

Operational Notes:

1. Fader position is preset on vehicles with amplifier. New source unit fader will not function.
2. Rear seat audio controls and headphone jacks will not work.
3. If vehicle is equipped with factory DVD, rear seat headphones will only work through wireless port.
4. The factory audio systems in these vehicles is on the "Retained Accessory Power" circuit and designed to remain on until the drivers door is opened. With the LANSTAR4, this function is retained.
5. For vehicles with amplifiers, the steering wheel volume control will control the volume of OnStar. Momentarily press the steering wheel up/down button to adjust volume (do not press and hold). Please call SoundGate tech if additional info is needed.

If you experience any problems, call SoundGate Technical Support at 800-256-0808 or e-mail us at sgtech@soundgate.com.

Be Sure To Ask Your Autosound Specialist About These Other Exciting SoundGate Products... Simple-fi.™

- Competition-Grade Interfaces for adding amplifiers
- Remote audio control interfaces that let you control aftermarket receivers and CD players from your factory rear seat, or steering-wheel-mounted audio controls.
- And many others!

Why SoundGate Dealers have the edge...

The technologies used in today's vehicles are as sophisticated as any laptop computer. At SoundGate we believe these new technologies are full of opportunities for mobile electronic dealers across the nation. We make it a high priority to not only research these new systems, but to understand them and their impact on the aftermarket car audio industry. Armed with this knowledge, we are well equipped to help you integrate new components into these systems with our innovative, high-performance interfaces and unparalleled technical support.

LANSTAR4



Purpose... The LANSTAR4 is a complete radio replacement interface for the amplified General

Features... The LANSTAR4 utilizes microprocessor control, ultra-reliable surface-mount construction, and advanced software design, to broadcast incoming OnStar audio and the warning chimes over the front speakers in the vehicle. It comes with factory match connectors for a fast, easy installation. Gain controls allow adjustment of chime volume and audio gain.

Motors vehicles shown below. The LANSTAR4 maintains the factory warning chimes, integrates the OnStar® system, creates the digital turn-on for the factory amplifier, provides a switched +12 Volt output, and properly interfaces the RCA level audio from the new source unit to the factory amplifier.

The SoundGate LANSTAR4 works in the following amplifier-equipped vehicles:

CHEVROLET

- 2007-08 Cobalt
- 2006-08 HHR

PONTIAC

- 2007-08 G5
- 2006-08 Solstice

SATURN

- 2006-08 Aura
- 2006-08 SKY

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Note: For non-amplified vehicles, amplified vehicles where the factory amplifier will not be retained, or vehicles which are not listed at left, please see the SoundGate "LANSTAR3."

The vehicles listed at left do not have a switched +12 Volt lead at the factory radio. The LANSTAR4 provides this function.

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Rev 20080519

INSTALLATION INSTRUCTIONS

The following instructions are for the vehicles listed on page 1 of this sheet where you are replacing the factory radio and retaining use of the factory amplifier.

Preliminary:

- A. Turn the ignition key to the "Off" position.
- B. Make sure the car's factory radio is turned to the "Off" position.

Step 1 Gain access to the proper interfacing location for the LANSTAR4.

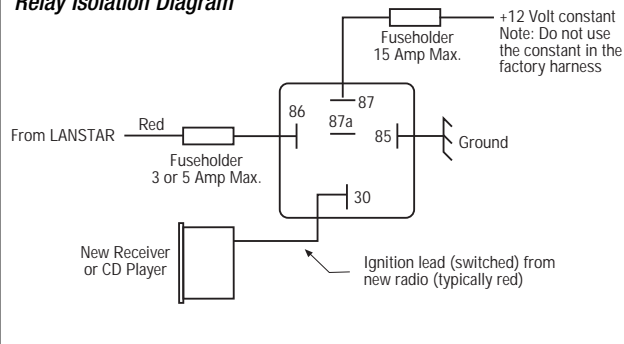
A. You will be connecting the SoundGate LANSTAR4 behind the radio. Referencing the factory service manual, remove the factory radio. Pay special attention to any procedures or warnings regarding working in or around air bags.

Step 2 Connecting the LANSTAR4 and your new source unit

A. The LANSTAR4 is equipped with factory-match connectors for quick and easy installation. Connect the wiring from the new radio to the corresponding wiring in the LANSTAR4 harness as indicated at right.

Note: Check the specifications on your new source unit to determine the maximum current draw on the +12 Volt ignition (switched) lead. If it is greater than 11 Amps, you will need to install an isolation relay as indicated in the diagram below.

Relay Isolation Diagram



Step 3 Plug the LANSTAR4 into the vehicles connectors

A. Plug the 24-pin main connector (which was plugged into the factory radio) into the matching 24-pin female on the LANSTAR4 harness

White 10-pin harness with RCA's:

Red:	To ignition lead of new source unit. †
Blue/White:	Connect to the new source unit amp turn-on lead
White RCA:	Left front RCA *
Black RCA:	Right front RCA *
Green RCA:	Left rear RCA *
Violet RCA:	Right rear RCA *

* - If the new source unit does not have RCA output for the main channels, you will need SoundGate's XR4 to properly interface the speaker level output of the new source unit to the factory amplifier.

Input Level Gain Adjustment

Adjacent to the 10-pin molex connector on the end of the LANSTAR4 is a hole to access the input gain adjustment. On head units with 2 Volts or greater output, you will most likely have to reduce the gain so you do not overdrive the amplifier inputs and cause distortion. Adjust as required. Note that the chime and turn signal volume will also change when this potentiometer is adjusted.

White 16-pin harness:

Yellow:	To constant +12 Volt lead on new source unit.
Black:	To ground wire on new source unit.
Orange:	To illumination lead of new source unit.
Black/Yellow:	See text at right

† - Check the specifications on your new radio to determine the current draw on the +12 Volt ignition (switched) lead. If it is greater than 11 Amps, you will need to install an isolation relay as indicated in the diagram below left.

Step 4 Testing the operation of the LANSTAR4

Once the LANSTAR4 is installed and connected, test the operation by inserting the key into the ignition and opening the door. The LANSTAR4 will produce the chime associated with leaving the key in the ignition. The LANSTAR4 is designed to produce all GM warning chimes.

Chime Volume Adjustment

If the chime is too loud, remove the bottom shunt jumper that is next to the 10 pin harness connector on the end of the interface. This will lower the chime volume.

Test the operation of the OnStar system by pressing the blue button on the OnStar panel. You will hear the OnStar chime and "Connecting to OnStar" if the service has been activated. If the service has not been activated, you will hear a recorded introduction to the OnStar Service. You can press the black button with the white square on it to cancel the call.

OnStar Level Adjustment

The Black/Yellow wire on the 16 pin connector can be quickly tapped to ground to change OnStar volume in 31 volume increments. While OnStar is speaking tap the wire to ground until the desired loudness is achieved. Alternately a 10k potentiometer can be connected to this wire (Radio Shack #271-1715, or #271-1721). Connect the other leg of potentiometer to ground - mount in a convenient location.

Audible Turn Signal

When the factory radio is removed, the turn signal indicator is lost. The LANSTAR4 duplicates this factory feature through the left front factory speaker.

If the turn signal is too loud, remove the top shunt jumper that is located next to the 10-pin connector on the end of the plastic case - this will lower the volume of the turn signals.

Step 5 Mounting the LANSTAR4 interface and finishing the installation

- A. Mount the LANSTAR4 in a secure position making certain that any unused wires have tape on the ends to prevent a short circuit.
- B. Re-install all trimpanels removed during installation. Installation is complete.

...continued on reverse (page 3)