



Chrysler Data Interface with SWC 2013-2023

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
- Retains safety chimes
- Retains the factory backup camera (if through the factory radio)
- Retains the factory AUX-IN jack
- Retains balance and fade
- Micro-B USB updatable

Visit AxxessInterfaces.com for more detailed information about the product and up-to-date vehicle specific applications

INTERFACE COMPONENTS

- AXDIS-CH5 interface
- AXDIS-CH5 harness
- 16-pin harness with stripped leads
- 4-pin harness with stripped leads
- Female 3.5mm connector with stripped leads

APPLICATIONS

CHRYSLER

200 LX2015-2016

DODGE

Dart (small screen option)2013-2016

JEEP

Cherokee Sport 2014-2016

Compass Sport 2017.5-2018

RAM

1500/2500/3500 (small screen option) 2013-2018

RAM cont.

Chassis Cab 3500/4500/5500 (small screen option)2013-2018

1500/2500/3500 (small screen option) 2019-2023 (Classic)

Chassis Cab 3500/4500/5500 (small screen option) 2019-2023 (Classic)

TABLE OF CONTENTS

Connections	2-3
Installation	3
Programming	4
Steering wheel control settings	4-6
- L.E.D. feedback	4
- Changing radio type	5
- Remapping	5-6
- Dual assignment (long button press)	6-7
Troubleshooting	7

TOOLS REQUIRED

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

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.

CONNECTIONS

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

- Connect the **Red** wire to the accessory wire.

Note: If installing an AX-LCD (sold separately), there will be an accessory wire from the AXDIS-CH5 harness to connect as well.

- If the aftermarket radio has an illumination wire, connect the **Orange/White** wire to it.

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 (10) wires, they will not be used in this application: **Blue/White, Brown, Gray, Gray/Black, Green, Green/Black, Purple, Purple/Black, White and White/Black.**

From the AXDIS-CH5 harness to the aftermarket radio:

- Connect the **Black** wire to the ground wire.
- Connect the **Yellow** wire to the battery wire.
- 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.
- Disconnect the (2) 4-pin connectors that have **Green, Green/Black, Purple, and Purple/Black** wires.
- Connect the 4-pin harness with stripped leads to the 4-pin connector from the gray 22-pin connector.
- 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.
- If retaining the factory backup camera, connect the **Yellow** RCA jack to the reverse camera input.
- If the AUX-IN jack in the dash is desired to be used, connect the **Red** and **White** RCA jacks to the audio AUX-IN jacks of the aftermarket radio.
- The DIN jack is to be used with the optional AX-LCD (sold separately) to retain the personalization features of the vehicle.
 - Connect the **Red** wire to the accessory wire.

Continue to 3.5mm jack steering wheel control retention

CONNECTIONS (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-CH5 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-CH5 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.

INSTALLATION

With the key in the off position:

- Connect the 16-pin harness with stripped leads, and the AXDIS-CH5 harness, into the interface.

Attention! Do not connect the AXDIS-CH5 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

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-CH5** 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-CH5**.

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 (23) **Red** L.E.D. flashes represent what brand radio the **AXDIS-CH5** believes it is connected to. Each flash represents a different radio manufacturer. For example, if you are installing a JVC radio, the **AXDIS-CH5** will flash (5) times.

Following is a legend that dictates which manufacturer corresponds to which flash.

L.E.D. Feedback legend

Flash Count	Radio	Flash Count	Radio	Flash Count	Radio
1	Eclipse (Type 1) †	9	Valor	17	TBA
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		

* **Note:** If the AXDIS-CH5 flashes Red (7) times, and you do not have an Alpine radio connected to it, that means the AXDIS-CH5 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.

† **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.

Continued on the next page

STEERING WHEEL CONTROL SETTINGS (CONT)

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-CH5 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-CH5 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 (next page) 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) | 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. Axxera (Type 2) |
| 8. Visteon | 16. Philips | |

Remapping the steering wheel control buttons

Let's say you have AXDIS-CH5 initialized and you want to change the button assignment for the steering wheel controls. For example, you would like "Seek-Up" to be "Mute". Follow the steps below to remap the steering wheel control buttons:

1. Ensure the AXDIS-CH5 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 20 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 "Volume-Up", the L.E.D. will then go out; "Volume-Up" 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.

Continued on the next page

STEERING WHEEL CONTROL SETTINGS (CONT)

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-CH5 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-CH5 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.

Dual assignment (long button press)

The AXDIS-CH5 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.

Continued on the next page

STEERING WHEEL CONTROL SETTINGS

(CONT)

Dual Assignment Legend

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

* Not applicable in this application

TROUBLESHOOTING

Resetting the AXDIS-CH5

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** section from this point.



AXDIS-CH5

INSTALLATION INSTRUCTIONS



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 - 7:00 PM

Sunday: 10:00 AM - 4:00 PM



KNOWLEDGE IS POWER

Enhance your installation and fabrication skills by enrolling in the most recognized and respected mobile electronics school in our industry. Log onto www.installerinstitute.edu or call 386-672-5771 for more information and take steps toward a better tomorrow.



**Metra recommends MECP
certified technicians**