SWRGM-47

Radio Replacement Interface with Steering Wheel Control Retention for Select 7" GM IOA & IOB Vehicles

PRODUCT MANUAL
VER.101926

CONTACT

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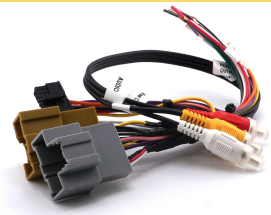
PRODUCT FEATURES:

- Retains factory features in select GM IOA & IOB vehicles while functioning with an aftermarket radio.
- Pre-programmed to retain factory Steering Wheel Controls.
- iPhone Voice Recognition (VR) feature from SWC on select radios.
- Supports Pick Up/End Call, Pick up and Toggle between 1st and 2nd incoming call, AVRCP Track, Seek.
- Supports Non Amplified Systems
- Retains chime functions.
- Retains factory backup camera.*
- Retains factory backup sensors / park assist system.
- EIA color coded wiring for easy installation.

NOTE:
Does not retain the factory backup camera on models that show the camera image on the rear-view mirror.

PARTS INCLUDED:

SWRGM-47 Module

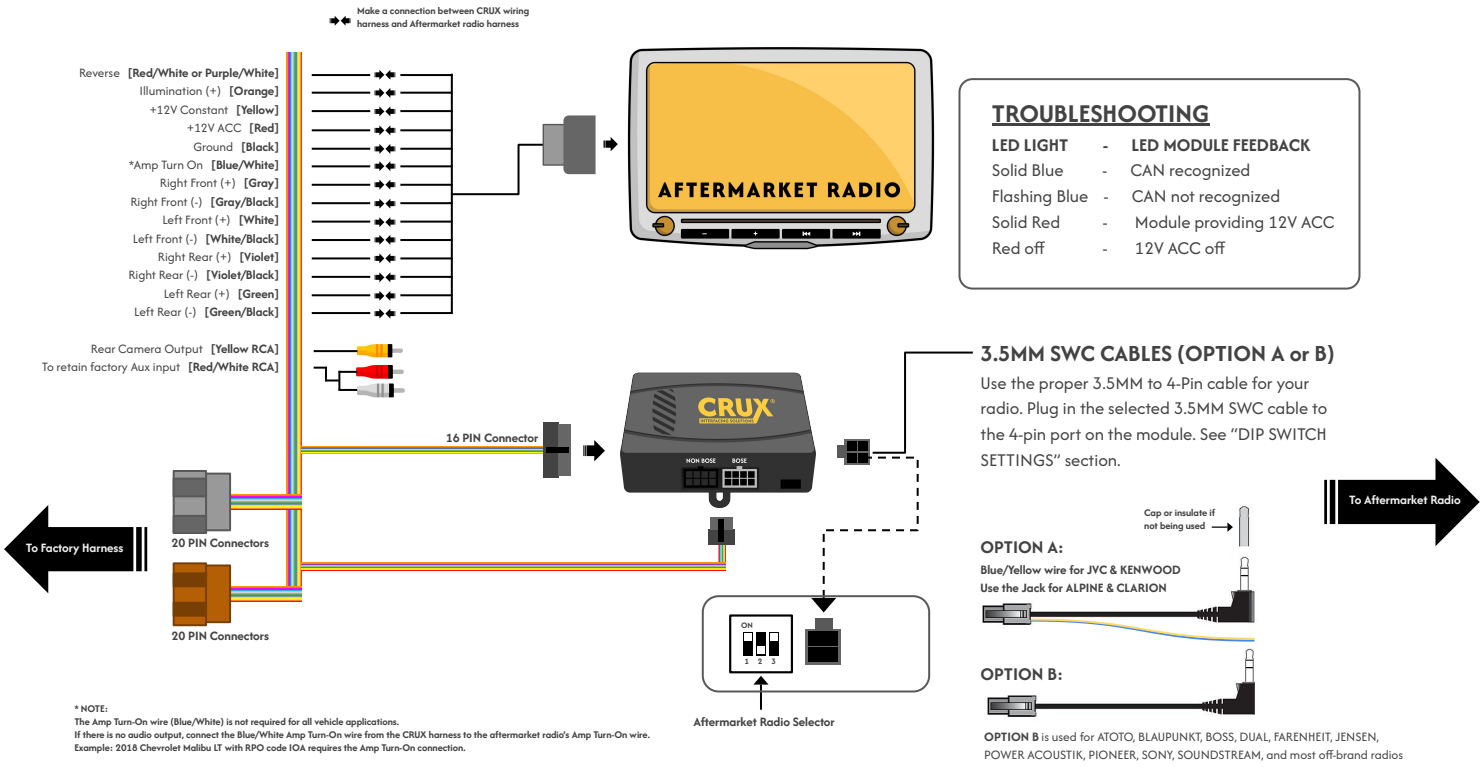

SWRGM-47 Harness

GM-CAM DIS Harness

SWC Cable

Antenna Adapter

INSTALLATION DIAGRAM:



TROUBLESHOOTING

LED LIGHT	-	LED MODULE FEEDBACK
Solid Blue	-	CAN recognized
Flashing Blue	-	CAN not recognized
Solid Red	-	Module providing 12V ACC
Red off	-	12V ACC off

DIP SWITCH SETTINGS:

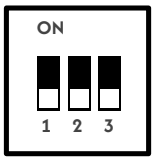
AFTERMARKET RADIO DIP SWITCH SETTINGS:

RADIO BRAND:	DIP#: 1	2	3
Atoto, Dual, Fahrenheit, Jensen, Nakamichi	OFF	ON	ON
Pioneer, Power Acoustik, Soundstream	OFF	ON	ON
Blaupunkt, Most off-brand Radio	OFF	ON	ON
Alpine	OFF	OFF	OFF
Clarion	ON	ON	OFF
Kenwood	ON	ON	ON
JVC	ON	OFF	ON
BOSS, Old Sony	ON	OFF	OFF
New Sony (with CarPlay)	OFF	ON	OFF

SWC TROUBLESHOOTING 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.



SWC Module DIP Switch

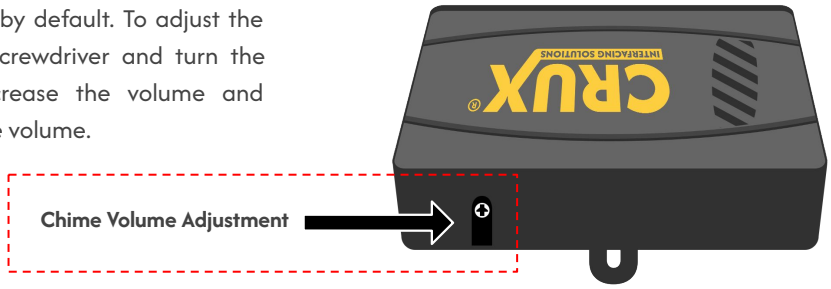
NOTE: For Atoto, Blaupunkt, Dual, Farenheit, Nakamichi, Power Acoustik, Soundstream, and most off-brand radios. Check the aftermarket radio's manual to see if the SWC buttons need to be programmed
** For SWC Learning Radios specific steps are required. Please scan the QR code on the right.*

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:

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

CHIME VOLUME ADJUSTMENT:

The SWRGM-47 has a potentiometer to adjust the chime volume. It is set at the half way by default. To adjust the volume, simply use a suitable screwdriver and turn the potentiometer clockwise to increase the volume and counter-clockwise to decrease the volume.

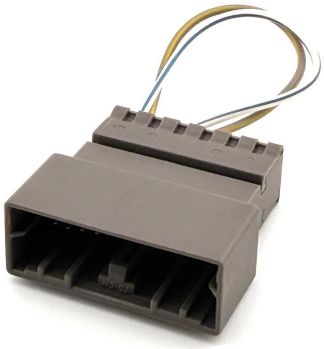


BACKUP CAMERA TROUBLESHOOTING:

PROBLEM: The aftermarket radio does not show the reverse camera image when the vehicle is in reverse.

NOTE: In some GM (IOB) vehicles, the reverse camera image is first displayed on the radio display before appearing on the radio.

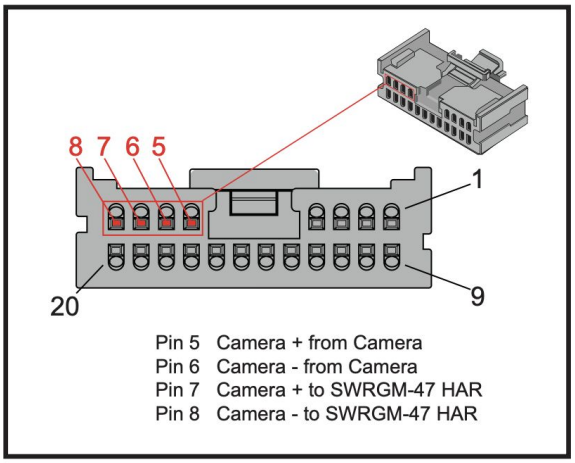
SOLUTION: Connect the camera input and output wires together using the Crux GM-CAM-DIS display harness.



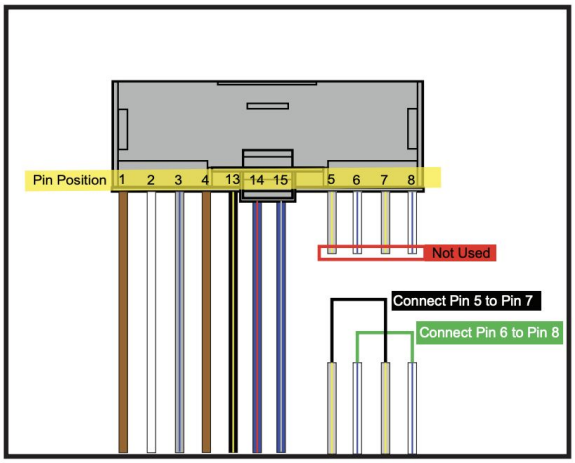
GM-CAM DIS Harness

1. Locate the gray 20-pin connector at the rear of the radio display unit.
2. Utilize the new loop connector to simplify the camera retention process.
3. Connect the loop connector directly to the specified pins on the 20-pin connector.
4. Ensure the loop connector is firmly attached to facilitate the transmission of the camera signal to the aftermarket radio.
5. There is no need to cut or splice wires; the loop connector creates the necessary circuit to retain the reverse camera image on the aftermarket radio.

20 Pin Radio Display Connector (Pin Side View)



20 Pin Radio Display Connector (Top View)



VEHICLE APPLICATIONS:

YEARS	MAKE	MODEL
2016-2018	CHEVROLET	**Camaro** (with 7" screen IOB)
2016-2017	CHEVROLET	**Cruze** (with 7" screen IOA)
2018	CHEVROLET	**Cruze** (with 7" screen IOB)
2016-2017	CHEVROLET	**Malibu** (with 7" screen IOA)
2018	CHEVROLET	**Malibu** (with 7" screen IOB)
2016-2018	CHEVROLET	**Silverado** (with 7" screen IOB)
2019	CHEVROLET	**Silverado Classic** (with 7" screen IOB)
2016-2017	CHEVROLET	**Silverado HD** (with 7" screen IOB)
2017	CHEVROLET	**Sonic** (with 7" screen)
2017-2018	CHEVROLET	**Spark** (with 7" screen)
2017	CHEVROLET	**Trax** (with 7" screen IOA)

YEARS	MAKE	MODEL
2017	GMC	**Acadia** (with 7" IOB)
2016-2017	GMC	**Sierra** (with 7" IOB)
2016-2017	GMC	**Sierra HD** (with 7" IOB)

2017 Chevy Silverado with 7" Display

STEERING WHEEL CONTROL BUTTON FUNCTIONS:

SWC BUTTON	SHORT PRESS	LONG PRESS
VOL +	Step Increment	Continuous VOL +
VOL -	Step Decrement	Continuous VOL -
Arrow Up ▲	Seek Up	Preset
Arrow Down ▼	Seek Down	Preset
SRCE	Source Change	Preset
▶|	Play/Pause	Preset
Voice	Phone Pickup	Voice Command
Mute	Mute	Phone Hang Up

EXAMPLE APPLICATIONS:

- Chevrolet Camaro 2016-2018 (IOB)
- Chevrolet Cruze 2016-2018
- Chevrolet Malibu 2016-2018
- Chevrolet Silverado 2016-2018 (IOB)
- Chevrolet Sonic 2017-2018