

SWRGM-51 Radio Replacement Interface with Steering Wheel Control Retention

for Select GM LAN 11-Bit Vehicles 2006-2012

PRODUCT FEATURES:

- Retains factory features in select GM LAN 11 Bit vehicles while functioning with an aftermarket radio.
- Pre-programmed to retain factory Steering Wheel Controls.
- Supports Bose, non-Bose and Y-91 audio systems.
- Retains chime functions.
- Retains front and rear parking sensors.
- EIA color coded wiring for easy installation.

NOTE:

Does NOT retain OnStar.

PARTS INCLUDED:











SWRGM-51 MODULE

INSTALLATION DIAGRAM:

GM-51A HARNESS

GM-51B Harness

SWC CABLES

Antenna Adapter

TROUBLESHOOTING LED ED MODULE FEEDBACK LIGHT CAN recognized Solid blue Flashing blue CAN not recognized Solid red Module providing 12V ACC Reverse Red/White Illumina on (+) Orange Red off 12V ACC OFF AFTERMARKET Amplifier Turn-on Blue/White RADIO +12V Constant Yellow +12V ACC AFTERMARKET Red Ground Black RADIO SELECTOR (See Chart) Right Front (+) Gray Gray/Black Right Front (-) Le Front (+) White Le Front (-) White/Black Right Rear (+) Violet Right Rear (-) Violet/Black Le Rear (+) Green Le Rear (-) Green/Black 3.5MM SWC CABLES (Option A or B) Use the proper 3.5MM to 4-Pin cable for your radio. 16-Pin Black Plug in the selected 3.5MM SWC cable to the 4-pin port Connector 16 & 14-Pin on the module. See "DIP SWITCH SETTINGS" section. Connector Harness Option B: TO FACTORY HARNESS BLUE / YELLOW wire for JVC & KENWOOD Insulate with tape if not being used OR See page 2 for Audio Option A: connection options 24-Pin Connector Cap or insulate if Harness not being used 1 of 3 rev.020420 Crux Interfacing Solutions • 21541 Nordhoff St., Unit C, Chatsworth, CA 91311

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DIP SWITCH SETTINGS:

AFTERMARKET RADIO DIP SWITCH SETTINGS:

RADIO BRAND: DIP#:	1	2	3	
Atoto, Dual, Fahrenheit, Jensen Pioneer, Power Acoustik, Soundstream Blaupunkt, Most off-brand Radio Alpine Clarion Kenwood JVC Boss, Old Sony New Sony	OFF OFF OFF ON ON ON ON ON	ON ON OFF ON OFF OFF ON	ON ON OFF OFF ON ON OFF	SWC MODULE DIP SWITCH

NOTE: For Atoto, Blaupunkt, Dual, Farenheit, 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, JVC, and KENWOOD units (Blue/Yellow wire is attached) 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 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-51 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-51 harness to the GRAY female 8-pin connector on the SWRGM-51 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-51 module.



(Non-Amplified) Connection (Amplified) Connection



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CHIME VOLUME ADJUSTMENT:

The SWRGM-51 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.



VEHICLE APPLICATIONS:

16 and 14 PIN CONNECTOR

CHEVROLET

Cobalt
HHR
Malibu

PONTIAC

2007-2010	G5
2006-2010	Solstice

SATURN

2007-2010	Aura
2007	lon
2007-2009	Sky

24 PIN CONNECTOR

CHEVROLET	
2005-2006	Cobalt
2004-2007	Malibu

PONTIAC

2005-2009

G6



rev.020420