GM **Data Interface with SWC 2012-2016**

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INTERFACE FEATURES

- Can be used in non-amplified, or analog/digital amplified models
- Provides accessory power (12-volt 10-amp)
- Retains R.A.P. (retained accessory power)
- Provides NAV outputs (parking brake, reverse, speed sense)
- Retains chimes
- Retains audio controls on the steering wheel
- Retains OnStar®/ OE Bluetooth
- Adjustable OnStar® level
- Retains the factory AUX-IN jack
- Retains balance and fade (excluding digital amplified models)
- Micro "B" USB updatable

INTERFACE COMPONENTS

• AXDIS-GMLN44 interface • AXDIS-GMLN44 harness
• 16-pin harness with stripped leads • 4-pin to 4-pin resistor pad harness
• Female 3.5mm connector with stripped leads

TOOLS REQUIRED

• Wire cutter • Crimp tool • Solder gun • Tape • Connectors (example: butt-connectors, bell caps, etc.) • Small flat-blade screwdriver

APPLICATIONS

See inside front cover

MetraOnline.com may be used to assist with dash assembly instructions. Simply enter your Year, Make, Model vehicle into the vehicle fit guide and look for the Dash Kit Installation Instructions.

www.MetraOnline.com

Product Info

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***ATTENTION:** With the key out of the ignition, disconnect the negative battery terminal before installing this product. Ensure that all installation connections, especially the air bag indicator lights, are plugged in before reconnecting the battery or cycling the ignition to test this product.*
***NOTE:** Refer also to the instructions included with the aftermarket radio.*

APPLICATIONS

CADILLAC

Escalade † 2012-2014

CHEVROLET

Avalanche † * 2012-2013
Cheyenne † 2012-2015
Express † 2013-2015
Malibu (w/monochrome display, & Manual Climate) 2013-2015

CHEVROLET (CONT)

Malibu Limited (with monochrome display) 2016-2016
Silverado † * 2012-2013
Tahoe † ** 2012-2014
Trax 2015-2016

GMC

Sierra † * 2012-2013
Yukon / Yukon XL † ** 2012-2014

* *These vehicles have a digital amp option. Please reference the "Service Parts Identification" sticker located in the glove box for the RPO code Y91. If Y91 is present, then the vehicle is equipped with a digital amplifier.*

** *These vehicles have a digital amp option. Please reference the "Service Parts Identification" sticker located in the glove box for the RPO codes; Y91, STZ, UQS. If Y91, STZ or UQS is present, then the vehicle is equipped with a digital amplifier.*

† *Only for models with NAV.*

CONNECTING THE AXDIS-GMLN44

Attention! *This interface will work with models that are either non-amplified, analog amplified, or digital amplified. Please follow the instructions carefully for your model vehicle. Failure to do so will result in either no sound, or low sound. If you are unsure if your vehicle is factory amplified or not, please contact your local dealership.*

For Models Without an Amplifier:

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

- Connect the **Red** wire to the accessory wire.
- If the aftermarket radio has an illumination wire, connect the **Orange/White** wire to it.
- If the aftermarket radio has a mute wire, connect the **Brown** wire to it. If the mute wire is not connected, the radio will turn off when OnStar® is activated.
- 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 **White** wire to the left front positive speaker output.
- Connect the **White/Black** wire to the left front negative speaker output.

The following (3) wires are only for multimedia/navigation radios that require these wires.

- Connect the **Blue/Pink** wire to the VSS/speed sense wire.
- Connect the **Green/Purple** wire to the reverse wire.
- Connect the **Light Green** wire to the parking brake wire
- Tape off and disregard the following (5) wires, they will not be used in this application: **Blue/White**, **Green**, **Green/Black**, **Purple** and **Purple/Black**.

From the AXDIS-GMLN44 Harness to the Aftermarket Radio:

- Connect the **Black** wire to the ground wire.
- Connect the **Yellow** wire to the battery wire.
- Cut off the resistors 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 speaker output.
- Ensure the (2) 4-pin Molex connectors are connected together.

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

- The **Black/Yellow** wire is used for OnStar® level adjustment for models that do not come equipped with steering wheel controls. Refer to the OnStar® level Adjustment section for further instructions.
- Disregard the **Pink** wire with a red bullet connector, it will not be used in this application.
- Connect the **Red** and **White** RCA jacks to the audio AUX-IN jacks of the aftermarket radio.
- Disregard the DIN jack and **Red** wire.

  Note: *The relay attached to the **AXDIS-GMLN44** harness is only for audible turn signal clicks. No extra steps are required to retain this feature, so leave the relay as-is.*

Continue to 3.5mm jack steering wheel control retention

Attention! This interface will work with models that are either non-amplified, analog amplified, or digital amplified. Please follow the instructions carefully for your model vehicle. Failure to do so will result in either no sound, or low sound. If you are unsure if your vehicle is factory amplified or not, please contact your local dealership.

For Models With an Analog Amplifier:

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

- Connect the **Red** wire to the accessory wire.
- Connect the **Blue/White** wire to the amp turn on wire. This wire must be connected to hear sound from the factory amplifier.
- If the aftermarket radio has an illumination wire, connect the **Orange/White** wire to it.
- If the aftermarket radio has a mute wire, connect the **Brown** wire to it. If the mute wire is not connected, the radio will turn off when OnStar® is activated.
- 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 **White** wire to the left front positive speaker output.
- Connect the **White/Black** wire to the left front negative speaker output.

The following (3) wires are only for multimedia/navigation radios that require these wires.

- Connect the **Blue/Pink** wire to the VSS/speed sense wire.
- Connect the **Green/Purple** wire to the reverse wire.
- Connect the **Light Green** wire to the parking brake wire
- Tape off and disregard the following (4) wires, they will not be used in this application: **Green**, **Green/Black**, **Purple**, **Purple/Black**.

From the AXDIS-GMLN44 Harness to the Aftermarket Radio:

- Connect the **Black** wire to the ground wire.
- Connect the **Yellow** wire to the battery wire.
- 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 speaker output.
- Disconnect the (2) 4-pin Molex connectors, and then attach the 4-pin to 4-pin resistor pad harness.
- The **Black/Yellow** wire is used for OnStar® level adjustment for models that do not come equipped with steering wheel controls. Refer to the OnStar® level Adjustment section for further instructions.
- Disregard the **Pink** wire with a red bullet connector, it will not be used in this application.
- Connect the **Red** and **White** RCA jacks to the audio AUX-IN jacks of the aftermarket radio.
- Disregard the DIN jack and **Red** wire.

Note: *The relay attached to the **AXDIS-GMLN44** harness is only for audible turn signal clicks. No extra steps are required to retain this feature, so leave the relay as-is.*

Continue to 3.5mm jack steering wheel control retention

Attention! This interface will work with models that are either non-amplified, analog amplified, or digital amplified. Please follow the instructions carefully for your model vehicle. Failure to do so will result in either no sound, or low sound. If you are unsure if your vehicle is factory amplified or not, please contact your local dealership.

For Models with a Digital Amplifier:

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

- Connect the **Red** wire to the accessory wire.
- Connect the **Blue/White** wire to the amp turn on wire. This wire must be connected to hear sound from the factory amplifier.
- If the aftermarket radio has an illumination wire, connect the **Orange/White** wire to it.
- If the aftermarket radio has a mute wire, connect the **Brown** wire to it. If the mute wire is not connected, the radio will turn off when OnStar® is activated.
- 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 **White** wire to the left front positive speaker output.
- Connect the **White/Black** wire to the left front negative speaker output.
- 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 only for multimedia/navigation radios that require these wires.

- Connect the **Blue/Pink** wire to the VSS/speed sense wire.
- Connect the **Green/Purple** wire to the reverse wire.
- Connect the **Light Green** wire to the parking brake wire

From the AXDIS-GMLN44 Harness to the Aftermarket Radio:

- Connect the **Black** wire to the ground wire.
- Connect the **Yellow** wire to the battery wire.
- Ensure the (2) 4-pin Molex connectors are connected together.

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

- The **Black/Yellow** wire is used for OnStar® level adjustment for models that do not come equipped with steering wheel controls. Refer to the OnStar® level Adjustment section for further instructions.
- Disregard the **Pink** wire with a red bullet connector, it will not be used in this application.
- Tape off and disregard the following (4) wires, they will not be used in this application: **Green**, **Green/Black**, **Purple**, **Purple/Black**
- Connect the **Red** and **White** RCA jacks to the audio AUX-IN jacks of the aftermarket radio.
- Disregard the DIN jack and **Red** wire.

Note: *The relay attached to the **AXDIS-GMLN44** harness is only for audible turn signal clicks. No extra steps are required to retain this feature, so leave the relay as-is.*

Continue to 3.5mm jack steering wheel control retention

CONNECTING THE AXDIS-GMLN44 *(CONT)*

3.5mm Jack Steering Wheel Control Retention:

- The 3.5mm jack is to be used to retain audio controls on the steering wheel.
  - For the radios listed below, connect the included *female 3.5mm connector with stripped leads,* to the male 3.5mm SWC jack from the **AXDIS-GMLN44** harness. Any remaining wires tape off and disregard.
    - **Eclipse:** Connect the steering wheel control wire, normally **Brown**, to the **Brown/White** wire of the connector. Then connect the remaining steering wheel control wire, normally **Brown/White**, to the **Brown** wire of the connector.
    - **Metra OE:** Connect the steering wheel control Key 1 wire **(Gray)** to the **Brown** wire.
    - **Kenwood or select JVC with a steering wheel control wire:** Connect the **Blue/Yellow** wire to the **Brown** wire.

      Note: *If your Kenwood radio auto detects as a JVC, manually set the radio type to Kenwood. See the instructions under changing radio type.*
    - **XITE:** Connect the steering wheel control SWC-2 wire from the radio to the **Brown** wire.
    - **Parrot Asteroid Smart or Tablet:** Connect the 3.5mm jack into the AXSWCH-PAR (sold separately), and then connect the 4-pin connector from the AXSWCH-PAR into the radio.

      Note: *The radio must be updated to rev. 2.1.4 or higher software.*
    - **Universal "2 or 3 wire" radio:** Connect the steering wheel control wire, referred to as Key-A or SWC-1, to the **Brown** wire of the connector. Then connect the remaining steering wheel control wire, referred to as Key-B or SWC-2, to the **Brown/White** wire of the connector. If the radio comes with a third wire for ground, disregard this wire.

      Note: *After the interface has been programmed to the vehicle, refer to the manual provided with the radio for assigning the SWC buttons. Contact the radio manufacturer for more information.*
  - **For all other radios:** Connect the 3.5mm jack from the **AXDIS-GMLN44** harness into the jack on the aftermarket radio designated for an external steering wheel control interface. Please refer to the aftermarket radios manual if in doubt as to where the 3.5mm jack goes to.

INSTALLING THE AXDIS-GMLN44

With the Key in the Off Position:

- Connect the 16-pin harness with stripped leads, and the **AXDIS-GMLN44** harness, into the interface.

Attention! *Do not connect the **AXDIS-GMLN44** harness to the wiring harness in the vehicle just yet.*

Attention! *If retaining steering wheel controls, ensure that the jack/wire is connected to the radio before proceeding. If this step is skipped, the interface will need to be reset for the steering wheel controls to function.*

PROGRAMMING THE AXDIS-GMLN44

For the steps below, the LED located inside the interface can only be seen while active. The interface does not need to be opened to see the LED.

1. Start the vehicle.
2. Connect the **AXDIS-GMLN44 harness** to the wiring harness in the vehicle.
3. The LED will initially turn on solid **Green**, then turn off for a few seconds while it auto detects the radio installed.
4. The LED will then flash **Red** up to (24) times indicating which radio is connected to the interface, and then turn off for a couple of seconds. Pay close attention to how many **Red** flashes there are. This will help in troubleshooting, if need be. Refer to the **LED Feedback** section for more information.
5. After a couple seconds the LED will turn on solid **Red** while the interface auto detects the vehicle. The radio will shut off at this point. This process should take 5 to 30 seconds.
6. Once the vehicle has been auto detected by the interface, the LED will turn on solid **Green**, and the radio will come back on, indicating programming was successful.
7. Test all functions of the installation for proper operation, before reassembling the dash. If the interface fails to function, refer to **Resetting the AXDIS-GMLN44**.

Note: *The LED will turn on solid **Green** for a moment, and then turn off under normal operation after the key has been cycled.*

ADJUSTING THE AXDIS-GMLN44

Audio level adjustment (digital amplified models only):

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

Chime level adjustment (digital amplified models only):

- 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 is at a desired level, remove the keys from the ignition. This will lock the chime volume at its current level.

OnStar® Level Adjustment

- Press the OnStar® button to activate it.
- While OnStar® is speaking, press the **VOLUME UP** or **VOLUME DOWN** button on the steering wheel to raise or lower the OnStar® level.
- If the vehicle does not come equipped with steering wheel controls, locate the **Black/Yellow** wire on the **AXDIS-GMLN44 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.

STEERING WHEEL CONTROL SETTINGS

LED Feedback

The (24) **Red LED** flashes represent a different radio manufacturer for the **AXDIS-GMLN44** to detect.

For example, if you are installing a JVC radio, the **AXDIS-GMLN44** will flash **Red** (5) times, then stop.

At right is the **LED Feedback Legend,** which indicates the flash count of the radio manufacturer.*

LED Feedback Legend

Flash Count	Radio
1	Eclipse (type 1) †
2	Kenwood ‡
3	Clarion (type 1) †
4	Sony / Dual
5	JVC
6	Pioneer / Jensen
7	Alpine *
8	Visteon
9	Valor
10	Clarion (type 2) †
11	Metra OE
12	Eclipse (type 2) †

Flash Count	Radio
13	LG
14	Parrot **
15	XITE
16	Philips
17	TBA
18	JBL
19	Insane
20	Magnadyne
21	Boss
22	Axxera
23	Axxerra (type 2)
24	Alpine (type 2)

KEYNOTES

*If the **AXDIS-GMLN44** flashes **RED** (7) times, and an **Alpine** radio is not installed, that means there is an open connection not accounted for. Verify that the 3.5mm jack is connected to the correct steering wheel jack/wire in the radio.

** The **AXSWCH-PAR** is required (sold separately). Also, the software in the radio must be rev. 2.1.4 or higher.

† If a **Clarion** or **Eclipse** radio is installed and the steering wheel controls do not function, change the radio to **Clarion (type 2)** or **Eclipse (type 2)** respectively. If the steering wheel controls still do not function, refer to the **Changing Radio Type** document available at axxessinterfaces.com.

‡ If a **Kenwood** radio is installed and the LED feedback flashes (5) times instead of (2), manually change the radio type to **Kenwood**. To do this, refer to the **Changing Radio Type** document on next page, also available at axxessinterfaces.com.

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Attention: The Axxess Updater App can also be used to program the following (3) sub-sections as well, pending that the interface has been initialized and programmed.

Changing Radio Type

If the LED flashes do not match the radio you have connected, you must manually program the **AXDIS-GMLN44** to tell it what radio it is connected to.

1. After (3) seconds of turning the key on, press and hold the **Volume-Down** button on the steering wheel until the LED in the **AXDIS-GMLN44** goes solid.
2. Release the **Volume-Down** button; the LED will go out indicating we are now in **Changing Radio Type** mode.
3. Refer to the **Radio Legend** to know which radio number you would like to have programmed.
4. Press and hold the **Volume-Up** button until the LED goes solid, and then release. Repeat this step for the desired radio number you have selected.
5. Once the desired radio number has been selected, press and hold the **Volume-Down** button on the steering wheel until the LED goes solid. The LED will remain on for about (3) seconds while it stores the new radio information.
6. Once the LED goes off, the **Changing Radio Type** mode will then end. You can now test the steering control wheel controls.

Note: *If at any time the user fails to press any button for a period longer than (10) seconds, this process will abort.*

Remapping the Steering Wheel Control Buttons

Let's say you have **AXDIS-GMLN44** initialized and you want to change the button assignment for the steering wheel control buttons. For example, you would like **Seek-Up** to become Mute. Follow the steps below to remap the steering wheel control buttons:

Flash Count Radio Legend		
1. Eclipse (type 1)	9. Valor	17. TBD
2. Kenwood	10. Clarion (type 2)	18. JBL
3. Clarion (type 1)	11. Metra OE	19. Insane
4. Sony / Dual	12. Eclipse (type 2)	20. Magnadyne
5. JVC	13. LG	21. Boss
6. Pioneer / Jensen	14. Parrot	22. Axxera
7. Alpine	15. XITE	23. Axxerra (type 2)
8. Visteon	16. Philips	24. Alpine (type 2)

1. Ensure the **AXDIS-GMLN44** is visible so you can see the LED flashes to confirm button recognition.
   Tip: *Turning the radio off is recommended.*
2. Within the first twenty seconds of turning the ignition on, press and hold the **Volume-Up** button on the steering wheel until the LED goes solid.
3. Release the **Volume-Up** button, the LED will then go out; The **Volume-Up** button has now been programmed.
4. Follow the list in the **Button Assignment Legend** to reference the order in which the steering wheel control buttons need to be programmed.

Note: *If the next function on the list is not on the steering wheel, press the **Volume-Up** button for (1) second until the LED comes on, and then release the **Volume-Up** button. This will tell the **AXDIS-GMLN44** that this function is not available and it will move on to the next function.*

5. To complete the remapping process, press and hold the **Volume-Up** button on the steering wheel until the LED in the **AXDIS-GMLN44** goes out.

Continued on the next page

Button Assignment Legend

1. Volume-Up
2. Volume-Down
3. Seek-Up/Next
4. Seek-Down/Prev
5. Source/Mode
6. Mute
7. Preset-Up
8. Preset-Down
9. Power
10. Band
11. Play/Enter
12. PTT (Push to Talk) *
13. On-Hook *
14. Off-Hook *
15. Fan-Up *
16. Fan-Down *
17. Temp-Up *
18. Temp-Down *

* *Not applicable in this application*

Note: *Not all radios will have all of these commands. Please refer to the manual provided with the radio, or contact the radio manufacturer for specific commands recognized by that particular radio.*

Dual Assignment Instructions (Long Button Press)

The **AXDIS-GMLN44** has the capability to assign (2) functions to a single button, except **Volume-Up** and **Volume-Down**. Follow the steps below to program the button(s) to your liking.

Note: ***Seek-Up*** *and* ***Seek-Down*** *come pre-programmed as Preset-Up and Preset-Down for a long button press.*

1. Turn on the ignition but do not start the vehicle.
2. Press and hold down the steering wheel control button that you want to assign a long press function to for about (10) seconds, or until the LED flashes rapidly. At this point release the button; the LED will then go solid.
3. Press and release the **Volume-Up** button the number of times corresponding to the new button number selected. Refer to the **Dual Assignment Legend**. The LED will flash rapidly while the **Volume-Up** button is being pressed, and then go back to a solid LED once released. Go to the next step once the **Volume-Up** button has been pressed the desired number of times.

   Caution: *If more than (10) seconds elapses between pressing the* ***Volume-Up*** *button, this procedure will abort, and the LED will go out.*
4. To store the long press button in memory, press the button that you assigned a long press button to (the button held down in Step 2). The LED will now go off indicating the new information has been stored.

   Note: *These steps must be repeated for each button you would like to assign a dual purpose feature to. To reset a button back to its default state, repeat Step 1, and then press the* ***Volume-Down*** *button. The LED will go out, and the long press mapping for that button will be erased.*

Continued on the next page

STEERING WHEEL CONTROL SETTINGS *(CONT)*

Dual Assignment Legend

1. Not allowed
2. Not allowed
3. Seek-Up/Next
4. Seek-Down/Prev
5. Mode/Source
6. ATT/Mute
7. Preset-Up
8. Preset-Down
9. Power
10. Band
11. Play/Enter
12. PTT
13. On-Hook
14. Off-Hook
15. Fan-Up *
16. Fan-Down *
17. Temp-Up *
18. Temp-Down *

** Not applicable in this application*

TROUBLESHOOTING

Resetting the AXDIS-GMLN44

1. The **Blue** reset button is located inside the interface, between the two connectors. The button is accessible outside the interface, no need to open the interface.
2. Press and hold the reset button for two seconds, and then let go to reset the interface.
3. Refer to “Programming the Interface” from this point.

Having difficulties? We're here to help.

Contact our Tech Support line at:
386-257-1187

Or via email at:
techsupport@metra-autosound.com

Tech Support Hours (Eastern Standard Time)

Monday - Friday: 9:00 AM - 7:00 PM
Saturday: 10:00 AM - 5:00 PM
Sunday: 10:00 AM - 4:00 PM

Metra recommends MECP certified technicians