

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

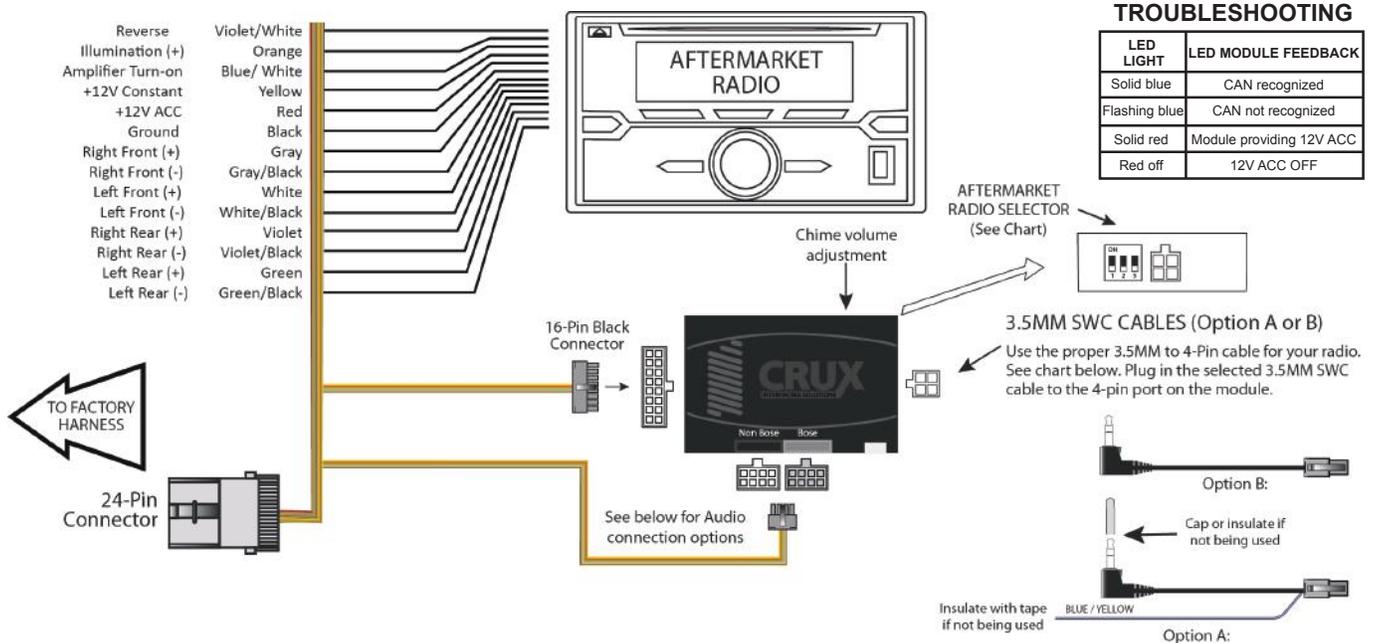


SWRGM-48 HARNESS



SWC CABLE

INSTALLATION DIAGRAM:

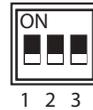


DIP SWITCH SETTINGS:

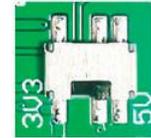
AFTERMARKET RADIO DIP SWITCH SETTINGS:

RADIO BRAND:	DIP#:	1	2	3
Atoto, Dual, Fahrenheit, Jensen, Nakamichi, 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 MODULE DIP SWITCH



SWC Troubleshoot 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.

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.

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

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, press "PRESET"
 on JVC = say "Cancel"

To Deactivate VR =
 on Kenwood, long press of PRESET

4 BUTTON SWC

SWC Button	SHORT PRESS	LONG PRESS
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		

SWC Button	SHORT PRESS	LONG PRESS
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



STEERING WHEEL CONTROL BUTTON FUNCTIONS (Continued):

SWC Button	SHORT PRESS	LONG PRESS
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

SWC Button	SHORT PRESS	LONG PRESS
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

SWC Button	SHORT PRESS	LONG PRESS
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



STEERING WHEEL CONTROL BUTTON FUNCTIONS (Continued):

ANALOG SWC

BUICK – Century, LaCrosse, Rainier, Rendevous, Terraza

CHEVROLET – Corvette, Impala, Monte Carlo

OLDSMOBILE – Alero, Bravada, Silhouette

PONTIAC – Aztec, Grand Am, Grand Prix, Montana, Sunfire

SWC Button	SHORT PRESS	LONG PRESS
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

SWC Button	SHORT PRESS	LONG PRESS
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

SWC Button	SHORT PRESS	LONG PRESS
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



STEERING WHEEL CONTROL BUTTON FUNCTIONS (Continued):

SWC Button	SHORT PRESS	LONG PRESS
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

SWC Button	SHORT PRESS	LONG PRESS
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



STEERING WHEEL CONTROL SETTINGS:

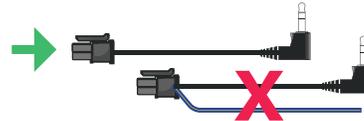
Note: Identify Alpine SWC learning radios by checking for three SWC cables and a SWC learn menu, instead of a 3.5mm SWC input.

If Interface has one SWR-100 Cable included

If Interface has two SWR Cables included

1 - Find the included SWC adapter cable.

1 - Identify appropriate SWC adapter cable. Do not use cable with Blue / Yellow wire.



2 - Prepare the SWC Cable: Cut the SWC cable. You will find a red wire, a white wire, and a ground (shield) wire inside.



3 - Adjust the Module Settings: Set the module to the Pioneer dip switch setting. This configures the module to communicate correctly with the Alpine radio.

On Alpine iLX series radios use Pioneer settings

DIP: 1	2	3	4
OFF	OFF	ON	ON



4 - Configure the Alpine Radio: On your Alpine radio, select the setting that includes an adapter for SWC. This ensures the radio will recognize the steering wheel controls.

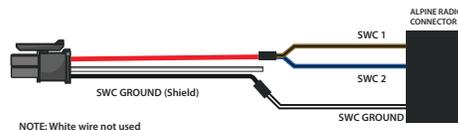
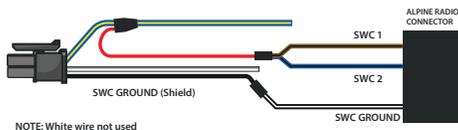
Select "SWC Adapter"



Select the setting "With Adapter"



5 - Connect the Wires: Connect both the SWC1 and SWC2 wires from aftermarket radio to the red wire from our SWC cable. Connect the SWC ground wire to the shield (ground) wire of our SWC cable. These steps should enable the steering wheel controls on your Alpine iLX series radio.



6. Program the SWC: Navigate to the SWC settings on your Alpine radio to assign and test each control function.



VEHICLE APPLICATIONS:

Buick

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

Cadillac

2003-2006 Escalade

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

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

Saturn

2005-2007 Relay

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

