



Installation instructions for GM05-014

GM05-014 GM Class-2 data interface 2000-2013

FEATURES

- Provides accessory power (12-volt 10-amp)
- Retains R.A.P. (retained accessory power)
- Can be used in non-amplified, or analog/digital 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 rear seat entertainment and satellite radio

APPLICATIONS

See inside front cover

INTERFACE COMPONENTS

- GM05-014 interface • [GM05-014 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, unless the vehicle manufacturer recommends against so. Please check with your local Dealership for more information. All accessories, switches, climate controls panels, and especially air bag indicator lights must be connected before reconnecting the battery or cycling the ignition. Also, do not remove the factory radio with the key in the on position, or the vehicle running. It would be best to remove the key from the ignition and then wait a few seconds before removing the factory radio.





GM05-014

Applications

BUICK

| | |
|------------|-----------|
| Century | 2004-2005 |
| Lacrosse | 2005-2009 |
| Rainier | 2005-2007 |
| Rainier* | 2004-2004 |
| Regal | 2004 |
| Rendezvous | 2002-2007 |
| Terraza | 2005-2007 |

CADILLAC

| | |
|-----------------|-----------|
| Escalade ** | 2003-2006 |
| Escalade ESV ** | 2003-2006 |
| Escalade EXT ** | 2003-2006 |

CHEVROLET

| | |
|--------------------|-----------|
| Avalanche* | 2003-2006 |
| Cavalier | 2000-2005 |
| Colorado | 2004-2012 |
| Corvette | 2005-2013 |
| Express | 2003-2007 |
| Impala | 2000-2005 |
| Kodiak | 2003-2009 |
| Malibu | 2001-2003 |
| Malibu Classic | 2004-2005 |
| Monte Carlo | 2000-2005 |
| Silverado Classic* | 2007 |

| | |
|--------------|-----------|
| Silverado* | 2003-2006 |
| SSR* | 2003-2006 |
| Suburban* | 2003-2006 |
| Tahoe* | 2003-2006 |
| Trailblaze | 2007-2009 |
| Trailblazer* | 2002-2006 |
| Uplander | 2005-2008 |

GMC

| | |
|-----------------|-----------|
| Canyon | 2004-2012 |
| Envoy | 2007-2009 |
| Envoy* | 2002-2006 |
| Savanna | 2003-2007 |
| Sierra Classic* | 2007 |
| Sierra* | 2003-2006 |
| TopKick | 2005-2009 |
| Yukon* | 2003-2006 |

HUMMER

| | |
|--------|-----------|
| H2** | 2003-2007 |
| H3/H3T | 2006-2010 |

ISUZU

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|------------------|-----------|
| Ascender | 2003-2008 |
| H Series | 2003-2008 |
| I Series pickups | 2006-2008 |

OLDSMOBILE

| | |
|----------|-----------|
| Alero | 2001-2004 |
| Bravada* | 2002-2004 |
| Intrigue | 2002 |

PONTIAC

| | |
|-------------|-----------|
| Aztec | 2001-2005 |
| Grand Am | 2001-2005 |
| Grand Prix | 2004-2008 |
| Montana SV6 | 2005-2008 |
| Sunfire | 2000-2005 |

SAAB

| | |
|------|-----------|
| 9-7X | 2005-2009 |
|------|-----------|

SATURN

| | |
|-------|-----------|
| Relay | 2005-2007 |
|-------|-----------|

* These vehicles have a digital amplifier option. Please refer to the Service Parts Identification sticker located in the glove box (for all models except for the Buick Regal which is on the spare tire cover). If the codes UQA or Y91 are present, then you have a digital amplifier.

** These vehicle come standard with a digital amplifier.



GM05-014

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.

Connect the following 4 wires ONLY if your vehicle comes equipped with a digital amplifier:

- 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.

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).

Note: Some models do not have this circuit on the data-bus. Refer to the 12-pin GM harness to the aftermarket radio instructions. If you do not have a wire populated on the factory side, connect this wire instead.

- Connect the **Green/Purple** wire to the reverse wire (if applicable).

From the GM05-014 harness:

(a) 24-pin GM harness to the aftermarket radio:

- Connect the **Black** wire to the ground wire.
- Connect the **Yellow** wire to the battery wire.



GM05-014

Connections to be made

The following wiring is **ONLY** required if your vehicle **DOES NOT** come equipped with a digital amplifier:

(1) For analog 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.
- 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 24-pin and 22-pin harness, and then connect the supplied 4-pin to 4-pin resistor pad harness.

(2) 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 GM harness to the aftermarket radio:

- If the **Blue/Pink** wire is populated on the factory side, connect this wire to the speed sense wire (V.S.S.) (if applicable).
- Connect the RCA jacks to the audio AUX-IN (if so equipped).

Note: This will only be required if you care to retain the factory rear seat entertainment, or satellite radio.

(d) 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.



GM05-014

Connections to be made

The following wire(s) must be cut before programming the ASWC-1:

- * For these vehicles, cut the **White/Green, Green/Orange, and Yellow/Green** wires.
- ** For these vehicles, cut the **White/Green, Pink, and Green/Orange** wires.

- *** For these vehicles, cut the **Pink, and Green/Orange** wires.
- † For these vehicles, cut the **White/Green, and Pink** wire.
- Δ For these vehicles, cut the **Pink** wire.

Buick

| | |
|--------------|-----------|
| † Century | 2004-2005 |
| † LaCrosse | 2005-2009 |
| * Rainer | 2004-2007 |
| † Regal | 2004 |
| Δ Rendezvous | 2002-2007 |
| Δ Terraza | 2005-2008 |

Cadillac

| | |
|----------------|-----------|
| * Escalade | 2003-2006 |
| * Escalade ESV | 2003-2006 |
| * Escalade EXT | 2003-2006 |

Chevrolet

| | |
|-------------|-----------|
| * Avalanche | 2003-2006 |
| * Cavalie | 2000-2005 |

Chevrolet (continued)

| | |
|---------------------|-----------|
| * Colorado | 2004-2012 |
| *** Corvette | 2007-2011 |
| Δ Corvette | 2012-2013 |
| ** Impala | 2000-2005 |
| Malibu | 2001-2003 |
| Malibu Classic | 2004-2005 |
| ** Monte Carlo | 2000-2005 |
| * Silverado | 2003-2006 |
| * Silverado Classic | 2007 |
| * SSR | 2003-2006 |
| * Suburban | 2003-2006 |
| * Tahoe | 2003-2006 |
| * Trailblazer | 2002-2009 |
| ** Uplander | 2005-2008 |

GMC

| | |
|------------------|-----------|
| * Canyon | 2004-2012 |
| * Envoy | 2002-2009 |
| * Sierra | 2003-2006 |
| * Sierra Classic | 2007 |
| * Yukon | 2003-2006 |

Hummer

| | |
|----------|-----------|
| * H2 | 2003-2007 |
| * H3/H3T | 2006-2010 |

Isuzu

| | |
|--------------------|-----------|
| * Ascender | 2003-2008 |
| * I-Series pickups | 2006-2008 |

Oldsmobile

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|----------|-----------|
| ** Alero | 2001-2004 |
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Oldsmobile (continued)

| | |
|-------------|-----------|
| * Bravada | 2002-2004 |
| ** Intrigue | 2002 |

Pontiac

| | |
|----------------|-----------|
| ** Aztec | 2001-2005 |
| ** Grand Am | 2001-2005 |
| ** Grand Prix | 2004-2008 |
| ** Montana SV6 | 2005-2008 |
| * Sunfire | 2000-2005 |

SAAB

| | |
|--------|-----------|
| * 9-7x | 2005-2009 |
|--------|-----------|

Saturn

| | |
|----------|-----------|
| ** Relay | 2005-2007 |
|----------|-----------|



GM05-014

Installing the GM05-014

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

- 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 24-pin and 12-pin GM 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 GM05-014, with the key in the off position.

Initializing the GM05-014

- 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 GM05-014

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.
- 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.



GM05-014

Extra features

Factory rear seat entertainment and satellite radio control:

- If your vehicle comes equipped with rear seat entertainment, or factory satellite radio, the GM05-014 can retain these features.
- 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.
- To access the rear seat entertainment, press and hold the SOURCE button on the steering wheel for 2 seconds. Do this again to get back to the satellite radio.