



INSTALLATION INSTRUCTIONS FOR PART AX-ADGM100

AX-ADGM100

GM multi interface 2000-up

APPLICATIONS

See inside front cover

KIT FEATURES

- Covers Class II, LAN 29 and LAN 11 vehicles
- Provides accessory (12-volt 10-amp)
- Retains R.A.P. (retained accessory power)
- Used in amplified or non amplified systems
- Retains chimes
- Provides NAV outputs (parking brake, reverse, mute, V.S.S.)
- Prewired ASWC-1 harness included (ASWC-1 sold separately)
- Retains OnStar/OE Bluetooth
- Adjustable volume for chimes and OnStar
- High level speaker input
- Micro "B" USB updatable
- Retains balance and fade
- Retains factory Back-up camera and RSE (rear seat entertainment)
- Retains OE Satellite (must have OE steering wheel controls)

INTERFACE COMPONENTS

- AX-ADGM100 Interface • GM LAN 29 harness
- GM LAN 11 harness • Class II harness
- 4-pin to 4-pin resistor pad harness • 16-pin harness with stripped leads • 16-pin Backup camera harness (GM LAN 29 vehicles only)
- 16-pin RSE harness (GM LAN 29 vehicles only)

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.



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Applications

BUICK

Enclave	2008-up
Century	2004-2005
LaCrosse	2005-2009
Lucerne	2006-2011
Rainier	2004-2007
Regal	2004
Rendezvous	2002-2007
Terraza	2005-2008

CADILLAC

DTS	2006-2011
Escalade/ESV/EXT	2003-2011
SRX	2007-2009

CHEVROLET

Avalanche	2003-2006
Captiva Sport	2012-up
Cavalier	2000-2005
Cobalt	2007-2010
Colorado	2004-2012
Corvette	2005-2013
Equinox	2007-2009
Express	2003-up

CHEVROLET (continued)

HHR	2006-2011
Impala	2000-2013
Impala Limited (fleet)	2014
Kodiak	2003-2009
Malibu	2001-2012
Malibu Classic	2004-2005
Monte Carlo	2000-2007
Silverado	2003-2013
Silverado 2500/3500	2014
Silverado Classic	2007
SSR	2003-2006
Suburban	2003-2014
Tahoe	2003-2014
Trailblazer	2002-2009
Traverse	2009-up
Uplander	2005-2008

GMC

Acadia	2007-up
Canyon	2004-2012
Envoy	2002-2009
Savana	2003-up
Sierra	2003-2013

GMC (continued)

Sierra 2500/3500	2014
Sierra Classic	2007
TopKick	2005-2014
Yukon/XL/Denali	2003-2014

HUMMER

H2	2003-2009
H3	2006-2010

ISUZU

Ascender	2003-2008
H-Series	2003-2008
HVR	2005-2009
i-Series	2006-2008

OLDSMOBILE

Alero	2001-2004
Bravada	2002-2004
Intrigue	2002

PONTIAC

Aztec	2001-2005
G5	2007-2009

PONTIAC (continued)

G6	2010
G6 (5th digit of VIN must be a J, K, or L)	2009
Grand Am	2001-2005
Grand Prix	2004-2008
Montana SV6	2005-2006
Solstice	2006-2009
Sunfire	2000-2005
Torrent	2007-2009

SAAB

9-7x	2005-2009
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SATURN

Aura	2007-2009
Outlook	2007-2010
Sky	2006-2009
Relay	2005-2009
Vue	2008-2010

SUZUKI

XL-7	2007-2009
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Section 1: GM LAN 29

APPLICATIONS

BUICK		CHEVROLET (Continued)	
Enclave	2008-up	Tahoe* †	2007-2014
Lucerne	2006-2011	Traverse	2009-up
CADILLAC		GMC	
DTS‡	2006-2011	Acadia	2007-up
Escalade‡	2007-2011	Savanna*	2008-up
Escalade ESV‡	2007-2011	Sierra 2500/3500* †	2014
Escalade EXT‡	2007-2011	Sierra (new body)* †	2007-2013
SRX‡	2007-2009	Yukon* †	2007-2014
CHEVROLET		HUMMER	
Avalanche* †	2007-2013	H2‡	2008-2009
Captiva Sport	2012-up	PONTIAC	
Equinox	2007-2009	Torrent	2007-2009
Express*	2008-up	SATURN	
Impala Limited	2014	Outlook	2007-2010
Impala	2006-2013	Vue	2008-2010
Monte Carlo	2006-2007	SUZUKI	
Silverado 2500/3500* †	2014	XL-7	2007-2009
Silverado (new body)* †	2007-2013		
Suburban* †	2007-2014		

* If the vehicle comes equipped with factory navigation in the 2012 and up models, you must use either the GMOSLAN-08 for non-amplified models, or GMOS-LAN-07 for amplified models.

† These vehicles have a digital amp option. Please refer to the Service Parts Identification sticker located in the glove box. If the codes STZ, UQS, or Y91 are present, then you have a digital amplifier.

‡ These vehicle come standard with a digital amplifier.

Connections to be made

1. From the 16-pin harness:

- Connect the (2) **Red** wires to the ignition/accessory wire of the aftermarket radio.
- Connect the **Orange/White** wire to the illumination wire of the aftermarket radio. 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 of the aftermarket radio.
- Connect the **Brown** wire to the mute wire of the aftermarket radio. If the aftermarket radio does not have a Mute wire, tape up the **Brown** wire.
- Connect the **White** wire to the left front positive speaker output of the aftermarket radio.
- Connect the **White/Black** wire to the left front negative speaker output of the aftermarket radio.
- Connect the **Gray** wire to the right front positive speaker output of the aftermarket radio.
- Connect the **Gray/Black** wire to the right front negative speaker output of the aftermarket radio.

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Connections to be made

Only make the following connections if the vehicle contains a digitally amplified system.

- Connect the **Green** wire to the radio's left rear positive speaker output.
- Connect the **Green/Black** wire to the radio's left rear negative speaker output.
- Connect the **Purple** wire to the radio's right rear positive speaker output.
- Connect the **Purple/Black** wire to the radio's right rear negative speaker output.

The following wires are for the aftermarket radios that have navigation built in:

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

2. From the 22-way harness:

- The **Black/Yellow** wire will be discussed later on in the instructions.
- The DIN plug and loose **Red** wire will not be used in this application.

3. From the 30-way harness:

- Connect the **Black** wire to the ground wire of the aftermarket radio.
- Connect the RCA to the AUX-in on the aftermarket radio (if equipped) to retain RSE and/or OE satellite.
- Satellite information will be displayed on driver information center (DIC).
- Connect the **Yellow** wire to the constant wire of the aftermarket radio.
- If the vehicle is amplified disconnect the 4-pin harness located between the 30-way and 22-way connector and connect the supplied 4-pin to 4-pin resistor pad.

For amplified systems:

Only make these connections if you do not have a "digital" amplifier.

- Connect the **Violet** wire to the right rear positive wire of the aftermarket radio.
- Connect the **Violet/Black** wire to the right rear negative wire of the aftermarket radio.
- Connect the **Green** wire to the left rear positive wire of the aftermarket radio.
- Connect the **Green/Black** wire to the left rear negative wire of the aftermarket radio.

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Connections to be made

For non-amplified systems:

- Cut the resistors from the **Green, Green/Black, Purple, Purple/Black** right below the heat shrink.
- Connect the **Violet** wire to the right rear positive wire of the aftermarket radio.
- Connect the **Violet/Black** wire to the right rear negative wire of the aftermarket radio.
- Connect the **Green** wire to the left rear positive wire of the aftermarket radio.
- Connect the **Green/Black** wire to the left rear negative wire of the aftermarket radio.
- The DIN plug is not used in this application.

Installing the AX-ADGM100

12-way harness

This harness is for the ASWC-1 (sold separately). Please refer to the ASWC-1 instructions for programming.

1. With all the connections completed, plug the 22 and 16-pin harnesses into the AX-ADGM100.
2. Plug the 30-pin GM harness into the vehicle side harness, and plug the aftermarket radio harness into the aftermarket radio.
Continues on next page.

Installing the AX-ADGM100

3. Reconnect the negative battery terminal.
4. Initialize the interface by cycling the key by (1) turning the ignition “on” for 30 seconds, (2) then back off, and then (3) back on again to test the radio.

Video and RSE Harness

These two additional harnesses are to be used in GM LAN 29 systems only.

(1) Backup camera harness:

- Connect the **Yellow** RCA to the aftermarket radios backup camera video input.

(2) RSE harness:

- Connect the “From rear A/V input” RCA to the aftermarket radios audio/video input. Plug **Yellow** in to video in, **Red** to right audio in, and **White** to left audio in.
- Connect the “To overhead screen” RCA to the aftermarket radios audio/video output. Plug **Yellow** in to video out, **Red** to right audio out, and **White** to left audio out.
- Connect the **Black** wire with the ring terminal to ground.
- To activate RSE audio press and hold the source button for 1.5 seconds.



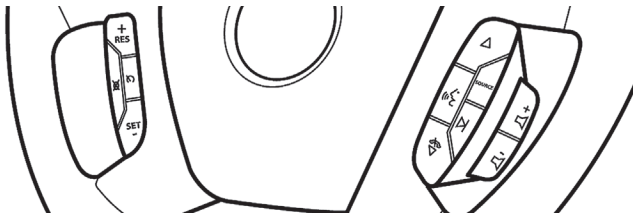
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OE Satellite (if equipped)

- To listen to the factory satellite radio, switch the radio source to AUX.
- To adjust settings for the satellite radio, press and hold the “Source” button for three seconds.
- The driver’s information center (DIC), located in the center of your instrument cluster, will now display your satellite radio information.
- To exit satellite radio mode press and hold “Source” for (3) seconds.

Steering wheel control functions:

1. **Source** – Enters and exits Satellite mode
2. **Track up** – Menu up
3. **Track down** – Menu down
4. **Volume up** – Enter





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Section 2: GM LAN 11

APPLICATIONS

CHEVROLET		PONTIAC (Continued)	
Cobalt	2007-2010	G6	2009-2010
HHR	2006-2011	Solstice	2006-2009
Malibu	2008-2012		
PONTIAC		SATURN	
G6	2010	Aura	2007-2009
G6 (5th digit of VIN must be a J, K, or L)	2009	Sky	2006-2009

Connections to be made

1. From the 16-pin harness:

- Connect the (2) **Red** wires to the ignition/accessory wire of the aftermarket radio.
- Connect the **Orange/White** wire to the illumination wire of the aftermarket radio. 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 of the aftermarket radio.
- Connect the **Brown** wire to the mute wire of the aftermarket radio. If the aftermarket radio does not have a Mute wire, tape up the **Brown** wire.
- Connect the **White** wire to the left front positive speaker output of the aftermarket radio. *Continues on next paragraph.*

Connections to be made

- Connect the **White/Black** wire to the left front negative speaker output of the aftermarket radio.
- Connect the **Gray** wire to the right front positive speaker output of the aftermarket radio.
- Connect the **Gray/Black** wire to the right front negative speaker output of the aftermarket radio.
- The **Violet** wire is not used in the application.
- The **Violet/Black** wire is not used in the application.
- The **Green** wire is not used in the application.
- The **Green/Black** wire is not used in the application.

The following wires are for the aftermarket radios that have navigation built in:

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

2. From the 22-way harness:

- The **Black/Yellow** wire will be discussed later on in the instructions.
- The DIN plug is to be connected to the optional AX-LCD screen if satellite radio is being retained.
- If the AX-LCD screen will be used, connect the **Red** wire to accessory power.

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Connections to be made

3. From the 30-way harness:

- Connect the **Black** wire to the ground wire of the aftermarket radio.
- Connect the RCA to the AUX-in on the aftermarket radio (if equipped) to retain RSE and/or OE satellite.
- Satellite information will be displayed on driver information center (DIC).
- Connect the **Yellow** wire to the constant wire of the aftermarket radio.
- If the vehicle is amplified disconnect the 4-pin harness located between the 30-way and 22-way connector and connect the supplied 4-pin to 4-pin resistor pad.

For amplified systems:

- Connect the **Violet** wire to the right rear positive wire of the aftermarket radio.
- Connect the **Violet/Black** wire to the right rear negative wire of the aftermarket radio.
- Connect the **Green** wire to the left rear positive wire of the aftermarket radio.
- Connect the **Green/Black** wire to the left rear negative wire of the aftermarket radio.

For non-amplified systems:

- Cut the resistors from the **Green, Green/Black, Purple, Purple/Black** right below the heat shrink.
- Connect the **Violet** wire to the right rear positive wire of the aftermarket radio.

Continues on next paragraph.

- Connect the **Violet/Black** wire to the right rear negative wire of the aftermarket radio.
- Connect the **Green** wire to the left rear positive wire of the aftermarket radio.
- Connect the **Green/Black** wire to the left rear negative wire of the aftermarket radio.
- Connect the DIN plug to the optional AX-LCD screen if satellite radio is to be retained.

Installing the AX-ADGM100

12-way harness:

This harness is for the ASWC-1 (sold separately). Please refer to the ASWC-1 instructions for programming.

1. With all the connections completed, plug the 16 and 22-pin harnesses into the AX-ADGM100.
2. Plug the 30-pin GM harness into the vehicle side harness, and plug the aftermarket radio harness into the aftermarket radio.
3. Reconnect the negative battery terminal.
4. Initialize the interface by cycling the key by (1) turning the ignition "on" for 30 seconds, (2) then back off, and then (3) back on again to test the radio.

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Section 3: Class II

APPLICATIONS

BUICK	
Century	2004-2005
Lacrosse	2005-2009
Rainier*	2004
Rainier	2005-2007
Regal	2004
Rendezvous	2002-2007
Terraza	2005-2008

CADILLAC	
Escalade**	2003-2006
Escalade ESV**	2003-2006
Escalade EXT**	2003-2006

CHEVROLET	
Avalanche*	2003-2006
Cavalier	2000-2005

CHEVROLET <i>(continued)</i>	
Colorado	2004-2012
Corvette	2005-2013
Expres	2003-up
Impala	2000-2005
Kodiak	2003-2009
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	2007-2009
Envoy*	2002-2006
Savana	2003-up
Sierra*	2003-2006
Sierra Classic*	2007
TopKick	2005-2009
Yukon/XL/Denali*	2003-2006

HUMMER	
H2**	2003-2007
H3	2006-2010

ISUZU	
Ascender	2003-2008
H-Series	2003-2008
I Series	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	2005-2006
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.



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Connections to be made

1. From the 16-pin harness:

- Connect the (2) **Red** wires to the ignition/accessory wire of the aftermarket radio.
- Connect the **Orange/White** wire to the illumination wire of the aftermarket radio. 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 of the aftermarket radio.
- Connect the **Brown** wire to the mute wire of the aftermarket radio. If the aftermarket radio does not have a Mute wire, tape up the **Brown** wire.
- Connect the **White** wire to the left front positive speaker output of the aftermarket radio.
- Connect the **White/Black** wire to the left front negative speaker output of the aftermarket radio.
- Connect the **Gray** wire to the right front positive speaker output of the aftermarket radio.
- Connect the **Gray/Black** wire to the right front negative speaker output of the aftermarket radio.

Continues on next paragraph.

Only make the following if the vehicle contains a digitally amplified system:

- Connect the **Green** wire to the radio's left rear positive speaker output.
- Connect the **Green/Black** wire to the radio's left rear negative speaker output.
- Connect the **Purple** wire to the radio's right rear positive speaker output.
- Connect the **Purple/Black** wire to the radio's right rear negative speaker output.

The following wires are for the aftermarket radios that have navigation built in:

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

2. From the 22-way harness:

- The **Black/Yellow** wire will be discussed later on in the instructions.
- The DIN plug is to be connected to the optional AX-LCD screen if satellite radio or RSE is being retained.
- If the AX-LCD screen will be used, connect the **Red** wire to accessory power.

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Connections to be made

3. From the 24-way harness:

- Connect the **Black** wire to the ground wire of the aftermarket radio.
- Connect the **Yellow** wire to the constant wire of the aftermarket radio.
- If the vehicle is amplified disconnect the 4-pin harness located between the 24-way and 22-way connector and connect the supplied 4-pin to 4-pin resistor pad. If the vehicle is not amplified connect the two 4-pins for the 24 and 22-way together.

For amplified systems:

Note: Only make these connections if you do not have a digital amplifier.

- Connect the **Violet** wire to the right rear positive wire of the aftermarket radio.
- Connect the **Violet/Black** wire to the right rear negative wire of the aftermarket radio.
- Connect the **Green** wire to the left rear positive wire of the aftermarket radio.
- Connect the **Green/Black** wire to the left rear negative wire of the aftermarket radio.

For non-amplified systems:

- Cut the resistors from the **Green, Green/Black, Purple, Purple/Black** right below the heat shrink.
- Connect the **Violet** wire to the right rear positive wire of the aftermarket radio.
- Connect the **Violet/Black** wire to the right rear negative wire of the aftermarket radio.
- Connect the **Green** wire to the left rear positive wire of the aftermarket radio.
- Connect the **Green/Black** wire to the left rear negative wire of the aftermarket radio.

4. From the 12-way harness:

- Connect the **Blue/Pink** wire to the aftermarket radios VSS (if populated on factory side).
- Connect the RCA to the AUX in on the aftermarket radio (if equipped) to retain RSE and/or OE satellite radio.



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Installing the AX-ADGM100

12-way harness:

This harness is for the ASWC-1 (sold separately). Please refer to the ASWC-1 instructions for programming.

1. With all the connections completed, plug the 24, 22, and 12-pin harnesses into the AX-ADGM100.
2. Plug the 24 and 12-pin GM harness into the vehicle side harness, and plug the aftermarket radio harness into the aftermarket radio.
3. Reconnect the negative battery terminal.

Cycle the key by turning the ignition on for 30 seconds, then back off, then back on again to test the radio.

OE Satellite Radio & Rear Seat Entertainment (if equipped):

Note: (1) The vehicle must have a “Source” button on the steering wheel in order to retain these features.

(2) The rear seat entertainment must be activated by the OE radio. If a power button somewhere else in the car turns the rear seat entertainment “on”, this interface will not operate the rear seat entertainment.

Continues on next paragraph.

- To listen to the audio from the satellite radio or rear seat entertainment, change the source of the radio to AUX.
- The AX-ADGM100 can retain both satellite radio and rear seat entertainment. Satellite radio audio is “on” by default. To toggle rear seat entertainment audio “on”, press and hold the “Source” button on the steering wheel for 1.5 seconds. To toggle Satellite radio audio back “on” press and hold the “Source” button again for 1.5 seconds. Also, in order to use the satellite radio, the optional AX-LCD screen is recommended as without the AX-LCD screen, you will not be able to see any information pertaining to the satellite radio like which station you are viewing. The satellite radio will still function even without the AX-LCD.



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Section 4

Testing

- Turn the ignition “on”. Then turn the aftermarket radio “on”.
- Press the OnStar button, the radio should turn “off” (radio will mute if mute wire is connected) and you should hear OnStar.
- Push the OnStar cancel button and the radio should come back “on”.

OnStar Level Adjustment

- To adjust the OnStar volume level find the **Black/Yellow** wire on the 16-pin harness.
- Push the blue OnStar button, while the voice is speaking tap the **Black/Yellow** wire to ground.
- Once the volume is set it will stay at that volume until the **Black/Yellow** wire is tapped to the ground again.

This can be set during installation and then left alone. If adjustment is desired, the user may also tap “Volume Up” or “Down” on the steering wheel (if equipped) to adjust the OnStar level.

Chime Volume Adjustment

- 1) With car on, shut off car and leave keys in ignition. Open the car door and leave it open. Chimes will be heard.
- 2) Wait 10 seconds, then with a small screwdriver adjust the potentiometer fully counterclockwise (all the-way left), then clockwise to raise chime level and counterclockwise to lower the chime level.
- 3) When the volume is at the desired level, remove the keys from the ignition. This will lock the chime volume at its current level.

Audio Volume Adjustment

- 1) Start your vehicle and turn on the radio having audio playing.
- 2) Turn your aftermarket radio’s volume up $\frac{3}{4}$ of the-way.
- 3) With a small screwdriver adjust the potentiometer clockwise to raise the audio level and counterclockwise to lower the audio level.
- 4) Once at desired level your audio adjustment is complete.



AX-ADGM100

Section 5

AX-LCD Screen (optional)

The AX-LCD will allow you to view the factory installed satellite radio information.

1. **Channel Up:** Allows “Channel Up” function in satellite mode.
2. **Channel Down:** Allows “Channel Down” function in satellite mode.
3. **Select/Enter button:** Selects current item on screen.
4. **Escape/Exit button:** Exits to previous screen.
5. **Screen:** This is where your satellite information is viewed.

IMPORTANT

Before doing so, look over the instructions a second time, and make sure the installation was performed exactly as the instructions are stated. Please have the vehicle apart and ready to perform troubleshooting steps before calling.

Shop for other OE integration products on our website.