SCOSCHE®

GM20SR

CADILLAC CTS/SRX RADIO REPLACEMENT INSTALLATION INSTRUCTIONS

The **GM20SR** is a plug and play interface that allows replacement of a General Motors Class II factory stereo in Cadillac CTS and SRX vehicles. It will maintain operation of the OnStar® and factory amplified systems. The **GM20SR** has on board switching to allow audio from the OnStar® system to play through the two front factory speakers when OnStar® is active. It also retains warning chimes for Onstar® operation. For additional vehicle integration, use Scosche's line of **SWC-1** steering wheel controls (SWC) interfaces to retain SWC's with the aftermarket radio. Also retains Vehicle Parking Assist chimes.

- Class II circuitry will not disable vehicle data bus even if interface loses power.
- OnStar® active LED and Ignition on LED
- Provides +12v switched accessory output. No more searching for switched +12v in fuse box or kick panel.
- Mute output to either mute the aftermarket radio or to turn it off when OnStar® is active.
- OnStar® Volume control via factory steering wheel audio controls or click wheel .
- New radio will operate with the vehicle RAP (Retained Accessory Power) system, stays on after the key is turned off and for 10 minutes or until a door is opened.

NOTE:
1. The **GM20SR** does not retain the factory XM receiver, you will lose this option when the factory radio is replaced with an aftermarket radio.
2. You may use this interface even if the vehicle does not have OnStar® but need to the interface to operate the factory amplifier.
3. OnStar® must be enabled using the OnStar® button on the rear view mirror, steering wheel OnStar® button will not enable OnStar®.
4. OnStar® volume is not adjustable on CTS-V and SRX models, volume is preset at medium level.
5. Not compatible with SRX Factory Navigation Radios.

SUPPORTED VEHICLES

2003-2007 CTS Compatible with both Navigation and Non-Navigation Radios
2004-2007 SRX Compatible with Non-Navigation Radios. **Not Compatible with Navigation Radios.**

INSTALLATION

NOTE: New vehicles are constantly being researched. If your vehicle is not listed above, check our web site for any new updates or instructions.

CONNECTING THE GM20SR

NOTE: Due to the design of the Standard Amplified system, there is currently no way of fading from front to rear with an aftermarket radio.

NOTE: If using a **SWC-1** (SWC), the green wire on the **SWC-1** is connected to the red wire of the red 20-pin harness. **SWC-1 must be programmed for Version #1.**

Step 1. Prewire the **GM20SR** 18-pin wire harness to the aftermarket stereo wire harness. If the aftermarket stereo has a mute wire, cut the brown wire as close as possible to pin #16 of the **GM20SR** 18-pin harness and connect this mute output wire to the stereo's mute wire. The amp remote wire (Blu/Wht) **must** be connected to the stereo's remote wire. Connect the 16-pin wire harness to the **GM20SR** main interface.

Step 2. Connect the black 8-pin, brown 8-pin, and the red 20-pin harness to the factory radio harnesses. Connect the 16-pin wire harness into the **GM20SR**.

TESTING AND VERIFYING OPERATION

1. Turn ignition on. The red ignition LED on the side of the interface will turn on and the +12v accessory wire will turn on.
2. Turn on the radio and check the balance. **NOTE:** Audio will not fade as the rear outputs of aftermarket radio can not be used.
3. Pressing the OnStar® button on the mirror will mute or turn off the radio and allow the audio to be heard from the speakers. The OnStar® active red LED will also turn on. When OnStar® disconnects, the radio will un-mute or turn back on and the OnStar® LED will turn off. OnStar® audio level can be adjusted using the volume controls on the steering wheel (volume level is preset for CTS-V and SRX vehicles)
4. Turn off vehicle and remove key. RAP will be active and keep the radio on for 10 minutes or until a door is opened.
5. The red LED and radio will turn off when RAP turns off or door is opened.

DISCLAIMER

In no event shall Scosche be responsible for claims beyond the replacement value of the defective product, or in any way liable or responsible for consequential or incidental damages.

If you have any further questions call:
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TECH HELP 1-800-621-3695x3
GM20SR 4/06 (3000003)

CONNECTING THE GM20SR

BLACK 8-PIN CONNECTOR

BROWN 8-PIN CONNECTOR

RED 20-PIN CONNECTOR

OPTIONAL: CONNECT RED WIRE TO THE GREEN WIRE OF THE SWC-1 SERIES

RED WIRE

CUT BROWN WIRE AT PIN #16 AND CONNECT IT TO MUTE INPUT WIRE OF RADIO

16-PIN HARNESS

OnStar® Active

IGNITION ON LED

SCOSCHE®

GM20SR

GENERAL MOTORS CLASS II ONSTAR® INTERFACE
FACTORY RADIO REPLACEMENT
RETENTION OF BOSE® AMPLIFIER AND ONSTAR®
OPTION
www.scosche.com

BROWN LOOP WIRE

18-PIN HARNESS

RED WIRE TO ACCESSORY INPUT OF RADIO

AFTERMARKET STEREO

102.7 FM

LOOKING FROM WIRE SIDE OF PLUGS

16-PIN GM20SR OUTPUT HARNESS

WIRE COLOR	PIN NUMBER	CIRCUIT	CIRCUIT	PIN NUMBER	WIRE COLOR
	8	N/A	N/A	16	
PURPLE	7	CLASS II DATA	12 CONSTANT	15	YELLOW
BLACK	6	GROUND	N/A	14	
	5	N/A	N/A	13	
	4	N/A	N/A	12	
ORANGE	3	Steering Wheel Cont	Steering Wheel Cont	11	BLUE
GRAY/BLACK	2	RIGHT FRONT (+)	RIGHT FRONT (+)	10	GRAY
WHITE/BLACK	1	LEFT FRONT (-)	LEFT FRONT (+)	9	WHITE

18-PIN GM20SR INPUT HARNESS

WIRE COLOR	CIRCUIT	PIN NUMBER	PIN NUMBER	CIRCUIT	WIRE COLOR
WHITE/BLACK	LEFT FRONT (-)	9	18	MUTE OUTPUT (-)	BROWN LOOP
GRAY/BLACK	RIGHT FRONT (-)	8	17	LEFT FRONT (+)	WHITE
GREEN/BLACK	NOT USED	7	16	MUTE Sense Input	BROWN LOOP
PURPLE/BLACK	NOT USED	6	15	RIGHT FRONT (+)	GRAY
BLACK & RELAY #85	GROUND	5	14		
BLUE	ANTENNA	4	13	NOT USED	GREEN
ORANGE	ILLUMINATION	3	12	CHIME MODULE	TO CM1 ORANGE WIRE
BLUE/WHITE	AMP TRIGGER	2	11	NOT USED	PURPLE
RED RELAY #85	Relay Control #86	1	10	12 CONSTANT	YELLOW & RELAY #87