

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.

PARTS INCLUDED:



SWRGM-48 MODULE

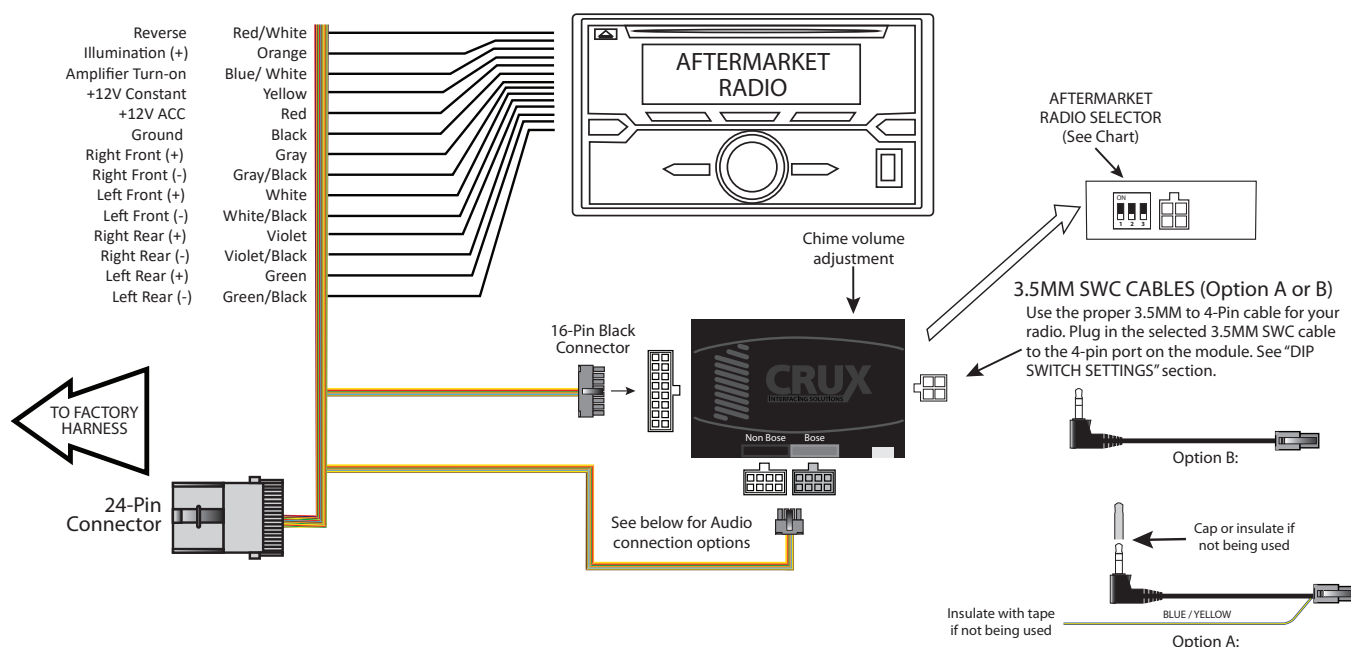


SWRGM-48 HARNESS



SWC CABLE

INSTALLATION DIAGRAM:



DIP SWITCH SETTINGS:

AFTERMARKET RADIO DIP SWITCH SETTINGS:

RADIO BRAND:	DIP#:	1	2	3
Atoto, Dual, Fahrenheit, Jensen		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		OFF	ON	OFF

SWC MODULE
DIP SWITCH



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. Use the Blue/Yellow wire for JVC and KENWOOD units.
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 (option B) and connect the SWC wires as follows:



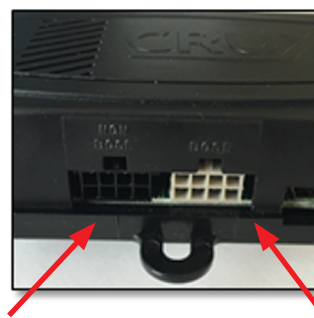
RED to SWC Key 1
WHITE to SWC Key 2
SHIELD to SWC Ground

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

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 picture below)

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



NON BOSE
(Non-Amplified)
Connection

BOSE
(Amplified)
Connection



CHIME VOLUME ADJUSTMENT:

The SWRGM-48 has a potentiometer to adjust the chime volume. It is set at half way by default. To adjust the volume, simply use a suitable screw driver and turn the potentiometer clockwise to increase the volume and counter-clockwise to decrease the volume.

Chime
Volume
Adjustment



STEERING WHEEL CONTROL BUTTON FUNCTIONS:

4 BUTTON SWC

<u>SWC Button</u>	<u>SHORT PRESS</u>	<u>LONG PRESS</u>
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, press "PRESET"
on JVC = say "Cancel"

To Deactivate VR =
on Kenwood, long press of PRESET

4 BUTTON SWC

<u>SWC Button</u>	<u>SHORT PRESS</u>	<u>LONG PRESS</u>
ALPINE		
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		
Voice		

<u>SWC Button</u>	<u>SHORT PRESS</u>	<u>LONG PRESS</u>
CLARION		
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



<u>SWC Button</u>	<u>SHORT PRESS</u>	<u>LONG PRESS</u>
JVC		
VOL +	Step Increment	Continuous VOL +
VOL -	Step Decrement	Continuous VOL -
Seek Up	Seek Up	N/A
Seek Up ▲	Seek Down	N/A
Seek Down ▼	Pick up Call	End Call
Source Down	Source	N/A
Prog	Activate Voice Recognition	N/A
Voice	Activate Voice Recognition	N/A

NOTE: Say "CANCEL" to Deactivate VR

<u>SWC Button</u>	<u>SHORT PRESS</u>	<u>LONG PRESS</u>
KENWOOD		
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

NOTE: BT Inactive, Source Up Activate
Call History

<u>SWC Button</u>	<u>SHORT PRESS</u>	<u>LONG PRESS</u>
PIONEER		
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	Deactivate VR, End Call
Voice	Activate Voice Recognition	Deactivate VR



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

<u>SWC Button</u>	<u>SHORT PRESS</u>	<u>LONG PRESS</u>
ALPINE		
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		End Call

<u>SWC Button</u>	<u>SHORT PRESS</u>	<u>LONG PRESS</u>
CLARION		
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	N/A	N/A

<u>SWC Button</u>	<u>SHORT PRESS</u>	<u>LONG PRESS</u>
JVC		
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	Pick up Call	End Call
Preset / 1-6	Activate Voice Recognition	N/A

NOTE: Say "CANCEL" to Deactivate VR



<u>SWC Button</u>	<u>SHORT PRESS</u>	<u>LONG PRESS</u>
KENWOOD		
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	End Call, Deactivate VR
Preset / 1-6	Activate Voice Recognition	N/A
PIONEER		
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 Voice Recognition / Deactivate Voice Recognition	N/A

VEHICLE APPLICATIONS:

Buick

2004-2005	Century*
2005-2007	LaCrosse*
2004-2007	Rainier*
2003-2007	Rendezvous*
2005-2007	Terraza*

Cadillac

2003-2006	Escalade
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Chevrolet

2003-2006	Avalanche
2000-2005	Cavalier
2004-2013	Colorado
2005-2013	Corvette*
2004-2007	Express
2000-2005	Impala*
2001-2003	Malibu
2000-2005	Monte Carlo*
2003-2004	S-10
2003-2006	Silverado
2007	Silverado Classic
2003-2006	SSR
2003-2006	Suburban
2003-2006	Tahoe
2002-2009	Trailblazer
2005-2008	Uplander
2003-2005	Venture

Isuzu

2003-2008	Ascender
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GMC

2004-2011	Canyon
2002-2009	Envoy
2003-2007	Savana
2003-2006	Sierra
2007	Sierra Classic
2003-2006	Yukon

Hummer

2003-2007	H2
2005-2010	H3

Oldsmobile

2001-2004	Alero*
2002-2004	Bravada*
2000-2004	Silhouette*

Pontiac

2001-2005	Aztec*
2001-2005	Grand Am*
2004-2008	Grand Prix*
2000-2006	Montana*
2000-2005	Sunfire*

Saab

2005-2008	9-7X
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Saturn

2005-2007	Relay
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*Analog Steering Wheel Controls. See pages 5 and 6 for SWC button functions.

