



SWRGM-48

Radio Replacement Interface with Steering Wheel Control Retention for
select GM Class II Vehicles

PRODUCT MANUAL
VER.063026

CONTACT

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PRODUCT FEATURES:

- Retains factory features in select GM Class II Data Bus vehicles while functioning with an aftermarket radio.
- Pre-programmed to retain factory Steering Wheel Controls.
- Voice Recognition Command from factory SWC.
- Supports Bose, non-Bose and Y-91 audio systems.
- Retains chime functions.
- Built-in chime volume adjustment.
- EIA color coded wiring for easy installation.

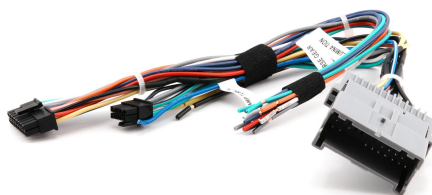
NOTE:

1. **DOES NOT** support ONSTAR, if OnStar retention is desired, please use CRUX part number SOOGM-15.

PARTS INCLUDED:



SWRGM-48 Module



SWRGM-48 Harness

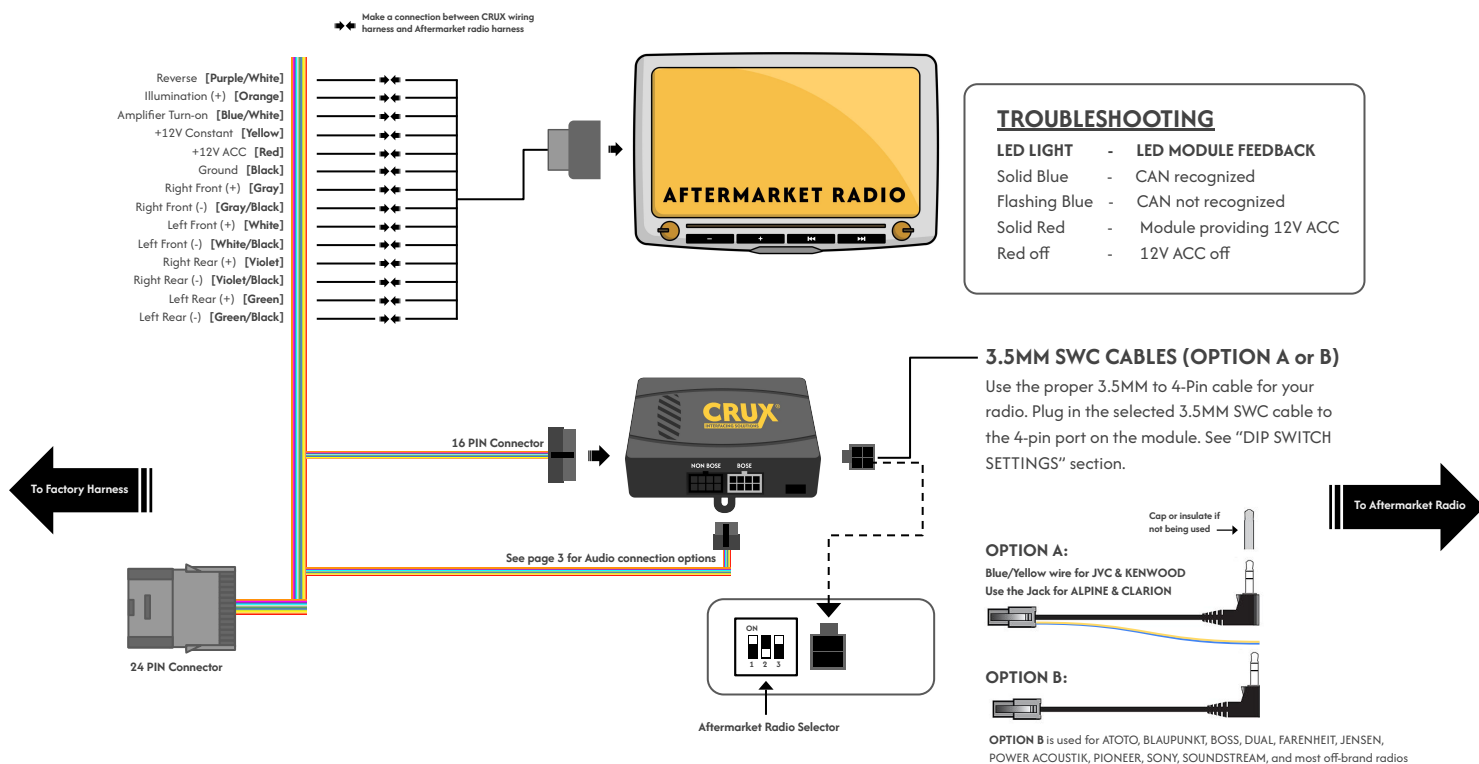


SWC Cables



Antenna Adapter

INSTALLATION DIAGRAM:



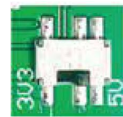
DIP SWITCH SETTINGS:

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

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 SWC Learning Radios specific steps are required. Please scan the QR code on the right.

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

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:

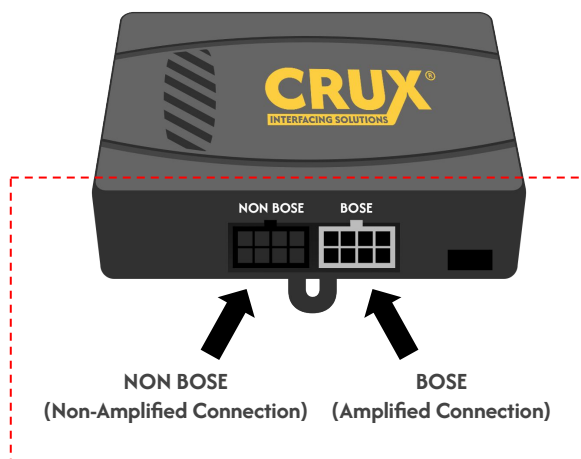


Note that there are some radios that only have SWC1 and SWC2, in this case "shield" does not need to be connected.

SELECTING THE AUDIO SYSTEM:

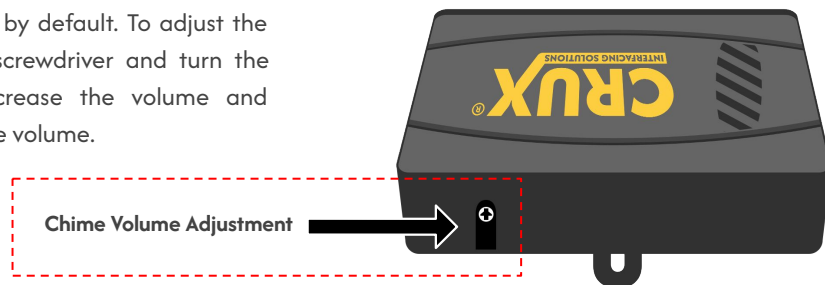
If the vehicle is equipped with an amplified audio system, the SWRGM-48 has a built-in audio level adaptor that outputs the proper audio level from the aftermarket radio to the factory amplifier. To use this feature, plug in the male 8-PIN connector on the SWRGM-48 harness to the GRAY female 8-PIN connector on the SWRGM-48 module. The module is also labeled "BOSE" and "NON BOSE" to avoid confusion. (see image for reference)

If vehicle is NOT equipped with a factory amplified system, plug-in the male 8-PIN connector the the BLACK female 8-PIN on the SWRGM-48 module.



CHIME VOLUME ADJUSTMENT:

The SWRGM-48 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.



VEHICLE APPLICATIONS:

YEARS	MAKE	MODEL	YEARS	MAKE	MODEL
2004-2005	BUICK	Century*	2004-2011	GMC	Canyon
2005-2007	BUICK	LaCrosse*	2002-2009	GMC	Envoy
2004-2007	BUICK	Rainier*	2003-2007	GMC	Savana
2003-2007	BUICK	Rendezvous*	2003-2006	GMC	Sierra
2005-2007	BUICK	Terraza*	2007	GMC	Sierra Classic
2003-2006	CADILLAC	Escalade	2003-2006	GMC	Yukon
2003-2006	CHEVROLET	Avalanche	2003-2007	HUMMER	H2
2000-2005	CHEVROLET	Cavalier	2005-2010	HUMMER	H3
2004-2013	CHEVROLET	Colorado	2001-2004	OLDSMOBILE	Alero*
2005-2013	CHEVROLET	Corvette*	2002-2004	OLDSMOBILE	Bravada*
2004-2007	CHEVROLET	Express	2000-2004	OLDSMOBILE	Silhouette*
2000-2005	CHEVROLET	Impala*	2001-2005	PONTIAC	Aztec*
2001-2003	CHEVROLET	Malibu	2001-2005	PONTIAC	Grand Am*
2000-2005	CHEVROLET	Monte Carlo*	2004-2008	PONTIAC	Grand Prix*
2003-2004	CHEVROLET	S-10	2000-2006	PONTIAC	Montana*
2003-2006	CHEVROLET	Silverado	2000-2005	PONTIAC	Sunfire*
2007	CHEVROLET	Silverado Classic	2005-2008	SAAB	9-7X
2003-2006	CHEVROLET	SSR	2005-2007	SATURN	Relay
2003-2006	CHEVROLET	Suburban			
2003-2006	CHEVROLET	Tahoe			
2002-2009	CHEVROLET	Trailblazer			
2005-2008	CHEVROLET	Uplander			
2003-2005	CHEVROLET	Venture			
2003-2008	ISUZU	Ascender			

*Analog Steering Wheel Controls. See page 5 and 6 for SWC button functions

STEERING WHEEL CONTROL BUTTON FUNCTIONS:

4 Button SWC

SWC BUTTON	SHORT PRESS	LONG PRESS
VOL +	Step Increment	Continuous VOL +
VOL -	Step Decrement	Continuous VOL -
AM/FM	Source	Pick Up Call
Preset	Activate VR	End Call

NOTES:

To Deactivate VR [on **Pioneer**, short press "PRESET"] [on **JVC** say "Cancel"]
 [on **Kenwood**, long press "PRESET"]

4 Button SWC - ALPINE

SWC BUTTON	SHORT PRESS	LONG PRESS
VOL +	Step Increment	Continuous VOL +
VOL -	Step Decrement	Continuous VOL -
Seek Up	Seek Up	N/A
Seek Down	Seek Down	N/A
Source Up	Pick Up Call	End Call
Source Down	Source	N/A
Prog	N/A	N/A
Voice	N/A	N/A

4 Button SWC - CLARION

SWC BUTTON	SHORT PRESS	LONG PRESS
VOL +	Step Increment	Continuous VOL +
VOL -	Step Decrement	Continuous VOL -
Seek Up	Preset Up	N/A
Seek Down	Preset Down	N/A
Source Up	Pick Up Call	End Call
Source Down	Source	N/A
Prog	Mute	N/A
Voice	Mute	N/A

4 Button SWC - JVC

SWC BUTTON	SHORT PRESS	LONG PRESS
VOL +	Step Increment	Continuous VOL +
VOL -	Step Decrement	Continuous VOL -
Seek Up	Seek Up	N/A
Seek Down	Seek Down	N/A
Source Up	Pick Up Call	End Call
Source Down	Source	N/A
Prog	Activate Voice Recognition	N/A
Voice	Activate Voice Recognition	N/A

NOTE:

To Deactivate VR, say "Cancel".

4 Button SWC - Kenwood

SWC BUTTON	SHORT PRESS	LONG PRESS
VOL +	Step Increment	Continuous VOL +
VOL -	Step Decrement	Continuous VOL -
Seek Up	Seek Up	Tune up
Seek Down	Seek Down	Tune Down
Source Up	Pick Up Call	End Call, Deactivate VR
Source Down	Source	N/A
Prog	Activate Voice Recognition	Deactivate VR
Voice	Activate Voice Recognition	N/A

4 Button SWC - Pioneer

SWC BUTTON	SHORT PRESS	LONG PRESS
VOL +	Step Increment	Continuous VOL +
VOL -	Step Decrement	Continuous VOL -
Seek Up	Preset Up	N/A
Seek Down	Preset Down	N/A
Source Up	Pick Up Call	End Call
Source Down	Source	N/A
Prog	Activate Voice Recognition	End Call, Deactivate VR
Voice	Activate Voice Recognition	Deactivate VR

STEERING WHEEL CONTROL BUTTON FUNCTIONS:

ANALOG SWC

BUICK - Century, LaCrosse, Rainier,
Rendezvous, Terraza

CHEVROLET - Corvette, Impala, Monte Carlo

OLDSMOBILE - Alero, Bravada, Silhouette

PONTIAC - Aztec, Grand AM, Grand Prix,
Montana, SUNfire

ALPINE

SWC BUTTON	SHORT PRESS	LONG PRESS
VOL +	Step Increment	Continuous VOL +
VOL -	Step Decrement	Continuous VOL -
Mode / Play	Source	N/A
Mute	Attenuation	N/A
Seek Up	Seek Up	N/A
Seek Down	Seek Down	N/A
Type Seek / Band	Pick up Call	N/A
Preset / 1-6	N/A	End Call

CLARION

SWC BUTTON	SHORT PRESS	LONG PRESS
VOL +	Step Increment	Continuous VOL +
VOL -	Step Decrement	Continuous VOL -
Mode / Play	Source	N/A
MUTE	Mute	N/A
Seek Up	Preset Up	N/A
Seek Down	Preset Down	N/A
Type Seek / Band	Pickup Call	End Call
Preset / 1-6	Activate Voice Recognition	N/A

JVC

SWC BUTTON	SHORT PRESS	LONG PRESS
VOL +	Step Increment	Continuous VOL +
VOL -	Step Decrement	Continuous VOL -
Mode / Play	Source	N/A
MUTE	Mute	N/A
Seek Up	Seek Up	N/A
Seek Down	Seek Down	N/A
Type Seek / Band	Pickup Call	End Call
Preset / 1-6	Activate Voice Recognition	N/A

NOTE:

To Deactivate VR, say "Cancel".

Kenwood

SWC BUTTON	SHORT PRESS	LONG PRESS
VOL +	Step Increment	Continuous VOL +
VOL -	Step Decrement	Continuous VOL -
Mode / Play	Source	N/A
MUTE	Mute	N/A
Seek Up	Preset Up	N/A
Seek Down	Preset Down	N/A
Type Seek / Band	Pickup Call	End Call, Deactivate VR
Preset / 1-6	Activate/Deactivate VR	N/A

Pioneer

SWC BUTTON	SHORT PRESS	LONG PRESS
VOL +	Step Increment	Continuous VOL +
VOL -	Step Decrement	Continuous VOL -
Mode / Play	Source	N/A
MUTE	Mute	N/A
Seek Up	Preset Up	N/A
Seek Down	Preset Down	N/A
Type Seek / Band	Pick Up Call	End Call
Preset / 1-6	Activate/Deactivate VR	N/A