Chrysler SWC (Steering Wheel Control) and Data Interface 2004-Up

INTERFACE FEATURES

• Provides accessory power (10-amp)
• Provides wires for multimedia radios (park brake, reverse, speed sense)
• Retains audio controls on the steering wheel
• Can be used in both amplified and non-amplified models
• Retains balance and fade (*)
• Designed to be compatible with all major radio brands
• Auto detects vehicle type, radio connection, and preset controls
• Ability to dual assign steering wheel control buttons
• Retains memory settings even after battery disconnection or interface removal (non volatile memory)
• Provides illumination output
• Micro-B USB updatable

TABLE OF CONTENTS

Applications.............................................................2
Connections
LDSWCX-6502 Without Amp ....................................3
LDSWCX-6502 With Amp .........................................4
LDSWCX-6522 Without Amp ....................................5
LDSWCX-6522 With Amp .........................................6
Programming..........................................................7
Troubleshooting.......................................................8

TOOLS & INSTALLATION ACCESSORIES REQUIRED

• Crimping tool and connectors, or solder gun, solder, and heat shrink • Tape • Wire cutter
• Zip ties

INTERFACE COMPONENTS

• AXTC-CH013 interface • LD-SWCX-6502 harness • LD-SWCX-6522 harness • 3.5mm adapter

(†) Non-amplified models only

APPLICATIONS

See inside front cover
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>300</td>
<td>2005-2007</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aspen</td>
<td>2007</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PT Cruiser</td>
<td>2006-2010</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dodge</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Caliber</td>
<td>2007-2008</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Charger</td>
<td>2006-2007</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dakota</td>
<td>2005-2007</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Durango</td>
<td>2004-2007</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Magnum</td>
<td>2005-2007</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ram 1500</td>
<td>2006-2008</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ram 2500/3500</td>
<td>2006-2009</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ram Chassis Cab 4500/5500</td>
<td>2008-2010</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jeep</td>
<td></td>
<td>2006-2007</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Commander</td>
<td></td>
<td></td>
<td>2006-2007</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Compass</td>
<td></td>
<td>2007-2008</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grand Cherokee</td>
<td></td>
<td>2005-2007</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patriot</td>
<td></td>
<td>2007-2008</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mitsubishi</td>
<td></td>
<td></td>
<td>2006-2007</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Raider</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dodge</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Avenger</td>
<td></td>
<td></td>
<td></td>
<td>2008-2014</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Caliber</td>
<td></td>
<td></td>
<td></td>
<td>2009-2012</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Caravan, Grand Caravan</td>
<td></td>
<td></td>
<td></td>
<td>2008-up</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Challenger</td>
<td></td>
<td></td>
<td></td>
<td>2008-2014</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Charger</td>
<td></td>
<td></td>
<td></td>
<td>2008-2010</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dakota</td>
<td></td>
<td></td>
<td></td>
<td>2008-2011</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Durango</td>
<td></td>
<td></td>
<td></td>
<td>2008-2013</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Journey</td>
<td></td>
<td></td>
<td></td>
<td>2009-2010</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Magnum</td>
<td></td>
<td></td>
<td></td>
<td>2008-2009</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nitro</td>
<td></td>
<td></td>
<td></td>
<td>2007-2011</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ram 1500</td>
<td></td>
<td></td>
<td></td>
<td>2009-2011</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ram 2500/3500</td>
<td></td>
<td></td>
<td></td>
<td>2010-2011</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ram Chassis Cab 4500/5500</td>
<td></td>
<td></td>
<td></td>
<td>2011</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
LD-SWCX-6502 CONNECTIONS

Without Factory Amp

Vehicle Connector

Reset Button

LED Light

Aftermarket Radio
(radio’s features may vary)

3.5mm Adapter (for radios with a wire for SWC)

Boss (with SWC wire): Key 1 (Gray) - Brown
Kenwood / JVC (with SWC wire): Blue/Yellow - Brown
XITE: SWC-2 - Brown
Universal Radio*: Key-A or SWC-1 - Brown
Key-B or SWC-2 - Brown/White
* After programming, assign SWC buttons within radio menu

Radio Connections

Black - Ground
Yellow - Battery power
Red - Accessory power
Orange - Illumination
Blue - Power Antenna
Not Used
Blue/Pink - VSS/Speed-Sense
Green/Purple - Reverse signal
Light Green - Parking brake
Gray - Front right speaker +
Gray/Black - Front right speaker -
White - Front left speaker +
White/Black - Front left speaker -
Green - Rear left speaker +
Green/Black - Rear left speaker -
Purple - Rear right speaker +
Purple/Black - Rear right speaker -

Boss (with SWC wire):
Key 1 (Gray) - Brown
Kenwood / JVC (with SWC wire):
Blue/Yellow - Brown
XITE: SWC-2 - Brown
Universal Radio*:
Key-A or SWC-1 - Brown
Key-B or SWC-2 - Brown/White
* After programming, assign SWC buttons within radio menu
With Factory Amp

3.5mm Adapter (for radios with a wire for SWC)

- **Boss (with SWC wire):** Key 1 (Gray) - Brown
- **Kenwood / JVC (with SWC wire):** Blue/Yellow - Brown
- **XITE:** SWC-2 - Brown
- **Universal Radio**: Key-A or SWC-1 - Brown
- **Key-B or SWC-2:** Brown/White

* After programming, assign SWC buttons within radio menu

---

Vehicle Connector

**Radio Connections**
- **Black** - Ground
- **Yellow** - Battery power
- **Red** - Accessory power
- **Orange** - Illumination
- **Blue** - Power Antenna
- **Blue/White** - Amp turn-on
- **Blue/Pink** - VSS/Speed-Sense
- **Green/Purple** - Reverse signal
- **Light Green** - Parking brake

**Not Used**
- **Green** - Front left speaker +
- **Green/Black** - Front left speaker -
- **Purple** - Front right speaker +
- **Purple/Black** - Front right speaker -
Without Factory Amp

- Reset Button
- LED Light

**Vehicle Connector**

**Radio Connections**
- Black - Ground
- Yellow - Battery power
- Red - Accessory power
- Orange - Illumination
- Blue - Power Antenna
- Not Used
- Blue/Pink - VSS/Speed-Sense
- Green/Purple - Reverse signal
- Light Green - Parking brake
- Gray - Front left speaker +
- Gray/Black - Front left speaker -
- White - Front right speaker +
- White/Black - Front right speaker -
- Green - Rear left speaker +
- Green/Black - Rear left speaker -
- Purple - Rear right speaker +
- Purple/Black - Rear right speaker -

**3.5mm Adapter (for radios with a wire for SWC)**
- **Boss (with SWC wire):** Key 1 (Gray) - Brown
- **Kenwood / JVC (with SWC wire):** Blue/Yellow - Brown
- **XITE:** SWC-2 - Brown
- **Universal Radio*:** Key-A or SWC-1 - Brown, Key-B or SWC-2 - Brown/White
  
* After programming, assign SWC buttons within radio menu

**Aftermarket Radio** (radio’s features may vary)

**Connection Descriptions**
- **Black:** Ground
- **Yellow:** Battery power
- **Red:** Accessory power
- **Orange:** Illumination
- **Blue:** Power Antenna
- **Blue/Pink:** VSS/Speed-Sense
- **Green/Purple:** Reverse signal
- **Light Green:** Parking brake
- **Gray:** Front right speaker +
- **Gray/Black:** Front right speaker -
- **White:** Front left speaker +
- **White/Black:** Front left speaker -
- **Green:** Rear left speaker +
- **Green/Black:** Rear left speaker -
- **Purple:** Rear right speaker +
- **Purple/Black:** Rear right speaker -
With Factory Amp

- Reset Button
- LED Light

Vehicle Connector

Radio Connections
- Black - Ground
- Yellow - Battery power
- Red - Accessory power
- Orange - Illumination
- Blue - Power Antenna
- Blue/White - Amp turn-on
- Blue/Pink - VSS/Speed-Sense
- Green/Purple - Reverse signal
- Light Green - Parking brake
- Not Used

Aftermarket Radio (radio's features may vary)

- Front
- Rear
- Sub
- AUX-IN
- Rear View
- SWC

3.5mm Adapter (for radios with a wire for SWC)

- Boss (with SWC wire): Key 1 (Gray) - Brown
- Kenwood / JVC (with SWC wire): Blue/Yellow - Brown
- XITE: SWC-2 - Brown
- Universal Radio*: Key-A or SWC-1 - Brown
- Key-B or SWC-2 - Brown/White

* After programming, assign SWC buttons within radio menu

3.5mm Adapter (for radios with a wire for SWC)

- Boss (with SWC wire): Key 1 (Gray) - Brown
- Kenwood / JVC (with SWC wire): Blue/Yellow - Brown
- XITE: SWC-2 - Brown
- Universal Radio*: Key-A or SWC-1 - Brown
- Key-B or SWC-2 - Brown/White

* After programming, assign SWC buttons within radio menu

3.5mm Adapter (for radios with a wire for SWC)

- Boss (with SWC wire): Key 1 (Gray) - Brown
- Kenwood / JVC (with SWC wire): Blue/Yellow - Brown
- XITE: SWC-2 - Brown
- Universal Radio*: Key-A or SWC-1 - Brown
- Key-B or SWC-2 - Brown/White

* After programming, assign SWC buttons within radio menu
PROGRAMMING

1. Open the driver’s door, and keep open during the programming process.

2. Cycle the ignition on.

3. Connect the appropriate LD-SWCX harness to the AXTC-CH013 interface, and then to the wiring harness in the vehicle.

4. Locate the Volume Up button behind the steering wheel on the right hand side. Program the interface by tapping the Volume Up button at a heartbeat pace until the LED light stops flashing.

5. The LED light will flash Green & Red while the interface programs the radio to the steering wheel controls. Once programmed, the LED light will go out, then produce a pattern which will identify the radio type installed.

6. The LED light will go out, then once again quickly flash Green & Red while the interface programs itself to the vehicle. Once programmed, the LED light will go out again, then turn solid Green.

7. Cycle the ignition off, then back on.

8. Test all functions of the installation for proper operation.
If the interface fails to function, press and release the reset button, then repeat the programming process from step 4 to try again.

Final LED Feedback

At the end of programming the LED light will turn **Solid Green** which indicates programming was successful. If the LED light didn’t turn **Solid Green**, reference the list below to understand which programming section the problem may stem from.

### LED Light

<table>
<thead>
<tr>
<th>LED Light</th>
<th>Radio Programming Section</th>
<th>Vehicle Programming Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid Green</td>
<td>Pass</td>
<td>Pass</td>
</tr>
<tr>
<td>Slow Red Flash</td>
<td>Fail</td>
<td>Pass</td>
</tr>
<tr>
<td>Slow Green Flash</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>Solid Red</td>
<td>Fail</td>
<td>Fail</td>
</tr>
</tbody>
</table>

**Note:** If the LED light shows **Solid Green** for **Pass** (indicating everything programmed correctly), yet the steering wheel controls don’t work, check to ensure that the 3.5mm jack is plugged in, and also plugged into the correct jack on the radio. Once corrected, press the reset button, then program again.

Further troubleshooting steps and information can be located at: axxessinterfaces.com/product/AXTC-1-CH013