



SOOGM-19N

OnStar Radio Replacement Interface with Steering Wheel Control Retention
for GM LAN Bus Vehicles 2010-2017

PRODUCT MANUAL
VER.063026

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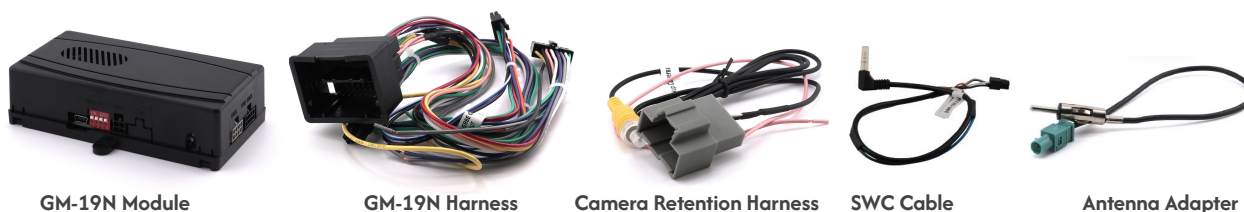
WEBSITE:

www.cruxinterfacing.com

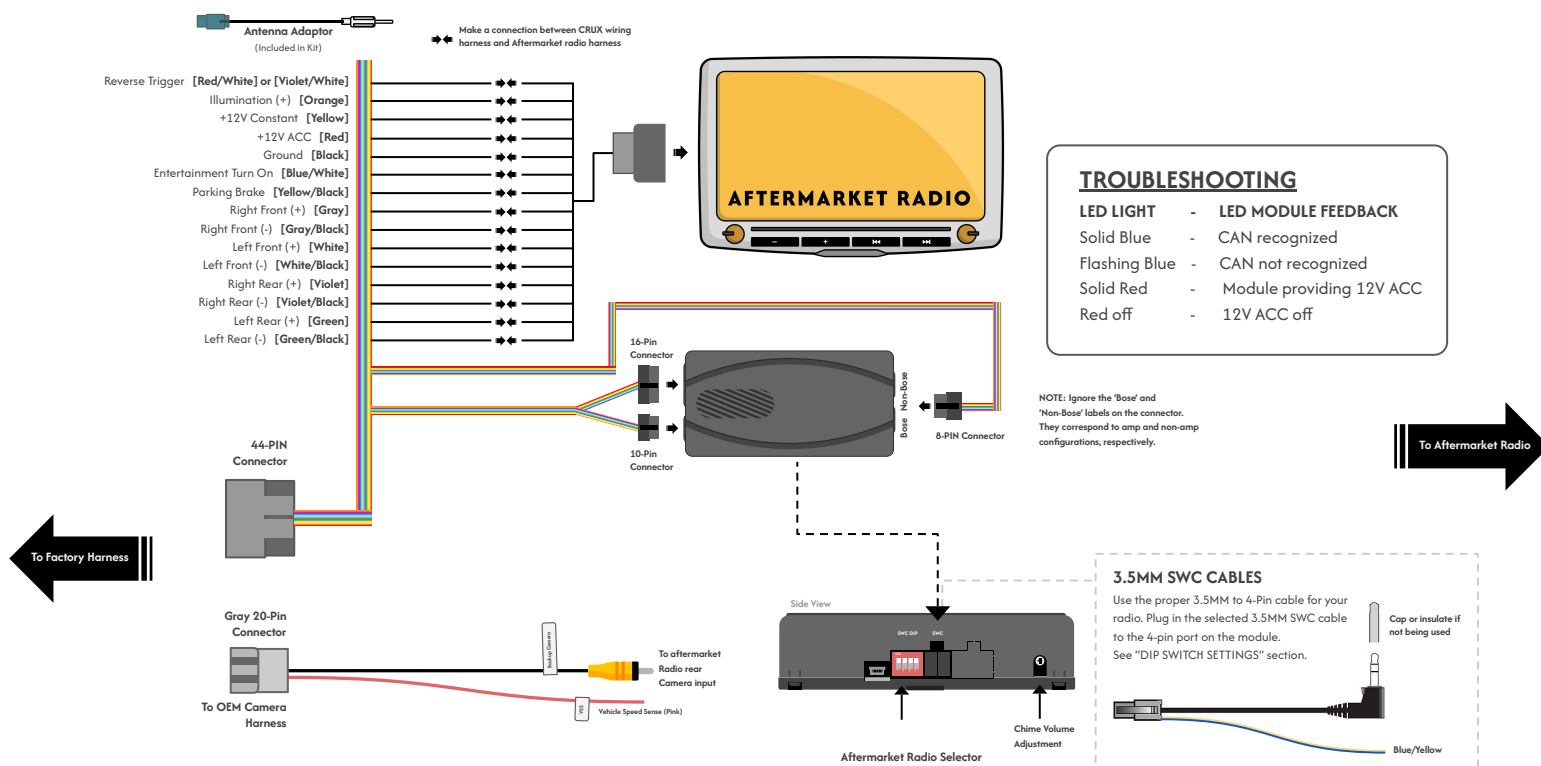
PRODUCT FEATURES:

- Retains factory features in select GM LAN Bus vehicles while functioning with an aftermarket radio.
- Retains OnStar functionality.
- Retains all chime functions.
- Retains factory Steering Wheel Controls via built-in, preprogrammed interface.
- Retains RAP (Retained Accessory Power).
- Retains factory backup camera.
- Includes antenna adapter.

PARTS INCLUDED:



INSTALLATION DIAGRAM:



AUDIO CONNECTION



Amplified (Bose) Port

Non-Amplified
(Non-Bose) Port

Plug in the 8-pin Molex connector of the SOOGM-19N harness to the Black, NON BOSE, port of the module

CHIME VOLUME ADJUSTMENT:

The SOOGM-19N 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.



Chime Volume Adjustment

ONSTAR VOLUME ADJUSTMENT:

To adjust the OnStar volume, turn on OnStar and adjust the volume using the SWC volume adjustment. There are 4 steps of volume control. Once it is set, the SOOGM-19N will memorize this level.

DIP SWITCH SETTINGS:

AFTERMARKET RADIO DIP SWITCH SETTINGS:

RADIO BRAND:	DIP#:	1	2	3	4
Atoto, Dual, Fahrenheit, Jensen, Nakamichi		OFF	OFF	ON	ON
Pioneer, Power Acoustik, Soundstream		OFF	OFF	ON	ON
Blaupunkt, Most off-brand Radio		OFF	OFF	ON	ON
Alpine		OFF	OFF	OFF	OFF
Clarion		OFF	ON	ON	OFF
Kenwood		OFF	ON	ON	ON
JVC		OFF	ON	OFF	ON
BOSS, Old Sony		OFF	ON	OFF	OFF
New Sony (with CarPlay)		OFF	OFF	ON	OFF
SWC Learning Radios*		ON	OFF	OFF	ON
New Boss*		ON	OFF	ON	OFF

NOTE: For Atoto, Blaupunkt, Dual, Fahrenheit, 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 the new Boss and SWC Learning Radios make sure the firmware on the module is SW1.0.2, if not please update

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 SWC1 and SWC2, in this case "shield" does not need to be connected.

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.

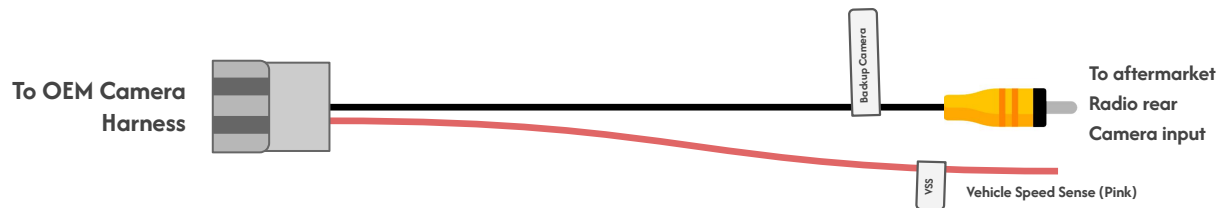


Troubleshooting for SWC Learning Radios

BACKUP CAMERA CONNECTION:

You can retain the factory back-up camera by using the OEM camera retention harness included in the kit.

1. Connect the 20-PIN back-up camera harness to the vehicle's 20-PIN factory backup camera connector.
2. Connect the Yellow video RCA to the new aftermarket radio camera input.
3. Test the video feed before installing the radio back into the dashboard.



NOTE:

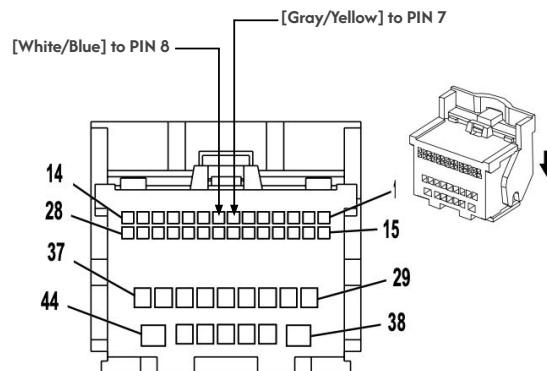
** 2015–2016 Chevrolet Trax Troubleshooting:

The rear view camera (RVC) is not on the 20-pin connector. It is on the main 44-pin connector.

Pin 7: Camera positive (+) — wire color can be Gray/Yellow or Brown/Yellow

Pin 8: Camera negative (–) — White/Blue

Re-pin the factory Gray/Yellow wire to Pin 7 and the factory White/Blue wire to Pin 8. See the diagram for reference.



VEHICLE APPLICATIONS:

CHEVROLET

2011-2015	Cruze
2016	Cruze Classic/Limited
2010-2017	Equinox
2013-2015	Malibu*
2016	Malibu Classic*
2012-2016	Sonic
2012-2015	Spark
2016	Spark Classic

CHEVROLET

2015-2016	** Trax
2015	Volt
BUICK	
2017	Cascade
2015-2016	Encore

GMC

2010-2017	Terrain
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NOTES:

- Does not retain factory satellite radio.

* Not compatible on Malibu models with navigation radio.

** See Trax Troubleshooting note.