**LEXUS**
- ES Series 2007-2012
- ES Series (w/ multi disc) 2002-2006
- IS Series 2002-2005
- RX Series 2004-2008

**TOYOTA**
- 4-Runner 2003-2013
- Avalon 2011-2012
- (Camry) Solara 2004-2008
- Camry (w/o nav) 2012-2013
- Camry 2007-2011
- Corolla 2003-2011
- FJ Cruiser 2011-2014

**TOYOTA (CONT)**
- Highlander 2008-2013
- Matrix 2005-2012
- Prius 3rd Gen (w/o nav) 2012-2015
- Plug-In (PHV) 2012-2015
- Prius 2004-2011

**TOYOTA (CONT)**
- Rav-4 2004-2014.5
- Sequoia (w/o nav) 2013
- Sequoia 2005-2012
- Sienna 2004-2014
- Tacoma 2005-2013
- Tundra 2006-2013
- Tundra (Double Cab) 2004-2005
- Venza (w/ SD card based nav) 2013-2014
- Venza 2009-2012

**APPLICATIONS**
- Provides accessory power (12-volt 10-amp)
- Retains audio controls on the steering wheel
- Provides NAV outputs (parking brake, reverse)
- Retains the factory AUX-IN jack
- Designed for amplified models
- Retains balance
- Micro-B USB updatable

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

**CAUTION!** All accessories, switches, climate controls panels, and especially air bag indicator lights must be connected before cycling the ignition. Also, do not remove the factory radio with the key in the on position, or while the vehicle is running.
From the 16-pin harness with stripped leads to the aftermarket radio:

- Connect the **Red** wire to the accessory wire.
- Connect the **Blue/White** wire to the amp turn on wire. This wire must be connected to hear sound from the factory amplifier.
- 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.
- 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.
- Tape off and disregard the following (5) wires, they will not be used in this application: **Blue/Pink**, **Brown**, **Green/Purple**, **Light Green** and **Orange/White**.

From the AXDIS-TY1 harness to the aftermarket radio:

- Connect the **Black** wire to the ground wire.
- Connect the **Yellow** wire to the battery wire.
- Connect the **Blue** wire to the power antenna wire.

**Attention!** The AXDIS-TY1 will work with both early and late generation model Toyota SWC harnesses. Early generation models use a 20-pin harness; late generation models use a 28-pin harness. Use only the appropriate harness that the vehicle requires (only one of the harnesses will connect to the wiring harness in the vehicle).

From the 20-pin harness:

- If retaining the factory AUX-IN jack, connect the **Red & White** RCA jacks to the AUX input.

From the 28-pin harness:

- If retaining the factory AUX-IN jack, connect the **Red & White** RCA jacks to the AUX input.

The following (2) wires are for aftermarket multimedia/navigation radios that require these wires. If not required, tape them off and disregard them.

- Connect the **Green/Purple** wire to the reverse wire.
- Connect the **Light Green** wire to the parking brake wire.

**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-TY1. 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-TY1 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-TY1

With the key in the off position:

- Connect the 16-pin harness with stripped leads, and the AXDIS-TY1 harness, into the interface.

**Attention!** Do not connect the AXDIS-TY1 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.
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-TY1 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-TY1.

**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-TY1**

**Audio level adjustment**

- 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.
**L.E.D. feedback**

The (18) Red L.E.D. flashes represent what brand radio the AXDIS-TY1 believes it is connected to. Each flash represents a different radio manufacturer. For example, if you are installing a JVC radio, the AXDIS-TY1 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>Flash Count</th>
<th>Radio Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Eclipse (Type 1) †</td>
</tr>
<tr>
<td>2</td>
<td>Kenwood</td>
</tr>
<tr>
<td>3</td>
<td>Clarion (Type 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) †</td>
</tr>
<tr>
<td>11</td>
<td>Metra OE</td>
</tr>
<tr>
<td>12</td>
<td>Eclipse (Type 2) †</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>
<tr>
<td>19</td>
<td>Clarion (Type 2) †</td>
</tr>
<tr>
<td>20</td>
<td>Metra OE</td>
</tr>
<tr>
<td>21</td>
<td>Eclipse (Type 2) †</td>
</tr>
<tr>
<td>22</td>
<td>LG</td>
</tr>
<tr>
<td>23</td>
<td>Parrot **</td>
</tr>
<tr>
<td>24</td>
<td>XITE</td>
</tr>
<tr>
<td>25</td>
<td>Philips</td>
</tr>
<tr>
<td>26</td>
<td>TBD</td>
</tr>
<tr>
<td>27</td>
<td>JBL</td>
</tr>
</tbody>
</table>

*Note: If the AXDIS-TY1 flashes Red (7) times, and you do not have an Alpine radio connected to it, that means the AXDIS-TY1 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.

**Changing radio type**

If the LED flashes do not match the radio you have connected, you must manually program the AXDIS-TY1 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-TY1 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.

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.
STEERING WHEEL CONTROL SETTINGS (CONT)

Radio legend
1. Eclipse (Type 1)  7. Alpine  13. LG
3. Clarion (Type 1)  9. Valor  15. XITE
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-TY1 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-TY1 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-TY1 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-TY1 goes out.

Button assignment legend
1. Volume-Up  10. Band
2. Volume-Down  11. Play/Enter
3. Seek-Up/Next  12. PIT (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
Dual assignment instructions (long button press)

The AXDIS-TY1 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
16. Fan-Down *
17. Temp-Up *
18. Temp-Down *

* Not applicable in this application
TROUBLESHOOTING

Resetting the AXDIS-TY1

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.

IMPORTANT

If you are having difficulties with the installation of this product, please call our Tech Support line at 1-800-253-TECH. Before doing so, look over the instructions a second time, and make sure the installation was performed exactly as the instructions are stated. Please have the vehicle apart and ready to perform troubleshooting steps before calling.