

PRODUCT FEATURES:

- Retains factory features in select Lexus and Toyota vehicles with JBL Harman-Becker Digital-Synthesis Amplifier, including JBL (Pioneer-made) amplifiers while functioning with an aftermarket radio.
- Pre-programmed to retain factory Steering Wheel Controls.
- Retains factory backup camera (if present).
- Retains OEM 3.5mm Auxiliary Audio Input.
- iPhone Voice Recognition (VR) feature from SWC on select Kenwood, Pioneer, Alpine and JVC radios.
- Variable audio gain adjustment to level match the aftermarket radio and factory amplifier.
- Supports BT-HF/A2DP/AVRCP profile on select aftermarket radio models.
- Supports Pick Up/End Call, Pick up and Toggle between 1st and 2nd incoming call, AVRCP Track, Seek.
- EIA color coded wiring for easy installation.

NOTES:

1. Left-Right Balance Audio Control is supported. Front-Rear Audio Fading is not supported.
2. **Please make sure to set the factory radio volume to 70% and balance and fade options are centered before removing the radio.**

PARTS INCLUDED:



SWRTY-61J Module



TY-A Harness
(For Newer Models)



TY-B Harness
(For Older Models)



3.5MM to 4-pin SWC Cables



OEM Camera Retention Harness



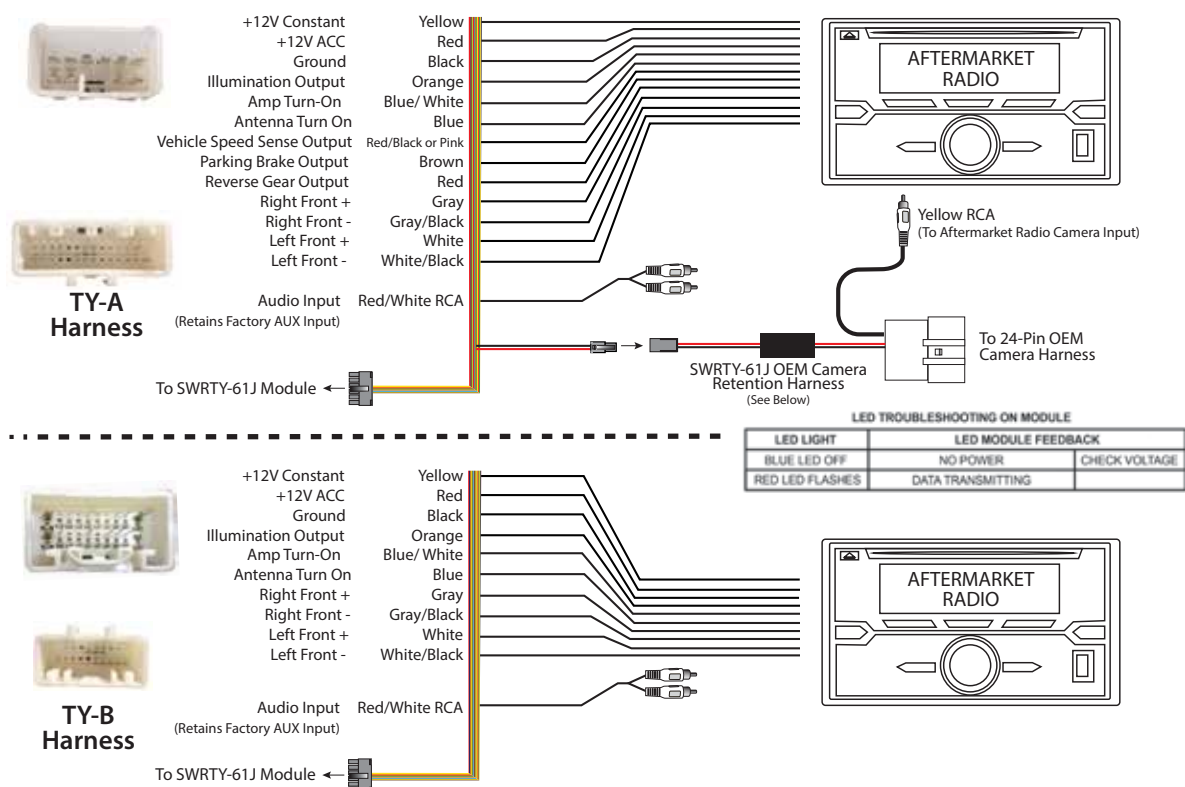
16 to 24 Pin Camera Adapter

IMPORTANT INSTALLATION NOTES:

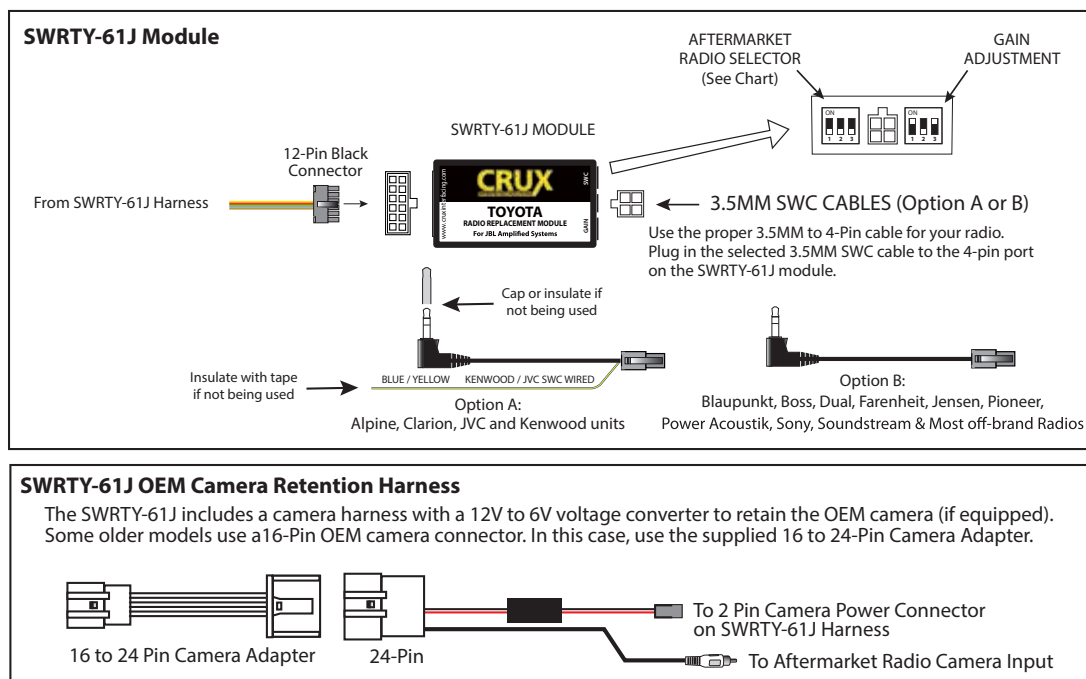
1. In some Lexus/Toyota vehicles 2006 and older, the mute circuit is located in the same pin location as the amplifier turn-on on the OEM harness. If no audio is heard after the installation is complete, disconnect the BLUE/WHITE wire on the TY-61J T-Harness from the aftermarket radio AMP Turn-on wire. Insulate with tape to avoid short circuits.
2. Before connecting the 3.5mm SWC Cable, thoroughly wipe it clean with the alcohol cleansing pad provided. This will ensure a solid contact with the aftermarket radio SWC circuit.
3. To retain the factory AUXILIARY INPUT option in the vehicle, the aftermarket radio must have an "Auxiliary Audio Input" feature. Please check your aftermarket radio manual for details.



INSTALLATION DIAGRAM:



NOTE: Aftermarket radio rear speaker output leads are not used on both harnesses. Insulate with tape.

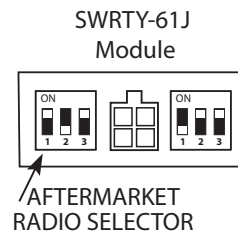


DIP SWITCH SETTINGS:

SETTING THE AFTERMARKET RADIO BRAND

This step is done on the SWRTY-61J Module. With the key in the off position, set the DIP switches to the corresponding radio listed below.

RADIO BRAND:	DIP:	1	2	3
Atoto, Dual, Fahrenheit, Jensen, Pioneer		OFF	ON	ON
Power Acoustik, Soundstream		OFF	ON	ON
Blaupunkt, Most off brand Radios		OFF	ON	ON
Alpine		OFF	OFF	OFF
Clarion		ON	ON	OFF
Kenwood		ON	ON	ON
JVC		ON	OFF	ON
Sony, Boss		ON	OFF	OFF



SWC Troubleshoot option



Located internally
Need to take plastic
Casing off module

- If Steering Wheel Controls don't work or work properly please switch internal dip switch from 3v3 to 5v as shown in picture above.

NOTE: For Atoto, Blaupunkt, Dual, Fahrenheit, Power Acoustik, Soundstream, and most off-brand radios, check the aftermarket radio's manual to see if the SWC buttons need to be programmed.

- Some Blaupunkt use DIP Switch setting OFF ON OFF

4-PIN SWC CABLE

Use the proper 3.5MM to 4-Pin SWC cable for the aftermarket radio you are using.

OPTION A is used for ALPINE, CLARION. For JVC and KENWOOD use the Blue/Yellow wire.
OPTION B is used for ATOTO, BLAUPUNKT, BOSS, DUAL, FARENHEIT, JENSEN, POWER ACOUSTIK, PIONEER, SONY, SOUNDSTREAM and Most Off-Brand Radios.

NOTE: Cap or insulate the 3.5mm plug or Blue/Yellow wire if not being used.

For aftermarket radios that have wires for SWC connections, cut off the 3.5mm plug on the CRUX SWC Cable and connect the SWC wires as follows:



RED to SWC Key 1
WHITE to SWC Key 2
SHIELD to SWC Ground

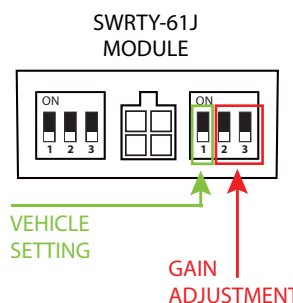
Note that there are some radios that only have SWC1 and SWC2, in this case "shield" does not need to be connected.

VEHICLE SETTING AND GAIN ADJUSTMENTS:

SELECTING VEHICLE TYPE

Please set pin 1 to the ON position
for Previous Hardware Firmware

Please set pin 1 to the
OFF position for Latest Firmware



Use the gain adjustment to level match
the aftermarket radio audio output with
the OE amplifier input.

DIP SETTING	dB	Volts
Position 2 3		
OFF OFF	0 dB	+0mV
OFF ON	3.5 dB	+9mV
ON OFF	9.1 dB	+18mV
ON ON	12.9 dB	+27mV



STEERING WHEEL CONTROL TROUBLE SHOOTING:

Note: Identify Alpine SWC learning radios by checking for three SWC cables and a SWC learn menu, instead of a 3.5mm SWC input.

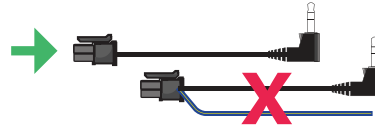
If Interface has one SWR-100 Cable included

1 - Find the included SWC adapter cable.



If Interface has two SWR Cables included

1 - Identify appropriate SWC adapter cable.
Do not use cable with Blue / Yellow wire.



2 - **Prepare the SWC Cable:** Cut the SWC cable. You will find a red wire, a white wire, and a ground (shield) wire inside.



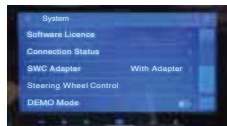
3 - **Adjust the Module Settings:** Set the module to the Pioneer dip switch setting. This configures the module to communicate correctly with the Alpine radio.

DIP: 1 2 3
On Alpine iLX series radios use Pioneer settings | OFF | ON | ON



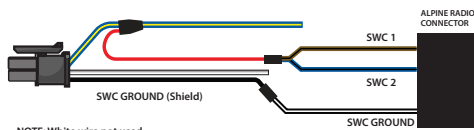
4 - **Configure the Alpine Radio:** On your Alpine radio, select the setting that includes "Without adapter" for SWC. This ensures the radio will recognize the steering wheel controls.

Select "SWC Adapter"

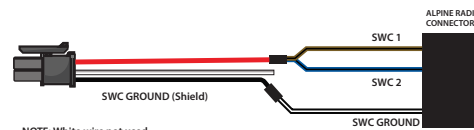


Select the setting "Without Adapter"

5 - **Connect the Wires:** Connect both the SWC1 and SWC2 wires from aftermarket radio to the red wire from our SWC cable. Connect the SWC ground wire to the shield (ground) wire of our SWC cable. These steps should enable the steering wheel controls on your Alpine iLX series radio.



NOTE: White wire not used



NOTE: White wire not used

6. **Program the SWC:** Navigate to the SWC settings on your Alpine radio to assign and test each control function.



STEERING WHEEL CONTROL BUTTON FUNCTIONS:

SWC Button	SHORT PRESS	LONG PRESS
PIONEER VOL + VOL - Seek Up Seek Down Mode OFF Hook ON Hook Voice	Step Increment Step Decrement Preset Up Preset Down Source Pick Up Call* End Call Activate VR/Deactivate VR	Continuous VOL + Continuous VOL - Seek Up Seek Down Power On/Off None None None
*NOTE:	BT Mode Active: OFF Hook = Toggle between 1st and 2nd Call	

SWC Button	SHORT PRESS	LONG PRESS
ALPINE VOL + VOL - Seek Up Seek Down Mode OFF Hook ON Hook Voice	Step Increment Step Decrement Seek Up Seek Down Source Pick Up Call End Call Activate VR*/Deactivate VR*	Continuous VOL + Continuous VOL - None None None None None None N/A
*NOTE:	BT Mode Active: OFF Hook = Toggle between 1st and 2nd Call	

SWC Button	SHORT PRESS	LONG PRESS
CLARION VOL + VOL - Seek Up Seek Down Mode OFF Hook ON Hook Voice	Step Increment Step Decrement Preset Up Preset Down Source Pick Up Call End Call Mute	Continuous VOL + Continuous VOL - Seek Up Seek Down Power On/Off None None None
NOTE:	BT Mode Active: OFF Hook = Toggle between 1st and 2nd Call	

SWC Button	SHORT PRESS	LONG PRESS
JVC VOL + VOL - Seek Up Seek Down Mode OFF Hook ON Hook Voice	Step Increment Step Decrement Seek Up Seek Down Source Pick Up Call* End Call Activate VR	Continuous VOL + Continuous VOL - M-Seek Up M-Seek Down Power On/Off None None None
*NOTE:	BT Mode Active: User must End 1st call in order to pick up 2nd incoming call.	Deactivate VR: Say "Cancel" or remain silent until it times out ➡ Auto switch back to previous Source.



<u>SWC Button</u>	<u>SHORT PRESS</u>	<u>LONG PRESS</u>
KENWOOD VOL + VOL - Seek Up Seek Down Mode OFF Hook ON Hook Voice	Step Increment Step Decrement Seek Up Seek Down Source Pick Up Call/ Call History On/Off End Call / Deactivate VR Activate VR	Continuous VOL + Continuous VOL - None None None None None None None

VEHICLE APPLICATIONS:

LEXUS

2004-2006	ES300
2003-2005	IS300
2006	LS430 w/o Navigation

TOYOTA

2003-2020	4 Runner w/ Navigation
2005-2018	Avalon
2007-2017	Camry
2012-2017	Camry Hybrid
2004-2008	Camry Solara
2009-2018	Corolla
2007-2014	FJ Cruiser
2008-2018	Highlander
2008-2018	Highlander Hybrid
2005-2012	Matrix
2004-2015	Prius w/ Navigation
2004-2015	Prius w/o Navigation
2012-2017	Prius V
2004-2018	Rav4
2016-2018	Rav4 Hybrid
2013-2019	Sequoia w/ Navigation
2014-2019	Sequoia w/o Navigation
2005-2013	Sequoia w/ RDS Radio
2004-2017	Sienna
2005-2021	Tacoma
2004-2019	Tundra
2009-2015	Venza
2008-2011	Yaris

NOTE:

- Does not retain Mark Levinson, Pioneer, Nakamichi or Harmon Kardon amplifiers.
- If your vehicle is not equipped SWC, please use the CRUX SOHTL-20

