



## GM Data Interface with SWC 2019-Up

### INTERFACE FEATURES

- Provides accessory power (12-volt 10-amp)
- Retains R.A.P. (retained accessory power)
- Provides NAV outputs (parking brake, reverse, speed sense)
- Retains audio controls on the steering wheel
- Non-amplified models only
- Rearview camera retention
- Retains balance and fade
- Micro-B USB updatable

### INTERFACE COMPONENTS

- AXDIS-GMLN31 interface • AXDIS-GMLN31 harness
- 16-pin harness with stripped leads
- Female 3.5mm connector with stripped leads

### APPLICATIONS

#### Chevrolet

Camaro (IOR) ***	2019-Up	Equinox (IOR)	2019-Up	Spark (IOR)	2019-Up
Cheyenne (IOR)	2019-Up	Malibu (IOR)	2019-Up	Trax (IOR)	2019-Up
Colorado (IOR)	2019-Up	Silverado (IOR)	2019-Up		
Cruze	2019-Up	Sonic	2019-Up		

\*\*\* No Backup Camera Retention

#### GMC

Canyon (IOR)	2019-Up
Sierra 1500 (IOR)	2019-Up
Terrain (IOR)	2019-Up

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### TOOLS REQUIRED

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

### Product Info



## CONNECTIONS TO BE MADE

### 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.
- 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-GMLN31 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.
- Connect the **Yellow** RCA jack into the aftermarket radio's 'Rear Camera' input.

**Note:** *The relay attached to the 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*

## CONNECTIONS TO BE MADE (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-GMLN31 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-GMLN31 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-GMLN31

### With the key in the off position:

- Connect the 16-pin harness with stripped leads, and the AXDIS-GMLN31 harness, into the interface.

**Attention!** Do not connect the AXDIS-GMLN31 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-GMLN31

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.

- Start the vehicle.
- Connect the AXDIS-GMLN31 harness to the wiring harness in the vehicle.
- The L.E.D. will initially turn on solid **Green**, then turn off for a few seconds while it auto detects the radio installed.
- 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.
- 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.
- 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.
- Test all functions of the installation for proper operation, before reassembling the dash. If the interface fails to function, refer to Resetting the AXDIS-GMLN31.

**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.*

# STEERING WHEEL CONTROL SETTINGS

## L.E.D. feedback

The (18) **Red** L.E.D. flashes represent what brand radio the AXDIS-GMLN31 believes it is connected to. Each flash represents a different radio manufacturer. For example, if you are installing a JVC radio, the AXDIS-GMLN31 will flash (5) times. Following is a legend that dictates which manufacturer corresponds to which flash.

## L.E.D. feedback legend

1 flash - Eclipse (Type 1) †	10 flashes - Clarion (Type 2) †
2 flashes - Kenwood ‡	11 flashes - Metra OE
3 flashes - Clarion (Type 1) †	12 flashes - Eclipse (Type 2) †
4 flashes - Sony / Dual	13 flashes - LG
5 flashes - JVC	14 flashes - Parrot **
6 flashes - Pioneer / Jensen	15 flashes - XITE
7 flashes - Alpine *	16 flashes - Philips
8 flashes - Visteon	17 flashes - TBD
9 flashes - Valor	18 flashes - JBL

\* **Note:** If the AXDIS-GMLN31 flashes Red (7) times, and you do not have an Alpine radio connected to it, that means the AXDIS-GMLN31 does not detect a radio connected to it. Verify that the 3.5mm jack is connected to the correct steering wheel jack/wire in the radio.

\*\* **Note:** Part number AXSWCH-PAR is required (sold separately). Also, the Parrot radio must be updated to rev. 2.1.4 or higher through [www.parrot.com](http://www.parrot.com).

† **Note:** If you have a Clarion radio and the steering wheel controls do not work, change the radio type to the other Clarion radio type; same for Eclipse. The following section explains how to do this.

‡ **Note:** If you have a Kenwood radio and the L.E.D. feedback comes back as showing as a JVC radio, change the radio type to a Kenwood. The following section explains how to do this.

**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-GMLN31 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-GMLN31 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.

*Continued on the next page*

## STEERING WHEEL CONTROL SETTINGS (CONT)

### Radio legend

- |                     |                      |             |
|---------------------|----------------------|-------------|
| 1. Eclipse (Type 1) | 7. Alpine            | 13. LG      |
| 2. Kenwood          | 8. Visteon           | 14. Parrot  |
| 3. Clarion (Type 1) | 9. Valor             | 15. XITE    |
| 4. Sony/Dual        | 10. Clarion (Type 2) | 16. Philips |
| 5. JVC              | 11. Metra OE         | 17. TBD     |
| 6. Pioneer/Jensen   | 12. Eclipse (Type 2) | 18. JBL     |

### Remapping the steering wheel control buttons

Let's say you have AXDIS-GMLN31 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-GMLN31 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-GMLN31 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-GMLN31 goes out.

### Button assignment legend

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

*Continued on the next page*

## STEERING WHEEL CONTROL SETTINGS *(CONT)*

### Dual assignment instructions (long button press)

The AXDIS-GMLN31 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.*

### Dual assignment legend

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

*\* Not applicable in this application*



## TROUBLESHOOTING

### Resetting the AXDIS-GMLN31

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](mailto:techsupport@metra-autosound.com)

### Tech Support Hours (Eastern Standard Time)

Monday - Friday: 9:00 AM - 7:00 PM

Saturday: 10:00 AM - 7:00 PM

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