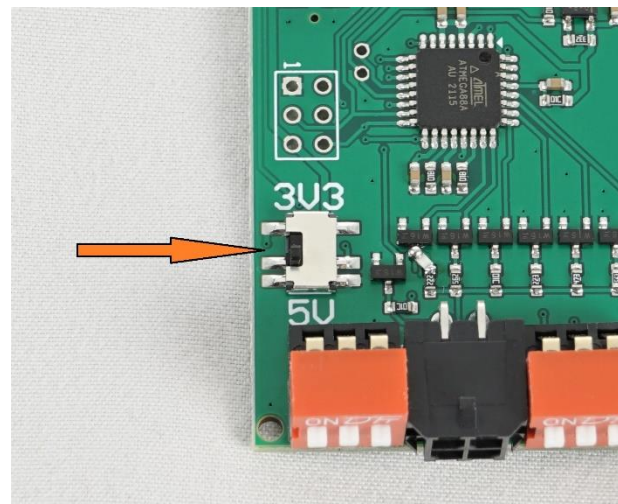
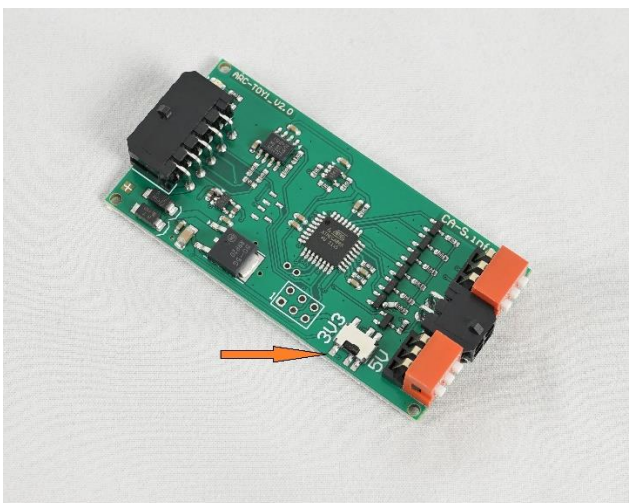
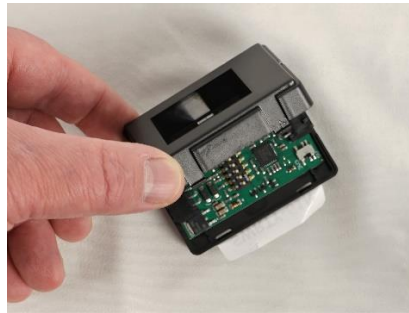


Arc-Crux Module 3v-5v SWC switch

- *Certain Pioneer and Boss radios will need this micro-switch flipped in order to get the steering wheel buttons to work if the dipswitch settings don't work.
- *Some Boss radios volume will max out when turning vehicle off if the micro-switch is set to 5v.
- *This module has different board layouts for different harnesses. Same micro-switch though.



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.
- 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.
- Retains OEM 3.5mm Auxiliary Audio Input.
- 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 and Front-Rear Audio Fading is not supported.
2. Please make sure factory radio Balance and Fade options are centered before removing the radio.

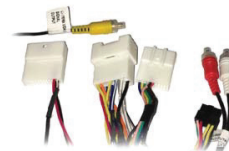
PARTS INCLUDED:



CS-TJ20 Module



TY-A Harness
(For Newer Models)



TY-B Harness
(For Older Models)



3.5MM to 4-pin SWC Cables



OEM Camera Retention Harness



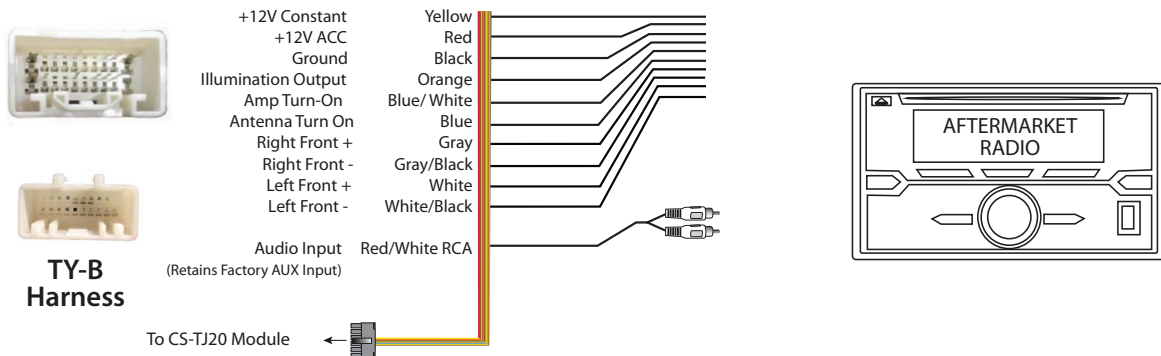
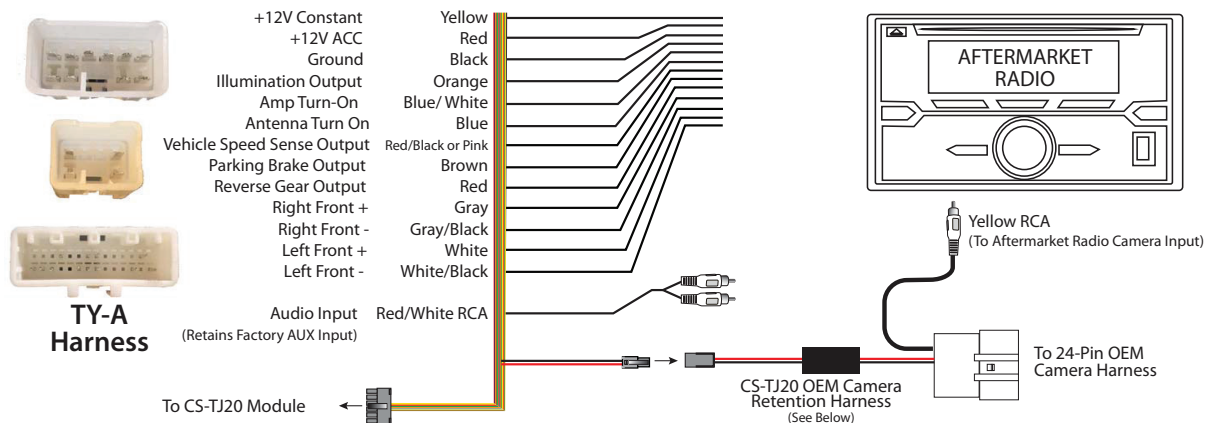
16 to 24 Pin Camera Adapter

IMPORTANT INSTALLATION NOTES:

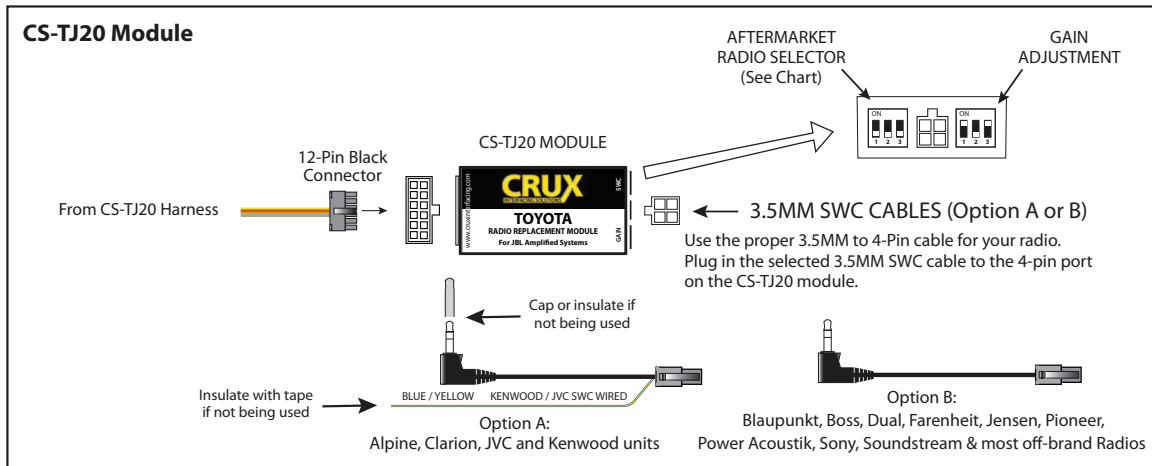
1. In some Lexus/Toyota vehicles 2006 and older, the mute circuit is located in the same pin location as the amplifier turn-on on the OEM harness. If no audio is heard after the installation is complete, disconnect the BLUE/WHITE wire on the CS-TJ20 T-Harness from the aftermarket radio AMP Turn-on wire. 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:

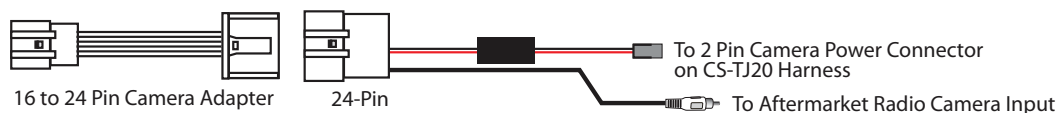


NOTE: Aftermarket radio rear speaker output leads are not used on both harnesses. Insulate with tape.



CS-TJ20 OEM Camera Retention Harness

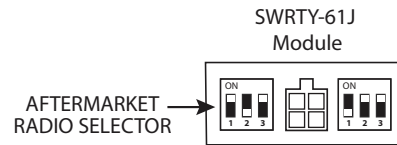
The CS-TJ20 includes a camera harness with a 12V to 6V voltage converter to retain the OEM camera (if equipped). Some older models use a 16-Pin OEM camera connector. In this case, use the supplied 16 to 24-Pin Camera Adapter.



SETTING THE AFTERMARKET RADIO BRAND

This step is done on the CS-TJ20 SWC 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



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.

4-PIN SWC CABLE

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

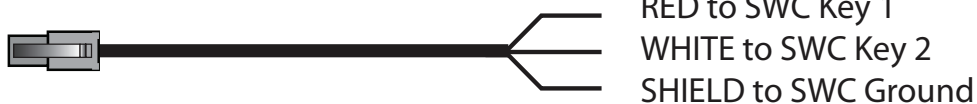
OPTION A is used for ALPINE, CLARION, JVC, and KENWOOD units (Blue/Yellow wire is attached)

OPTION B is used for 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 (option B) and connect the SWC wires as follows:

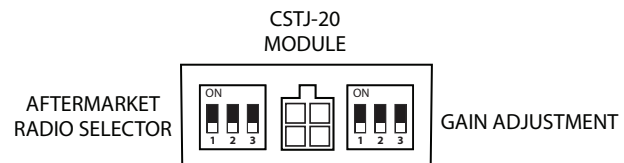
Note that there are some radios that only have SWC1 and SWC2, in this case "shield" does not need to be connected.



GAIN ADJUSTMENTS:

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

DIP SETTING	dB	Volts
OFF OFF OFF	0 dB	
OFF OFF ON	1.7 dB	+7mV
OFF ON OFF	3.5 dB	+9mV
OFF ON ON	5.2 dB	+10mV
ON OFF OFF	7.2 dB	+15mV
ON OFF ON	9.1 dB	+18mV
ON ON OFF	11 db	+22mV
ON ON ON	12.9 dB	+27mV



VEHICLE APPLICATIONS:

LEXUS

2004-2006	ES300
2003-2005	IS300
2006	LS430

TOYOTA

2003-2019	4 Runner
2005-2018	Avalon
2007-2017	Camry
2004-2008	Camry Solara
2009-2017	Corolla
2011-2014	FJ Cruiser
2008-2018	Highlander
2005-2012	Matrix
2004-2017	Prius
2004-2018	Rav4
2005-2018	Sequoia
2004-2016	Sienna
2005-2019	Tacoma
2004-2019	Tundra
2009-2015	Venza
2008-2011	Yaris

NOTE:

Does not retain Mark Levinson, Pioneer, Nakamichi or Harmon Kardon amplifiers.

