



## Installation instructions for GMOS-LAN-034

# GMOS-LAN-034

## GM LAN-1 1 OnStar interface 2006-2012

### FEATURES

- Provides accessory power (12-volt 10-amp)
- Retains R.A.P. (retained accessory power)
- Can be used in non-amplified, or amplified models
- Retains chimes
- Provides NAV outputs (parking brake, reverse, mute, and speed sense)
- Pre-wired ASWC-1 harness included (ASWC-1 sold separately)
- Retains OnStar/OE Bluetooth
- Adjustable volume for chimes and OnStar
- High level speaker input
- USB updatable
- Retains factory satellite radio

### APPLICATIONS

#### CHEVROLET

Cobalt	2007-2010
HHR	2006-2011
Malibu	2008-2012

#### PONTIAC

G6	2010
G6 (5th digit of the VIN must be J, K, or L)	2009

#### PONTIAC (continued)

G5	2007-2009
Solstice	2006-2009

#### SATURN

Aura	2007-2009
Sky	2006-2009

### INTERFACE COMPONENTS

- GMOS-LAN-034 interface
- GMOS-LAN-034 harness
- 16-pin harness with stripped leads
- 4-pin to 4-pin resistor pad harness

### 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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## Connections to be made

### From the 16-pin harness with stripped leads to the aftermarket radio:

- Connect the (2) **Red** wires to the accessory wire.

**Note:** If installing the ASWC-1, there will be an accessory wire on the 12-pin harness to connect as well.

- Connect the **Orange/White** wire to the illumination wire. (If the aftermarket radio has no illumination wire, tape off the Orange/White wire).
- Connect the **Blue/White** wire to the amp turn on wire (this wire must be connected to hear sound from the factory amplifier).
- Connect the **Brown** wire to the mute wire of the aftermarket radio. If the radio has no mute wire, tape it off and disregard it.
- Connect the **White** wire to the left front positive speaker output.
- Connect the **White/Black** wire to the left front negative speaker output.
- Connect the **Gray** wire to the right front positive speaker output.
- Connect the **Gray/Black** wire to the right front negative speaker output.

### Tape off and disregard the following 4 wires:

- The **Green**, **Green/Black**, **Purple**, and **Purple/Black** wire.

The following 3 wires are for an aftermarket multimedia/navigation radio that provide these wires (if not required, tape them off and disregard them):

- Connect the **Light Green** wire to the parking brake wire (if applicable).
- Connect the **Blue/Pink** wire to the speed sense wire (V.S.S.) (if applicable).
- Connect the **Green/Purple** wire to the reverse wire (if applicable).

### From the GM05-LAN-034 harness:

#### (a) 16-pin and 14-pin harness to the aftermarket radio:

- Connect the **Black** wire to the ground wire.
- Connect the **Yellow** wire to the battery wire.
- Connect the RCA jacks to the audio AUX-IN on the aftermarket radio (if so equipped). **Note:** This will only be required if you care to retain the factory satellite radio.

#### For amplified models only:

- Connect the **Green** wire to the left rear positive speaker output.
- Connect the **Green/Black** wire to the left rear negative speaker output.



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## Connections to be made

- Connect the **Purple** wire to the right rear positive speaker output.
- Connect the **Purple/Black** wire to the right rear negative output.
- Disconnect the 4-pin harness located between the 16-way and 22-way connector, and then connect the supplied 4-pin to 4-pin resistor pad harness.

### For non-amplified models ONLY:

- Cut the resistors off from the **Green, Green/Black, Purple,** and **Purple/Black** wires below the heat shrink.
- Connect the **Green** wire to the left rear positive speaker output.
- Connect the **Green/Black** wire to the left rear negative speaker output.
- Connect the **Purple** wire to the right rear positive speaker output.
- Connect the **Purple/Black** wire to the right rear negative output.

*Note: The 4-pin to 4-pin resistor pad harness will not be used in this application.*

### (b) 22-pin harness to the aftermarket radio:

- The **Black/Yellow** wire is used for OnStar level adjustment for models that do not come equipped with steering wheel controls. See OnStar Level Adjustment for further instructions.

- The DIN plug is for use with the optional AX-LCD (sold separately). Refer to EXTRA FEATURES for more information.

### (c) 12-pin harness to the aftermarket radio:

- This harness is to be used in conjunction with the optional ASWC-1 (not included) to retain steering wheel controls. If the ASWC-1 is not being used, disregard this harness. If it will be used, please refer to the ASWC-1 instructions for radio connections and programming.

*Note: Disregard the harness that comes with the ASWC-1.*

- Connect the **Red** wire to the accessory wire.

*Note: The relay attached to the GMOS-LAN-034 harness is only for audible turn signal clicks. No extra steps are required to retain this feature, so leave the relay as-is.*



## GMOS-LAN-034

### Installing the GMOS-LAN-034

- Connect the 16-pin harness into the interface.
- Connect the 22-pin harness into the interface.
- With the key in the off position, connect the 16-pin and 14-pin harnesses into the vehicle.
- With all connections completed, reconnect the negative battery terminal.

*Note: If using the ASWC-1, connect it after you initialize and test the GMOS-LAN-034, with the key in the off position.*

### Installing the GMOS-LAN-034

- Initialize the interface by turning the ignition on for 30 seconds, then turn the ignition back off, then back on again.
- Push the OnStar button; the radio should mute, and you should hear the OnStar voice. Push the OnStar cancel button; the radio should un-mute and play again.

*Note: The radio will turn off instead if the mute wire is not connected.*

### Adjusting the GMOS-LAN-034

#### Chime level adjustment:

- With the vehicle on, turn it off and leave the keys in ignition. Open the driver's door; chimes will be heard.

### Adjusting the GMOS-LAN-034

- Wait 10 seconds, and then with a small screwdriver, turn the potentiometer clockwise to raise the chime level; counterclockwise to lower the chime level.
- When the chime level is at a desired level, remove the keys from the ignition. This will lock the chime volume at its current level.

#### Audio level adjustment (amplified models only):

- With the vehicle and radio turned on, turn the volume up 3/4 of the way.
- With a small screwdriver, adjust the potentiometer clockwise to raise the audio level; counterclockwise to lower the audio level.
- Once at a desired level, your audio level adjustment is complete.

#### OnStar level adjustment:

- Press the OnStar button to activate it.
- While OnStar is speaking, press the VOLUME UP or VOLUME DOWN buttons on the steering wheel to raise or lower the OnStar level.
- If the vehicle does not come equipped with steering wheel controls, find the **Black/Yellow** wire on the 22-pin harness.
- While OnStar is speaking, tap the **Black/Yellow** wire to ground. Once the OnStar level is set, it will stay at that level until the **Black/Yellow** wire is tapped to ground again.



**GMOS-LAN-034**

## **Extra features**

### **Audio level adjustment (amplified models only):**

- If your vehicle comes equipped with factory satellite radio, the GMOS-LAN-034 can retain this feature.
- Change the source of the radio to AUX-IN; the satellite radio will start playing.
- The optional AX-LCD (sold separately) will now display your satellite radio information.
- Listed below are the functions of the AX-LCD buttons while using the satellite radio:
  - **Arrow up** - Channel up.
  - **Arrow down** - Channel down.
  - **Enter** - Selects current item on the screen.
  - **Return/ESC** - Exits to previous screen.