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

INTERFACE COMPONENTS

- AXDIS-CL2 interface
- 16-pin harness with stripped leads
- Female 3.5mm connector with stripped leads
- AXDIS-CL2 harness
- 4-pin to 4-pin resistor pad

GM **Data Interface with SWC** 2000-2013

INTERFACE FEATURES

- Designed for 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 RSE (Rear Seat Entertainment) *
- Retains SAT (satellite radio)
- Retains balance and fade (excludes digital amplified models)
- Micro "B" USB updatable

* The RSE must be activated by the factory radio

TOOLS REQUIRED

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

APPLICATIONS

See inside front cover

TABLE OF CONTENTS

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 accessory before installing this device.

BUICK

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

CADILLAC

Escalade, Escalade ESV & EXT †
.... 2003-2006

CHEVROLET

Avalanche ** 2003-2006
Cavalier 2000-2005
Colorado 2004-2012
Corvette 2005-2013

CHEVROLET (CONT)

Express 2003-2007
Impala 2000-2005
Kodiak C4500-C8500 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 * 2002-2004
Trailblazer 2005-2009
Uplander 2005-2008

GMC

Canyon 2004-2012
Envoy * 2002-2004
Envoy 2005-2009
Savana 2003-2007
Sierra ** 2003-2006
Sierra Classic ** 2007
TopKick C4500-C8500 2005-2009
Yukon / Yukon XL ** 2003-2006

HUMMER

H2 † 2003-2007
H3/H3t 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
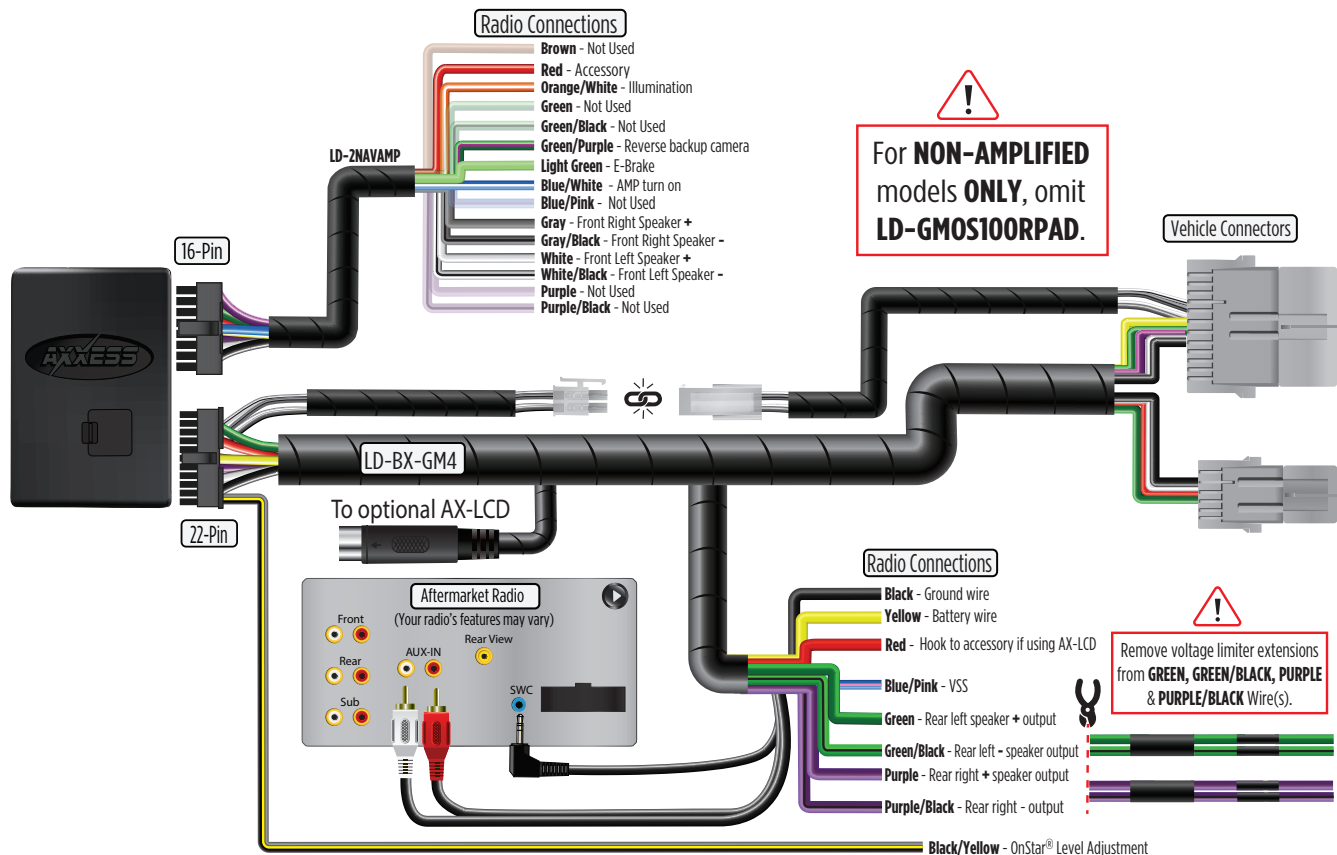
SATURN

Relay 2005-2007

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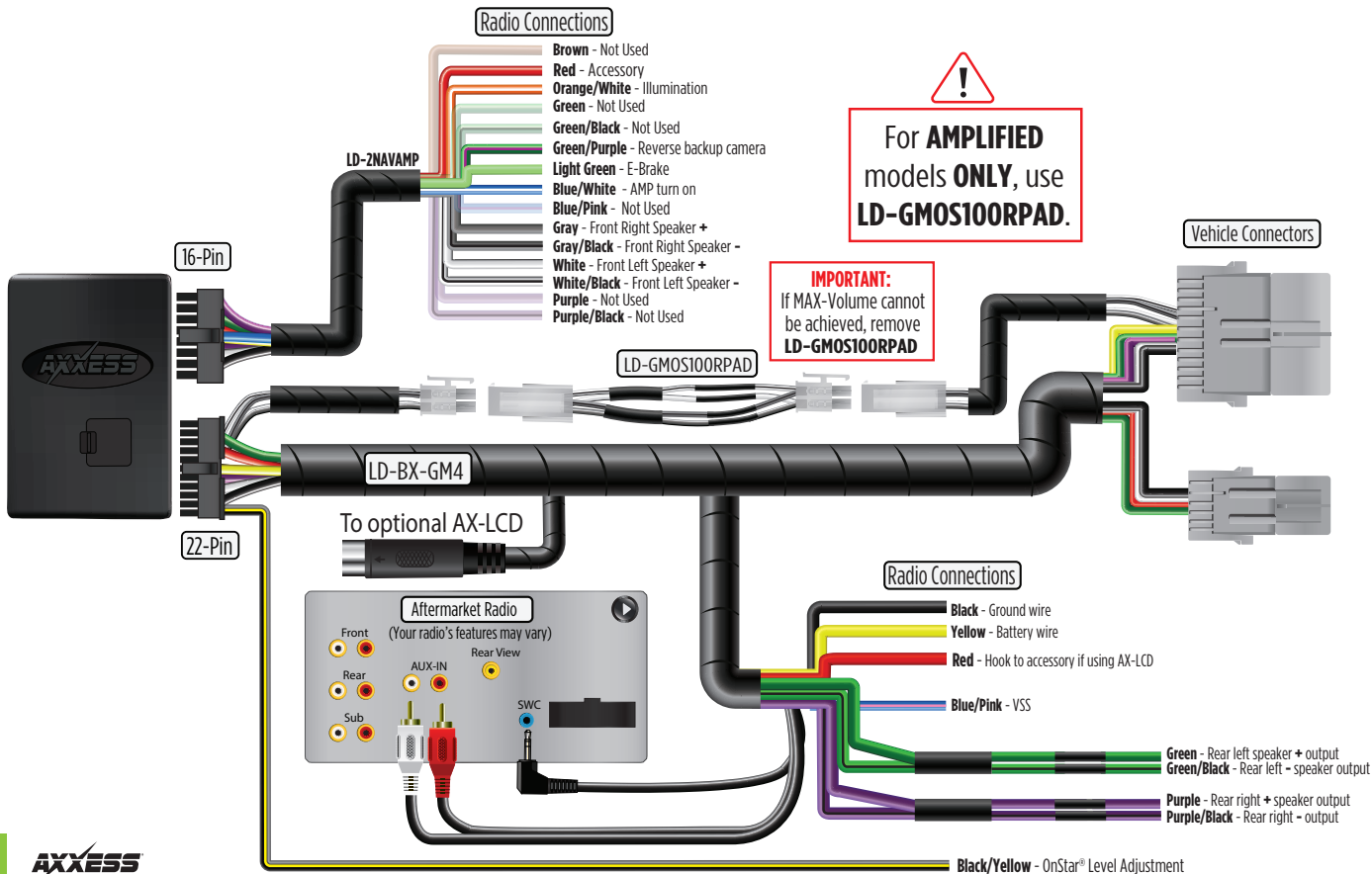
** These vehicles have a digital amp option. Please reference the "Service Parts Identification" sticker located in the glove box for the RPO code Y91. If Y91 is present, then the vehicle is equipped with a digital amplifier.

† These vehicles are standard for a digital amplifier.

CONNECTIONS: FOR NON-AMPLIFIED MODELS

Radio Connections

Brown - Not Used
Red - Accessory
Orange/White - Illumination
Green - Not Used
Green/Black - Not Used
Green/Purple - Reverse backup camera
Light Green - E-Brake
Blue/White - AMP turn on
Blue/Pink - Not Used
Gray - Front Right Speaker **+**
Gray/Black - Front Right Speaker **–**
White - Front Left Speaker **+**
White/Black - Front Left Speaker **–**
Purple - Not Used
Purple/Black - Not Used

LD-2NAVAMP

16-Pin

22-Pin

LD-BX-GM4

To optional AX-LCD

! For **NON-AMPLIFIED** models **ONLY**, omit **LD-GMOS100RPAD**.

Vehicle Connectors

Aftermarket Radio
(Your radio's features may vary)

Front
Rear
Sub
AUX-IN
Rear View
SWC

Radio Connections

Black - Ground wire
Yellow - Battery wire
Red - Hook to accessory if using AX-LCD
Blue/Pink - VSS
Green - Rear left speaker **+** output
Green/Black - Rear left **–** speaker output
Purple - Rear right **+** speaker output
Purple/Black - Rear right **–** output

Black/Yellow - OnStar® Level Adjustment

! Remove voltage limiter extensions from **GREEN, GREEN/BLACK, PURPLE** & **PURPLE/BLACK** Wire(s).

Radio Connections

Brown - Not Used
Red - Accessory
Orange/White - Illumination
Green - Not Used
Green/Black - Not Used
Green/Purple - Reverse backup camera
Light Green - E-Brake
Blue/White - AMP turn on
Blue/Pink - Not Used
Gray - Front Right Speaker **+**
Gray/Black - Front Right Speaker **–**
White - Front Left Speaker **+**
White/Black - Front Left Speaker **–**
Purple - Not Used
Purple/Black - Not Used

LD-2NAVAMP

16-Pin

!

For **AMPLIFIED** models **ONLY**, use **LD-GMOS100RPAD**.

Vehicle Connectors

IMPORTANT:
If MAX-Volume cannot be achieved, remove **LD-GMOS100RPAD**

LD-GMOS100RPAD

LD-BX-GM4

22-Pin

To optional AX-LCD

Aftermarket Radio
(Your radio's features may vary)

Front
Rear
Sub

AUX-IN

Rear View

SWC

Radio Connections

Black - Ground wire
Yellow - Battery wire
Red - Hook to accessory if using AX-LCD
Blue/Pink - VSS
Green - Rear left speaker **+** output
Green/Black - Rear left **–** speaker output
Purple - Rear right **+** speaker output
Purple/Black - Rear right **–** output

Black/Yellow - OnStar® Level Adjustment

With the key in the off position:

- Connect the 16-pin harness with stripped leads, and the AXDIS-CL2 harness, into the interface.

Attention! *Do not connect the AXDIS-CL2 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.*

There are (2) different methods for programming the AXDIS-CL2, depending on the vehicle being worked on.

For the following applications:

BUICK
Century 2004-2005
LaCrosse 2005-2009
Regal 2004
Rendezvous 2002-2007
Terraza 2005-2007

CHEVROLET
Corvette 2005-2013
Impala 2000-2005
Monte Carlo 2000-2005
Uplander 2005-2008

OLDSMOBILE
Alero 2001-2004
Intrigue 2002

PONTIAC
Aztec 2001-2005
Grand Am 2001-2005
Grand Prix 2004-2008
Montana SV6 2005-2006

SATURN
Relay 2005-2007

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

1. Start the vehicle.
2. Connect the AXDIS-CL2 harness to the wiring harness in the vehicle.
3. The L.E.D. will initially turn on solid **Green**, then turn off for a few seconds while it auto detects the radio installed.
4. The L.E.D. will then flash **Red** up to (18) 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 L.E.D. feedback section for more information.
5. After a couple seconds the L.E.D. 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 L.E.D. will turn on solid **Green**, and the radio will come back on, indicating programming was successful.

7. Immediately after the radio comes back on, the following buttons on the steering wheel must be pressed in the exact sequence as shown. For each button press, the L.E.D. will turn on momentarily. If a button is not present, press Volume Up to skip that button.

   • Volume Up • Seek Up • Volume Up • PTT (OnStar®) or MUTE • Volume Up

8. The L.E.D. will turn on after the last Volume Up button has been pressed, indicating programming has ended.

9. Test all functions of the installation for proper operation, before reassembling the dash.

10. If the interface fails to function, refer to Resetting the AXDIS-CL2, then resume from step 7.

Notes:

• PTT (OnStar®) when pressed will Mute/Attenuate the radio.

• PTT (OnStar®) when pressed and held for 2 seconds will activate OnStar®, if applicable.

For all other applications:

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

1. Start the vehicle.

2. Connect the AXDIS-CL2 harness to the wiring harness in the vehicle.

3. The L.E.D. will initially turn on solid **Green**, then turn off for a few seconds while it auto detects the radio installed.

4. The L.E.D. will then flash **Red** up to (18) 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 L.E.D. feedback section for more information.

5. After a couple seconds the L.E.D. 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 L.E.D. 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.

8. If the interface fails to function, refer to Resetting the AXDIS-CL2.

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

ADJUSTING THE AXDIS-CL2

EXTRA FEATURES

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-CL2 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.

AUX-IN, RSE and SAT:

- If your vehicle comes equipped with AUX-IN, rear seat entertainment, or satellite radio, the AXDIS-CL2 can retain these features.

- Change the source of the radio to AUX-IN; 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 while using satellite radio:

  - Arrow up—Channel up

  - Arrow down—Channel down

  - Enter—Selects current item on the screen

  - Return/ESC—Exits to the previous screen

- To access advanced features of the satellite radio, press and hold the SOURCE button on the steering wheel for 3 seconds.

  Note: *If the vehicle is not equipped with steering wheel controls, the AX-LCD will be required for this feature.*

- Listed below are the functions of the steering wheel control buttons while accessing the advanced features:

  - SEEK UP – Scrolls menu up.

  - SEEK DOWN – Scrolls menu down.

  - VOLUME UP – Enter

- Listed below are the advanced menu options:

  - Show Text – Exits menu.

  - Set Tuning Mode – Allows the user to select tuning by preset or channel.

  - Set Preset – Allows the user to program presets.

  - Set Display – Allows the user to choose which satellite radio information should be displayed.

  Note: *If using the AX-LCD, SEEK UP controls the top line on the display; SEEK DOWN the bottom line.*

  - Set Satellite Radio Text Mode - Allows the user to set the display length of the satellite radio information. Options are; On, Off, or 5 seconds (default is 5 seconds).

- To access AUX-IN or rear seat entertainment, press and hold the SOURCE button on the steering wheel for 2 seconds. This will switch to the next source available. Each time the SOURCE button is pressed for 2 seconds the source will change. The sequence of sources are SAT/RSE/AUX-IN. The AX-LCD will provide a visual confirmation of what source you are on.

STEERING WHEEL CONTROL SETTINGS

L.E.D. Feedback: The (24) **Red L.E.D.** flashes represent a different radio manufacturer for the **SWC interface** to detect. For example, if you are installing a **JVC** radio, the **SWC interface** will flash **Red** (5) times, then stop. Following is the **L.E.D Feedback Legend**, which indicates the flash count of the radio manufacturer.

L.E.D. Feedback Legend

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

KEYNOTES

* If the **SWC interface** 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 L.E.D. feedback flashes (5) times instead of (2), manually change the radio type to **Kenwood**. To do this, refer to the **Changing Radio Type** document available at **axxessinterfaces.com**.

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-CL2 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 L.E.D. in the AXDIS-CL2 goes solid.

2. Release the Volume-Down button; the L.E.D. 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 L.E.D. 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 L.E.D. goes solid. The L.E.D. will remain on for about (3) seconds while it stores the new radio information.

6. Once the L.E.D. 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.*

Radio legend

1. Eclipse (Type 1)	12. Eclipse (Type 2)	18. TBA
2. Kenwood	13. LG	19. Insane
3. Clarion (Type 1)	14. Parrot	20. Magnadyne
4. Sony/Dual	15. XITE	21. Boss
5. JVC	16. Philips	22. Axxera
6. Pioneer/Jensen	17. TBD12. Eclipse (Type 2)	23. Axxerra (Type 2)
7. Alpine	13. LG	24. Alpine (Type 2)
8. Visteon	14. Parrot	
9. Valor	15. XITE	
10. Clarion (Type 2)	16. Philips	
11. Metra OE	17. TBA	

Remapping the steering wheel control buttons

Let's say you have AXDIS-CL2 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:

1. Ensure the AXDIS-CL2 is visible so you can see the L.E.D. 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 L.E.D. goes solid.

3. Release the Volume-Up button, the L.E.D. 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 L.E.D. comes on, and then release the Volume-Up button. This will tell the AXDIS-CL2 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 L.E.D. in the AXDIS-CL2 goes out.

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-CL2 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 L.E.D. flashes rapidly. At this point release the button; the L.E.D. 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 L.E.D. will flash rapidly while the Volume-Up button is being pressed, and then go back to a solid L.E.D. 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 L.E.D. 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 L.E.D. 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 L.E.D. will go out, and the long press mapping for that button will be erased.*

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-CL2

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

mobile electronics certification program