Volvo XC90 Data Interface with SWC 2004-2014

**INTERFACE FEATURES**
- Provides accessory power
- Retains R.A.P. (retained accessory power)
- Includes amplifier bypass harness
- Provides NAV outputs (parking brake, reverse, speed sense)
- Retains audio controls on the steering wheel
- Retains balance and fade
- Micro-B USB updatable

**INTERFACE COMPONENTS**
- AXDIS-VL32 interface
- AXSWC interface
- AXDIS-VL32 harness
- AXSWC harness
- Female 3.5mm connector with stripped leads

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

**TABLE OF CONTENTS**
- Connections to be made ........................................2
- Installing the AXDIS-VL32 interface .......................3-4
- Programming the AXSWC interface .......................5
From the aftermarket radio to the AXDIS-VL32 harness:

- Connect the **Black** wire to the ground wire.
- Connect the **Yellow** wire to the battery wire.
- Connect the **Red** wire to the accessory wire.
- If the aftermarket radio has an illumination wire, connect the **Orange** wire to it.
- Connect the **White** wire to the left front positive speaker.
- Connect the **White/Black** wire to the left front negative speaker.
- Connect the **Gray** wire to the right front positive speaker.
- Connect the **Gray/Black** wire to the right front negative speaker.
- Connect the **Green** wire to the radio’s left rear positive speaker.
- Connect the **Green/Black** wire to the radio’s left rear negative speaker.
- Connect the **Purple** wire to the radio’s right rear positive speaker.
- Connect the **Purple/Black** wire to the radio’s right rear negative speaker.

*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 aftermarket radio to the AXSWC harness:

This harness is only to be used if the vehicle is equipped with steering wheel controls.

- Connect the **Red** wire to the accessory wire.
- For the radios listed below, connect the female 3.5mm connector with stripped leads, to the male 3.5mm SWC jack from the AXSWC 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.
  - **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 AXSWC 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.
With the key in the off position:

- Locate the factory amplifier under the passenger seat.
- Extend the wire harness with the Gray and Green connectors to this point.
- Unplug the connectors from the amplifier, then connect the Gray and Green connectors to the harnesses unplugged from the amplifier. (Figure A)
  
  **Note:** The factory Green connector in the middle will not be used in this application. It can be left plugged in or unplugged.

- Locate the Green 10-pin connector behind the radio display. (Figure B)
- Unplug the connector, then plug in the Green male 10-pin connector from the AXDIS-VL32 harness into the radio display.
- Connect the factory male 10-pin connector into the Green female 10-pin connector from the AXDIS-VL32 harness.

*Continued on the next page*
For installations when a double DIN radio will be installed, the factory radio will need to be disassembled, and the radio display relocated in the dash.

- Unclip (6) tabs securing the radio bezel to the radio assembly, then remove the bezel. (Figure C)
- Remove (3) screws securing each radio pod to the radio frame. Carefully unplug the wiring harness from each pod, then remove the pods. (Figure D)
- Remove (4) screws securing the radio display to the radio frame, then remove the display. (Figure D)
- Connect the AXDIS-VL32 harness to the AXDIS-VL32 interface.
- Connect the AXSWC harness to the AXSWC interface, and then to the AXDIS-VL32 interface.

**Note:** The factory antenna in these vehicles cannot be reused. A Metra antenna, 44-UA200 (sold separately), on the front glass is suggested.
PROGRAMMING THE AXSWC INTERFACE

• Press and hold the Volume-Up button on the steering wheel.

• Turn the ignition on, the L.E.D. in the AXSWC interface will start flashing rapidly, which means the AXSWC is looking for the vehicle and the radio.

  Note: If the L.E.D. did not start flashing rapidly, press the reset button for 3 seconds, while still holding the Volume-Up button.

• After a few seconds the L.E.D. should stop flashing rapidly, and then go out for approximately 2 seconds.

• After approximately 2 seconds there will be a series of 7 Green flashes, some short, and some long. The long flashes represent the wires that are connected to the AXSWC. The 3rd, 4th, 5th, and 6th flashes should be longer.

  Tip: Knowing this will help to troubleshoot, if need be.

• The L.E.D. will pause for another 2 seconds, and then flash Red up to 18 times depending on which radio is connected to the AXSWC. Refer to the L.E.D. feedback section for information.

• This is the end of the auto detection stage. Release from holding the Volume-Up button. If the AXSWC detected the vehicle and the radio successfully, the L.E.D. will light up solid.

• Test the steering wheel controls for proper operation. Refer to the AXSWC instructions online at axxessinterfaces.com for customizing the buttons, if so desired.

L.E.D. feedback

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

L.E.D. feedback legend

<table>
<thead>
<tr>
<th>Flashes</th>
<th>Radio Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Eclipse (Type 1) ¹</td>
</tr>
<tr>
<td>2</td>
<td>Kenwood 1</td>
</tr>
<tr>
<td>3</td>
<td>Clarion (Type 1) ¹</td>
</tr>
<tr>
<td>4</td>
<td>Sony / Dual</td>
</tr>
<tr>
<td>5</td>
<td>JVC</td>
</tr>
<tr>
<td>6</td>
<td>Pioneer / Jensen</td>
</tr>
<tr>
<td>7</td>
<td>Alpine *</td>
</tr>
<tr>
<td>8</td>
<td>Visteon</td>
</tr>
<tr>
<td>9</td>
<td>Valor</td>
</tr>
<tr>
<td>10</td>
<td>Clarion (Type 2) ³</td>
</tr>
<tr>
<td>11</td>
<td>Metra OE</td>
</tr>
<tr>
<td>12</td>
<td>Eclipse (Type 2) ³</td>
</tr>
<tr>
<td>13</td>
<td>LG</td>
</tr>
<tr>
<td>14</td>
<td>Parrot **</td>
</tr>
<tr>
<td>15</td>
<td>XITE</td>
</tr>
<tr>
<td>16</td>
<td>Philips</td>
</tr>
<tr>
<td>17</td>
<td>TBD</td>
</tr>
<tr>
<td>18</td>
<td>JBL</td>
</tr>
</tbody>
</table>

* Note: If the AXSWC flashes Red (7) times, and you do not have an Alpine radio connected to it, that means the AXSWC does not detect a radio connected 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. Refer to the “Programming Information” document online.
Having difficulties? We’re here to help.

Contact our Tech Support line at:
386-257-1186 ext. 8300

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

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Metra recommends MECP certified technicians