Toyota **Interface with SWC 2018-Up**

INTERFACE COMPONENTS

- AXDIS-TY3 interface
- AXDIS-TY3 harness (LD-TYAMP3-SWC)
- Female 3.5mm connector with stripped leads
- AXCSD-6V

APPLICATIONS

TOYOTA			
4Runner	2020-Up	Highlander	2020-Up
Avalon	2019-Up	RAV4	2019-Up
C-HR	2019-Up	Sequoia	2020-Up
Camry	2018-Up	Sienna	2018-Up
Corolla	2019-Up	Tacoma	2020-Up
		Tundra	2020-Up

INTERFACE FEATURES

- Designed for both amplified and non-amplified models
- Provides accessory power (12-volt 10-amp)
- Provides NAV outputs (parking brake, reverse, speed sense)
- Retains the factory AUX-IN jack
- Retains the factory backup camera
- Includes an AXCSD-6V 12-to-6V step-down for the factory camera
- Retains audio controls on the steering wheel
- Retains balance on amplified models (non-amplifed models retain balance and fade)
- Micro-B USB updatable

TOOLS REQUIRED

- Crimping tool and connectors, or solder gun, solder, and heat shrink
- Small flat-blade screwdriver
- Tape
- Wire cutter
- Zip ties

Product Info

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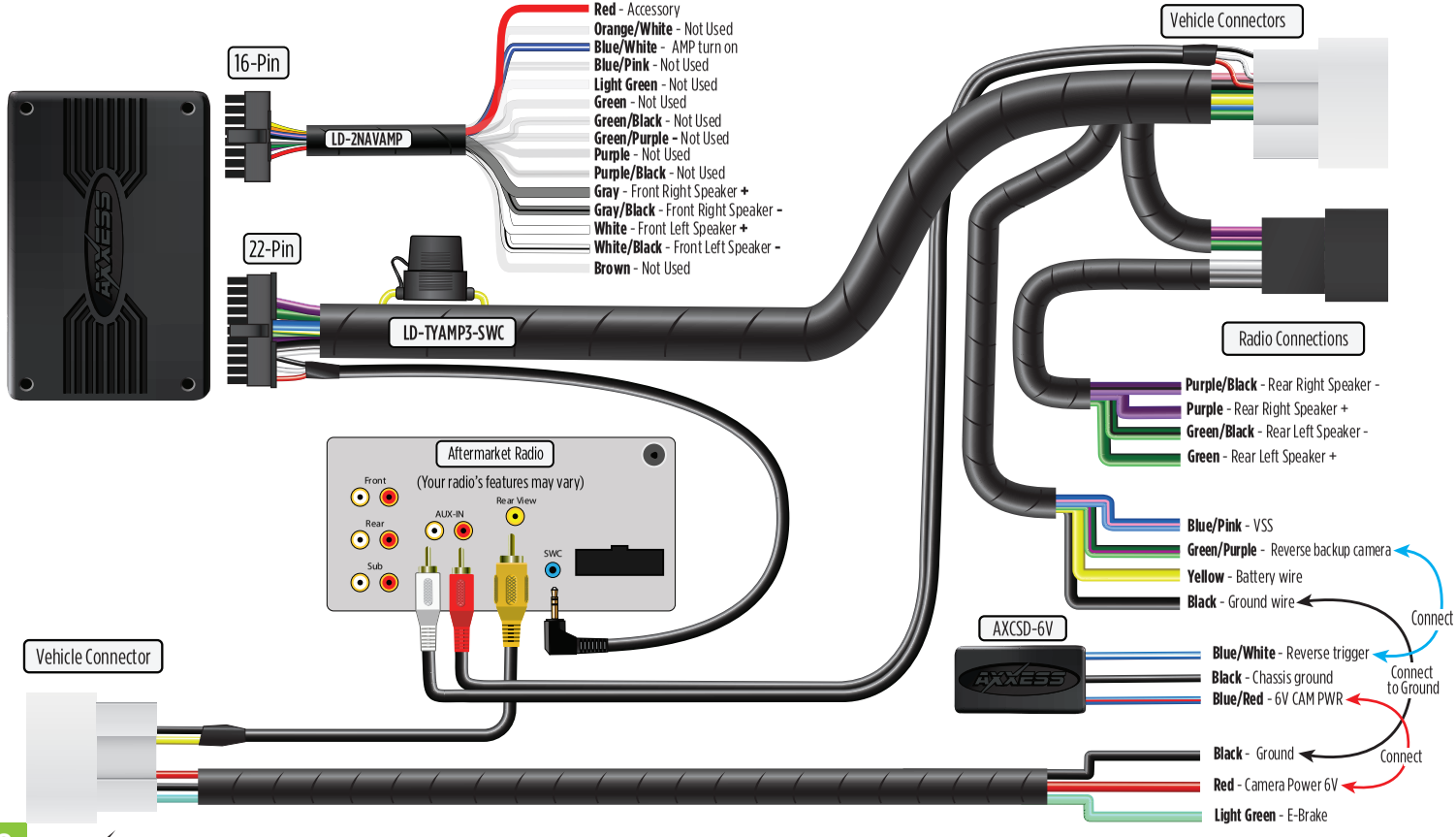
Visit AxxessInterfaces.com for more detailed information about the product and up-to-date vehicle specific applications.

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: LD-TYAMP3-SWC



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 **female 3.5mm connector with stripped leads**, to the male 3.5mm SWC jack from the **LD-TYAMP3-SWC harness**. Any remaining wires tape off and disregard.
  - **Eclipse:** Connect the steering wheel control wire, normally **Brown**, to the **Brown/White** wire from the connector. Then connect the remaining steering wheel control wire, normally **Brown/White**, to the **Brown** wire from 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 the 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), 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 from the connector. Then connect the remaining steering wheel control wire, referred to as Key-B or SWC-2, to the **Brown/White** wire from 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 **LD-TYAMP3-SWC harness** into the jack from 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 connects to.

INSTALLING THE AXDIS-TY3

With the key in the off position:

1. Connect the **16-pin harness with stripped leads**, and the **LD-TYAMP3-SWC harness** into the interface.
2. Connect the *backup camera harness* to the wiring harness in the vehicle.

Attention! Do not connect the **LD-TYAMP3-SWC 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-TY3

For the steps below, the LED located inside the interface can only be seen while active. The interface does not need to be opened to see the LED

1. Start the vehicle.
2. Connect the **LD-TYAMP3-SWC harness** to the wiring harness in the vehicle.
3. The LED will initially turn on solid **Green**, then turn off for a few second while detecting the radio.
4. The LED will then flash **Red** up to (23) times indicating which radio is connected to the interface, then turn off for a couple seconds. Pay close attention to how many **Red** flashes there are. This will help in troubleshooting, if need be. Refer to the LED Feedback section for more information.
5. After a couple seconds the LED will turn on solid Red while the interface auto detects the vehicle and steering wheel controls. This process should take 5 to 30 seconds.
6. Once the vehicle has been auto detected by the interface, the LED will turn on solid **Green**, then the radio will come back on, indicating that programming was successful.
7. Test all functions of the installation for proper operation, before reassembling the dash. If the interface fails to function, refer to the **Troubleshooting** section.

Note: The LED will turn on solid **Green** for a moment, then turn off under normal operation after the key has been cycled.

AUDIO LEVEL ADJUSTMENT

(amplified models only)

1. With the vehicle and radio turned on, turn the volume up 3/4 of the way.
2. With a small flat-blade screwdriver, adjust the potentiometer clockwise to raise the audio level; counter clockwise to lower the audio level.
3. Once at a desired level, audio adjustment is complete.

STEERING WHEEL CONTROL SETTINGS: LED FEEDBACK

LED Feedback: The (23) **Red LED** flashes represent a different radio manufacturer for the **SWC interface** to detect. For example, if you are installing a **JVC** radio, the **SWC interface** will flash **Red** (5) times, then stop. Following is the **LED Feedback Legend**, which indicates the flash count of the radio manufacturer.

LED Feedback Legend

Flash Count	Radio
1	Eclipse (type 1) †
2	Kenwood ‡
3	Clarion (type 1) †
4	Sony / Dual
5	JVC
6	Pioneer / Jensen
7	Alpine *
8	Visteon
9	Valor
10	Clarion (type 2) †
11	Metra OE
12	Eclipse (type 2) †

Flash Count	Radio
13	LG
14	Parrot **
15	XITE
16	Philips
17	TBA
18	JBL
19	Insane
20	Magnadyne
21	Boss
22	Axxera
23	Axxerra (type 2)

KEYNOTES

* **Note:** If the AXDIS-TY3 flashes **Red** (7) times, and you do not have an Alpine radio connected to it, that means the AXDIS-TY3 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:** The 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 LED feedback comes back as showing as a JVC radio, change the radio type to a Kenwood. The following section on **Changing Radio Type** explains how to do this.

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STEERING WHEEL CONTROL SETTINGS: CHANGING RADIO TYPE

Attention! The Axxess Updater App can also be used to program the following (3) sub-sections as well, pending that the interface has been programmed.

Changing Radio Type

If the LED flashes do not match the radio you have connected, you must manually program the **AXDIS-TY3** 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 LED in the **AXDIS-TY3** goes solid.
2. Release the Volume-Down button; the LED will go out indicating the interface is 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 LED 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 LED goes solid. The LED will remain on for about (3) seconds while it stores the new radio information.
6. Once the LED goes out, 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)
2. Kenwood
3. Clarion (Type 1)
4. Sony/Dual
5. JVC
6. Pioneer/Jensen
7. Alpine
8. Visteon
9. Valor
10. Clarion (Type 2)
11. Metra OE
12. Eclipse (Type 2)
13. LG
14. Parrot
15. XITE
16. Philips
17. TBD
18. JBL
19. Insane
20. Magnadyne
21. Boss
22. Axxera
23. Axxera (Type 2)

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STEERING WHEEL CONTROL SETTINGS: REMAPPING

Remapping

Once the AXDIS-TY3 has been programmed, the button assignment for the steering wheel controls may be reassigned if so desired. For example, if the Seek-Up button is preferred to be the Mute button instead. Follow the steps below to remap the steering wheel control buttons.

1. Ensure the AXDIS-TY3 is visible so you can see the LED 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 LED goes solid.

3. Release the Volume-Up button, the LED 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 LED comes on to skip that function, and then release the Volume-Up button. This will tell the AXDIS-TY3 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 until the LED in the AXDIS-TY3 goes out.

Button Assignment Legend

Function #	Function	Function #	Function
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: Some radios may not have 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 INSTRUCTIONS

Dual Assignment (long button press)

The **AXDIS-TY3 interface** 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 the desired setting.

Note: Seek-Up and Seek-Down come pre-programmed as Preset-Up and Preset-Down for a long button press.

1. Turn the key to ignition but do not start the vehicle.
2. Press and hold the desired steering wheel control button for (10) seconds, or until the LED flashes rapidly. At this point release the button; the LED 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 LED will flash rapidly while the Volume-Up button is being pressed, and then go back to a solid LED once released. Proceed 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 LED will go out.
4. Press the desired button to store it to memory. The LED will now go out indicating the new information has been stored to memory.

Note: These steps must be repeated for each button desired to assign a dual assignment feature to. To reset a button back to its default state, repeat Step 1, then press the Volume-Down button. The LED will go out, and the dual assignment feature for that button will be erased.

Dual Assignment Legend

Function #	Function	Function #	Function
1	Not allowed	10	Band
2	Not allowed	11	Play/Enter
3	Seek-Up/Next	12	PTT
4	Seek-Down/Prev	13	On-Hook
5	Mode/Source	14	Off-Hook
6	ATT/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*

Resetting the AXDIS-TY3 Interface

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 AXDIS-TY3” 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

Tech Support Hours (Eastern Standard Time)

Monday - Friday: 9:00 AM - 7:00 PM
Saturday: 10:00 AM - 5:00 PM
Sunday: 10:00 AM - 4:00 PM

Metra recommends MECP certified technicians