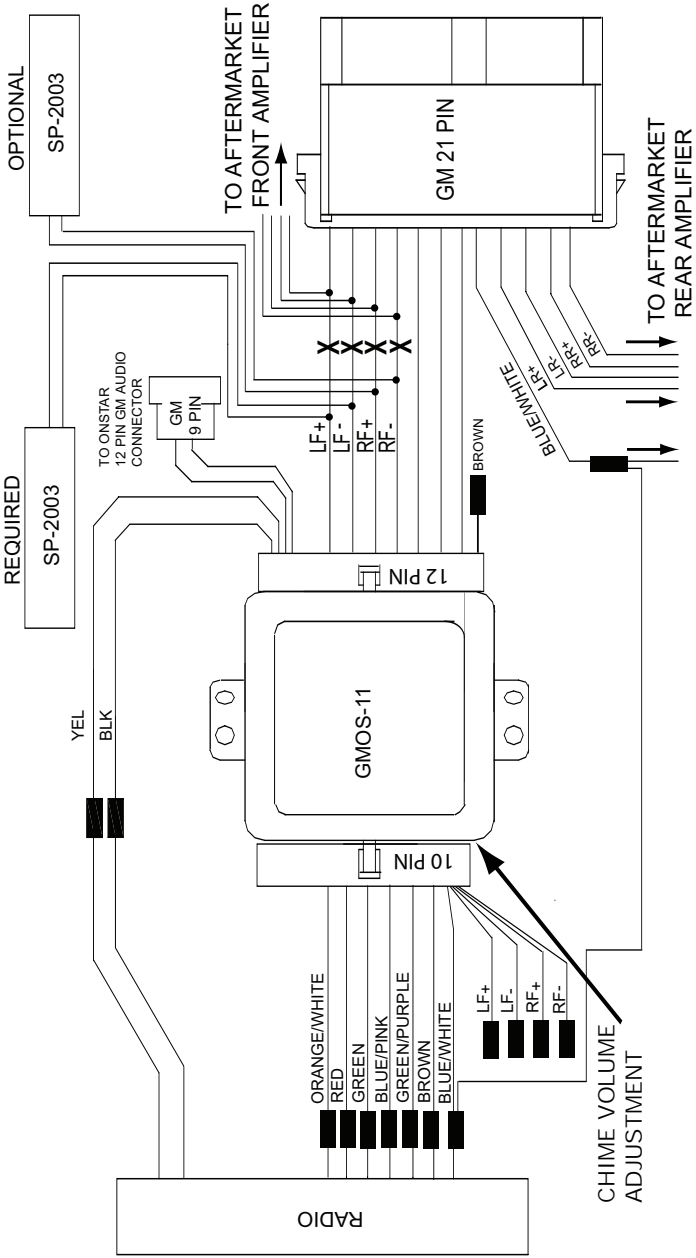
## ONSTAR LEVEL ADJUSTMENT

To adjust the Onstar volume level find the **brown** wire on the 12 pin harness. Tap the **brown** wire to ground to change the level. Every tap will change the volume one level. There are three levels, low, medium and high.

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.

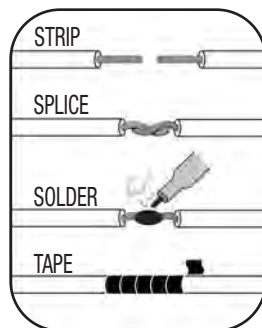
## AFTERMARKET RADIO AND AMPLIFIER WIRING



# GM05-11 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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