

## 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.
- Supports Bose, non-Bose and Y-91 audio systems.
- Provides navigational outputs: Amp turn-on, Illumination, Parking Brake and Reverse.
- Retains OnStar and chime functions.
- EIA color coded wiring for easy installation.

## NOTES:

1. The Front and Rear fading are not retained on Y-91 Bose System.
2. The OnStar volume output is defaulted to low gain.
3. Does not retain rear seat volume controls.

## PARTS INCLUDED:



SOOGM-15 Module

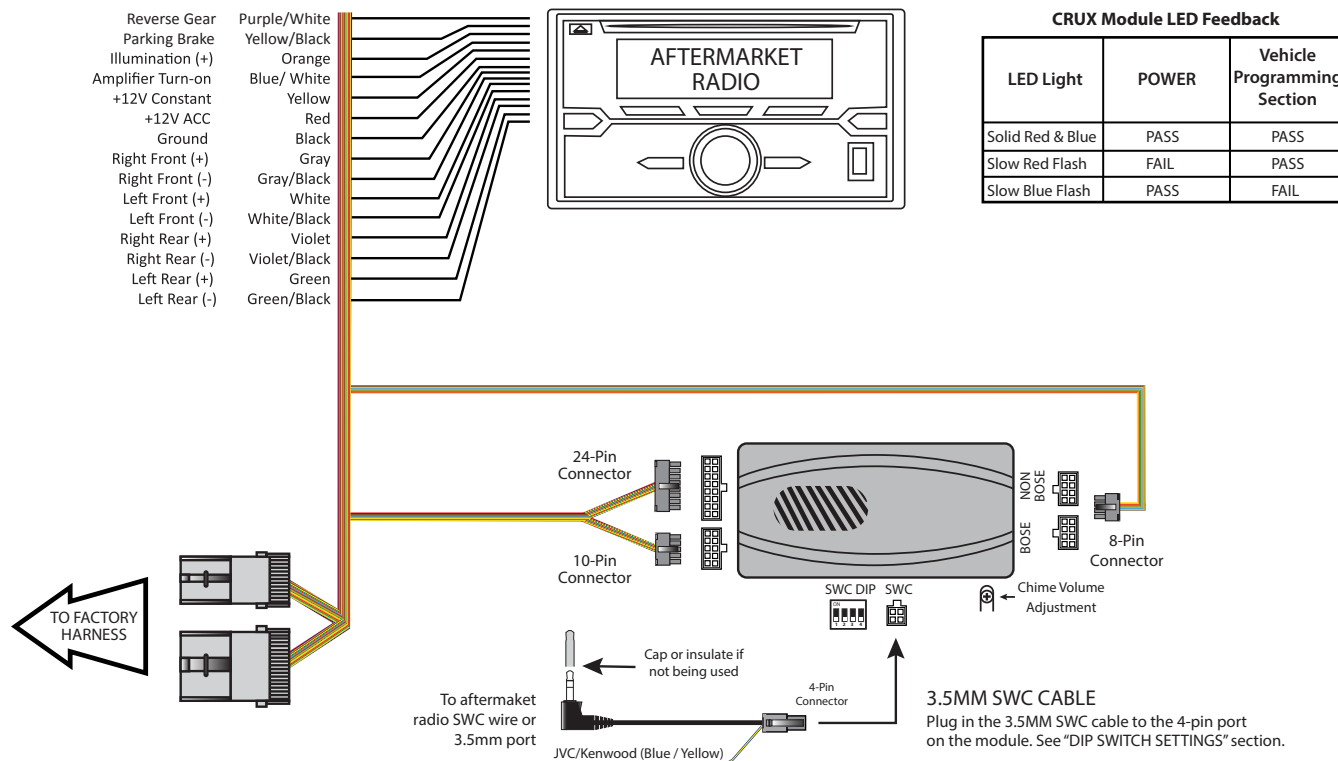


SOOGM-15 Harness



SWC Cable

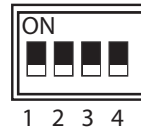
## INSTALLATION DIAGRAM:



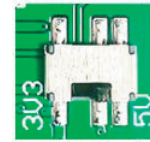
## DIP SWITCH SETTINGS:

RADIO BRAND:	DIP#:	1	2	3	4
Atoto, Dual, Fahrenheit, Jensen,		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		OFF	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, Power Acoustik, Soundstream, and most off-brand radios, check the aftermarket radio's manual to see if the SWC buttons need to be programmed.

### 3.5MM SWC CABLE

Plug in the 3.5MM to 4-Pin SWC cable to the SWC module or use the Blue/Yellow wire for JVC and Kenwood.

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.



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

## SELECTING THE AUDIO SYSTEM:

If the vehicle is equipped with an amplified audio system, the SOOGM-15 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 SOOGM-15 harness to the GRAY female 8-pin connector on the SOOGM-15 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 SOOGM-15 module.



BOSE  
(Amplified)  
Connection

Non-BOSE  
(Non-Amplified)  
Connection

## CHIME VOLUME ADJUSTMENT:

The SOOGM-15 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



## ONSTAR VOLUME ADJUSTMENT:

To adjust the OnStar volume, turn on OnStar and adjust the volume using the Steering Wheel Control volume adjustment. Once it is set, the SOOGM-15 will memorize this level.

## 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:

SWC Button	SHORT PRESS	LONG PRESS
<b>JVC</b>		
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
<b>KENWOOD</b>		
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
<b>PIONEER</b>		
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:

### 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
<b>ALPINE</b>		
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
<b>CLARION</b>		
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
<b>JVC</b>		
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:**

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

<u>SWC Button</u>	<u>SHORT PRESS</u>	<u>LONG PRESS</u>
<b>PIONEER</b>		
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

**TROUBLE SHOOTING**



If your amplifier turns  
on and off while driving,  
scan here for help



## STEERING WHEEL CONTROL SETTINGS:

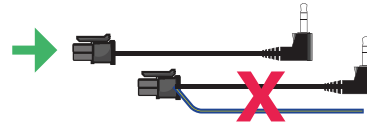
**Note:** Identify Alpine SWC learning radios by checking for three SWC cables and a SWC learn menu, instead of a 3.5mm SWC input.

### If Interface has one SWR-100 Cable included

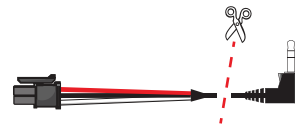
### If Interface has two SWR Cables included

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.

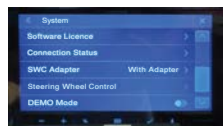
On Alpine iLX series radios use Pioneer settings

DIP:	1	2	3	4
	OFF	OFF	ON	ON



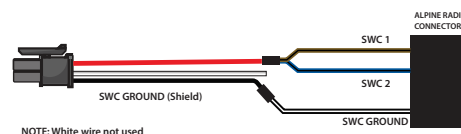
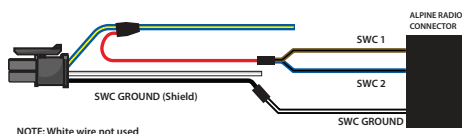
4 - Configure the Alpine Radio: On your Alpine radio, select the setting that includes "Without adapter" for SWC. This ensures the radio will recognize the steering wheel controls.

Select "SWC Adapter"



Select the setting "Without 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

2004-2006	Escalade
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### CHEVROLET

2003-2006	Avalanche
2000-2005	Cavalier
2004-2011	Colorado
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

### GMC

2004-2011	Canyon
2002-2009	Envoy

### GMC

2003-2007	Savana
2003-2006	Sierra
2007	Sierra Classic
2003-2006	Yukon

### HUMMER

2003-2007	H2
2005-2010	H3

### ISUZU

2003-2008	Ascender
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### 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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## NOTE:

- Does not retain rear seat volume controls, to retain function please purchase RSE connector separately.
- If experiencing intermittent amp issues, please contact CRUX technical support.

