SOUNDGATE®

SUMMER 2002

Why SoundGate® Dealers have the edge...

The technology in today's automobiles is more sophisticated than that found in any laptop computer. At SoundGate we believe that although challenging, these new technologies are full of opportunities for mobile electronic retailers across the nation. This philosophy, combined with the advantages we discuss below, are the reason SoundGate Dealers continue to be the leaders in aftermarket OEM-Integration.

...Rob Putman, Founder and President

Product engineered to a higher standard...

The SoundGate product line is designed to be the strongest link in your mobile audio system. Surface mount technology, 1% industrial grade components, meticulous assembly, and superior quality control assure mobile audio dealers and installers a level of performance and reliability unsurpassed in the industry.

SDS1 "SoundGate Docking Station"
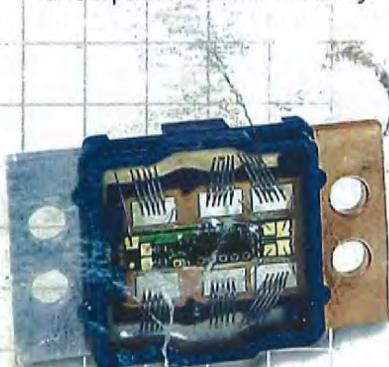
Innovative solutions that keep your bays busy and profitable...

High-tech solutions are a necessity for adding the latest aftermarket high-performance equipment to today's and tomorrow's vehicles. We stay highly-tuned to the trends in the automotive industry in an effort to have important products ready for our dealers by the time the cars show up on the streets. We thrive on providing dealers with cutting edge solutions to keep bays busy and profitable.

INTRA MOSFET found in the Intra/SoundGate Intelligent Circuit Breakers

New technologies...

This catalog presents new technologies that are timely and important for the Mobile Electronics Retailer. SoundGate's new line of Auxiliary Input Interfaces allow the installation of a myriad of aftermarket add-ons, in a plug-and-play manner. The ICB-series circuit breakers, using a patented MOSFET technology, have the power to make today's archaic fuses and circuit breakers obsolete.

You'll also find an expanding line of interfaces that allow control of XM and Sirius Satellite Radio receivers directly from factory radios with CD changer control capability! These interfaces not only get rid of the FM modulator, but also the external receiver control keypad!

ICB "Intelligent Circuit Breaker"

The best technical support in the industry...

SoundGate technicians are not only highly qualified installers themselves, but they have access to the largest resource of 12-volt information in the industry. Having helped thousands of installers find the right wire color, locate factory amplifiers, or take the noise out of a problematic installation, SoundGate technicians are as important to the SoundGate philosophy as the product line itself. Getting information to SoundGate dealers quickly and accurately is all in a day's work for them...another example of how SoundGate gives your shop the edge.

Customer service determined to keep you satisfied...

During those instances when you need to know the status of an order, or need a simple question answered, our dedicated Customer Service Staff is here to give you the answer in a quick, concise manner. Expertly trained to be knowledgeable about every step of the SoundGate Customer Satisfaction Pledge, these experts will keep you moving down the road.

A word about value...

Having been in the Industry for twenty-two years now, I've seen how under-performing products erode customer satisfaction and confidence, and your profits. That's why SoundGate product isn't presented or sold as a commodity item. We build the best product possible, so that once correctly installed, it will last the life of the car... and longer!   Thank you for your support   ...Rob

Shipping Address:
730 E. Burkitt St.
Sheridan, WY 82801

Mailing Address:
PO Box 6689
Sheridan, WY 82801

Monday-Friday 8:00 am to 5:00 pm (MST)

Toll-free Ordering	**888-760-4707**	*Technical Support*	**307-674-4707**
Customer Service	**888-760-4707**	*Toll-free Fax*	**866-674-4819**

KICKER000111

THE SOUNDGATE DOCKING STATION...

By eliminating FM modulators, and inputting your favorite source directly into the CD changer port, the SDS1 allows your systems to sound their best!

The addition of aftermarket components to factory audio systems is one of the fastest-growing segments of the aftermarket industry. This is a trend that will continue to grow at an accelerated rate in the coming years. The new "SoundGate Docking Station", the SDS1, is the most exciting product to come along in this segment of the industry!

Imagine, the SDS1 allows you to add not one, but two audio sources directly to the CD changer input port of almost any factory, or aftermarket radio! Think of the possibilities - Satellite radio and DVD/Video at the same time! Or, how about Satellite radio and an MP3 jukebox at the same time - just use your imagination! *World wide patents pending!*

Dock It! Lock It, ...then Rock

Input #1 -DVD or MP3

Input #2 - Satellite Radio

Vehicle-specific connector - part 1

Vehicle-specific connector - part 2

It's as easy as 1-2-3! The SDS1 docking cables allow the SDS1 to be plugged into almost any factory radio (CD changer compatible), or to most any aftermarket receiver or CD player (see listings at right). Remember, the SDS1 requires a CD changer to be connected to the radio in use.

A simple momentary contact switch (with LED status indicator) allows the owner to switch between CD Changer, Aux input #1, and Aux input #2. For those instances when a CD changer is not installed, SoundGate offers a growing line of Auxiliary Input Interfaces, shown in the panel below.

No CD Changer present? With the vehicles listed at right, *it's no problem!*

Allows Direct Audio Input Of DVD, MP3, Satellite Radio or Game Consoles into the vehicle's CD Changer port

Some customers want the fast, simple input of a second audio source while *not* using an FM modulator. SoundGate's vehicle-specific auxiliary input interfaces provide a direct, pre-amp level input of any external audio source! So, if your customer wants Satellite radio, MP3, or DVD input into their factory radio, these are the solutions for you. Models listed at right, available now ...more coming soon!

Allows the direct audio input of DVD, MP3, Satellite Radio or Game Consoles!

One cable (sold separately) required per installation

SoundGate's Docking Station principle is easy to sell, and to understand... The SDS1, shown at right, is capable of working with any factory or aftermarket radio that is CD changer control capable. The SDS1 has two sets of RCA inputs. The Docking cables adapt the SDS1 interface module to the individual audio systems listed below. One cable is required per vehicle. A control cable, part of each docking cable, utilizes a momentary push-button switch and an LED status indicator. The switch and LED are mounted within the operator's reach and allow the user to select "Input 1", "Input 2", or "CD Changer".

The SDS1 "Docking Station" with DOCKVW1 plugged in.

(DOCKVW1 shown)

Choose one cable to use with your SoundGate Docking Station...

One for a particular car, or...

AUDI	1998-2002	#DOCKAUDI	KIA	1998-2002	#DOCKKIA
BMW	1996-2002	#DOCKBMW	MAZDA	1998-2002	#DOCKMAZD
CHRYSLER	1998-2001	#DOCKCHRY1	MITSUBISHI	1998-2002	#DOCKMITS
CHRYSLER	2002	#DOCKCHRY2	NISSAN	1998-2002	#DOCKNISS
CHRYSLER	1996-2001	#DOCKCHRY3	SUBARU	1998-2002	#DOCKSUBA
FORD	1995-2002	#DOCKFORD	TOYOTA	1998-2002	#DOCKTOYO
GM1	1998-2002	#DOCKGM1	VOLKSWAGEN	1998-2002	#DOCKVW1
GM2	1998-2002	#DOCKGM2	VOLKSWAGEN	1998-2002	#DOCKVW2
HONDA	1998-2002	#DOCKHOND1	VOLVO (C, V)	1998-2002	#DOCKVOLV1
HONDA	1992-1997	#DOCKHOND2	VOLVO (S)	1998-2002	#DOCKVOLV2

Please see the SoundGate Application Guide beginning on page 23 for more specific information.

One for an aftermarket radio

ALPINE	#DOCKALPINE
AUDIOVOX	#DOCKAVOX
BLAUPUNKT	#DOCKBLAU
CLARION	#DOCKCLAR
ECLIPSE	#DOCKECLIP
JVC	#DOCKJVC
KENWOOD	#DOCKKNWD
PANASONIC	#DOCKPANA
PIONEER	#DOCKPIO
SONY	#DOCKSONY

Please note that cable offerings are expanding all the time. Please call for the latest updates.

#AUXBMW
BMW 1996-02
LandRover 2000-02

#AUXCHRY
Chrysler 1998-02

#AUXFORD
Ford 1995-02

#AUXVW
VW & Audi
1998-02

AUXVW Shown

SoundGate's "Aux" series of interfaces allow one auxiliary source to be input directly into the factory CD changer port. With these interfaces a CD changer cannot be used. Quickly add MP3, satellite radio, or even a portable cassette for those owners with factory in-dash single play CD players.

Page 5 of 52

MOBILE INTELLIGENCE™   INTELLIGENT POWER

SoundGate® and Intra Technologies® usher in a new era of charging system protection for automobiles. Designed and built around Intra Technologies®' patented MOSFET switch, capable

of handling up to 1000 amperes of current, this product literally re-invents the state-of-the-art in battery supply and charging system protection!

NEW!

The ICB-series

The ICB-series of intelligent circuit breakers ensure that your system will get all the power your alternator and batteries can supply. Compare this to a fuse that actually limits power as current increases (in photo at right increased resistance of the fuse created enough heat to melt the fuseholder!). Check out the features of this patented technology and see what an ICB could mean for you on the competition circuit.

Fuses, fresh or fried, become obsolete

#ICB100
100-amp disconnect

#ICB250
250-amp disconnect

#ICB500
500-amp disconnect

#ICB1000
1000-amp disconnect

- **Programmed Short-Circuit Disconnect Setpoints**

- **Manual Pushbutton Disconnect of the Circuit Breaker**
  via a momentary contact switch at the breaker, or remotely via an optional harness.

- **Semi-Automatic Capacitor-Bank Charging**
  The ICB circuit breakers have the unique ability to recharge a capacitor bank without having to use a resistor. A special startup sequence allows any ICB breaker to directly charge capacitor banks - a real time-saver at competitions.

- **Automatic Disconnect via a High-Temperature Disconnect Setpoint**

- **Control via a Keyless Entry System**
  Protect the sound system during valet parking, or when dropping the vehicle off for routine servicing (requires optional 'ICB remote cable' shown at right, and SoundGate "TrigPlus").

- **LED Status Indicators**
  Two LED status indicators, controlled by the microprocessor, provide the owner with the status of the circuit breaker under all operating conditions. Status modes include "On Status", "Off Status", "Over Temperature", "Current Overload", and "Short Circuit".

Optional ICB remote cable
#ICBCABLE

Specifications	Unit	ICB100	ICB250	ICB500	ICB1000	Comments
Continuous Current	Amperes	100	150	200	300	Maximum Continuous Current
Over Current Disconnect	Amperes	100	250	500	1000	Maximum current for 15 seconds
Short Circuit Disconnect	Amperes	200	500	1000	2000	Less than 5ms
Nominal RDS (on)	Milliohms	0.7	0.4	0.3	0.2	

There are always exciting developments at SoundGate - the latest of which is Team SoundGate. The "Mobile Intelligence" line was created for SoundGate's competition-specific devices. You'll see this line grow over time to offer some of the most innovative point-producing products on the Competition Circuit.

TEAM SOUNDGATE®

The ICB-series of Intelligent Circuit Breakers are the key components in today's Mobile Intelligence lineup, but hold onto your eardrums... more revolutionary additions to the line are on the horizon! Call today for details on how to become a "Team SoundGate" member, along with the cool benefits doing so can bring you!

Designed especially for the marine environment, these power management devices by Intra use the same MOSFET technology as the ICB-series circuit breaker. From the simple operation of the LVD (low voltage disconnect), to the sophisticated protection of the IPM (intelligent power manager), these devices are equally at home in the fastest boat, or the simplest pleasure cruiser.

LVD70

NEW!

Run accessory loads with the engine off... without worry!

SoundGate introduces the Low Voltage Disconnect (LVD) - an intelligent, low-cost switch that allows you to run accessory loads (e.g. audio system, etc.) in your car or boat without risk of exhausting the starting battery. Each LVD monitors battery voltage and automatically disconnects the circuit at a predetermined setpoint. You always preserve enough power to restart your engine - reducing the need for a jump start, whether at dock or miles from port in your boat, or in your car listening to tunes at your favorite hang-out!

> **#LVD70** *(shown)*
> Disconnect @ 12.1 volts
> (70 amp capability)
>
> **#LVD100**
> Disconnect @ 12.1 volts
> (100 amp capability)

- **Jump Start Protection**
  Significantly reduces the need for jump starting
- **70 or 100 Amp Current Ratings**
  handles all but the largest of loads

- **Extends Battery Life**
  Charging and discharging batteries shortens life
- **Easy Installation**
  Easily installed near the battery

- **Small, lightweight**
  Unobtrusive, silent, never needs maintenance, fully automatic
- **Audible Alarm**
  included alarm warns user of impending circuit shutdown.

- **Nickel plated**
  The nickel plating of the LVD's guarantee maximum performance for the life of the product.
- **Coming Soon...**
  LVD 150 and LVD 200

IPM70

SoundGate introduces the Intelligent Power Manager (IPM70) - a sophisticated load management device that monitors the state of charge of the battery, or batteries. Upon sensing that available current is not great enough for engine starting, the IPM70 will disconnect the battery from the load.

The IPM70's transponder system only allows starting of the vehicle when the included key fob is within five feet of the transponder. Any attempted start without the key fob will completely disconnect the vehicle from the battery - a great security benefit for boats, or even motorcycles!

NEW!

Designed especially for the Marine Market

Revolutionary Safety and Security on the Water!

> **#IPM70**
> Automatic disconnect
> (70 amp capability),
> with transponder

- **Jump Start Protection**
  Sophisticated jump-start prevention - monitors battery charge state - not just voltage.
- **70 Amp Current Rating**
  Suitable for all but the argest of loads

- **Extends Battery Life**
  Charging and discharging batteries shortens life
- **Easy Installation**
  Easily installed near the battery in series with the negative battery lead.

- **Nickel plated**
  The nickel plating of the LVD's guarantee maximum performance for the life of the product.
- **Security Transponder**
  Prevents unauthorized starting or hot-wiring of the vehicle.

Page 7 of 52

ALPINE CD CHANGER INTERFACES

BMW

Add M-Bus Alpine CD changers to any changer control BMW radio, even if Navigation-equipped!

#ABMW35V5
Digital Interface *(cable not required)*

3-SERIES, M-Series, Z-Series
- 1996 - 2002 (excluding 1996 318ti)

5-SERIES (including X5)
- 1997 - 2002 vehicles that do not include factory DSP audio systems.

7-SERIES
- September of 1998 - 2001 vehicles without factory DSP audio systems.

DSP solutions coming this Summer!

Chrysler

Works with all rounded style radios - including the new square-plug Liberty, 2002 Ram, etc. And if your customer's car has steering wheel audio controls, our interface allows perfect control of the changer via the steering wheel buttons.

#ACR2V3 - Digital Interface *(cable sold separately)*

#CRCBLDIN - DIN-style cable for 1998 thru 2001 vehicles

#CRCBLSQ - Square-style cable for 2002 vehicles

Note: For older, rectangular-style radios, see #ALPMSTR on following page.

CHRYSLER
- Concord 99-02
- LHS 1999-02
- 300M 99-02
- PT Cruiser 01-02
- Sebring 01-02
- Town & Country 01-02
- Voyager 01-02

DODGE
- Caravan 01-02
- Dakota 01-02
- Durango 01-02
- Intrepid 98-02
- Neon 99-02
- Stratus 01-02

JEEP
- Grand Cherokee 99-02
- Liberty 2002

Ford, Lincoln, Mercury, Jaguar S-type

Works flawlessly with In-Dash CD players, and factory navigation systems - choose one cable shown at right to go along with the ALFD1V5, and you're on your way.

#ALFD1V5
Digital Interface
(cable, listed at right, required and sold separately)

Start with the ALFD1V5, choose the cable for your application and you've got a plug-and-play CD changer installation for any changer control capable Ford vehicle from 1995-2002.

FC1 cable
For cars that are equipped with factory CD changer cables (some Lincolns, an option on Windstars). **#FC1**

FC2 cable
T-harness at radio location to interface 1995-1998 vehicles. **#FC2**

FC3 cable
T-harness at rear amp/tuner to interface 1996-2002 Taurus and others with Distributed Audio Systems (DAS). **#FC3**

FC4 cable
Cable harness for Cougar, Focus, and Jaguar S-type. Plugs directly into rear of factory radio. *(Not all CD related voice commands are supported on voice recognition equipped vehicles)* **#FC4**

FC5 cable
T-harness at radio to interface 1998 Ford Combo radios & most 1999 - 2002 Ford CD changer-capable radios. **#FC5**

Interface and cable installations are illustrated on page 51 in the notes section of this catalog

Nissan, Infiniti

NEW!

Finally, a reliable, trouble-free method of adding Alpine M-Bus changers to 1998 thru 2002 Nissans and Infinitis. Full functionality, even if the vehicle has steering wheel audio controls!

#ALNS1 - Digital Interface *(cable included)*

NISSAN
- All 1998-2002
- excluding 2002 Altima

INFINITI
- All 1998-2002

Land Rover

Add M-Bus Alpine CD changers to 1998-2002 Land Rovers with changer control radios!

RANGE ROVER and DISCOVERY

#ABMW35V5- Digital Interface
(one cable required, listed below, sold separately)

#RVRCBLD - Range Rover/Discovery cable

FREELANDER

#ABMW35V5 - Digital Interface
(one cable required, listed below, sold separately)

#RVRCBLF - Freelander (with navigation) cable

If vehicle is not equipped with factory navigation, see ALFD1V5, shown directly above.

Toyota

NEW!

Here's one you've all been waiting for. Seamlessly add Alpine changers to 1998 thru 2002 Toyotas - even when navigation, or steering-wheel-control-equipped.

#ALTOY1 - Digital Interface *(cable included)*

TOYOTA
- All 1998-2002 *(excluding Matrix)*

KICKER000116

Page 8 of 52

Volkswagen, Audi

NEW!

With our factory match connector, you will be able to quickly add an 6-disc Alpine M-Bus CD changer to any changer-capable 1998-2002 Volkswagen (excluding Bose), or to any 1998-2002 Audi!

#ALVW1 -Digital Interface *(cable required, listed below, sold separately)*

#VWCBLR - VW Cable
(Plugs into factory changer cable)

#VWCBLF - VW Cable *(Plugs into factory radio)*

#VWCBLA - Audi Cable
(Plugs into Audi factory cable)

VOLKSWAGEN
- 1998-02 all with changer control radio (excluding Bose systems).

AUDI
- 1998-02 all with changer control radio

Note: 99-01 radio's may require re-programming by vehicle dealer to accept this changer.

ALPMSTR

A single ALPMSTR interface allows you to add Alpine CD changers to six different car makes with the simple switch of a cable.

Keep a few of the ALPMSTRs in stock, and a couple of each of the cables listed below, and you can add CD changers to a wide range of vehicles!

#ALPMSTR - Digital Interface *(cable, listed below, required and sold separately)*

CHRYSLER 1996-01
Chrysler products to ALPMSTR interface cable. Radio must have "disc up" & "disc down" on 1 & 5 radio presets.
#ALPMCR1

HONDA/ ACURA 1998-02
Honda or Acura to ALPMSTR interface cable. All models.
#ALPMHD1

JAGUAR 1996-97
Jaguar to ALPMSTR interface cable.
#ALPMJG1

MERCEDES BENZ mid 1995-98
Mercedes Benz to ALPMSTR interface cable. Except ML320. Radio model #'s BE 1692, CM2296, CM2396 (on back of radio).
#ALPMMB1

VOLVO 1996-02 *wrong cable*
Volvo to ALPMSTR interface cable. All models except 1999-2002 S80 and V70, or 2001-02 S40, S60 or S70.
#ALPMVL1

Changer cables - non electronic

HONDA / ACURA 1992-97
Connect Alpine M-bus 6-Disc CD changers to 1992 thru 1997 Hondas and Acuras. Connects at factory radio. **#ALHN1**

MAZDA 1994-96
Connect Alpine M-bus 6-Disc CD changers to 1994 thru 1996 Mazdas. Connects in rear of vehicle at factory changer cable. **#ALMZ1**

MERCEDES 1994-mid 95
Connect Alpine M-bus 6-Disc CD changers to 1994 thru mid 95 Mercedes. Connects to factory changer cable in rear of vehicle. Radio model #'s BE1492, CM2294 (on back of the radio). **#ALMB2**

VOLVO 1991-95
Connect Alpine M-bus 6-Disc CD changers to 1991-95 Volvos. Connects at factory radio. **#ALVOL1**

The REMOTE1.5 Steering Wheel Control Interface for ALPINE

Today's customers don't want to forfeit any of the features that come with their cars - losing the factory steering wheel controls with the upgrade to an aftermarket receiver or CD player can often mean losing the sale. The SoundGate "REMOTE1.5" lets you add Alpine receivers and CD players to almost any General Motors or Chrysler Corporation vehicle.
Don't settle for lesser-performing imitations, use SoundGate - the inventor of steering wheel control interfaces.

The SoundGate REMOTE1.5 lets you retain the use of General Motors or Chrysler Corporation factory steering-wheel audio controls when installing any Alpine receiver or CD Player. *Remote 1.5 has been upgraded to allow simultaneous use of remote port on rear of receiver, and of Alpine's wireless handheld remote.*

#REMOTE1.5

- 1993-02 General Motors vehicles with steering wheel audio controls.
- 1994-98 Chrysler Corporation vehicles with steering wheel audio controls.

KICKER000117

Page 9 of 52

KENWOOD CD CHANGER INTERFACES

BMW

Effortlessly add 6 or 10-disc changers to the 1996 thru 2002 BMWs listed below.

#KBMWV5 -
Digital Interface *(cable not required)*

3-SERIES, M-Series, Z-Series
- 1996-2002 (excluding 1996 318ti)

5-SERIES (including X5)
- 1997-2002 vehicles that do not include factory DSP audio systems.

7-SERIES
- September of 1998-2001 vehicles without factory DSP audio systems.

DSP solutions coming this Summer!

Chrysler

Works with all rounded style radios, including the Jeep Liberty and 2002 Ram truck with the new square-style changer plug. And if your customer's car has steering wheel audio controls our interface allows perfect control of the changer via the steering wheel buttons.

#KNCR2V3 - Digital Interface
(cable required, listed below, sold separately)
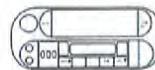
#CRCBLDIN - DIN- style plug for 1998 thru 2001 vehicles

#CRCBLSQ - Square-style plug for 2002 vehicles

CHRYSLER
- Concord 99-02
- LHS 1999-02
- 300M 99-02
- PT Cruiser 01-02
- Sebring 01-02
- Town & Country 01-02
- Voyager 01-02

DODGE
- Caravan 01-02
- Dakota 01-02
- Durango 01-02
- Intrepid 98-02
- Neon 99-02
- Stratus 01-02

JEEP
- Grand Cherokee 99-02
- Liberty 2002

Ford, Lincoln, Mercury, Jaguar S-type

Take advantage of the millions of Fords on the road by installing a Kenwood 6 or 10-disc changer via our totally awesome digital interface, and one of our matching plug-n-play harnesses - shown below.

#KNFD1V5 - Digital Interface *(cable required, listed below, sold separately)*

Start with the KND1V5, choose the cable for your application and you've got a plug-and-play CD changer installation for any changer control capable Ford vehicle from 1995-2002.

FC1 cable
For cars that are equipped with factory CD changer cables (some Lincolns, an option on Windstars).
#FC1

FC2 cable
T-harness at radio location to interface 1995-1998 vehicles. **#FC2**

FC3 cable
T-harness at rear amp/tuner to interface 1996-2002 Taurus and others with Distributed Audio Systems (DAS). **#FC3**

FC4 cable
Cable harness for Cougar, Focus, and Jaguar S-type. Plugs directly into rear of factory radio.
(Not all CD related voice commands are supported recognition equipped vehicles) **#FC4**

FC5 cable
T-harness at radio to interface 1998 Ford Combo radios & most 1999 - 2002 Ford CD changer-capable radios. **#FC5**

Interface and cable installations are illustrated on page 51 in the notes section of this catalog

Land Rover

Add Kenwood CD changers to 1998-2002 Land Rovers with changer control radios!

RANGE ROVER and DISCOVERY
#KBMWV5 - Digital Interface *(one cable required, listed below, sold separately)*

#RVRCBLD - Range Rover/Discovery cabl

FREELANDER
#KBMWV5 - Digital Interface *(cable required, listed below, sold separately)*

#RVRCBLF - Freelander (with navigation) cable. See KNFD1V5 for non-Nav vehicles

---

PIONEER CD CHANGER INTERFACES WITH XM RADIO CONTROL!

Satellite Radio is the radio of the future, and what could be better than CD changer interfaces from SoundGate that can control XM Satellite Radio receivers?

This "best of both worlds" scenario can be found in the Pioneer CD Changer Interfaces listed on these two pages.

Connect a Pioneer CD changer, and an XM Satellite receiver to these interfaces and the owner can switch between listening and control of the CD changer or of the XM Satellite Radio receiver! Please note that when in XM Satellite Radio mode, artist and title information is not displayed on factory radio.

(PIOTOY1 shown)

BMW

NEW!

Add a Pioneer 6 or 12-disc changer, and an XM satellite receiver directly to the CD changer input of the BMWs listed below! **#PIOBMW1 -** Digital Interface *(cable not required)*

3-SERIES, M-Series, Z-Series
- 1996-2002 (excluding 1996 318ti)

5-SERIES (including X5)
- 1997-2002 vehicles that do not include factory DSP audio systems.

7-SERIES
- September of 1998-2001 vehicles without factory DSP audio systems.

DSP solutions coming this Summer!

KICKER000118

KENWOOD *CD CHANGER INTERFACES*

The Kenwood interfaces listed are to be used with Kenwood changers (models numbers KDC-C667, C665, C717 and C715)

Toyota

NEW!

Toyota has hit a home run with most of its recent vehicle introductions. Let SoundGate drive you to new profit opportunities with its incredible new KNTOY1 for use in all 1998 thru 2002 vehicles. 6 and 10-disc compatible.

#KNTOY1 - Digital Interface *(cable included)*

TOYOTA
- **1998-02 all with changer control radio** *(excluding Matrix)*
- **No additional cables needed**

Volkswagen, Audi

NEW!

SoundGate provides the ultimate in flexibility with its KNVW1 interface. Use with one of three separate cables... cable #VWCBLR plugs into the factory cable, #VWCBLF plugs into the rear of the factory radio, and #VWCBLA is for use with Audis. Compatible with all 1998 thru 2002, except VW with Bose.

#KNVW1 - Digital Interface *(cable required, listed below, sold separately)*
#VWCBLR - VW Cable *(Plugs into factory changer cable)*
#VWCBLF - VW Cable *(Plugs into factory radio)*
#VWCBLA - Audi Cable *(Plugs into Audi factory cable)*

VOLKSWAGEN and AUDI
- **1998-02 all with changer control radio (except Bose in VW)**
Note: 99-01 radios may need reprogramming by Volkswagen dealer to accept this changer.

The REMOTE1.5 Steering Wheel Control Interface for
KENWOOD *and* PIONEER

Today's customers don't want to forfeit any of the features that come with their cars - losing the factory steering wheel controls with the upgrade to an aftermarket receiver or CD player can often mean losing the sale. The SoundGate "REMOTE1.5" lets you add Kenwood or Pioneer receivers and CD players (excluding video units, and Excelon MP3) to almost any General Motors or Chrysler Corporation vehicle. Don't settle for lesser-performing imitations, use SoundGate - the inventor of steering wheel control interfaces.

The SoundGate REMOTE1.5 lets you retain the use of General Motors or Chrysler Corporation factory steering-wheel audio controls when installing Kenwood or Pioneer receivers or CD players equipped with an infrared remote eye!

#REMOTE1.5
- **1993-02 General Motors vehicles with steering wheel audio controls.**
- **1994-98 Chrysler Corporation vehicles with steering wheel audio controls.**

The Pioneer interfaces listed are to be used with any Pioneer P-bus type changers

PIONEER *CD CHANGER INTERFACES WITH XM RADIO CONTROL!*

Ford

NEW!

Coming soon will be an all new SoundGate interface for connecting Pioneer 6 or 12-disc CD changers and XM satellite receivers to 1995 thru 2002 Fords.
Stay tuned for release information!

#PIOFD1 -
Digital Interface *(cable required, sold separately, listed on page 51)*

Toyota

NEW!

We all know how popular Toyotas are... SoundGate now gives you the opportunity to install 6 or 12 disc changers in all 1998 thru 2002 Toyotas, and control XM satellite radio receivers with the same interface! Think of the possibilities!

#PIOTOY1 - Digital Interface *(cable included)*

TOYOTA • **All Models 1998 thru 2002** *(excluding Matrix)*

Volkswagen, Audi

NEW!

An all new SoundGate interface for adding Pioneer 6 or 12-disc CD changers and XM satellite radio receivers to 1998 thru 2002 Volkswagens and Audis!

NEW!

#PIOVW1 -
Digital Interface *(cable required, sold separately)*

Toll-Free Ordering: 888-760-4707   11
KICKER000P19

Page 11 of 52

SONY CD CHANGER INTERFACES

BMW

SoundGate re-introduces its hugely popular Sony to BMW CD Changer Interface. Works with most 1996 thru 2002 BMWs! No additional cables needed.

#SNBMWV5 - Digital Interface *(cable not required)*

DSP solutions coming this Summer!

3-SERIES, M-Series, Z-Series
- 1996 - 2002 (excluding 1996 318ti)

5-SERIES (including X5)
- 1997 - 2002 vehicles that do not include factory DSP audio systems.

7-SERIES
- September of 1998 - 2001 vehicles without factory DSP audio systems.

Toyota

What could go together better than Sony and Toyota? We think not much! SoundGate's new SNTOY1 gives you perfect control of 6 and 10-disc Sony changers when connected to any 1998 thru 2002 Toyota! No additional cables needed.

#SNTOY1 -
Digital Interface
(cable included)

TOYOTA
- 1998-02 all with changer control radio (excluding Matrix)

Ford, Lincoln, Mercury, Jaguar S-type

After a long absence from the marketplace, SoundGate is very pleased to announce the re-introduction of its Sony to Ford CD changer interface! Upgraded with all the latest programming and audio improvements for Sony's new changers, these interfaces are guaranteed to literally fly out your install bays.

#SNFD1V5 - Digital Interface
(cable required, listed at right, sold separately)

Start with the SNFD1V5, choose the cable for your application and you've got a plug-and-play CD changer installation for any changer control capable Ford vehicle from 1995-2002.

FC1 cable
For cars that are equipped with factory CD changer cables (some Lincolns, an option on Windstars). **#FC1**

FC2 cable
T-harness at radio location to interface a 1995-1998 vehicles. **#FC2**

FC3 cable
T-harness at rear amp/tuner to interface 1996-2002 Taurus and others with Distributed Audio Systems (DAS). **#FC3**

FC4 cable
Cable harness for Cougar, Focus, and Jaguar S-type. Plugs directly into rear of factory radio. (Not all CD related voice commands are supported recognition equipped vehicles) **#FC4**

FC5 cable
T-harness at radio to interface 1998 Ford Combo radios & most 1999 - 2002 Ford CD changer-capable radios. **#FC5**

Interface and cable installations are illustrated on page 51 in the notes section of this catalog

---

LandRover

Add Sony CD changers to 1998-2002 Land Rovers with changer control radios!

NEW!

RANGE ROVER and DISCOVERY
#SNBMWV5 - Digital Interface *(one cable required, listed below, sold separate)*
#RVRCBLD - Range Rover/Discovery cable

FREELANDER
#SNBMWV5 - Digital Interface *(cable required, listed below, sold separately)*
#RVRCBLF - Freelander (with navigation) cable. See SNFD1V5 for non-nav vel

---

Volkswagen, Audi

SoundGate is pleased to bring Volkswagens and Audis into the install bays of Sony dealers. Use with one of three separate cables... cable #VWCBLR plugs into the factory VW cable, #VWCBLF plugs into the rear of the factory VW radio, and #VWCBLA is for use with Audis. Compatible with all 1998 thru 2002 vehicles, except VW with Bose.

#SNVW1 - Digital Interface *(cable required, listed at right, sold separately)*

NEW!

VOLKSWAGEN and AUDI
- 1998-02 all with changer control radio (except Bose in VW)

Note: 99-01 radios may need reprogramming by vehicle dealer to accept this changer.

#SNVW1 - Digital Interface
(cable required, listed below, sold separately)
#VWCBLR - VW Cable *(Plugs into factory changer cable)*
#VWCBLF - VW Cable *(Plugs into factory radio)*
#VWCBLA - Audi Cable *(Plugs into Audi factory cable)*

KICKER000120

Page 12 of 52

These are the interfaces that started the steering wheel control interface revolution... back in 1994! Since then, thousands of happy customers have made the switch to a new Sony receiver or CD player, and retained the use of their factory steering wheel controls. Don't lose out on valuable sales. SoundGate's Sony-specific steering wheel control interfaces are pre-programmed - just connect them and drive away... it's that simple!

Ford to Sony

The SoundGate FRDSW2 lets you retain the use of the factory dashboard, or rear-seat audio controls on many Ford Motor Company vehicles when installing any SONY RM-X2S, or RMX-4S compatible receiver or CD player (including the SONY ES product line)! You need the FRDSW2 if your shop installs in any of the vehicles listed at right:

#FRDSW2

VANS*		CARS	
Aerostar	1996-97	**FORD**	
Econoline	1994-96	Taurus	1992-95
Windstar	1994-97	**MERCURY**	
MERCURY		Sable	1992-95
Villager	1993-95		
NISSAN		* Rear speaker on - off function is not	
Quest	1993-95	duplicated upon radio replacement.	

General Motors to Sony

The SoundGate GMSW1 lets you retain the use of the factory steering-wheel audio controls on General Motors vehicles listed at right when installing any SONY RM-X2S or RM-X4S compatible receiver or CD player (including the SONY ES product line)!

#GMSW1

BUICK						PONTIAC	
Skylark	1997-99	Venture	2000-02			Bonneville	2000-02
CADILLAC		Venture	1999			Bonneville	1996-99
Escalade	1999-02	**GMC**				Firebird	1993-02
CHEVROLET		Jimmy	1998-02			Grand Am	1996-02
Blazer	1997-02	**OLDSMOBILE**				Grand Prix	1994-02
Camaro	1994-02	Alero	1999-02			Montana	2000-02
Impala	2000-02	Bravada	1999-00			Montana	1999
Lumina	1995-00	Silhouette	1994-99			Sunfire	1996-99
Monte Carlo	2000-02	Silhouette	2000-02			Transport	1996-98
Monte Carlo	1995-99						

S10 Pickup 2000-02

Chrysler to Sony

The SoundGate CRSW1 lets you retain the use of Chrysler Corporation factory steering-wheel audio controls when installing any SONY RM-X2S or RM-X4S compatible receiver or CD player (including the SONY ES product line)! Remember, on Chrysler Corporation vehicles, the audio pushbuttons are on the rear of the steering wheel!

#CRSW1

CHRYSLER
1999-00 Town and Country

DODGE
1999-00 Caravan
1999-00 Dakota
1999-00 Durango
1999-01 Ram Pickup

JEEP
1997-98 Grand Cherokee

PLYMOUTH
1998-01 Prowler

The CRSW1 works with rectangular style Chrysler radios.

Not entirely sure which interface you need?
The SoundGate Application Guide begins on page 23 and contains information on over 1500 vehicles.

Page 13 of 52

We know it's not necessary to always have every one of our parts on hand. There are a few items, however, that we feel are so important, that no bay should be without them. They are the SoundGate "BAYSX (Basics)".

This is our guarantee to you:

Stock each of our 12 BAYSX products... If you have a car that comes into your bay that you can't deal with, using our BAYSX parts, call us first so that we can tell you how to make the install work. If together, we can't make it work over the phone, we'll GIVE YOU one of our GENSWEEP signal generators. We're so confident in our product and in our technical support that we can make this offer to you.

Take us up on it!

LOC4

The LOC4 is the audiophiles' choice for adding amplifiers to factory systems. This 2-channel Line Output Converter has two sets of inputs that will give you 1.5 or 4 Volts RMS output. It is designed to connect to a speaker level signal source. The LOC4 does not use transformers, power resistors or potentiometers - assuring the customer of the highest performance in the industry - frequency response is flat from 17Hz to 23kHz, and beyond! Design parameters require mounting as close to the source unit as possible.

LOCHVA

The LOCHVA is a 2-channel, high-voltage-output, Line Output Converter for connection to a speaker level signal source. It provides complete DC isolation, adjustable gain, infrasonic filter, and a frequency response within 3dB from 20Hz to 20kHz.

LOCPREA

The LOCPREA is a high performance, high quality, Line Output Converter designed to connect to factory pre-amp level signal sources - this is the type of signal found between most factory radios and factory amplifiers. This 2-channel LOC has complete DC isolation, high input impedance, high voltage output, an infrasonic filter, and slight bass boost which add up to an awesome sounding system. Frequency response is flat from 20Hz to 20kHz, plus or minus 3db.

LOCB

The LOCB is part of the SoundGate Audiophile series of interfaces, and is the ultimate solution for adding amplifiers to factory Bose® systems, Ford Premium systems, Toyota and Lexus differential systems - almost any factory amplified system. This 2-channel Line Output Converter is designed to connect to the pre-amp level leads of the factory system (before the factory amplifier) and is a fully active device which can accept input signals from 350mV to almost 6 Volts, and give you 2.5 Volts RMS output. With no transformers, potentiometers or power resistors, you get a frequency response of 17Hz to 23kHz as well as a high signal-to-noise ratio.

PWR1

Quite a few earlier model year vehicles with amplified systems, and some non-amplified systems have chassis grounded speaker wiring. The PWR1 is the interface for these systems. It eliminates speaker-damaging DC offset, protecting the factory amplifiers, tweeters and midrange drivers. Set screw type connectors make for easy installation. See the SoundGate resource guide for specific applications.

OEM4A

The OEM4A is a high-performance, adjustable, 4-channel, radio replacement interface designed to seamlessly integrate new receivers or CD players into virtually all factory amplified systems. Our universal pigtail leads, allow you to use the factory-match connectors your shop already stocks. With separate gain adjustments for front and rear, and it's wide range of adjustment, it will easily handle any of today's receivers, CD players or multi-media units, including today's high-power MOSFET's. With full DC isolation, proprietary transformers and no power resistors your customer gets a 20Hz to 20kHz frequency response with no noise! Handles up to 80 watts per channel! See the SoundGate resource guide for specific applications.

KICKER000122

BAYSX

TRIGSPKR

The TRIGSPKR converts a speaker level signal into a remote wake-up signal. This means you do not have to run a remote lead back to the radio location when the vehicle is not equipped with a factory turn-on lead. With its high input impedance, even the most sensitive system will not be affected by it.

TRIGLOHD

Quite a few of today's vehicles (Ford Premium and Lexus, for example), have a factory amplifier wake-up circuit that operates between 5 and 9 Volts. The TRIGLOHD will trigger on any input voltage between 2 and 30 Volts and give you a 12 Volt, 1 Amp capacity turn-on signal. This eliminates connecting the turn-on lead for new amplifier(s) to an ignition source with the resulting noise problems that method can create.

ISO2

The ISO2 is a 2-channel isolator that completely DC isolates two components in a sound system. With a frequency response of 20Hz to 20kHz, it is the best noise isolator on the market. If you've installed what should be an awesome-sounding system only to have it ruined by system hiss, pops, clicks or CD tracking-type noise, this unit will fix the problems.

FLTR25TE

The FLTR25TE is a high quality, high performance electronic filter (active design) that utilizes a toroid choke. Designed by David Navone, the undisputed authority on solving noise problems in car audio systems, the FLTR25TE is the most effective noise filter on the market.

REMOTE1.5

The REMOTE1.5 allows you to replace the factory radio in select General Motors and Chrysler Corporation vehicles and retain the use of the factory steering wheel audio controls, when installing select Alpine, Kenwood, Pioneer or JVC receivers or CD players that are infrared remote control capable. With select Alpine units, you can simply plug the REMOTE1.5 into the remote control port on the rear of the Alpine radio eliminating the need to mount the infrared emitter in front of the radio. See the SoundGate resource guide for specific applications. The 1.5 update allow the infrared eye on the front of Alpine units to work in conjunction with the remote port on the rear of the units.

STARMOD2V2

The STARMOD2V2 interface allows you to replace the factory radio in select General Motors vehicles with OnStar® and retain the functionality of the OnStar® system. The STARMOD2V2 has a sophisticated automatic trigger circuit that detects when an OnStar® communication occurs, automatically waking up the STARMOD amplifier. It is also equipped with a relay that will allow you to broadcast the incoming OnStar® communication over one speaker of the vehicle. See the SoundGate® resource Guide for specific application information. Prewired with factory match connector.

HEAR the PERFORMANCE

Page 15 of 52

STARMOD's and DIGISTAR's

General Motors has paved America's roads with the popular OnStar® system. We believe these types of systems will become standard equipment in most vehicles, presenting new challenges for the aftermarket. True to SoundGate form, however, we evaluated the technology and the impact on installers, and set to work developing solutions.

Note: Some 2002 vehicles may require the use of #AVM1 - (shown here). Listed on page 19

The STARMOD's and DIGISTAR's are the beginning of an entire line of digital interfaces for databus-equipped vehicles.

FACTORY RADIO REPLACEMENT INTERFACES

OEM4A

- Integrate new receivers or CD players (including high-powered MOSFETs) into factory amplified systems with one universal interface!
- The 4-channel OEM4A uses simple pigtail leads for speaker level inputs and outputs so you can use the wiring harnesses that your shop already stocks.

MOSFET Ready

#OEM4A

OEM2

- Are you installing a new receiver or CD player and want to keep the use of just one of the factory amps?
- Is just one or two of your customer's Bose-amplified speakers bad?
- Use the 2-channel OEM2 to retain the use of factory amps while bypassing ones that may be bad!

MOSFET Ready

#OEM2

MOSFET's are great... just be sure to use an OEM4A for trouble-free installations

If you're interfacing MOSFET-output radios with factory amplifiers, chances are you've run up against some obstacles. The overall gain capability of these new radios is high enough that most head unit replacement interfaces cannot adequately attenuate the outputs. When interfacing MOSFET output radios with factory amplifiers, use our OEM4A (left) to create the perfect match. A second possible problem with MOSFET-output radios is the amount of current they require to operate at their full potential. Look at the battery and ignition-lead wiring of every car you install one of these powerhouses into. If the factory wiring is 18 gauge or smaller (most are now 22 gauge), use the simple diagram above to ensure an adequate supply of voltage and current to the new unit.

Install fuse (size as required) within 18" of battery. Use proper wire size for load served.

Grd.

Battery

Grd.

86 — Bosch Relay
87a 87
30
85

To Ign. Switch

Batt (Yel)   93.5   Acc (Red)

New Receiver or CD player

Hi-Power to Common-Ground Interfaces - audiophile sound quality for customers that want the best!

AUDIOPHILE SERIES

Installing today's high powered receivers and CD players into cars with common-grounded wiring is a time consuming job. To do it right, new speaker wiring has to be run to each common-grounded speaker.

SoundGate's floating-to-common-ground interfaces eliminate running new speaker wiring in cars... saving you time.

FLT1

- For non-amplified systems, or for common-grounded speaker wiring that **is not** chassis grounded
- Maintains full high-power receiver output and provides a 3dB bass boost below 85 Hz

#FLT1

4 channel non-chassis-grounded systems

PWR1

- For use in many cars with chassis-grounded speaker wiring
- Eliminates speaker-damaging DC offset - protects delicate tweeters and midrange drivers
- Set screw type connectors for the easiest installation

#PWR1

4 channel For chassis grounded systems

...and so are the interfacing solutions from SoundGate!

STARMOD1V2

SoundGate's "V2" versions of its original STARMOD's now include the factory 9-pin harness, making these units a true plug-n-play install in certain vehicles. STARMOD1V2 should be used if doing a full system install with new amplifiers, etc. A separate speaker, not included, broadcasts the OnStar messaging. A mute output mutes the new receiver upon OnStar use.

#STARMOD1V2

STARMOD2V2

STARMOD2V2 should be used in those instances in which a simple radio swap is being performed.
The built-in relay network of the STARMOD2V2 allows one factory speaker to broadcast the OnStar messaging.
A mute output mutes the new receiver upon OnStar use.

#STARMOD2V2

STARMOD2

STARMOD2 does not have the factory 9-pin harness attached. This unit is designed for use in non-General Motors vehicles (Audi, Saab, Volvo, Acura) which utilize OnStar, or in those GM cars which use a 24 or 32-pin factory harness. A mute output lead mutes the new receiver. A built-in relay network allows OnStar messaging to be broadcast over one factory speaker.

#STARMOD2

DIGISTAR1

Coming early this Summer, SoundGate's new DIGISTAR interfaces will represent the final design iteration of OnStar integration. DIGISTAR1 is designed to rebroadcast OnStar messaging through a separate speaker, not included, when a full system replacement is being done (new amps, etc.). DigiStar1 triggers off of the vehicle's digital command language.

#DIGISTAR1

DIGISTAR2

DIGISTAR2 has a built-in relay network that allows OnStar messaging to play through one of the vehicle's factory speakers. A mute output lead allows the new receiver to be muted during OnStar messaging.
DigiStar2 triggers off of the vehicle's digital command language.

#DIGISTAR2

...designed to be the strongest link in your aftermarket system!

Plug and Play for 1997-2002 Corvettes...only from SoundGate!

The Bose® systems in the new 'C5" Corvettes (1997-2002) are totally different from any other factory Bose® system. SoundGate's GMCRV1 lets you add high-power receivers or CD players to these cars in minutes!

- Built-in 120 Hz high-pass crossovers for the front 3 1/2" factory speakers.
- Electronic, lo-pass interface flawlessly matches the new receiver or CD player to the Bose subwoofer amps located in each door.
- Plug-and-play factory-match connectors turn this former installation headache into a ten-minute slam dunk!

#GMCRV1

AUDIOPHILE SERIES

The legendary performance and reliability of the SoundGate line really shine in our factory radio replacement interfaces. Unique in their abilities, design, and construction, these interfaces provide you with quick, solid solutions for extraordinary sounding systems. Don't settle for cheap imitations... these are the originals, and the best.

FORD PREMIUM SYSTEMS

- Add new receivers or CD players with speaker level outputs (4x45 watt max.).
- Gain and impedance levels perfectly matched to the Ford amplifiers - no noise, no distortion, perfect gain structures.
- Full bandwidth frequency response
- Bring Explorer JBL, Mustang Mach-460, and other Ford premium systems alive with CD source units & full dynamic range.
- Pre-wired with factory match harness connectors - simply plug it in and move on to your next install!
- Note: See OEM4A for MOSFET installations

FRD2

1988-94 Ford vehicles - including 1994-00 Mustang Mach 460 **#FRD2**

FRD2 Connectors

BOSE SYSTEMS

- Hardwired factory-match connectors - no sub-assembly required.
- Fully active design. Squeezes the best performance out of factory Bose systems.
- No adjustments - each unit tailored to a specific Bose system. Correct gain and impedance levels designed-in. No potentiometers means guaranteed performance for the life of the product.
- Special noise suppression for Camaros and Firebirds
- Note: See OEM4A for MOSFET installations

GMB1
1989-96 GM vehicles
#GMB1

GMB1 Connector

GMB2
up to 1985 GM vehicles and 1985-89 Corvette
#GMB2

GMB2 Connectors

Page 17 of 52

Adding new amplifiers to factory radios should be an easy task. Right? Well, if you've tried using a so-called 'universal' line output convertor (LOC), you've probably run into the same problems installers nationwide have encountered: hiss, noise, overheated amps and radios, and not enough gain. Worse yet, we've all encountered the factory radio with the output stages destroyed by trying to drive a power resistor inside an LOC.

SoundGate solves these problems in two ways; number one, we have line output convertors that are designed correctly, and two, we also know exactly which car to use them in, and on what wires! If you've been frustrated trying to use so-called universal line output convertors, give us a call. We'll solve your interfacing problems.

LOC4

When we set out to design the ultimate passive line output convertor 7 years ago, little did we realize that we were designing a classic. Our LOC4 has become the defacto standard for installations where sound quality has to be its absolute best. Designed to be connected after an amplifier (either built into the radio, or outboard) the LOC4 must be mounted as close to the source unit as possible. If you are adding an amplifier at the pre-amp stage of a system (before the factory amplifier) please see our LOCB on the next page - it's the active-design big brother to the LOC4. **Rated for up to 80 watts! Flat from 17Hz to 23kHz!**
#LOC4

LOC2 / LOC3FR - Auto Wake Up!

We had a huge number of requests for a line output converter that could do it all - high voltage output, an auto-trigger circuit to wake up the new amp - even a built in crossover! These are the units that answer all those needs. LOC2 gives 100 Hz lo-pass output and LOC3FR provides full-range output. Designed around the same audio circuit as our world-famous LOC4 shown above, both units include infrasonic filters and set-screw inputs for the easiest installation. **Rated for up to 80 watts!**

#LOC2 - 100Hz lo-pass output
#LOC3FR - Full-range output

Setting System Gain Levels - it's time well spent.

One of the biggest mistakes still being made in today's installations is that of not properly setting the gain controls on the finished system. We all get rushed trying to get that job out the door. But please, don't overlook this most important step!

1. Turn your amplifier and Line Output Convertor gain controls all the way down, then open them up just a very small amount.
2. Next, turn the system on and turn the radio to its maximum volume on the knob, or until distortion is just heard. If distortion is heard decrease the volume setting until it goes away.
3. Turn the gain control on the next component in the signal chain up until the same result is achieved as in step 2.
4. Continue on down the chain until you reach the amplifier. As a final step turn the gain control on the amplifier(s) up until the system is playing at the maximum desired volume level. Following these steps maximizes signal-to-noise ratio and minimizes noise in the system!

LOCHV4A

Our line of transformer-based line output convertors solidly trounce every other device on the market when it comes to out-and-out performance (except for our own "Audiophile-Series" of course!). Some companies make claims of exceptional frequency response. But, have you ever seen one of their devices tested under actual operating conditions? It's easy to show good frequency response when load impedance on the LOC is varied, but these loads don't exist in the real world.

Our 4-channel LOCHV4A uses our custom-wound transformers, custom support circuitry, and high quality potentiometers. We don't use power resistors - those things that melt most LOC's into a pile of plastic goo. Instead, we use extremely high input impedance. **Rated for up to 85 watts!** If you've tried the rest, come try the best... your ears will hear the difference!

- **High voltage output • Complete DC isolation**
- **Response flat from 20 Hz to 20 KHz under real-world load impedance!**

#LOCHV4A

LOCHVA

A 2-channel version of our popular 4-channel LOCHV4A shown above. Exactly the same performance in a design perfectly suited for adding sub amps. **Rated for up to 85 watts!**

#LOCHVA

LOCSUBA

Add a sub in record time. This adjustable output, lo-pass (100 Hz crossover) LOC gives hi-voltage output, an infrasonic filter, and bass boost centered at 50 Hz.

The same high-performance design as our LOCHVA and LOCHV4A, but with the crossover built in! LOCSUBA is perfectly suited for keeping the factory subwoofer working in newer Fords when you're replacing the factory radio. SoundGate's awesome "TechLab" data sheets you how to do it - wire-by-wire (faxed on demand). **Rated for up to 85 w**

#LOCSUBA

LOCA

Need an adjustable LOC to fit anyone's budget? The LOCA is your answer. Great frequency response, full DC isolation, and great reliability in a small, easy-to-use package. The LOCA can only be connected after the amplification stage of the system - either after the internally-amplified radio, or after the factory amplifier.

#LOCA

LOCB

When you're adding amplifiers to factory-amplified systems and you want the ultimate in performance, you have to intercept the factory wiring between the radio and the factory amplifier - this is where the cleanest signal is found. But, doing this with just any LOC can spell disaster - if you hook up an LOC that uses power resistors at this point in the wiring you'll probably fry the outputs of the factory radio.

SoundGate knows these details, and knows how to correctly add amplification at this point in the signal chain. The LOCB is the active-circuit-design big brother of our LOC4. This monster will give you 2.5 volts RMS output - regardless of the input voltage - even if its as low as 350 millivolts! It's the ultimate statement of performance in LOC's... period! **Flat from 17Hz to 23kHz! #LOCB**

AUDIOPHILE SERIES

LOCPREA

This passive-design LOC has the same ultra-high input impedance as our LOCB. However, here we use transformers to maintain complete DC isolation between components. If you've got an extremely noisy vehicle, or just can't mount the LOCs directly behind the radio, the LOCPREA is for you. Full DC isolation, full-bandwidth frequency response, high voltage output, an infrasonic filter, and a slight bass boost add up to an awesome way of adding amps to almost any system that is factory-amplified. Response is flat within 3 db from 20 Hz to 20 KHz. The passive design of the LOCPREA means it can't be used in systems where AC voltage is very low (some Toyota and Lexus systems, for example) - for those installs latch on to our LOCB shown at left.

#LOCPREA

Trouble deciding which LOC to use? SoundGate makes it easy.

Type 1 Installations:

Type 1 interfaces are designed to be connected to the leads of an existing pair of speakers, or can be used to replace the speakers entirely. If the factory system is amplified, Type 1 interfaces are to be installed only after the factory amplifier.

Type 1 Installs	LOC4	LOCHV4A	LOCA
	LOCHVA	LOCSUBA	
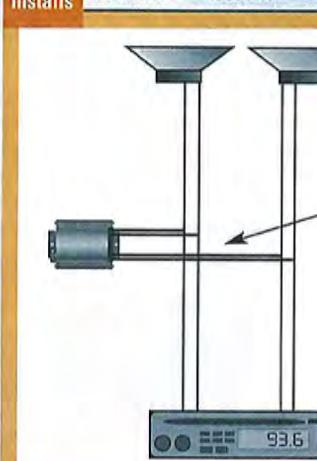
Type 2 Installs	LOCB	
	LOCPREA	
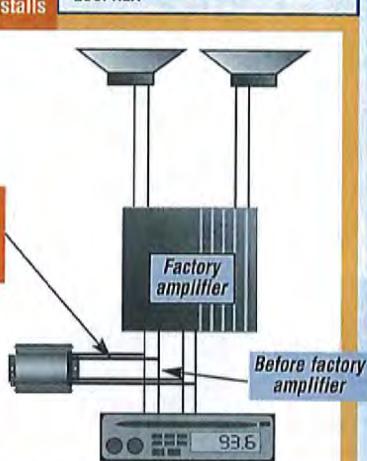
LOC Connection Points

Factory amplifier

Before factory amplifier

Type 2 Installations:

Type 2 interfaces are specifically designed for use with factory radios that feed into factory amplifiers. These interfaces are designed to be connected either directly at the output of the factory radio, or at the INPUT of the factory amplifier. They can be used to simply add a subwoofer amp, or to replace the factory amplifiers.

SPECIALTY interfaces

AVM2

The AVM2 is a two-channel version of our popular AVM4, shown at right. Both the AVM2 and AVM4 have low source impedance and are easily capable of driving a set of headphones, or even small speakers. We use the AVM2 as a single headphone driver, as a pre-amp booster in certain OnStar installations, and as a master volume control for limos and boats.

#AVM2 - stereo device

#AVM1 - Single-channel device available for OnStar installations

AVM4

In our travels this year, speaking with dealers, one request kept coming up: Dealers needed a device that would level-match components in an audio/video system. Sony Playstations and Nintendo Gameboys were driving installers nuts! The low output levels of MP3 devices were another problem area. The AVM4 not only performs this level-matching function, but it can also be used as a headphone amplifier for two sets of headphones (each with its own volume control!).

#AVM4

LD2

Are you building competition systems. or performing multi-amp installations? If so, the LD2's 30 volt isolated power supply can increase the level of a signal up to a maximum of 12dB. In other words a 2 volt output deck can be turned into an 8-volt RMS monster! The second knob on the LD2 allows bass to be boosted by up to 15dB - perfect for use in SPL contests!

Check out these specs: 9.6 volts maximum signal level, greater than 120 dB of dynamic range, a source impedance of only 50 ohms, soft turn-on and delayed turnoff, and isolation at 3 KHz of greater than 200,000 ohms! It's the Best! *Warning* - Speaker damage can occur if mis-used.

#LD2   KICKER000127   **19**

Page 19 of 52

show atts!

FINE-TUNING ACCESSORIES

Turn-on and Turn-off pops are culprits that installers deal with every day. SoundGate has a solution for curing nearly every instance of turn-on and turn-off pop. Study the trigger devices on this page carefully, paying special attention to our TRIGLOHD - this unit gives installers the proper method for waking up amplifiers in Ford Premium Sound systems, Infinitis, Lexus, and all other cars that use low-voltage factory trip leads.

TRIGSPKR

TRIGSPKR converts a speaker lead to a remote wake-up signal. Quit running wake-up leads clear back to the radio. Simply connect to a speaker, and save a bunch of time!

#TRIGSPKR

TRIGRCA

System turn-off pop eliminator. Do you have a noisy source unit that's causing pops? Install our TRIGRCA in the RCA signal path and stop the pop before it gets to your amps!

#TRIGRCA

TRIGOFF

Delayed amp turnoff timer (trigger lead device). For the hardest to solve turn-off pop problems. If your system is noisy during turn-off, this device gives you the remedy. Every shop should stock at least one!

#TRIGOFF

TRIGLOHD

Low voltage trip - 2 to 30 volts in, 12 volts out, 1 amp capability. Finally, a way to add amps to Ford Premium sound systems - without turn-on or turn-off pop!

#TRIGLOHD

TRIGDLYA

Adjustable amp turn-on delay. For those instances in which a turn-on pop is coming from the source unit or is being caused by the timing functions of the factory head unit's wakeup lead.

#TRIGDLYA

ISOLATORS, NOISE decoupler, SWITCHING devices

SoundGate's line of Isolation devices allow a shop to produce totally noise-free installations, time after time. The best installation techniques can't solve isolation problems that are inherent in an aftermarket car audio component. The differences in voltage potential between two different car audio components mounted at different ends of the vehicle can spell problems for components that haven't been optimally designed. SoundGate now makes the hiss, pop, and click problems of these types of installations a thing of the past. Also, our A/B switch allows two different RCA output devices to be hooked up to the same amplification system.

DCPL2

A less expensive alternative to our ISO2 and ISO4, the DCPL2 is a signal decoupler that completely DC isolates two components in a sound system. Eliminate hiss, pops, and CD tracking type noises in the least expensive systems.

#DCPL2

ISO2

Our ISO2 completely DC isolates two components in a sound system. If you've installed what should be an awesome-sounding system only to have it ruined by system hiss, pops, clicks, or CD tracking-type noise, this unit will completely eliminate them! This is a high-performance version of our DCPL2, at right.

#ISO2

ISO4

The same high-quality, custom-built components as our ISO2 in a 4-channel version! Both our ISO2, and ISO4, have extended lower frequency response (compared to our budget-minded DCPL2), and higher voltage capabilities - perfect for those high-voltage-output competition head units.

#ISO4

ABSWC1

Do you have a customer that wants to add an MP3 player or portable CD to an existing amplified system? If so, the ABSWC1 is the answer. Switches between two source units quietly and reliably! No noise!

USE FOR HOOKING UP MP3 PLAYERS!

#ABSWC1

FILTER devices

Noise filters are not typically thought of as very high-tech devices. In most cases we try not to use them. However, there come those times when you just have to use a filter to eliminate noise in the system. We decided that if filters are needed we should make sure that you have the best. Our filters have been designed by Dave Navone, the undisputed authority on solving all types of noise problems in car audio systems. If you need noise filters, we absolutely guarantee these to be the best.

FLTR10E

Electronic noise filter, 10 amp peak (active design for ultimate filtering capability).

#FLTR10E

PERFECT FOR RECEIVERS OR SMALL AMPS

FLTR25E

Electronic noise filter, 25 amp peak (active design for exceptional filtering capability).

#FLTR25E

FOR AMPLIFIER INSTALLATIONS

FLTR25TE

Electronic noise filter, 25 amp peak (active design with toroid, for ultimate filtering capability).

#FLTR25TE

THE ULTIMATE NOISE FILTER

TEST DISCS

Until these CDs came along there was no way to quickly and accurately set up an automotive sound system without using some very high-end and expensive pieces of test equipment. Engineered and produced using state-of-the-art equipment, these discs are a must-have for any installer concerned with getting systems set up quickly and correctly.

CD101 lets you measure the reference level of components, test the reproduction quality of a system when driven with very low levels, and check speaker polarity.
Also included are low frequency tests for checking rattling or buzzing panels in a car, and low frequency bursts for testing sub systems.
#CD101

CD102 is the tool for testing and evaluating the staging and imaging of a system. One and a half years in the making, this disc has been used as judging software, and is indispensable in determining correct speaker placement.
#CD102

CD103 - "My Disc" contains 86 tracks. Learn what distortion really means in a system. Optimize the overall gain structure of a complete system, check speaker polarity (used with PLR1), check imaging, evaluate the noise floor of the system, and others!
#CD103

CD104 The ultimate amplifier level setting tool!
#CD104

CD105 - "Your Disc" was produced for the audio retailer, technician, or consumer as a sales and training aid. It is intended to make it easier to demonstrate and evaluate some of the more difficult to explain characteristics and specifications of an audio system. This disc demonstrates differences in: 1) Car wind, road and tire noise, 2) Spectral balance, 3) Crossover separation, 4) System noise, 5) and Distortion. A 'must-have' for retailers!
#CD105

CAR AUDIO BOOKS

In keeping with the SoundGate philosophy of "never stop learning", we've made the Richard Clark and David Navone publications available to our dealers. We feel these publications are invaluable when it comes to expanding your knowledge of "how things work, and if they don't...why not?" Yet another way to give yourself the edge.

A2TBBOOK

Over 800 pages of the most thoroughly-researched technical information concerning car audio in existence. Written by Richard Clark, Dave Navone, and a host of contributing writers, this volume will get you up to speed on almost any technical subject you can imagine that concerns car audio. Everything from the most basic principles of electricity, to high end concepts concerning acoustics. A MUST-HAVE for all shops.
#A2TBBOOK

ALTBOOK

Every installer has faced that dreaded sound when the car is started for the first time. Alternator whine can be a confusing problem to diagnose and solve. This book, written by the country's authority on noise problems in car audio systems, Dave Navone, explains what alternator noise is, and how to get rid of it. A fully illustrated resource that should be a part of every installer's tool box.
#ALTBOOK

SECRETS BOOK

Everyone knows how big the Soundoff scene is, and this book should be a first read by anyone contemplating building a new system, or tuning an existing one up for the next contest. Richard Clark's presence on the competition circuit is legendary, and he and David Navone's workshops on high-end car audio are the most valuable ever presented in our industry. Get one copy for yourself, and additional copies for every one of your customers involved in SPL, or sound-quality contests!
#SECRETSBK

DIAGNOSTIC AND TEST EQUIPMENT

GEN1K

The GEN1K produces a 1KHz sine wave through both speaker level and RCA outputs. A calibrated knob adjusts the pre-amp level signal from zero up to 3 volts RMS. With this feature the GEN1K can be used to optimally set amplifier levels in a system. Using the GEN1K's speaker level outputs, speaker wires can be easily located and tested.

#GEN1K

GENADJ

The GENADJ provides multiple frequency outputs of 50, 100, 200, 400, and 800 Hz. The alligator-clipped leads can drive a speaker up to an 8-volt peak-to-peak level. The RCA output is user adjustable from zero, up to 3 volts. Use this device to find exactly where noise is entering a system by driving each comp-onent of the system with the GENADJ. Also use to test speaker leads.
#GENADJ

GENSWEEP

The new GENSWEEP is a variable-frequency (20 Hz to 2 KHz) version of our GENADJ shown below left. 0 - 8v output peak-to-peak. This unit is perfect for full-range systems, where the GENADJ is better-suited for use in electronically crossed-over systems.
#GENSWEEP

PLR1

The PLR1 is the unit to use for checking speaker polarity. The first step after completing any system install should be a polarity check. Use the PLR1 along with track 23 on CD103 to check every speaker in the system. The affordable solution for guaranteeing your systems get off to the right start.
#PLR1

Page 21 of 52

Page 22 of 52

An amazing amount of information - right at your fingertips!

The few minutes it takes to become familiar with the SoundGate Application Guide can allow salespeople to answer customer questions quickly. After the sale is made, the accurate application information can save installers time in the bay. It all adds up to a professional, well-informed shop that customers return to, time after time.

1. Locate the vehicle

2. Find the project

3. Identify the SoundGate part that you'll need

4. Refer to the footnote, and "notes" sections at the back of the guide

SOUNDGATE® 2002 Application Guide

MAKE and MODEL	YEARS	VEHICLE IDENTIFIER/ QUALIFIER	INSTALL NOTES (pgs 44-52)	RECEIVER INSTALLATIONS use part #	RECEIVER FOOTNOTES	RETAIN ONSTAR use part #	CD CHANGER INTERFACE APPLICATIONS AND FOOTNOTES use part #	AUXILIARY INPUT INTERFACES use part #	STEERING WHEEL CONTROL INTERFACE APPLICATIONS and FOOTNOTES use part #	AMPLIFIER INSTALLATION APPLICATIONS and FOOTNOTES (Line output converter required)	FACTORY AMPLIFIER LOCATION
BMW											
3-Series (All, except sedan) including M and Z series	2002	With Harman Kardon system		OEHA4	(R1, R6)		A/BMW35/K3MIN/PVOBMW/SHBMW5/ #35 (C1, C4)	SDS1 with DOCKBMW (D1) or AUDIBMW(D2)		Type 1	G
	2002	Without Harman Kardon system		OEHA4	(R1, R6)		A/BMW35/K3MIN/PVOBMW/SHBMW5/ #35 (C1, C4)	SDS1 with DOCKBMW (D1) or AUDIBMW(D2)		Type 1	G
	2001	With Harman Kardon system		OEHA4	(R1, R6)		A/BMW35/K3MIN/PVOBMW/SHBMW5/ #35 (C1, CA)	SDS1 with DOCKBMW (D1) or AUDIBMW(D2)		Type 1	G
	2001	Without Harman Kardon system		OEHA4	(R1, R6)		A/BMW35/K3MAN/PVOBHW/SHBMW5/ #35 (C1, CA)	SDS1 with DOCKBMW (D1) or AUDIBMW(D2)		Type 1	G
	1999-00	With Harman Kardon system		OEHA4	(R1, R6)		A/BMW35/K3MAN/PVOBHW/SHBMW5/ #35 (C1, CA)	SDS1 with DOCKBMW (D1) or AUDIBMW(D2)		Not Needed	G
	1999-00	Without Harman Kardon system		OEHA4	(R1, R6)		A/BMW35/K3MAN/PVOBHW/SHBMW5/ #35 (C1, CA)	SDS1 with DOCKBMW (D1) or AUDIBMW(D2)		Type 1	G
3-Series Sedan	2002	With Harman Kardon system		OEHA4	(R1, R6)		A/BMW35/K3MAN/PVOBHW/SHBMW5/ #35 (C1, CA)	SDS1 with DOCKBMW (D1) or AUDIBMW(D2)		Not Needed	G
	2002	Without Harman Kardon system		OEHA4	(R1, R6)		A/BMW35/K3MAN/PVOBHW/SHBMW5/ #35 (C1, CA)	SDS1 with DOCKBMW (D1) or AUDIBMW(D2)		Type 1	G
	1999-01	With Harman Kardon system		OEHA4	(R1, R6)		A/BMW35/K3MAN/PVOBHW/SHBMW5/ #35 (C1, CA)	SDS1 with DOCKBMW (D1) or AUDIBMW(D2)		Not Needed	G
	1999-01	Without Harman Kardon system		OCHA4	(R1, R6)		A/BMW35/K3MAN/PVOBHW/SHBMW5/ #35 (C1, CA)	SDS1 with DOCKBMW (D1) or AUDIBMW(D2)		Not Needed	G
3-Series (All)	1996-98	With Harman Kardon system		OEHA4	(R1, R6)		A/BMW35/K3MAN/PVOBHW/SHBMW5/ (except #35) #35 (C1, CA)	SDS1 with DOCKBMW (D1) or AUDIBMW(D2)		Type 1	G
	1996-98	Without Harman Kardon system		Interface not needed			A/BMW35/K3MAN/PVOBHW/SHBMW5/ #35 (C1, CA)	SDS1 with DOCKBMW (D1) or AUDIBMW(D2)		Type 1	E
318ti	1995	All		OEHA4	(R2)		Factory only			Type 1	G
3-Series (All)	1995	All		OEHA4	(R1, R6)		Factory only			Type 1	G
	1990-94	All		PWR1	(R3)		Note #43			Type 1	none
	1989	With 4-speaker factory system		FLT1	(R5)					Type 1	G
	1987-89	With 6-speaker factory system		PWR1	(R3)					Type 1	G
	1985-96	All		PWR1	(R2)					Type 1	G
5-Series	2002	With factory Navigation	#35	Not recommended	(R1, R6)		A/BMW35/K3MIN/PVOBMW/SHBMW5/ #35 (C1, C4)	SDS1 with DOCKBMW (D1) or AUDIBMW(D2)		Type 1	G
	2002	Without factory Navigation system	#35	OEHA4	(R1, R6)		A/BMW35/K3MIN/PVOBMW/SHBMW5/ #35 (C1, C4)	SDS1 with DOCKBMW (D1) or AUDIBMW(D2)		Type 1	G
	1997-01	With DSP		Call for details	(R10)		Factory Only			Call for Details	G
	1997-01	Without DSP	#35	OEHA4	(R10)		A/BMW35/K3MIN/PVOBMW/SHBMW5/ #35 (C4, C6)	SDS1 with DOCKBMW (D1) or AUDIBMW(D2)		Type 2 (LOCB only)	G
	1985-96	All		FLT1	(R3)		1985-96 Factory Only			Type 1	none

Salespeople and Installers:

This application guide is your tool for making your job easier, less stressful and more productive. It represents over twenty years of information gathering efforts by the SoundGate Technical Department. Even as complete as this guide seems, it reflects only about 10% of the total information on file at SoundGate. If you can't find the answer to your question here in this guide, give us a call, and we'll check our files for the information you need.

SOUNDGATE® 2002 Application Guide

MAKE and MODEL	YEARS	VEHICLE IDENTIFIER/ QUALIFIER	INSTALL NOTES (pgs 44-52)	RECEIVER INSTALLATIONS use part #	RECEIVER FOOTNOTES	RETAIN ONSTAR use part #	CD CHANGER INTERFACE APPLICATIONS AND FOOTNOTES use part #	AUXILIARY INPUT INTERFACES use part #	STEERING WHEEL CONTROL INTERFACE APPLICATIONS and FOOTNOTES use part #	AMPLIFIER INSTALLATION APPLICATIONS and FOOTNOTES (Line output converter required)	FACTORY AMPLIFIER LOCATION
ACURA											
CL 2.2/3.0/3.2	2001-02	With factory Bose system	#57	OEM4A	(R1, R6)		ALPMSTR with DOCKHOND1 (C3)	SDS1 with DOCKHOND (D1)		Type 1 or ⬤	H
	1998-00	With factory Bose system		OEM4A	(R1, R6)		ALPMSTR with ALPMHD1 (C3)	SDS1 with DOCKHOND (D1)		Type 1 or 2	F
	1997	Without Bose system		Interface not needed	(R6)		ALPMSTR with ALPMHD1 (C3)	SDS1 with DOCKHOND (D1)		Type 1	F
	1997	With factory Bose system		OEM4A	(R1, R6)		ALHN1 (C3)			Type 1 or 2	F
		Without Bose system		Interface not needed	(R6)		ALHN1 (C3)			Type 1	none
Integra	1998-01	With factory Bose system		OEM4A	(R1, R6)		ALPMSTR with ALPMHD1 (98-01) (C3)	SDS1 with DOCKHOND (D1)		Type 1	I
		Without factory Bose system		Interface not needed	(R6)		ALPMSTR with ALPMHD1 (98-01) (C3)	SDS1 with DOCKHOND (D1)		Type 1 or 2	none
	1994-97	With factory Bose system		OEM4A	(R1, R6)		ALHN1 (C3)			Type 1 or 2	I
		Without Bose system		Interface not needed	(R6)		ALHN1 (C3)			Type 1 or 2	none
Legend	1990-93	All		Interface not needed	(R6)		ALHN1 (92-93) (K3)			Type 1	none
	1992-95	With factory Bose system		OEM4A	(R7)		ALHN1 (C3)			Type 1 or 2	E
		Without factory Bose system		Interface not needed	(R6)		ALHN1 (C3)			Type 1 or 2	none
	1991	With factory Bose system		OEM4A	(R7)					Type 1 or 2	E
		Without factory Bose system		Interface not needed	(R6)					Type 1 or 2	none
	1986-90	All		OEM4A	(R7)					Type 2 (LOC8 or LOCPREA)	E
MDX	2001-02	With factory Bose system		Interface not needed	(R1, R6)					Type 1 or 2	K, G (sub)
		Without factory Bose system		Interface not needed	(R6)					Type 1	none
NSX	1992-02	With factory Bose system		OEM4A or FLT1	(R8)		ALHN1 (92-00) (K3)			Type 2 (LOC8 only)	I
RL 3.5	2002	With factory Bose system		Interface not needed	(R8)	Startfod	ALHN1 (92-00) (K3)			Type 1	none
	2002	With factory Bose system		OEM4A	(R1, R6)	Startfod				Type 2 (LOC8 or LOCPREA)	none
		Without factory Bose system		Interface not needed	(R8)					Type 1	I
	1999-01	With factory Bose system		OEM4A	(R1, R6)					Type 2 (LOC8 or LOCPREA)	none
		Without factory Bose system		Interface not needed	(R8)					Type 1	I
	1998	With factory Bose system		OEM4A	(R1, R6)		ALHN1 (C3)			Type 2 (LOC8 or LOCPREA)	none
		Without factory Bose system		Interface not needed	(R8)		ALHN1 (C3)			Type 1	I
	1997	With factory Bose system		OEM4A	(R1, R6)					Type 2 (LOC8 or LOCPREA)	I
		Without factory Bose system		Interface not needed	(R8)					Type 1	I
RSX	2002	With factory Bose system		OEM4A	(R1, R6)					Type 1 or 2	none
		Without factory Bose system		Interface not needed	(R8)					Type 1	I
SLX	1999-99	With factory Bose system		OEM4A	(R1, R6)					Type 2 (LOC8 or LOCPREA)	none
		Without factory Bose system		Interface not needed	(R8)					Type 1	I
	1996-97	With factory Bose system		OEM4A	(R1, R6)					Type 2 (LOC8 or LOCPREA)	none
		Without factory Bose system		Interface not needed	(R8)					Type 1	I
TL 2.5/3.2	2001-02	With factory Bose system		Interface not needed	(R8)		ALPMSTR with ALPMHD1 (C3)	SDS1 with DOCKHOND (D1)		Type 1 ⬤	none
		Without factory Bose system		Interface not needed	(R8)		ALPMSTR with ALPMHD1 (C3)	SDS1 with DOCKHOND (D1)		Type 1	none
	1999-00	With factory Bose system		Interface not needed	(R8)		ALHN1- w/out Nav. Only (C3)	SDS1 with DOCKHOND (D1)		Type 2 (LOC8 or LOCPREA)	none
		Without factory Bose system		Interface not needed	(R8)		ALHN1- w/out Nav. Only (C3)	SDS1 with DOCKHOND (D1)		Type 2	none
	1996-97	With factory Bose system		Interface not needed	(R8)		ALHN1 (C3)			Type 1	none
Vigor	1992-96	With factory Bose system	#16	OEM4A	(R1, R6)	Startfod	ALHN1 (C3)			Type 2 (LOC8 or LOCPREA)	I
		Without factory Bose system		Call for details	(R10)	Startfod	ALHN1 (C3)			Type 2 (LOC8 or LOCPREA)	B
AUDI											
80/90	1992-95	All		PWR1	(R5)					Type 1	E
	1988-91	All		PWR1	(R3)					Type 1	none
100/200/S4/S6	1992-94	With Bose system		OEM4A	(R1, R6)		ALVWYKNWW1 with VW2BLA (C4)	SDS1 with DOCKAUDI (D1) or AUIXVW (D2)		Type 2 (LOC8 or LOCPREA)	I
		Without Bose system		PWR1	(R6)		ALVWYKNWW1 with VW2BLA (C4)	SDS1 with DOCKAUDI (D1) or AUIXVW (D2)		Type 1	E
	1989-91	With Bose system		OEM4A	(R1, R6)		ALVWYKNWW1 with VW2BLA (C4)	SDS1 with DOCKAUDI (D1) or AUIXVW (D2)		Type 2 (LOC8 or LOCPREA)	E
		Without Bose system		Interface not needed	(R6)		ALVWYKNWW1 with VW2BLA (C4)	SDS1 with DOCKAUDI (D1) or AUIXVW (D2)		Type 1	none
5000 /A6	1985-88	All with 10-speaker system		PWR1	(R5)					Type 1	E
A4/S4	2002	With Bose system	#58	OEM4A	(R1, R5, R6)					Type 1 or 2	E
		With Concert (Non-Bose) system	#58	Interface not needed	(R1, R5, R6)					Type 1	none
	2001	With Bose system	#58	OEM4A	(R1, R5, R6)					Type 1 or 2	E
		With Concert (Non-Bose) system	#58	Interface not needed	(R1, R5, R6)					Type 1	E

23

SOUNDGATE® 2002 Application Guide

KICKER000132

MAKE and MODEL	YEARS	VEHICLE IDENTIFIER/ QUALIFIER	INSTALL NOTES (pgs 44-52)	RECEIVER INSTALLATIONS use part #	RECEIVER FOOTNOTES	RETAIN ONSTAR use part #	CD CHANGER INTERFACE APPLICATIONS AND FOOTNOTES use part #	AUXILIARY INPUT INTERFACES use part #	STEERING WHEEL CONTROL INTERFACE APPLICATIONS and FOOTNOTES use part #	AMPLIFIER INSTALLATION APPLICATIONS and FOOTNOTES (Line output converter required)	FACTORY AMPLIFIER LOCATION
A4/S4 (cont.)	1998-00	With Factory Bose system		OEM-A	(R1, R5, R6)		ALVW1/KNVW1 with VWCBLA (C4)	SDS1 with DOCKAUDI (D1) or AUXVW (D2)		Type 2 (LOC3 or LOCPREA)	G
		Without Harman Kardon system	#58	Interface not needed	(R1, R5, R6)		ALVW1/KNVW1 with VWCBLA (C4)	SDS1 with DOCKAUDI (D1) or AUXVW (D2)		Type 2 (LOC3 or LOCPREA)	E
	1996-97	With factory Bose system		OEM-A	(R1, R5, R6)		Factory only			Type 2 (LOC3 or LOCPREA)	G
		With factory Concert Sound system	#58	Interface not needed	(R1, R5, R6)		Factory only			Type 2 (LOC3 or LOCPREA)	E
A6/S6	2002	With factory Bose system		OEM-A	(R1, R2, R6)	StartMod	ALVW1/KNVW1 with VWCBLA (C4)	SDS1 with DOCKAUDI (D1) or AUXVW (D2)		Type 2 (LOC3 or LOCPREA)	F
		With factory Gamma system	#61	OEM-A	(R1, R6)	StartMod	ALVW1/KNVW1 with VWCBLA (C4)	SDS1 with DOCKAUDI (D1) or AUXVW (D2)		Type 2 (LOC3 or LOCPREA)	sub only
	1998-01	With factory Bose system		OEM-A	(R1, R2, R6)		ALVW1/KNVW1 with VWCBLA (C4)	SDS1 with DOCKAUDI (D1) or AUXVW (D2)		Type 2 (LOC3 or LOCPREA)	F
		With factory Gamma system	#61	OEM-A	(R1, R6)		ALVW1/KNVW1 with VWCBLA (C4)	SDS1 with DOCKAUDI (D1) or AUXVW (D2)		Type 2 (LOC3 or LOCPREA)	sub only
	1995-97	With factory Bose system		OEM-A	(R1, R2, R6)		Factory only	SDS1 with DOCKAUDI (D1) or AUXVW (D2)		Type 2 (LOC3 or LOCPREA)	I
A6/S6	2002	With factory Bose system, w/out Nav.		OEM-A	(R1, R6)	StartMod	ALVW1/KNVW1 with VWCBLA (C4)	SDS1 with DOCKAUDI (D1) or AUXVW (D2)		Type 2 (LOC3 or LOCPREA)	F
		With factory Bose system, with Nav.		Not Recommended		StartMod	ALVW1/KNVW1 with VWCBLA (C4)	SDS1 with DOCKAUDI (D1) or AUXVW (D2)		Type 1	F
	2000-01	With factory Bose system, w/out Nav.		OEM-A	(R1, R6)		ALVW1/KNVW1 with VWCBLA (C4)	SDS1 with DOCKAUDI (D1) or AUXVW (D2)		Type 2 (LOC3 or LOCPREA)	F
		With factory Bose system, with Nav.		Not Recommended			ALVW1/KNVW1 with Nav.	SDS1 with DOCKAUDI (D1) or AUXVW (D2)		Type 1	F
	1999-99	With factory Bose system		OEM-A	(R1, R6)		ALVW1/KNVW1 with VWCBLA (C4)	SDS1 with DOCKAUDI (D1) or AUXVW (D2)		Type 1 or 2	I
	1996-97	With factory Bose system		OEM-A	(R1, R6)		Factory only	SDS1 with DOCKAUDI (D1) or AUXVW (D2)		Type 1 or 2	I
All-Road Quattro	2001-02	With 9-speaker system		OEM-A	(R1, R6)	StartMod	ALVW1/KNVW1 with VWCBLA (C4)	SDS1 with DOCKAUDI (D1) or AUXVW (D2)		Type 1 or 2	
		With 8-speaker Bose System		OEM-A	(R1, R6)		ALVW1/KNVW1 with VWCBLA (C4)	SDS1 with DOCKAUDI (D1) or AUXVW (D2)		Type 1 or 2	
Cabriolet	1994-98	All		Interface not needed						Type 1	none
TT	1999-02		#64	Interface not needed	(R1, R6)	StartMod	ALVW1/KNVW1 with VWCBLA (C4)	SDS1 with DOCKAUDI (D1) or AUXVW (D2)		Type 1 or 2 (LOC3 or LOCPREA)	E - right side
V8	1990-02	With factory Bose system		Interface not needed	(R1, R6)		ALVW1/KNVW1 with VWCBLA (C4)	SDS1 with DOCKAUDI (D1) or AUXVW (D2)		Type 1	none
	1990-94	Without Bose system		Interface not needed						Type 2 (LOC3 or LOCPREA)	I
BMW										Type 1	none
3-Series (ALL except sedan) Including M and Z series	2002	With Harman Kardon system		OEM-A	(R1, R6)		ABMW35/K3BMW/PI0BMW/SNBMW5/ #35 (C1, C4)	SDS1 with DOCK3BMW (D1) or AUX3BMW (D2)		Type 1	G
		Without Harman Kardon system		OEM-A	(R1, R6)		ABMW35/K3BMW/PI0BMW/SNBMW5/ #35 (C1, C4)	SDS1 with DOCK3BMW (D1) or AUX3BMW (D2)		Type 1	G
	2001	With Harman Kardon system		OEM-A	(R1, R6)		ABMW35/K3BMW/PI0BMW/SNBMW5/ #35 (C1, C4)	SDS1 with DOCK3BMW (D1) or AUX3BMW (D2)		Type 1	G
		Without Harman Kardon system		OEM-A	(R1, R6)		ABMW35/K3BMW/PI0BMW/SNBMW5/ #35 (C1, C4)	SDS1 with DOCK3BMW (D1) or AUX3BMW (D2)		Not Needed	G
	1999-00	With Harman Kardon system		OEM-A	(R1, R6)		ABMW35/K3BMW/PI0BMW/SNBMW5/ #35 (C1, C4)	SDS1 with DOCK3BMW (D1) or AUX3BMW (D2)		Type 1	G
		Without Harman Kardon system		OEM-A	(R1, R6)		ABMW35/K3BMW/PI0BMW/SNBMW5/ #35 (C1, C4)	SDS1 with DOCK3BMW (D1) or AUX3BMW (D2)		Not Needed	G
3-Series Sedan	2002	With Harman Kardon system		OEM-A	(R1, R6)		ABMW35/K3BMW/PI0BMW/SNBMW5/ #35 (C1, C4)	SDS1 with DOCK3BMW (D1) or AUX3BMW (D2)		Type 1	G
		Without Harman Kardon system		OEM-A	(R1, R6)		ABMW35/K3BMW/PI0BMW/SNBMW5/ #35 (C1, C4)	SDS1 with DOCK3BMW (D1) or AUX3BMW (D2)		Not Needed	G
	1999-01	With Harman Kardon system		OEM-A	(R1, R6)		ABMW35/K3BMW/PI0BMW/SNBMW5/ #35 (C1, C4)	SDS1 with DOCK3BMW (D1) or AUX3BMW (D2)		Type 1	G
		Without Harman Kardon system		OEM-A	(R1, R6)		ABMW35/K3BMW/PI0BMW/SNBMW5/ except sedan #35 (C1, C4)	SDS1 with DOCK3BMW (D1) or AUX3BMW (D2)		Not Needed	none
3-Series (All)	1996-98	With Harman Kardon system		OEM-A	(R1, R6)		ABMW35/K3BMW/PI0BMW/SNBMW5/ #35 (C1, C4)	SDS1 with DOCK3BMW (D1) or AUX3BMW (D2)		Type 1	G
		Without Harman Kardon system		Interface not needed	(R2)		Factory only			Type 1	E
318i	1996	All		OEM-A	(R1, R6)		Factory only			Type 1	G
3-Series (All)	1995	All		PWR1	(R3)		Note #43			Type 1	G
	1990-94	All		FLT1	(R3)					Type 1	none
	1989	With 4-speaker factory system		FLT1	(R3)					Type 1	G
	1987-88	With 6-speaker factory system		PWR1	(R3)					Type 1	G
	1985-86	All		PWR1	(R2)		Factory only			Type 1	G
5-Series	2002	With factory Navigation		Not recommended			ABMW35/K3BMW/PI0BMW/SNBMW5/ #35 (C1, C4)	SDS1 with DOCK3BMW (D1) or AUX3BMW (D2)		Type 1	G
		Without factory Navigation system	#55	OEM-A	(R1, R6)		ABMW35/K3BMW/PI0BMW/SNBMW5/ #35 (C1, C4)	SDS1 with DOCK3BMW (D1) or AUX3BMW (D2)		Type 1	G
	1997-01	With DSP	#55	Call for details			Factory Only			Call for Details	
		Without DSP		OEM-A	(R10)		ABMW35/K3BMW/PI0BMW/SNBMW5/ #35 (C4)	SDS1 with DOCK3BMW (D1) or AUX3BMW (D2)		Type 2 (LOC3 only)	none
	1995-96	All		FLT1	(R3)		1995-96 Factory Only			Type 1	none
6-Series (All)	1987-89	All		PWR1	(R3)					Type 1	none
7-Series	2002	Information forthcoming									
	Sept. 98	Without DSP	#55	OEM-A	(R10)		ABMW35/K3BMW/PI0BMW/SNBMW5/ #35 (C4, NB)	SDS1 with DOCK3BMW (D1) or AUX3BMW(D2)		Type 1	G
	thru 01	With DSP		Call for details			Factory Only			Call for Details	
	1995-98	All thru Aug. 98		OEM-A	(R10)		Factory only			Type 1	E
	1989-94	All		PWR1	(R3)		Factory only			Type 1	none
X5	2002	Sport Utility		OEM-A			ABMW35/K3BMW/PI0BMW/SNBMW5/ #35 (C4, NB)	SDS1 with DOCK3BMW (D1) or AUX3BMW(D2)			G
	2000-01	Sport Utility without DSP		OEM-A	(R1, R6)		ABMW35/K3BMW/PI0BMW/SNBMW5/ #35 (C4, NB)	SDS1 with DOCK3BMW (D1) or AUX3BMW(D2)		Type 1	G

SOUNDGATE 2002 Application Guide

MAKE and MODEL	YEARS	VEHICLE IDENTIFIER/ QUALIFIER	INSTALL NOTES (pgs 44-62)	RECEIVER INSTALLATIONS use part #	RECEIVER FOOTNOTES	RETAIN ONSTAR use part #	CD CHANGER INTERFACE APPLICATIONS AND FOOTNOTES use part #	AUXILIARY INPUT INTERFACES use part #	STEERING WHEEL CONTROL INTERFACE APPLICATIONS AND FOOTNOTES use part #	AMPLIFIER INSTALLATION APPLICATIONS AND FOOTNOTES (Line output converter required)	FACTORY AMPLIFIER LOCATION
XS (cont) 28	2000-01	Sport Utility with DSP		Call for details	(R10)		Factory changer is standard equipment (C6)			Call for Details	G
	2001-02	With Harman Kardon system		OEMAA	(R1, R6)		Factory Only			Type 1	G
BUICK											
Century	1997-02	With factory Bose system	#19, 25	OEM4A	(R1, R6)	StarMod (98-02)		SDS1 with DOCKSM2 (97-001) (D1)	REMOTE1.5	Type 2 (LOC8 or LOCPREN)	E
	1997-02	Without Bose system	#19, 25	Interface not needed		StarMod (98-02)		SDS1 with DOCKSM2 (97-001) (D1)	REMOTE1.5	Type 1	E
	1997-96	All		Interface not needed						Type 1	none
Electra	1989-94	With factory Bose system	#37	GMB1	(R1, R6, R11)					Type 2 (LOC8 only)	I
		Without Bose system		Interface not needed						Type 1	none
	1985-88	With factory Bose system	#37	GMB2	(R1, R6, R11)					Type 2 (LOC8 only)	I
		Without Bose system		Interface not needed						Type 1	I
LeSabre	2000-02	All	19, 20, 25, 26, 32, 63	Not Recommended	(R1, R6)	StarMod (T1)			Not recommended	Type 1	none
	1997-99	All	#25 (98-99)	Interface not needed		StarMod (98-99)		SDS1 with DOCKSM2 (96-99) (D1)	REMOTE1.5	Type 1	none
	1995-96	All		Interface not needed				SDS1 with DOCKSM2 (95 only) (D1)	REMOTE1.5	Type 1	none
	1994	All		Interface not needed					REMOTE1.5	Type 1	I
	1986-67	With factory Bose system	#37	GMB2	(R1, R6, R11)					Type 2 (LOC8 only)	none
		Without Bose system		Interface not needed						Type 1	I
Park Avenue or Ultra	1997-02	With 6-speaker system	#25	Interface not needed		StarMod (98-02)		SDS1 with DOCKSM2 (96-00) (D1)	REMOTE1.5	Type 1	none
		With 9-speaker system	#21, 23, 25	Do Not Use Interface		StarMod (98-02)		SDS1 with DOCKSM2 (96-00) (D1)	REMOTE1.5	Type 1 or 2	E
	1995-96	All		Interface not needed				SDS1 with DOCKSM2 (96 only) (D1)	REMOTE1.5	Type 1	none
	1989-94	With factory Bose system	#37	GMB1	(R1, R6, R11)				REMOTE1.5	Type 2 (LOC8 only)	I
		Without Bose system		Interface not needed						Type 1	none
	1985-88	With factory Bose system	#37	GMB2	(R1, R6, R11)					Type 2 (LOC8 only)	I
		Without CRT screen		Interface not needed						Type 1	none
Reatta	1989-91	Without CRT screen		OEM4A	(R1, R6)					Type 1	C
Regal	1999-02	With factory subs	#19, 20, 25	Interface not needed	(R1, R6)	StarMod		SDS1 with DOCKSM2 (96-00) (D1)	REMOTE1.5	Type 1	none
		With factory subs - Bose	19, 20, 23, 25	OEM4A	(R1, R6)	StarMod		SDS1 with DOCKSM2 (96-00) (D1)	REMOTE1.5	Type 1 or 2	B
	1998	All	#25 (98 only)	Interface not needed		StarMod		SDS1 with DOCKSM2 (D1)	REMOTE1.5	Type 1 or 2	none
	1995-97	All		Interface not needed				SDS1 with DOCKSM2 (96-97) (D1)	REMOTE1.5	Type 1	none
	1994	All		Interface not needed					REMOTE1.5	Type 1	none
	1988-96	Coupe		OEM4A	(R1, R6)					Type 1	C
Rendezvous	2002	With 6-speaker system	#25, 26, 28, 62	Interface not needed	(R1, R6, R11)	StarMod (T1)			REMOTE1.5 or GMSWH	Type 1	none
		With V6-speaker system	#25, 26, 28	Interface not needed	(R1, R6, R11)	StarMod (T1)			REMOTE1.5 or GMSWH	Type 1	A
Riviera	1996-99	With factory Bose system	#37, 25	OEM4A	(R1, R6)	StarMod (98-99)		SDS1 with DOCKSM2 (D1)	REMOTE1.5	Type 1 or 2	E
		Without factory Bose system	#25 (98 only)	Interface not needed				SDS1 with DOCKSM2 (D1)	REMOTE1.5	Type 1 or 2	none
	1995	All		Interface not needed						Type 1	none
	1990-93	With factory Bose system	#37	GMB1	(R1, R6, R11)					Type 2 (LOC8 only)	I
		Without factory Bose system		Interface not needed						Type 1	I
	1986-89	With factory Bose system		GMB2	(R1, R6, R11)					Type 2 (LOC8 only)	I
		Without factory Bose system		Interface not needed						Type 1	none
Skylark	1997-98	All	#94	Interface not needed	(R1, R6, R11)	StarMod (T1)		SDS1 with DOCKSM2 (97) (D1)	REMOTE1.5 or GMSWH	Type 1	none
	1988-96	All	#37	GMB1	(R1, R6)			SDS1 with DOCKSM2 (D1) (96 only)	REMOTE1.5	Type 2 (LOC8 only)	I
	1986-67	With factory Bose system	#37	Interface not needed	(R1, R6, R11)					Type 1	I
Somerset	1986-67	With factory Bose system	#37	GMB1	(R1, R6, R11)					Type 2 (LOC8 only)	I
		Without factory Bose system		Interface not needed						Type 1	none
CADILLAC											
Allante	1987-92	With factory Bose system	#37	OEM4A	(R1, R6)					Type 2 (LOC8 only)	C
		Without factory Bose system		Interface not needed						Type 1	none
Catera	1997-02	Without factory Bose System	#25, 62 (98-02)	Interface not needed		StarMod (T1)				Type 1	none
		With factory Bose System	#22, 25, 37	OEM4A	(R1, R6)	StarMod (T1)				Type 2 (LOC8 only)	E
CTS	2003	Without factory Bose System	#65	Not recommended					Not recommended	Type 1	E
		With factory Bose System		Not recommended					Not recommended	Type 1	G
		With Navigation System		Not recommended					Not recommended	Type 1	G
Deville	2000-02	With Navigation screen	Call before performing any work on this vehicle						Not recommended	Type 1	G

MAKE and MODEL	YEARS	VEHICLE IDENTIFIER/ QUALIFIER	INSTALL NOTES (pgs 44-52)	RECEIVER INSTALLATIONS use part #	RECEIVER FOOTNOTES	RETAIN ONSTAR use part #	CD CHANGER INTERFACE APPLICATIONS AND FOOTNOTES use part #	AUXILIARY INPUT INTERFACES use part #	STEERING WHEEL CONTROL INTERFACE APPLICATIONS and FOOTNOTES use part #	AMPLIFIER INSTALLATION APPLICATIONS and FOOTNOTES (Line output converter required)	FACTORY AMPLIFIER LOCATION
Deville (cont)	1996-96	With factory Bose system	#37, 25 (95)	GMB1	(R1, R6, R11)				REMOTE1.5 (95 only)	Type 2 (LOC8 only)	I
		Without factory Bose system		Interface not needed						Type 1	none
Eldorado	1996-02	With 6-speaker non-Bose system	#25, 26	Interface not needed		StartMod (T1)			Not recommended	Type 1	none
		With 4-speaker Bose system	#26	Not recommended					Not recommended	Type 1	E cantr
	1992-95	With factory Bose system	#22, 37	GMB1	(R1, R6, R11)					Type 2 (LOC8 only)	none
		Without factory Bose system		Interface not needed						Type 1	none
	1986-91	With factory Bose system	#37	GMB1	(R1, R6, R11)					Type 2 (LOC8 only)	I
		Without factory Bose system		Interface not needed						Type 1	none
	1985	With factory Bose system	#37	GMB2	(R1, R6, R11)					Type 2 (LOC8 only)	I
		Without factory Bose system		Interface not needed						Type 1	none
Escalade	2001-02	With 4-speaker Base audio system	#25	Interface not needed		StartMod (T2)		SDS1 with DOCKGM1 (D1)		Type 1	A
		With 9-speaker Up level system	#25, 28	OEM4A	(R1, R6)	StartMod (T2)		SDS1 with DOCKGM1 (D1)		Type 1 or 2	G
		With Bose audio system	#25, 28	OEM4A	(R1, R6)	StartMod (T2)		SDS1 with DOCKGM1 (D1)		Type 1 or 2	K
	1999-00	With Luxury audio system	#25	GMB1	(R1, R6, R11)			SDS1 with DOCKGM1 (D1)		Type 2 (LOC8 only)	A
		With Base audio system	#25	Interface not needed				SDS1 with DOCKGM1 (D1)		Type 1	C
Escalade EXT	2002	With amplified system		OEM4A	(R1, R6)			SDS1 with DOCKGM1 (D1)	REMOTE1.5 or GMSW1	Type 2 (LOC8 only)	E
Fleetwood and Brougham	1989-96	With factory Bose system	#37	GMB1	(R1, R6, R11)	StartMod (T2)				Type 1	I
		Without factory Bose system		Interface not needed						Type 1	none
Seville	2000-02	Call SoundGate Before Starting	#19, 20, 24, 25, 26						Not Recommended	Type 2 (LOC8 only)	E
	1999-99	Call SoundGate Before Starting	#19, 20, 24, 25, 26						Not Recommended	Type 1	E
	1996-97	Call SoundGate Before Starting	#24, 25, 26						Not Recommended	Type 2 (LOC8 only)	E
	1992-95	With factory Bose system	#37, 22	GMB1 (92-95)	(R1, R6, R11)				Not Recommended	Type 2 (LOC8 only)	I
		Without factory Bose system		Interface not needed						Type 1	none
	1986-91	With factory Bose system	#37	GMB1	(R1, R6, R11)					Type 2 (LOC8 only)	I
		Without factory Bose system		Interface not needed						Type 1	I
CHEVROLET											
Astro	1996-02	All	#28, 50	Interface not needed				SDS1 with DOCKGM1 (99-02) (D1)		Type 1	G (sub)
Avalanche	2002	With amplified system		OEM4A	(R1, R6)	StartMod (T2)		SDS1 with DOCKGM1 (D1)		Type 1	C
Blazer	1996-02	With factory Bose system	#25	OEM4A	(R1, R6)	StartMod (99-01)		SDS1 with DOCKGM1 (D1)	REMOTE1.5 or GMSW1	Type 1 or 2	K
		Without factory Bose system	#25	Interface not needed				SDS1 with DOCKGM1 (D1)	REMOTE1.5 or GMSW1 (97 only)	Type 1	none
	1992-97	All		OEM4A						Type 1	none
	1989-91	With amplified system		Do Not Use Interface	(R1, R6)					Type 1 or 2 (A6)	J
Camaro	1997-02	With 8-speaker Monsoon system	#17	Interface not needed				SDS1 with DOCKGM2 (96-00) (D1)	REMOTE1.5 or GMSW1	Type 1 or 2 (A6)	F
		Without Monsoon system (4 speakers)	#35	Interface not needed				SDS1 with DOCKGM2 (96-00) (D1)	REMOTE1.5 or GMSW1	Type 1	none
	1994-96	With factory Bose system	#10, 37	GMB1	(R1, R6, R11)			SDS1 with DOCKGM2 (96) (D1)	REMOTE1.5 or GMSW1	Type 2 (LOC8 only)	I
		Without factory Bose system		Interface not needed				SDS1 with DOCKGM2 (96) (D1)	REMOTE1.5 or GMSW1	Type 1	I
	1989-93	With factory Bose system	#10, 37	GMB1	(R1, R6, R11)					Type 2 (LOC8 only)	I
		Without factory Bose system		Interface not needed						Type 1	none
	1987-88	With factory Bose system	#37	GMB2	(R1, R6, R11)					Type 2 (LOC8 only)	G
		Without factory Bose system		Interface not needed						Type 1	none
Caprice	1994	Wagon	#37	OEM4A	(R1, R6)					Type 1	C
	1991-93	With factory Bose system		Interface not needed						Type 2 (LOC8 only)	E
		Without Bose system		OEM4A						Type 1	E
Cavalier	2002	Without Monsoon audio system	#26	Interface not needed		StartMod (T1)				Type 1 or 2 (A6)	E
		With Monsoon audio system	#26	OEM4A	(R1, R6)					Type 1	E
	2000-01	Without Monsoon audio system. IMPORTANT!! - See Note #18 for an important warning concerning the airbags in this vehicle!	#18, 26	Interface not needed						Type 1	none
		With Monsoon audio system. IMPORTANT!! - See Note #18 for an important warning concerning the airbags in this vehicle!	#18, 26	OEM4A	(R1, R6)					Type 1 or 2 (A6)	E
	1998-99	All		Interface not needed				SDS1 with DOCKGM2 (D1)		Type 1	none
	1997	All		Interface not needed				SDS1 with DOCKGM2 (D1)	REMOTE1.5	Type 1	none

KICKER000134

SOUNDGATE® 2002 Application Guide

MAKE and MODEL	YEARS	VEHICLE IDENTIFIER/ QUALIFIER	INSTALL NOTES (pgs 44-52)	RECEIVER INSTALLATIONS use part #	RECEIVER FOOTNOTES	RETAIN ONSTAR use part #	CD CHANGER INTERFACE APPLICATIONS AND FOOTNOTES use part #	AUXILIARY INPUT INTERFACES use part #	STEERING WHEEL CONTROL INTERFACE APPLICATIONS and FOOTNOTES use part #	AMPLIFIER INSTALLATION APPLICATIONS and FOOTNOTES (Line output converter required)	FACTORY AMPLIFIER LOCATION
Corvette	1997-02	With factory Bose system		GMCRV1	(R1, R6)			SDS1 with DOCKGM2 (D1)		Type 2 (LOC6 only)	doors
	1990-96	Without factory Bose system		Interface not needed				SDS1 with DOCKGM2 (D1)		Type 1	none
		With factory Bose system	#11, 22, 37	GMB1	(R1, R6, R11)					Type 2 (LOC6 only)	none
		Without factory Bose system	#37	Interface not needed						Type 1	none
	1985-89	With factory Bose system	#37	GMB2	(R1, R6, R11)					Type 2 (LOC6 only)	I
		Without factory Bose system		Interface not needed						Type 1	none
	1984	With factory Bose system	#9, 37	GMB2	(R1, R6, R11)					Type 2 (LOC8 or LOCPBEA)	I
	2002	Without factory Bose system		OEM4A	(R1, R6)					Type 1 or 2	
Express		All		Interface not needed						Type 1	
	1996-01	All		Interface not needed				SDS1 with DOCKGM1 (99-00) (D1)		Type 1	none
Impala	2000-02	With Bose System	#25, 26, 27, 38, 63	OEM4A	(R1, R6)	StarMod (T1)	REMOTE1.5 or GMSW1 (S2)	SDS1 with DOCKGM2 (D1)		Type 1 or 2	E
		Without Bose System	#25, 26, 27, 38, 63	Interface not needed		StarMod (T1)	REMOTE1.5 or GMSW1 (S2)	SDS1 with DOCKGM2 (D1)		Type 1 or 2	none
Lumina	2000	All	#25 (98-99)	Interface not needed		StarMod	REMOTE1.5 or GMSW1			Type 1	none
	1995-99	All		Interface not needed		StarMod (98-99)	REMOTE1.5 or GMSW1	SDS1 with DOCKGM2 (95-99) (D1)		Type 2 (LOC8 only)	E
	1991-94	With factory Bose System	#37	GMB1	(R1, R6, R11)					Type 1	none
		Without Bose System		Interface not needed						Type 1	none
Malibu	2001-02	All	#25	Interface not needed						Type 1	none
	1998-00	All		Interface not needed				SDS1 with DOCKGM2 (99-00) (D1)		Type 1	none
Metro	1998-01	All		Interface not needed						Type 1	none
Monte Carlo	2002	With Bose system	#25, 26, 27, 37, 38	OEM4A	(R1, R6)	StarMod (T1)	REMOTE1.5 or GMSW1	SDS1 with DOCKGM2 (D1)		Type 1 or 2 (LOC6 only)	E
		Without Bose system	#25, 26, 27, 38	Interface not needed		StarMod (T1)	REMOTE1.5 or GMSW1	SDS1 with DOCKGM2 (D1)		Type 1 or 2 (LOC6 only)	E
	2000-01	With Bose system	#27, 37, 38	OEM4A	(R1, R6)	StarMod (T1)		SDS1 with DOCKGM2 (D1)		Type 1	E
		Without Bose system	#27, 37, 38	Interface not needed		StarMod (T1)				Type 1	none
	1995-99	All	#25 (98-99)	Interface not needed		StarMod (98-99)	REMOTE1.5 or GMSW1	SDS1 with DOCKGM2 (98-99) (D1)		Type 1	none
Pickup Heavy Duty	2001-02	All	#25	Interface not needed		StarMod (T2)		SDS1 with DOCKGM1 (D1)		Type 1	none
Pickup C/K	1998-02	All	#25	Interface not needed		StarMod (T2)		SDS1 with DOCKGM1 (D1)		Type 1	none
Pickup S10	1999-01	All		Interface not needed			REMOTE1.5 or GMSW1	SDS1 with DOCKGM1 (D1)		Type 1	K
	1998	All		Interface not needed				SDS1 with DOCKGM1 (D1)		Type 1	A
	1988-94	All		Interface not needed				SDS1 with DOCKGM1 (D1)		Type 1	A
Pickup Silverado	2002	All		Interface not needed		StarMod (T2)		SDS1 with DOCKGM1 (D1)		Type 1	none
	1996-01	All		Interface not needed		StarMod		SDS1 with DOCKGM1 (D1)		Type 1	none
Prizm	1998-02	All		OEM4A	(R1, R6)			SDS1 with DOCKGM1 (D1)		Type 1	C
Suburban	2001-02	With 9-speaker non-Bose system	#25, 28	OEM4A		StarMod (T2)	REMOTE1.5 or GMSW1	SDS1 with DOCKGM1 (D1)		Type 1	G
		With 9-speaker Bose system	#25, 29	OEM4A		StarMod (T2)		SDS1 with DOCKGM1 (D1)		Type 1	none
		With 4-speaker system	#25, 28	Interface not needed		StarMod (T2)		SDS1 with DOCKGM1 (D1)		Type 1	C
	2000	With 9-speaker non-Bose system	#25, 28	OEM4A		StarMod		SDS1 with DOCKGM1 (D1)		Type 1	G
		With 9-speaker Bose system	#25, 29	OEM4A		StarMod		SDS1 with DOCKGM1 (D1)		Type 1	none
		With 4-speaker system	#25, 28	Interface not needed		StarMod		SDS1 with DOCKGM1 (D1)		Type 1	C
	1999	With subwoofer in center console	#25, 28	OEM4A		StarMod		SDS1 with DOCKGM1 (D1)		Type 1	K
		Without subwoofer in console	#25	Interface not needed	(R1, R6)	StarMod		SDS1 with DOCKGM1 (D1)		Type 1	A
	1998	All		Interface not needed		StarMod		SDS1 with DOCKGM1 (D1)		Type 1	A
	1995-97	All		Interface not needed				SDS1 with DOCKGM1 (D1)		Type 1	A (optional)
	1989-91	With amplified system		OEM4A	(R1, R6)			SDS1 with DOCKGM1 (D1)		Type 1	J
Tahoe	2001-02	With 9-speaker non-Bose system	#25, 28	Interface not needed		StarMod (T2)	REMOTE1.5 or GMSW1	SDS1 with DOCKGM1 (D1)		Type 1	C
		With 9-speaker Bose system	#25, 29	Interface not needed		StarMod (T2)		SDS1 with DOCKGM1 (D1)		Type 1	G
		With 4-speaker system	#25, 28	Interface not needed		StarMod (T2)		SDS1 with DOCKGM1 (D1)		Type 1	none
	2000	With 9-speaker non-Bose system	#25, 28	OEM4A	(R1, R6)	StarMod		SDS1 with DOCKGM1 (D1)		Type 1	C
		With 9-speaker Bose system	#25, 29	OEM4A	(R1, R6)	StarMod		SDS1 with DOCKGM1 (D1)		Type 1	G
	1999	With 1-speaker system	#25, 28	Interface not needed		StarMod		SDS1 with DOCKGM1 (D1)		Type 1	none
		With subwoofer in center console	#25, 28	OEM4A	(R1, R6)	StarMod		SDS1 with DOCKGM1 (D1)		Type 1	K
		Without subwoofer in console	#25	Interface not needed		StarMod		SDS1 with DOCKGM1 (D1)		Type 1	A
	1998	All		Interface not needed		StarMod		SDS1 with DOCKGM1 (D1)		Type 1	A (optional)
	1995-97	All		Interface not needed				SDS1 with DOCKGM1 (D1)		Type 1	A (optional)
Tracker	1999-02	All		Interface not needed				SDS1 with DOCKGM1 (D1)		Type 1	none

Page 27 of 52

SOUNDGATE® 2002 Application Guide

MAKE and MODEL	YEARS	VEHICLE IDENTIFIER/QUALIFIER	INSTALL NOTES (pgs 44-52)	RECEIVER INSTALLATIONS use part #	RECEIVER FOOTNOTES	RETAIN ONSTAR use part #	CD CHANGER INTERFACE APPLICATIONS AND FOOTNOTES use part #	AUXILIARY INPUT INTERFACES use part #	STEERING WHEEL CONTROL INTERFACE APPLICATIONS and FOOTNOTES use part #	AMPLIFIER INSTALLATION APPLICATIONS and FOOTNOTES (Line output converter required)	FACTORY AMPLIFIER LOCATION
Trailblazer	2002	With Base	#56	OEM4A	(R1, R6)		Information forthcoming			Type 1	F
		Without Base		Interface not needed						Type 1	none
Venture	1999-02	All with video system	#51, 62	See Note #51		StarMod (T1)		SDS1 with DOCKGM1 (99-99) (D1)	REMOTE1.5 or GMSW1	Type 1	none
		All without video system	#52	Interface not needed		StarMod (T1)		SDS1 with DOCKGM1 (99-99) (D1)	REMOTE1.5 or GMSW1	Type 1	none
CHRYSLER											
300M	2002	With Base audio system (4-speaker)		Interface not needed			ACR2V3 or KND2R2V3 with CRC3LS0 (C3)	SDS1 with DOCKCRY2 (D1) or AUDCHRY (D2)		Type 1	none
		With midline audio system (6-speaker)	#45	OEM4A	(R1, R6)		ACR2V3 or KND2R2V3 with CRC3LS0 (C3)	SDS1 with DOCKCRY2 (D1) or AUDCHRY (D2)		Type 1	N-120 watt
		With Infinity I audio system (8-speaker)	#45	OEM4A	(R1, R6)		ACR2V3 or KND2R2V3 with CRC3LS0 (C3)	SDS1 with DOCKCRY2 (D1) or AUDCHRY (D2)		Type 1	F-240 watt
		With Infinity II audio system (10-speaker)	#45	OEM4A	(R1, R6)		ACR2V3 or KND2R2V3 with CRC3LS0 (C3)	SDS1 with DOCKCRY2 (D1) or AUDCHRY (D2)		Type 1	F-360 watt
	1999-01	With Base audio system (4-speaker)		Interface not needed			ACR2V3 or KND2R2V3 with CRC3LDIN (C3)	SDS1 with DOCKCRY1 (D1) or AUDCHRY (D2)		Type 1	none
		With midline audio system (6-speaker)	#45 (D1)	OEM4A	(R1, R6)		ACR2V3 or KND2R2V3 with CRC3LDIN (C3)	SDS1 with DOCKCRY1 (D1) or AUDCHRY (D2)		Type 1	N-120 watt
		With Infinity I system (8-speaker)	#45 (D1)	OEM4A	(R1, R6)		ACR2V3 or KND2R2V3 with CRC3LDIN (C3)	SDS1 with DOCKCRY1 (D1) or AUDCHRY (D2)		Type 1	F-240 watt
		With Infinity II system (10-speaker)	#45 (D1)	OEM4A	(R1, R6)		ACR2V3 or KND2R2V3 with CRC3LDIN (C3)	SDS1 with DOCKCRY1 (D1) or AUDCHRY (D2)		Type 1	F-360 watt
Cirrus	1995-00	With Infinity audio system (6-speaker)		OEM4A	(R1, R6)		ALPMSTR with ALPMCR1 (C3)	SDS1 with DOCKCRY3 (D1)		Type 1	D
		Without Infinity system (6-speaker)		Interface not needed			ALPMSTR with ALPMCR1 (C3)	SDS1 with DOCKCRY3 (D1)		Type 1	none
Concorde	2002	With Base audio system (4-speaker)		Interface not needed			ACR2V3 or KND2R2V3 with CRC3LS0 (C3)	SDS1 with DOCKCRY2 (D1) or AUDCHRY (D2)		Type 1	none
		With midline audio system (6-speaker)		Interface not needed			ACR2V3 or KND2R2V3 with CRC3LS0 (C3)	SDS1 with DOCKCRY2 (D1) or AUDCHRY (D2)		Type 1	N-120 watt
		With Infinity I audio system (8-speaker)	#45	OEM4A			ACR2V3 or KND2R2V3 with CRC3LS0 (C3)	SDS1 with DOCKCRY2 (D1) or AUDCHRY (D2)		Type 1	F-240 watt
		With Infinity II system (10-speaker)	#45	OEM4A	(R1, R6)		ACR2V3 or KND2R2V3 with CRC3LS0 (C3)	SDS1 with DOCKCRY2 (D1) or AUDCHRY (D2)		Type 1	F-360 watt
	1999-01	With Base audio system (4-speaker)		Interface not needed			ACR2V3 or KND2R2V3 with CRC3LDIN (C3)	SDS1 with DOCKCRY1 (D1) or AUDCHRY (D2)		Type 1	none
		With midline audio system (6-speaker)		Interface not needed			ACR2V3 or KND2R2V3 with CRC3LDIN (C3)	SDS1 with DOCKCRY1 (D1) or AUDCHRY (D2)		Type 1	N-120 watt
		With Infinity I audio system (8-speaker)	#45 (D1)	OEM4A			ACR2V3 or KND2R2V3 with CRC3LDIN (C3)	SDS1 with DOCKCRY1 (D1) or AUDCHRY (D2)		Type 1	F-240 watt
		With Infinity II system (10-speaker)	#45 (D1)	OEM4A	(R1, R6)		ACR2V3 or KND2R2V3 with CRC3LDIN (C3)	SDS1 with DOCKCRY1 (D1) or AUDCHRY (D2)		Type 1	F-360 watt
	1993-97	With Infinity sound system		OEM4A	(R1, R6)		ALPMSTR with ALPMCR1 (C3)	SDS1 with DOCKCRY3 (96-97) (D1)		Type 1 or 2	GConcorde
		With amplifier switch mounted in dash		PWR1	(R3)					Type 1	E
LeBaron	1990-95	With Infinity sound system		PWR1	(R6)					Type 1	G
LHS	2002	With Base audio system (4-speaker)		Interface not needed			ACR2V3 or KND2R2V3 with CRC3LS0 (C3)	SDS1 with DOCKCRY2 (D1) or AUDCHRY (D2)		Type 1	none
		With midline audio system (6-speaker)		Interface not needed			ACR2V3 or KND2R2V3 with CRC3LS0 (C3)	SDS1 with DOCKCRY2 (D1) or AUDCHRY (D2)		Type 1	N-120 watt
		With Infinity I audio system (8-speaker)	#45	OEM4A	(R1, R6)		ACR2V3 or KND2R2V3 with CRC3LS0 (C3)	SDS1 with DOCKCRY2 (D1) or AUDCHRY (D2)		Type 1	F-240 watt
		With Infinity II system (10-speaker)	#45	OEM4A	(R1, R6)		ACR2V3 or KND2R2V3 with CRC3LS0 (C3)	SDS1 with DOCKCRY2 (D1) or AUDCHRY (D2)		Type 1	F-360 watt
	1999-01	With Base audio system (4-speaker)		Interface not needed			ACR2V3 or KND2R2V3 with CRC3LDIN (C3)	SDS1 with DOCKCRY1 (D1) or AUDCHRY (D2)		Type 1	none
		With midline audio system (6-speaker)		Interface not needed			ACR2V3 or KND2R2V3 with CRC3LDIN (C3)	SDS1 with DOCKCRY1 (D1) or AUDCHRY (D2)		Type 1	N-120 watt
		With Infinity I audio system (8-speaker)	#45 (D1)	OEM4A	(R1, R6)		ACR2V3 or KND2R2V3 with CRC3LDIN (C3)	SDS1 with DOCKCRY1 (D1) or AUDCHRY (D2)		Type 1	F-240 watt
		With Infinity II system (10-speaker)	#45 (D1)	OEM4A	(R1, R6)		ACR2V3 or KND2R2V3 with CRC3LDIN (C3)	SDS1 with DOCKCRY1 (D1) or AUDCHRY (D2)		Type 1	F-360 watt
	1996-98	All		OEM4A	(R1, R6)		ALPMSTR with ALPMCR1 (C3)	SDS1 with DOCKCRY3 (D1)		Type 1	F
	1994-97	With Infinity sound system.		OEM4A	(R1, R6)		ALPMSTR with ALPMCR1 (C3)	SDS1 with DOCKCRY3 (D1)		Type 1 or 2	G
Neon	2002	All		Interface not needed			ACR2V3 or KND2R2V3 with CRC3LS0 (C3)	SDS1 with DOCKCRY2 (D1) or AUDCHRY (D2)		Type 1	none
	2000-01	All		Interface not needed			ACR2V3 or KND2R2V3 with CRC3LS0 (C3)	SDS1 with DOCKCRY2 (D1) or AUDCHRY (D2)		Type 1	none
New Yorker	1994-96	With Infinity sound system		OEM4A	(R1, R6)		ALPMSTR with ALPMCR1 (96 only) (C3)	SDS1 with DOCKCRY3 (96 only) (D1)		Type 1	E
	1991-93	Without Infinity sound system		PWR1						Type 1	
	1988-90	With Infinity sound system		PWR1						Type 1	
PT Cruiser	2002	All (6-speaker)		Interface not needed			ACR2V3 or KND2R2V3 with CRC3LS0 (C3)	SDS1 with DOCKCRY2 (D1) or AUDCHRY (D2)		Type 1	none
	2000-01	All (6-speaker)		Interface not needed			ACR2V3 or KND2R2V3 with CRC3LDIN (C3)	SDS1 with DOCKCRY1 (D1) or AUDCHRY (D2)		Type 1	none
Sebring	2002	With base-level audio system		Interface not needed			ACR2V3 or KND2R2V3 with CRC3LDIN (C3)	SDS1 with DOCKCRY1 (D1) or AUDCHRY (D2)		Type 1	none
		With Premium Gold audio system		Interface not needed			ACR2V3 or KND2R2V3 with CRC3LDIN (C3)	SDS1 with DOCKCRY1 (D1) or AUDCHRY (D2)		Type 1	D
	2001	With base-level audio system		Interface not needed			ACR2V3 or KND2R2V3 with CRC3LDIN (C3)	SDS1 with DOCKCRY1 (D1) or AUDCHRY (D2)		Type 1	none
		With Premium Gold audio system		Interface not needed			ACR2V3 or KND2R2V3 with CRC3LDIN (C3)	SDS1 with DOCKCRY1 (D1) or AUDCHRY (D2)		Type 1	D
	1996-00	With Infinity audio system (6-speaker)		OEM4A	(R1, R6)		ALPMSTR with ALPMCR1 (C3, C8)	SDS1 with DOCKCRY3 (D1)		Type 1	D
		Without Infinity system (6-speaker)		Interface not needed			ALPMSTR with ALPMCR1 (C3, C8)	SDS1 with DOCKCRY3 (D1)		Type 1	none
Town & Country Van	2002	With Infinity sound system	#45	OEM4A	(R1, R6)		ACR2V3 or KND2R2V3 with CRC3LS0 (C3)	SDS1 with DOCKCRY2 (D1) or AUDCHRY (D2)		Type 1 or 2	I
		Without Infinity sound system		Interface not needed	(R8, 10)		ACR2V3 or KND2R2V3 with CRC3LS0 (C3)	SDS1 with DOCKCRY2 (D1) or AUDCHRY (D2)		Type 1	none
	2001	With Infinity sound system	#45	OEM4A	(R1, R6)		ACR2V3 or KND2R2V3 with CRC3LDIN (C3)	SDS1 with DOCKCRY1 (D1) or AUDCHRY (D2)	REMOTE1.5 or CRSW1 (99-00)	Type 2 or 2	I
		Without Infinity sound system		Interface not needed	(R8, 10)		ACR2V3 or KND2R2V3 with CRC3LDIN (C3)	SDS1 with DOCKCRY1 (D1) or AUDCHRY (D2)		Type 1	none
	1996-00	With Infinity sound system		OEM4A	(R1, R6)		ALPMSTR with ALPMCR1 (C3)	SDS1 with DOCKCRY3 (D1)		Type 1 or 2	I

SOUNDGATE® 2002 Application Guide

MAKE and MODEL	YEARS	VEHICLE IDENTIFIER/ QUALIFIER	INSTALL NOTES (pgs 44-52)	RECEIVER INSTALLATIONS use part #	RECEIVER FOOTNOTES	RETAIN ONSTAR use part #	CD CHANGER INTERFACE APPLICATIONS AND FOOTNOTES use part #	AUXILIARY INPUT INTERFACES use part #	STEERING WHEEL CONTROL INTERFACE APPLICATIONS and FOOTNOTES use part #	AMPLIFIER INSTALLATION APPLICATIONS and FOOTNOTES (Line output converter required)	FACTORY AMPLIFIER LOCATION
Town & Country Van (cont'd)	1996-00	Without Infinity sound system		Interface not needed	(R8,10)		ALPNSTR with ALPMCR1 (C3)	SDS1 with DODXCRY3 (D1)	REMOTE1.5 or CRSW1 (99-00)	Type 1	none
	1990-95	With Infinity sound system		PWR1	(R6)					Type 1	I
Voyager	2002	With Infinity sound system	#45	OEM4A	(R1, R6)		ACR2V3 or KNXCR2V3 with CRCBLSO (C3)	SDS1 with DODXCRY2 (D1) or AUXCHRY (D2)		Type 1 or 2	I
		Without Infinity sound system		Interface not needed	(R8,10)		ACR2V3 or KNXCR2V3 with CRCBLSO (C3)	SDS1 with DODXCRY2 (D1) or AUXCHRY (D2)		Type 1	none
DAEWOO											
Lanos	1999-02	All		Interface not needed			Not a factory option			Type 1	none
Leganza	1999-02	All		Interface not needed			Not a factory option			Type 1	none
Nubira	1999-02	All		Interface not needed			Not a factory option			Type 1	none
DODGE											
Avenger	1995-99	With Infinity system		OEM4A	(R1, R6)		ALPNSTR with ALPMCR1 (95-99) (C3)	SDS1 with DODXCRY3 (96-99) (D1)		Type 1	E
Caravan	2002	With Infinity sound system	#45	OEM4A	(R1, R6)		ACR2V3 or KNXCR2V3 with CRCBLSO (C3)	SDS1 with DODXCRY2 (D1) or AUXCHRY (D2)		Type 1 or 2	I
		Without Infinity sound system		Interface not needed	(R8,10)		ACR2V3 or KNXCR2V3 with CRCBLSO (C3)	SDS1 with DODXCRY2 (D1) or AUXCHRY (D2)		Type 1	none
	2001	With Infinity sound system	#45	OEM4A	(R1, R6)		ACR2V3 or KNXCR2V3 with CRCBLDIN (C3)	SDS1 with DODXCRY2 (D1) or AUXCHRY (D2)		Type 1 or 2	I
		Without Infinity sound system		Interface not needed	(R8,10)		ACR2V3 or KNXCR2V3 with CRCBLDIN (C3)	SDS1 with DODXCRY2 (D1) or AUXCHRY (D2)		Type 1	none
	1996-00	With Infinity sound system		OEM4A	(R1, R6)		ALPNSTR with ALPMCR1 (C3)	SDS1 with DODXCRY3 (D1)	REMOTE1.5 or CRSW1 (99-00)	Type 1 or 2	I
		Without Infinity sound system		Interface not needed	(R8,10)		ALPNSTR with ALPMCR1 (C3)	SDS1 with DODXCRY3 (D1)	REMOTE1.5 or CRSW1 (99-00)	Type 1	none
	1987-95	With Infinity sound system		PWR1	(R6)					Type 1	I
	1984-86	All			(R3)					Type 1	
Dakota	2002	With Infinity sound system	#45	OEM4A	(R1, R6)		ACR2V3 or KNXCR2V3 with CRCBLSO (C3)	SDS1 with DODXCRY2 (D1) or AUXCHRY (D2)		Type 1	N
		Without Infinity sound system		Interface not needed			ACR2V3 or KNXCR2V3 with CRCBLSO (C3)	SDS1 with DODXCRY (D1) or AUXCHRY (D2)		Type 1	none
	2001	With Infinity sound system	#45	OEM4A	(R1, R6)		ACR2V3 or KNXCR2V3 with CRCBLDIN (C3)	SDS1 with DODXCRY (D1) or AUXCHRY (D2)		Type 1	N
	1994-00	All		FLT1			ACR2V3 or KNXCR2V3 with CRCBLDIN (C3)	SDS1 with DODXCRY3 (96-00) (D1)	REMOTE1.5 or CRSW1 (99-00)	Type 1	none
Daytona	1987-93	With factory receiver		PWR1	(R3)		ALPNSTR with ALPMCR1 (C3)	SDS1 with DODXCRY3 (D1)		Type 1	
Durango	1989-93				(R6)					Type 1	I
	2002	With Bose audio system (4-speaker)		Interface not needed			ACR2V3 or KNXCR2V3 with CRCBLSO (C3)	SDS1 with DODXCRY2 (D1) or AUXCHRY (D2)		Type 1	none
		With Infinity sound system (6-speaker)	#45	OEM4A	(R1, R6)		ACR2V3 or KNXCR2V3 with CRCBLSO (C3)	SDS1 with DODXCRY2 (D1) or AUXCHRY (D2)		Type 1	N-120 watt
	2001	With Infinity audio system (6-speaker)	#45	OEM4A	(R1, R6)		ACR2V3 or KNXCR2V3 with CRCBLSO (C3)	SDS1 with DODXCRY2 (D1) or AUXCHRY (D2)		Type 1	F-240 watt
		With Infinity II system (10-speaker)	#45	OEM4A			ACR2V3 or KNXCR2V3 with CRCBLDIN (C3)	SDS1 with DODXCRY (D1) or AUXCHRY (D2)		Type 1	F-360 watt
	1998-00	With Bose audio system (4-speaker)		Interface not needed	(R1, R6)		ACR2V3 or KNXCR2V3 with CRCBLDIN (C3)	SDS1 with DODXCRY1 (D1) or AUXCHRY (D2)		Type 1	none
		With midline audio system (6-speaker)	#45 (D1)	OEM4A	(R1, R6)		ACR2V3 or KNXCR2V3 with CRCBLDIN (C3)	SDS1 with DODXCRY1 (D1) or AUXCHRY (D2)	REMOTE1.5 or CRSW1 (99-00)	Type 1	N-120 watt
		With Infinity I audio system (6-speaker)	#45 (D1)	OEM4A	(R1, R6)		ACR2V3 or KNXCR2V3 with CRCBLDIN (C3)	SDS1 with DODXCRY1 (D1) or AUXCHRY (D2)	REMOTE1.5 or CRSW1 (99-00)	Type 1	F-240 watt
		With Infinity II system (10-speaker)	#45 (D1)	OEM4A	(R1, R6)		ACR2V3 or KNXCR2V3 with CRCBLDIN (C3)	SDS1 with DODXCRY1 (D1) or AUXCHRY (D2)		Type 1	F-360 watt
Dynasty	1988-93	With Infinity sound system		PWR1	(R6)		ALPNSTR with ALPMCR1 (C3)	SDS1 with DODXCRY3 (D1)		Type 1	I
Intrepid	1993-97	With Infinity sound system		Interface not needed	(R1, R6)		ALPNSTR with ALPMCR1 (95-97) (C3)	SDS1 with DODXCRY3 (96-97) (D1)		Type 1	G
	2002	All		Interface not needed			ACR2V3 or KNXCR2V3 with CRCBLSO (C3)	SDS1 with DODXCRY2 (D1) or AUXCHRY (D2)		Type 1	none
Neon	2000-01	All		Interface not needed			ACR2V3 or KNXCR2V3 with CRCBLDIN (C3)	SDS1 with DODXCRY1 (D1) or AUXCHRY (D2)		Type 1	none
	1997-99	All	#45	OEM4A	(R1, R6)		Not Available			Type 1	none
Pickup (1500)	2002	With Infinity sound system		OEM4A			ACR2V3 or KNXCR2V3 with CRCBLSO (C3)	SDS1 with DODXCRY2 (D1) or AUXCHRY (D2)		Type 1	none
		Without Infinity sound system		Interface not needed			ALPNSTR with ALPMCR1 (96-99) (C3)	SDS1 with DODXCRY3 (96-99) (D1)		Type 1	none
Pickup (2500, 3500)	2002	With Infinity sound system	#45	OEM4A	(R1, R6)					Type 1	C
Pickup (1500, 2500, 3500)	1994-01	Without Infinity sound system		Interface not needed	(R1, R6)		ALPNSTR with ALPMCR1 (95-01) (C3)	SDS1 with DODXCRY3 (95-01) (D1)	REMOTE1.5 or CRSW1 (99-01)	Type 1	none
		With Infinity sound system	#45 (D1)	OEM4A	(R1, R6)		ALPNSTR with ALPMCR1 (95-01) (C3)	SDS1 with DODXCRY3 (95-01) (D1)	REMOTE1.5 or CRSW1 (99-01)	Type 1	C
Ramcharger	1984-87	With factory receiver and four speakers		FLT1	(R3)					Type 1	none
Shadow	1984-87	All		FLT1	(R3)					Type 1	none
Spirit	1990-94	With Infinity sound system		PWR1	(R6)					Type 1	I
	1989-95	With Infinity sound system		PWR1	(R6)					Type 1	I

SOUNDGATE® 2002 Application Guide

MAKE and MODEL	YEARS	VEHICLE IDENTIFIER/ QUALIFIER	INSTALL NOTES (pgs 44-52)	RECEIVER INSTALLATIONS use part #	RECEIVER FOOTNOTES	RETAIN ONSTAR use part #	CD CHANGER INTERFACE APPLICATIONS AND FOOTNOTES use part #	AUXILIARY INPUT INTERFACES use part #	STEERING WHEEL CONTROL INTERFACE APPLICATIONS and FOOTNOTES use part #	AMPLIFIER INSTALLATION APPLICATIONS and FOOTNOTES (Line output converter required)	FACTORY AMPLIFIER LOCATION
Stealth	1991-96	With Infinity sound system	#54	MITSHCVR	(R7)					MITSAMP or Type 1 (A1)	G
		Without Infinity sound system		Interface not needed						Type 1	none
Stratus	2002	With base-level audio system		Interface not needed			ACR2V3 or KN2R2V3 with CR2BLS0 (C3)	SDS1 with DOCKCRY2 (D1) or AUXCRRV (D2)		Type 1	D
		With Premium Gold audio system	#45	OEM4A	(R1, R6)		ACR2V3 or KN2R2V3 with CR2BLS0 (C3)	SDS1 with DOCKCRY2 (D1) or AUXCRRV (D2)		Type 1	D
	2001	With base-level audio system		Interface not needed			ACR2V3 or KN2R2V3 with CR2BLDIN (C3)	SDS1 with DOCKCRY1 (D1) or AUXCRRV (D2)		Type 1	D
		With Premium Gold audio system	#45	OEM4A	(R1, R6)		ACR2V3 or KN2R2V3 with CR2BLDIN (C3)	SDS1 with DOCKCRY1 (D1) or AUXCRRV (D2)		Type 1	D
	1995-00	With Infinity audio system (6-speaker)		OEM4A	(R1, R6)		ALPMSTR with ALPMCR1 (C3)	SDS1 with DOCKCRY3 (D1)		Type 1	none
Van (Full Size)	1999-02	Without Infinity audio system (6-speaker)		Interface not needed (R6)			ALPMSTR with ALPMCR1 (C3)	SDS1 with DOCKCRY3 (D1)		Type 1	none
		With Infinity audio system (6-speaker)		OEM4A	(R1, R6)		ALPMSTR with ALPMCR1 (C3)	SDS1 with DOCKCRY3 (D1)		Type 1	C 120watt
	1984-88	With factory receiver and four speakers		FLT1	(R3)					Type 1	none
Viper	2000-02	All - Alpine audio system		8-pin Alpine DIN						Type 1	G
EAGLE											
Talon	1995-99	With Infinity sound system		MITSHCVR	(R7)					MITSAMP or Type 1 (A1)	D
		Without Infinity sound system		Interface not needed						Type 1	none
Vision	1993-97	With Infinity sound system		OEM4A	(R6)		ALPMSTR with ALPMCR3 (96-97) (C3)	SDS1 with DOCKCRY3 (96-97) (D1)		Type 1 or 2	G
		Without Infinity sound system		Interface not needed			ALPMSTR with ALPMCR3 (96-97) (C3)	SDS1 with DOCKCRY3 (96-97) (D1)		Type 1	none
FERRARI											
All Models	1999-99	With factory CD-changer controls				Sony Uni-Link Direct				Type 1	
FORD											
Aerostar	1990-97	With the word Automatic on tape door	#4	FRD2	(R1, R6, R11)				FRDSW2	Type 1 or 2 (LOC8 only)	A
		Without Automatic on tape door		FLT1					FRDSW2	Type 1	none
	1986-95	With or without Factory Equalizer (retains rear seat headphone use)		PWR1	(R6)					Type 1	A
Aspire	1994-97	With Premium Sound System, or with factory CD player	#4	Interface not needed	(R1, R6, R11)					Type 1	none
Bronco (full size)	1992-97	With the word Automatic on the tape door, or with factory CD	#4 (94-97)	FRD2	(R1, R6, R11)					Type 1 or 2 (LOC8 only)	G
		Without word Automatic on tape door		Interface not needed						Type 1	none
Bronco II	1987-91	All		PWR1	(R6)					Type 1	none
	1989-90	With "toggle" type volume control on factory receiver		FRD2	(R1, R6, R11)					Type 1 or 2 (LOC8 only)	G
Contour	1986-88	With amplifier in mono-speaker location		PWR1	(R6)					Type 1	none
		With rotary type volume knob		OEM2	(R5)					Type 1	B
	1995-00	With words Premium Sound on grille	#4	FRD2	(R1, R6, R11)					Type 1 or 2 (LOC3 only)	C
		Without words Premium Sound on grille		Interface not needed						Type 1	none
Country Squire	1988	With rotary volume knob on factory receiver, 6 factory speakers		PWR1	(R2)					Type 1	none
Crown Victoria	1986-87	All		PWR1	(R2)					Type 1	none
	1999-02	All		Interface not needed			SNFD1 or ALFD1 or KNFD1, with FC5 (C3)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 1	E
	1995-97	With CD-changer controls on radio or in-dash CD. This is factory DAS (distributed audio system - LUX)	#3, 35	Interface not needed			SNFD1 or ALFD1 or KNFD1, with FC3 (C7)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 1	none
	1997	Without CD-changer controls on radio or in-dash CD		Interface not needed						Type 1	none
	1995-96	Without CD-changer controls on radio, or AM/FM only		Interface not needed						Type 1	none
	1992-94	With word Automatic on the tape door	#4 (94)	FRD2	(R1, R6, R11)					Type 1 or 2 (LOC8 only)	E
		Without word Automatic on tape door		Interface not needed						Type 1	none
Econoline	1999-02	All		OEM4A	(R1, R6)		SNFD1 or ALFD1 or KNFD1, with FC5 (C3)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 1	none
	1998	With Premium sound system	#4	OEM4A	(R1, R6)		SNFD1 or ALFD1 or KNFD1, with FC5 (C3)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 1	B
		Without Premium sound system		Interface not needed						Type 1	none
	1997	Without CD-changer controls on radio, or AM/FM only. Retains use of factory rear seat headphones		Interface not needed						Type 1	none

SOUNDGATE® 2002 Application Guide

MAKE and MODEL	YEARS	VEHICLE IDENTIFIER/ QUALIFIER	INSTALL NOTES (pgs 44-52)	RECEIVER INSTALLATIONS use part #	RECEIVER FOOTNOTES	RETAIN ONSTAR use part #	CD CHANGER INTERFACE APPLICATIONS AND FOOTNOTES use part #	AUXILIARY INPUT INTERFACES use part #	STEERING WHEEL CONTROL INTERFACE APPLICATIONS and FOOTNOTES use part #	AMPLIFIER INSTALLATION APPLICATIONS and FOOTNOTES (Line output converter required)	FACTORY AMPLIFIER LOCATION
Econoline (cont)	1997	With CD-changer control functions on factory cassette	#4	OEM4A	(R1, R6)		SNFD1 or ALFD1 or KNFD1, with FC2 (C3)	SDS1 with DOCKFORD (D1) or AUDFORD (D2, D4)		Type 1 or 2 (LOC6 only)	N
	1994-96	With the word Automatic on the tape door, or with factory CD	#4	FRD2	(R1, R6, R11)				FRDSW2	Type 1 or 2 (LOC6 only)	N
		Without word Automatic on tape door		Interface not needed					FRDSW2	Type 1	none
	1992-93	With Premium Sound System		PWR1	(R2)					Type 1	none
		W/O factory Premium Sound system		FLT1	(R2)					Type 1	none
	1989-91	All		PWR1						Type 1	none
	1989-88	With Premium Sound System		OEM4A	(R1, R2, R6)					Type 1	B
Escape	2001-02	With base audio system		Interface not needed						Type 1	none
		With Mid-line audio system		Interface not needed						Type 1	F (sub)
		With HighLine audio (in-dash 6-disc)	#35	Interface not needed						Type 1	F (sub)
Escort/ZX2	1997-02	Without words Premium Sound on tape door	#14	Interface not needed			SNFD1 or ALFD1 or KNFD1, with FC2 (C3)	SDS1 with DOCKFORD (D1) or AUDFORD (D2, D4)		Type 1	none
		With Premium sound system	#4, 14	OEM4A	(R1, R6)		SNFD1 or ALFD1 or KNFD1, with FC2 (C3)			Type 1 or 2 (LOC6 only)	J
	1994-96	With cassette and amp under dashboard	#4	FRD2	(R1, R6, R11)		SNFD1 or ALFD1 or KNFD1, with FC5 (C3)			Type 1 or 2 (LOC6 only)	B
	1993-96	With factory CD player	#4 (94-96)	FRD2	(R1, R6, R11)		SNFD1 or ALFD1 or KNFD1, with FC5 (C3)			Type 1 or 2 (LOC6 only)	B
	1993	With factory cassette player		PWR1	(R1, R6)		SNFD1 or ALFD1 or KNFD1, with FC5 (C3)			Type 1	B
	1992-93	With factory cassette player, without amplifier beneath the dashboard		PWR1	(R1, R6)		SNFD1 or ALFD1 or KNFD1, with FC5 (C3)			Type 1	none
	1991	With words Premium Sound on grille		PWR1	(R2)		SNFD1 or ALFD1 or KNFD1, with FC2 (C3)			Type 1	none
	1989-90	All		PWR1	(R1, R6)					Type 1	none
	1985-88	With Premium Sound System		OEM4A	(R1, R2, R6)					Type 1	B
		Without amplifier switch on dash		FLT1	(R2)					Type 1	none
Excursion	2000-02	ALL if subwoofer equipped call for info.	#35	Interface not needed			SNFD1 or ALFD1 or KNFD1, with FC3 (C3)	SDS1 with DOCKFORD (D1) or AUDFORD (D2, D4)		Type 1	none
Expedition	1999-02	ALL if subwoofer equipped call for info.	#35	Interface not needed			SNFD1 or ALFD1 or KNFD1, with FC2 (C3)	SDS1 with DOCKFORD (D1) or AUDFORD (D2, D4)		Type 1	F (sub)
	1997-98	All		OEM4A	(R1, R6)		SNFD1 or ALFD1 or KNFD1, with FC5 (C3)	SDS1 with DOCKFORD (D1) or AUDFORD (D2, D4)		Type 1 or 2 (LOC6 only)	B
Explorer	2001-02	ALL if subwoofer equipped call for info.	#4, 35	Interface not needed			SNFD1 or ALFD1 or KNFD1, with FC5 (C3)	SDS1 with DOCKFORD (D1) or AUDFORD (D2, D4)		Type 1	F (sub)
	1999-00	ALL if subwoofer equipped call for info.	#4, 35	Interface not needed			SNFD1 or ALFD1 or KNFD1, with FC5 (C3)	SDS1 with DOCKFORD (D1) or AUDFORD (D2, D4)		Type 1	F (sub)
	1998	With factory CD/Cassette combination radio. If subwoofer equipped call for info.		Interface not needed			SNFD1 or ALFD1 or KNFD1, with FC5 (C3)	SDS1 with DOCKFORD (D1) or AUDFORD (D2, D4)		Type 1	none
		With CD change controls on radio, or with in-dash CD. If equipped with subwoofer (JBL) call for details	#4	OEM4A	(R1, R6)		SNFD1 or ALFD1 or KNFD1, with FC2 (C3)	SDS1 with DOCKFORD (D1) or AUDFORD (D, 042)		Type 1 or 2 (LOC6 only)	F
		With AM/FM only - no cassette		Interface not needed			SNFD1 or ALFD1 or KNFD1, with FC2 (C3)			Type 1	none
	1995-97	With JBL Audio System. This is factory DAS (distributed audio system- LUX) (see note #3).	#3, 4 (sub amp)	LOCSUBA (for sub)			SNFD1 or ALFD1 or KNFD1, with FC3 (C7)	SDS1 with DOCKFORD (D1) or AUDFORD (D2, D4)		Type 1	F
		Without JBL system (with CD-changer controls on factory cassette), or with in-dash CD player	#4	OEM4A	(R1, R6)		SNFD1 or ALFD1 or KNFD1, with FC2 (C3)	SDS1 with DOCKFORD (D1) or AUDFORD (D2, D4)		Type 1 or 2 (LOC6 only)	F
		Cassette only (without factory CD-changer controls), or AM/FM only.		Interface not needed						Type 1	none
	1993-94	With the letters DNR on the factory tape door, or with JBL		OEM4A	(R1, R6)		SNFD1 or ALFD1 or KNFD1, with FC4 (C1, C3)	SDS1 with DOCKFORD (D1) or AUDFORD (D2, D4)		Type 2 (LOC6 only)	F
		Without letters DNR on tape door		Interface not needed			Sony Uni-Link direct	SDS1 with DOCKSONY (D1)		Type 1	none
	1991-92	With topside-type volume control		FRD2	(R1, R6, R11)		SNFD1 or ALFD1 or KNFD1, with FC2 (C3)	SDS1 with DOCKFORD (D1) or AUDFORD (D2, D4)		Type 1 or 2 (LOC6 only)	F
		With rotary type volume knob		PWR1	(R1, R6)					Type 1	none
Focus	2000-02	All without Sony-branded system		Interface not needed			SNFD1 or ALFD1 or KNFD1, with FC4 (C1, C3)	SDS1 with DOCKFORD (D1) or AUDFORD (D2, D4)		Type 1	none
		All with Sony-branded system		Interface not needed			Sony Uni-Link direct	SDS1 with DOCKSONY (D1)		Type 1	none
LN-80	1997	With CD-changer controls on cassette	#4	OEM4A	(R1, R6)		SNFD1 or ALFD1 or KNFD1, with FC2 (C3)	SDS1 with DOCKFORD (D1) or AUDFORD (D2, D4)		Type 1 or 2 (LOC6 only)	E
LTD	1985-86	With premium sound system		PWR1	(R2)					Type 1	none
LTD Crown Victoria	1988-89	With rotary volume control		FRD2	(R1, R6, R11)					Type 2 (LOC6 only)	E
		With rotary volume knob on factory receiver, 6 factory speakers		PWR1	(R2)					Type 1	

(audio only, not system control)

Page 31 of 52

SOUNDGATE® 2002 Application Guide

MAKE and MODEL	YEARS	VEHICLE IDENTIFIER/ QUALIFIER	INSTALL NOTES (pgs 44-52)	RECEIVER INSTALLATIONS use part #	RECEIVER FOOTNOTES	RETAIN ONSTAR use part #	CD CHANGER INTERFACE APPLICATIONS AND FOOTNOTES use part #	AUXILIARY INPUT INTERFACES use part #	STEERING WHEEL CONTROL INTERFACE APPLICATIONS and FOOTNOTES use part #	AMPLIFIER INSTALLATION APPLICATIONS and FOOTNOTES (Line output converter required)	FACTORY AMPLIFIER LOCATION
LTD Crown Victoria (cont.)	1987	With 6-speaker factory system		PWR1	(R2)					Type 1	
	1986	With 6-speaker factory system		OEM2	(R4)					Type 1	
	1985	With digital or analog receiver and Premium Sound System		OEM2	(R4)					Type 1	E
Mustang	2001-02	With Premium audio system		Interface not needed						Type 1	none
		With Mach 460 system	#4, 44	LOC5UBA (for sub)						Type 1 or 2 (LOC8 only)	E sub
	1994-00	With factory AM / FM receiver and cassette player	#4	FRI02	(R1, R6, R11)					Type 1 or 2 (LOC8 only)	B
		With the Mach-460 sound system	#4	FRI02	(R1, R6, R11)					Type 1 or 2 (LOC8 only)	B, E
	1993	With factory cassette or CD player	#4	FRI02	(R1, R6, R11)					Type 1 or 2 (LOC8 only)	B
	1987-92	With 6-speaker factory system		PWR1	(R2, R6)					Type 1	B
	1985-86	With amplifier located in the dash		Interface not needed	(R2, R6)					Type 1	B
Pickup, F-Series	2001-02	All	#49	Interface not needed			SMFD1 or ALFD1 or KNFD1, with RC5 (C3)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 1	F sub
	1999-00	All		Interface not needed			SMFD1 or ALFD1 or KNFD1, with RC5 (C3)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 1	none
	1997-98	Without CD-changer controls, or AM/FM only.		Interface not needed						Type 1	none
	1994-96	With CD-changer controls on radio	#4	OEM4A	(R1, R6)		SMFD1 or ALFD1 or KNFD1, with FC5 (C3)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 1 or 2 (LOC8 only)	C
		With the word Automatic on the tape door, or with factory CD	#4	FRI02	(R1, R6, R11)		SMFD1 or ALFD1 or KNFD1, with FC5 (C3)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 1 or 2 (LOC8 only)	C
		Without word Automatic on tape door		Interface not needed						Type 1	none
	1987-93	All		FLT1						Type 1	none
	1982-86	All		FLT1	(R2)					Type 1	none
Pickup, Super Duty	1999-02	All		Interface not needed			SMFD1 or ALFD1 or KNFD1, with RC5 (C3)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 1	none
Probe	1993-97	With factory cassette or CD player (lose use of EQ, if equipped)	#4 (94-97)	FRI02	(R1, R6, R11)		SMFD1 or ALFD1 or KNFD1, with RC5 (C3)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 1 or 2 (LOC8 only)	A, F
Ranger	1999-02	All	#4	Interface not needed	(R1, R6)		SMFD1 or ALFD1 or KNFD1, with FC5 (C3)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 1	none
	1990	All	#4	Interface not needed	(R1, R6, R11)		SMFD1 or ALFD1 or KNFD1, with RC5 (C3)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 1	B
	1997	Without CD-changer controls on factory radio, or AM/FM only.		Interface not needed						Type 1	B
Taurus	1995-97	With CD-changer controls on factory cassette	#4	OEM4A	(R1, R6)		SMFD1 or ALFD1 or KNFD1, with FC2 (C3)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 1 or 2 (LOC8 only)	C
	1993-94	With the word Automatic on the tape door, or with factory CD	#4 (94)	FRI02	(R1, R6, R11)		SMFD1 or ALFD1 or KNFD1, with RC3 (C7)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 1 or 2 (LOC8 only)	C
		Without word Automatic on tape door		Interface not needed						Type 1	none
	1986-88	With Premium Sound System		OEM2	(R5)					Type 1	B
	1985	With Premium Sound System		OEM2	(R5)					Type 1	B
		With AM/FM tuner only — no cassette		OEM2	(R4)					Type 1	B
Taurus	2000-02	All	#3, 14	Call for details	(R1, R6, R11)		SMFD1 or ALFD1 or KNFD1, with RC3 (C7)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)	FRDSW2	Type 1 or 2 (LOC8 only)	G (RCI)
	1996-99	All – Without JBL Audio System	#3, 14	Call for details			SMFD1 or ALFD1 or KNFD1, with RC3 (C7)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)	FRDSW2	Type 1	G (RCI)
	1992-95	With word Automatic on the tape door	#4 (94-95)	FRI02	(R1, R6, R11)				FRDSW2	Type 1 or 2 (LOC8 only)	E
		Without word Automatic on tape door		PWR1						Type 1	B
		With AM/FM tuner only — no cassette		PWR1						Type 1	none
	1989-91	All		FRI02	(R1, R6, R11)					Type 1 or 2 (LOC8 only)	E
		With Toggle fone volume control		PWR1	(R6)					Type 1	E
	1986-87	With mfarv volume control		PWR1	(R2)					Type 1	E
		With words Premium Sound on speaker grille		PWR1	(R2, R6)						
Tempo	1987-94	All	#4 (94)	OEM4A	(R1, R2, R6)					Type 1	E
	1994-95	With factory EQ, amplifier switch, or amplifier beneath rear deck		PWR1	(R2)					Type 1	E
Thunderbird	2002	Information forthcoming									
	1994-97	With word Automatic on tape door, or With factory in-dash CD	#4	FRI02	(R1, R6, R11)					Type 1 or 2 (LOC8 only)	E
		Without word Automatic on tape door		Interface not needed						Type 1	none

SOUNDGATE 2002 Application Guide

MAKE and MODEL	YEARS	VEHICLE IDENTIFIER/ QUALIFIER	INSTALL NOTES (pgs 44-52)	RECEIVER INSTALLATIONS use part #	RECEIVER FOOTNOTES	RETAIN ONSTAR use part #	CD CHANGER INTERFACE APPLICATIONS AND FOOTNOTES use part #	AUXILIARY INPUT INTERFACES use part #	STEERING WHEEL CONTROL INTERFACE APPLICATIONS and FOOTNOTES use part #	AMPLIFIER INSTALLATION APPLICATIONS and FOOTNOTES (Line output converter required)	FACTORY AMPLIFIER LOCATION
Thunderbird (cont.)	1989-93	With Toggle Type volume control on factory receiver		FR02	(R1, R6, R11)					Type 1 or 2 (LOC8 only)	E
		With Rotary volume control knob		PWR1						Type 1	none
	1987	With 6-speaker factory system		PWR1	(R2)					Type 1	B
	1985-87	With Factory Equalizer		PWR1	(R2)					Type 1	E
	1985	With analog receiver and factory amplifier in trunk		PWR1	(R2)					Type 1	E
Windstar	2001-02	All		Interface not needed			SWFD1 or ALFD1 or KMFD1, with FC5 (C3)			Type 1	none
	1999-00	All		Interface not needed			SWFD1 or ALFD1 or KMFD1, with FC5 (C3)			Type 1	none
	1994-98	With the word Automatic on the tape door, or with factory in-dash CD	#4	FR02	(R1, R6, R11)				FRDSW2	Type 1 or 2 (LOC8 only)	B
		Without word Automatic on tape door		Interface not needed						Type 1	none
GMC											
Denali / XL Denali	2001-02	With Standard Bose System	#28	OEM-IA	(R1, R6)	StarMod (T2)		SDS1 with DOCKGM1 (D1)	REMOTE1.5 or GMSW1	Type 1 or LOC8	G
	1999-00	With Standard Bose System	#25, 28	OEM-IA	(R1, R6)	StarMod		SDS1 with DOCKGM1 (D1)	REMOTE1.5 or GMSW1	Type 1 or 2 (LOC8 only)	G
Envoy	2002	With Bose	#55	OEM-IA	(R1, R6)					Type 1	F
		Without Bose		Interface not needed						Type 1	none
Jimmy/Envoy	1999-01	With 6-speaker system	#25	OEM-IA	(R1, R6)	StarMod		SDS1 with DOCKGM1 (D1)	REMOTE1.5 or GMSW1	Type 1 or 2 (LOC8 only)	K
		Without factory amplifier (base audio)		Interface not needed		StarMod		SDS1 with DOCKGM1 (D1)	REMOTE1.5 or GMSW1	Type 1	none
	1995-97	All		Interface not needed						Type 1	none
Pickup C/K	1999-02	All		Interface not needed		StarMod (T2)		SDS1 with DOCKGM1 (D1)		Type 1	none
	1995-1997	All		Interface not needed				SDS1 with DOCKGM1 (D1)		Type 1	none
Safari van	2000-02	Without Speed Compensated Volume		Interface not needed		StarMod (T2)				Type 1	G (sub)
		With Speed Compensated Volume		Interface not needed						Type 1	none
	1998-99	With 6-speaker system		Interface not needed				SDS1 with DOCKGM1 (D1)		Type 1	G (sub)
		With 4-speaker system		Interface not needed				SDS1 with DOCKGM1 (D1)		Type 1	none
Savana full size van	1998-02	All		Interface not needed		StarMod (T2)		SDS1 with DOCKGM1 (D1)		Type 1	none
Sierra HD	2001-02	All	#25	Interface not needed		StarMod (T1)		SDS1 with DOCKGM1 (D1)		Type 1	none
Sierra pickup	2002	All		Interface not needed		StarMod		SDS1 with DOCKGM1 (D1)		Type 1	none
	1999-01	All	#25 (T9 only)	Interface not needed		StarMod		SDS1 with DOCKGM1 (D1)		Type 1	none
Sonoma pickup	1998-01	All		OEM-IA	(R1, R6)	StarMod		SDS1 with DOCKGM1 (D1)	REMOTE1.5 or GMSW1	Type 1	K
Suburban	1999	With subwoofer in center console	#25, 28	Interface not needed		StarMod		SDS1 with DOCKGM1 (D1)		Type 1	A
		Without subwoofer in console	#25, 28	Interface not needed		StarMod (50)		SDS1 with DOCKGM1 (D1)		Type 1	A (optional)
	1995-98	All		Interface not needed		StarMod (T2)		SDS1 with DOCKGM1 (D1)		Type 1	C
Yukon	2001-02	All (9-speaker system)	#25, 28	Interface not needed		StarMod (T1)		SDS1 with DOCKGM1 (D1)		Type 1	C
	2000	With subwoofer in Left Rear	#25, 28	Interface not needed		StarMod		SDS1 with DOCKGM1 (D1)		Type 1	C
		With 4-speaker base-level system	#25	Interface not needed		StarMod		SDS1 with DOCKGM1 (D1)		Type 1	K
	1999	With subwoofer in center console	#25, 28	OEM-IA	(R1, R6)	StarMod		SDS1 with DOCKGM1 (D1)		Type 1	A
		Without subwoofer in console	#25	Interface not needed		StarMod (50)		SDS1 with DOCKGM1 (D1)		Type 1 or 2 (LOC8 only)	J
	1995-98	All		Interface not needed		StarMod (T2)		SDS1 with DOCKGM1 (D1)		Type 1	C
Yukon XL	2001-02	All (9-speaker system)	#25, 28	Interface not needed		StarMod		SDS1 with DOCKGM1 (D1)		Type 1	C
	2000	With 9-speaker system	#25	Interface not needed		StarMod		SDS1 with DOCKGM1 (D1)		Type 1	none
		With 4-speaker system		Interface not needed				SDS1 with DOCKGM1 (D1)		Type 1	none
HONDA											
Accord	2001-02	All		Interface not needed			ALPNSTR with ALPNHD1 (C4)	SDS1 with DOCKHON0 (D1)		Type 1	none
	1998-00	All		Interface not needed			ALPNSTR with ALPNHD1 (C4)	SDS1 with DOCKHON0 (D1)		Type 1	none
	1992-97	With factory Bose system		OEM-IA	(R1, R6)		ALNH1, (C3)			Type 1 or 2 (LOC8 only)	C
		Without Bose system		Interface not needed			ALNH1, (C3)			Type 1	none
	1990-91	With factory Bose system		OEM-IA	(R1, R6)					Type 2 (LOC3 or LOCPREA)	I
		Without Bose system		Interface not needed						Type 1	none
Civic	2001-02	All		Interface not needed			ALPNSTR with ALPNHD1 (C4)	SDS1 with DOCKHON0 (D1)		Type 1	none
	1999-00	All	#55	Interface not needed			ALPNSTR with ALPNHD1 (C4)	SDS1 with DOCKHON0 (D1)		Type 1	none
	1992-97	All	F55	Interface not needed			ALNH1, (C3)			Type 1	none
CRV	2002									Type 1	

SOUNDGATE® 2002 Application Guide

MAKE and MODEL	YEARS	VEHICLE IDENTIFIER/ QUALIFIER	INSTALL NOTES (pgs 44-52)	RECEIVER INSTALLATIONS use part #	RECEIVER FOOTNOTES	RETAIN ONSTAR use part #	CD CHANGER INTERFACE APPLICATIONS AND FOOTNOTES use part #	AUXILIARY INPUT INTERFACES use part #	STEERING WHEEL CONTROL INTERFACE APPLICATIONS and FOOTNOTES use part #	AMPLIFIER INSTALLATION APPLICATIONS and FOOTNOTES (Line output converter required)	FACTORY AMPLIFIER LOCATION
CRV (cont.)	1999-01	All		Interface not needed			ALPMSTR with ALPMHD1 (C4)	SDS1 with DUOCKHD1 (D1)		Type 1	none
Insight	2000-02	All		Interface not needed			ALPMSTR with ALPMHD1 (C4)	SDS1 with DUOCKHD1 (D1)		Type 1	none
Odyssey	2001-02	All		Interface not needed			ALPMSTR with ALPMHD1 (C4)	SDS1 with DUOCKHD1 (D1)		Type 1	Type 1
		With factory Navigation system	StarMod to Integratb Nav Unit								none
	1999-00	All		Interface not needed			ALPMSTR with ALPMHD1 (C4)	SDS1 with DUOCKHD1 (D1)		Type 1	none
	1995-97	All		Interface not needed			ALHN1, (C3)			Type 1	none
Passport	1995-02	All		Interface not needed						Type 1	none
Prelude	2001-02	All		Interface not needed			ALPMSTR with ALPMHD1 (C4)	SDS1 with DUOCKHD1 (D1)		Type 1	E (sub)
	1998-00	All		Interface not needed			ALPMSTR with ALPMHD1 (C4)	SDS1 with DUOCKHD1 (D1)		Type 1	E (sub)
	1997	All		Interface not needed			ALHN1, (C3)			Type 1	E (sub)
	1992-96	S, SL, SH		Interface not needed			ALHN1, (C3)			Type 1	none
	1995-96	VTEC, SH-V		Interface not needed			ALHN1, (C3)			Type 1	E (sub)
S2000	2001-02	All		Interface not needed			ALPMSTR with ALPMHD1 (C4)	SDS1 with DUOCKHD1 (D1)		Type 1	none
	2000	All		Interface not needed			ALPMSTR with ALPMHD1 (C4)	SDS1 with DUOCKHD1 (D1)		Type 1	none
HYUNDAI											
Accent	2002	Information forthcoming								Type 1	
Elantra	2002	Information forthcoming								Type 1	
Santa Fe	2002	Information forthcoming								Type 1	
Sonata	2002	Information forthcoming								Type 1	F
Tiburon	2002	Information forthcoming								Type 1	
XG300	2002	Information forthcoming								Type 1	
XG350	2002	Information forthcoming								Type 1	
INFINITI											
G20	1999-02	With factory Bose system		OEHA4	(R1, R6)		ALNS1	SDS1 with DUOCKNSS (D1)		Type 1 or Type 2	F
	1997	All		OEHA4	(R1, R6)					Type 1	I
	1990-96	All		FLT1	(R5)					Type 1	E
I35	2002	Information forthcoming					ALNS1	SDS1 with DUOCKNSS (D1)		Type 1 or Type 2	E
I30	1999-01	With factory Bose system		OEHA4	(R1, R6)		ALNS1	SDS1 with DUOCKNSS (D1)		Type 1	F
	1995-97	With factory Bose system		OEHA4	(R1, R6)					Type 2 (LOCB or LOOPREA)	F
		Without factory Bose system		Interface not needed						Type 1	none
I330	2001-02	All		OEHA4	(R1, R6)		ALNS1	SDS1 with DUOCKNSS (D1)		Type 1	I
J30	1995-97	All	#59	OEHA4	(R1, R6)					Type 1	F
	1993-94	Sedan with Bose system		Interface not needed						Type 2 (LOCB only)	F
		Without factory Bose system		OEHA4	(R1, R6)					Type 1	F
M30	1991-92	With factory Bose system		OEHA4	(R1, R6)					Type 2 (LOCB only)	F
		Without factory Bose system		Interface not needed						Type 1	F
	1990	With factory Bose system		OEHA4	(R1, R6)					Type 2 (LOCB only)	F
		Without factory Bose system		Interface not needed						Type 1	none
Q45	2002	Information forthcoming		OEHA4	(R1, R6)		ALNS1	SDS1 with DUOCKNSS (D1)		Type 1	none
	1999-01	With factory Bose system		Interface not needed			ALNS1	SDS1 with DUOCKNSS (D1)		Type 2 (LOCB or LOOPREA)	F
		Without factory Bose System		OEHA4	(R1, R6)					Type 1	none
	1997-98	With factory Bose System		Interface not needed			ALNS1 (98)	SDS1 with DUOCKNSS (98) (D1)		Type 2 (LOCB or LOOPREA)	F
		Without factory Bose system		OEHA4	(R1, R6)		ALNS1 (98)	SDS1 with DUOCKNSS (98) (D1)		Type 1	F
	1994-96	With factory Bose system		Interface not needed						Type 2 (LOCB only)	F
		Without factory Bose system		OEHA4	(R1, R6)					Type 1	F
	1989-93	With factory Bose system	#34	Interface not needed						Type 2 (LOCB or LOOPREA)	L.E
		Without factory Bose system		Interface not needed						Type 1	none
QX4	2000-02	All		Interface not needed			ALNS1	SDS1 with DUOCKNSS (D1)		Type 1	none
	1996-99	All		Interface not needed			ALNS1	SDS1 with DUOCKNSS (D1)		Type 1	none
	1997	With factory Bose system		OEHA4	(R1, R6)					Type 2 (LOCB or LOOPREA)	F
		Without factory Bose system		Interface not needed						Type 1	none
ISUZU											
Axiom	2002	All - Information forthcoming		Not Recommended						Type 1	
Rodeo/Sport	2002	Information forthcoming								Type 1	

KICKER000142

SOUNDGATE® 2002 Application Guide

MAKE and MODEL	YEARS	VEHICLE IDENTIFIER/ QUALIFIER	INSTALL NOTES (pgs 44-52)	RECEIVER INSTALLATIONS use part #	RECEIVER FOOTNOTES	RETAIN ONSTAR use part #	CD CHANGER INTERFACE APPLICATIONS AND FOOTNOTES use part #	AUXILIARY INPUT INTERFACES use part #	STEERING WHEEL CONTROL INTERFACE APPLICATIONS and FOOTNOTES use part #	AMPLIFIER INSTALLATION APPLICATIONS and FOOTNOTES (Line output converter required)	FACTORY AMPLIFIER LOCATION
Trooper	2002	Nakamichi - Information forthcoming								Type 1	
VehiCross	2001	All - Information forthcoming								Type 1	
JAGUAR											
S-Type	1999-02	All	#4, 66	LOCHKWLOCSUBA			SNFD1 or ALF01 or KWF01, with FC4, IC1, C4)	SDS1 with DOCKFORD (D1) or AUDCFORD (D2, D4)		Type 1	E.subs. B ctr. ch.
X-Type	2002	Information Forthcoming								Type 1	
All Models	1996-97	XJ12 w/Harman Kardon system		PWR1	(R1, R6)		ALPNSTR with ALPNUG1, (C4)			Type 1	C
	1996	XJ6 w/8-speaker system		FLT1	(R7)		copy Above			Type 1 or 2	none
				Interface not needed			copy Above			Type 1	C
	1992-95	All		OEM4A	(R1, R6)		Alpine M-Bus Direct			Type 1	C
JEEP											
Cherokee	1996-01	All		Interface not needed			ALPNSTR with ALPNICR1, (C3)	SDS1 with DOCKICRY3 (D1) or AUDCHRY (D2)	REMOTE 1.5 or CRSWI	Type 1	none
Cherokee XJ	1984-86	All		FLT1	(R3)					Type 1	
Grand Cherokee	2002	With Infinity sound system		OEM4A	(R1, R6)		ACR2V3 or KNICR2V3 with CRSELSQ (C3)	SDS1 with DOCKICRY2 (D1) or AUDCHRY (D2)		Type 1	H
	1999-01	With Infinity sound system		OEM4A	(R1, R6)		ACR2V3 or KNICR2V3 with CRSELSQN (C3)	SDS1 with DOCKICRY3 (D1) or AUDCHRY (D2)		Type 1	H
	1993-98	With Infinity sound system		OEM4A	(R1, R6)		ALPNSTR with ALPNICR1 (96-98) (C3)	SDS1 with DOCKICRY3 (D1) or AUDCHRY (96-98) (D2)		Type 1	H
		Without Infinity sound system		Interface not needed			ACR2V3 or KNICR2V3 with CRSELSQ (96-98) (C3)	SDS1 with DOCKICRY3 (D1) or AUDCHRY (96-98) (D2)		Type 1	none
Liberty	2002	All		Interface not needed			ACR2V3 or KNICR2V3 with CRSELSQ (C3)	SDS1 with DOCKICRY2 (D1) or AUDCHRY (D2)		Type 1	none
Wrangler	1995-02	All		Interface not needed			ALPNSTR with ALPNICR1, (C3)	SDS1 with DOCKICRY3 (D1) or AUDCHRY (D2)		Type 1	none
KIA											
Optima	2001-02	With AM/FM/CD		OEM4A	(R1, R6)		Not a factory option			Type 1 or 2	120watt
		With AM/FM/Cassette only		Interface not needed			Not a factory option			Type 1	none
Rio	2001-02	All		Interface not needed			Not a factory option			Type 1	none
Sedona	2002	All		Interface not needed			Not a factory option			Type 1	none
Sephia	1994-02	All		Interface not needed			Not a factory option			Type 1	none
Spectra	2000-02	All		Interface not needed			Factory only	SDS1 With DOCKKIA (D1)		Type 1	none
Sportage	1995-02	All		Interface not needed			Factory only	SDS1 With DOCKKIA (D1)		Type 1	none
LAND ROVER											
All Models	1991-94	With factory CD changer controls	#15	OEM4A	(R1, R6)		Pioneer CDX4030 Direct			Type 1	F
Defender	1995-98	With factory CD changer controls	#15	OEM4A	(R1, R6)		Clarion Direct			Type 1	D
	1994-95	All	#15	OEM4A	(R1, R6)					Type 1	D
Discovery	2000-02	All		OEM4A	(R1, R6)		RVRCBLD with ABMVNSSV3 or KBMAV3 or SNRMW (C3)	SDS1 with DOCBMW (D5) or AUXBMW (D6)		Type 1	F
Freelander	1999-99	All	#15	OEM4A	(R1, R6)		RVRCBLF with ABMVNSSV3 or SNRMW (C3)	SDS1 with DOCBMW (D5) or AUXBMW (D6)		Type 1	
	2002	Information forthcoming								Type 1	
Range Rover	2000-02	All		OEM4A	(R1, R6)		RVRCBLD with ABMVNSSV3 or KBMAV3 or SNRMW (C3)	SDS1 with DOCBMW (D5) or AUXBMW (D6)		Type 1	D
	1992-99	All		OEM4A	(R1, R6)		RVRCBLD with ABMVNSSV3 or KBMAV3 or SNRMW (C3)	SDS1 with DOCBMW (D5) or AUXBMW (D6)		Type 1	D
LEXUS											
SC430	2002	Information forthcoming	#3	Not Recommended							C
SC300/400	1999-00	With factory Navigation, w/o Nakamichi		Not Recommended						Type 1	F
	1989-95	With factory Navigation, with Nakamichi		OEM4A	(R1, R6)					Type 1	F
		With Nakamichi factory system		Interface not needed	(R6)					Type 2 (LOC3 or LOCPREA)	F
	2000-02	W Pioneer factory system, no CD button		Interface not needed						Type 1	D
		W Pioneer factory system, w/ CD button	#3	OEM4A						Type 1	D
ES300	2002	Information forthcoming		Interface not needed	(R7)					Type 1 or 2 (LOC8 only)	C
ES250/300	1997-99	All		Interface not needed	(R7)					Type 1	D
	1990-96	With double DIN radio		Interface not needed	(R6)					Type 2 (LOC3 or LOCPREA)	D
	1990-91	With single DIN radio		Interface not needed	(R6)					Type 2 (LOC3 or LOCPREA)	D
GS400	1998-99	All without Navigation system	#3 #40	OEM4A	(R1, R6)					Type 1	
GS300/430	2000-02	Information forthcoming									
IS300	2002	Information forthcoming	#3								
LS430	2002	Information forthcoming	#3								
LS400	1989-95	With Nakamichi factory system		Interface not needed	(R8)					Type 1	D
	1989-95	With Pioneer factory system		Interface not needed	(R8)					Type 1	
RX300/RX400	2000-01	All		OEM4A	(R1, R6)					Type 1	L
	1997-99	With Pioneer factory system		OEM4A	(R1, R6)					Type 1	L

Copyright 2002 © SoundGate, all Rights Reserved. SoundGate® is a registered trademark of The Putman Group, Inc.

MAKE and MODEL	YEARS	VEHICLE IDENTIFIER/ QUALIFIER	INSTALL NOTES (pgs 44-52)	RECEIVER INSTALLATIONS use part #	RECEIVER FOOTNOTES	RETAIN ONSTAR use part #	CD CHANGER INTERFACE APPLICATIONS AND FOOTNOTES use part #	AUXILIARY INPUT INTERFACES use part #	STEERING WHEEL CONTROL INTERFACE APPLICATIONS and FOOTNOTES use part #	AMPLIFIER INSTALLATION APPLICATIONS and FOOTNOTES (Line output converter required)	FACTORY AMPLIFIER LOCATION
RVX470	2000-01	All		OEM4A	(R1, R6)					Type 1	D
	1999-99	With Premium system		OEM4A	(R1, R6)					Type 1	L
LINCOLN											
Continental	2001-02	All	#4, 35, 47	LOCSUBA (for subs)			SNFD1 or ALFD1 or KNFD1, with FC5 (C3)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 1	E sub
	1999-00	All	#4, 35	LOCSUBA (for subs)			SNFD1 or ALFD1 or KNFD1, with FC5 (C3)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 1	none
	1995-97	All This is factory DAS (distributed audio system–LOX) No interface available	#3	Call for details						Type 1	E
		With CD changer controls on factory radio		as above			SNFD1 or ALFD1 or KNFD1, with FC3 (C7)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 1	E
	1989-94	All		FRD2	(R1, R6, R11)					Type 1 or 2 (LOC8 only)	G
	1980-87	All		OEM2	(R4)					Type 1	E sub, B tweeters
LS	2000-02	All	#36, 48, 66	LOCHVA/LOCSUBA			SNFD1 or ALFD1 or KNFD1, with FC5 (C3)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 1 or 2 (LOC8 only)	none
Mark VII	1990-92	With "toggle" type volume control on factory receiver		FRD2	(R1, R6, R11)					Type 1 or 2 (LOC8 only)	E
	1988-89			FRD2	(R1, R6, R11)						
	1984-87	All		OEM2	(R4)					Type 1	E
Mark VIII	1995-98	With CD changer controls on factory radio		OEM4A	(R1, R6)		SNFD1 or ALFD1 or KNFD1, with FC3 (C3)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 1 or 2 (LOC8 only)	E
	1993-94	All		FRD2	(R1, R6, R11)		SNFD1 or ALFD1 or KNFD1, with FC3 (C3)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 1 or 2 (LOC8 only)	B or E
Navigator	1999-02	All II subwoofer-equipped call for details	#36	Interface not needed	(R1, R6)		SNFD1 or ALFD1 or KNFD1, with FC5 (C3)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 1	none
	1997-98	With factory CD-changer controls	#36	Interface not needed			SNFD1 or ALFD1 or KNFD1, with FC2 (C3)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 1 or 2 (LOC8 only)	A
Town Car	2001-02	All	#36	Interface not needed			SNFD1 or ALFD1 or KNFD1, with FC5 (C3)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 1	E sub
	1998-00	With factory CD-changer controls	#3	Interface not needed			SNFD1 or ALFD1 or KNFD1, with FC5 (C3)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 1	none
	1995-97	With JBL Audio System. This is factory DAS (distributed audio system – LOX) No interface available	#3				SNFD1 or ALFD1 or KNFD1, with FC3 (C7)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 1	E
	1990-94	All		FRD2	(R1, R6, R11)					Type 1 or 2 (LOC8 only)	E
	1989	With "toggle" type volume control on factory receiver		FRD2	(R1, R6, R11)					Type 1	E
	1984-87	All		OEM2	(R4)					Type 1	
MAZDA											
929	1995-96	With 12-speaker system		OEM4A	(R1, R6)					Type 2 (LOC8 or LOCPREA)	E
626	1998-02	With factory Bose system		OEM4A	(R1, R6)					Type 2 (LOC8 or LOCPREA)	
	1988-92	All	rear amp	Interface not needed	(R6)					Type 1	B
Miata	2000-02	With Bose system		OEM4A	(R1, R6)			SDS1 with DOCKMAZD (D1)		Type 2 (LOC8 or LOCPREA)	B
		Without Bose sound system		Interface not needed	(R6)			SDS1 with DOCKMAZD (D1)		Type 1	none
	1995-99	With factory removable face radio		Interface not needed	(R6)		Sanyo Direct			Type 1	none
	1990-94	All		Interface not needed	(R6)			SDS1 with DOCKMAZD (98-99) (D1)		Type 1	none
Millenia	1999-02	With Bose sound system		OEM4A	(R1, R6)			SDS1 with DOCKMAZD (D1)		Type 1 or 2	E
		Without Bose sound system	#42	Interface not needed				SDS1 with DOCKMAZD (98) (D1)		Type 1	none
	1994-97	With factory Bose system		OEM4A	(R1, R6)		ALMZ1, (C4)	SDS1 with DOCKMAZD (98) (D1)		Type 2 (LOC8 or LOCPREA)	E
MPV	2002	Information forthcoming									
	1997-01	All		Interface not needed	(R6)			SDS1 with DOCKMAZD (98-99) (D1)		Type 1	none
Navajo	1995-96	With factory removable face radio		Interface not needed	(R6)		Sanyo Direct			Type 1	none
	1990-94	With the letters DNR on the factory receiver tape door		FRD2	(R1, R6, R11)					Type 1 or 2 (LOC8 only)	F
	1991-92	With "toggle" type volume control on factory cassette		FRD2	(R1, R6, R11)					Type 1 or 2 (LOC8 only)	F
Pickup	1998-02	With factory CD-changer controls		Interface not needed	(R6)		SNFD1 or ALFD1 or KNFD1, with FC5 (C3)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 1	none
	1997	With factory CD-changer controls		OEM4A	(R1, R6)		SNFD1 or ALFD1 or KNFD1, with FC2 (C3)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 1 or 2 (LOC8 only)	none
		Without CD changer controls, or AM/FM only (no cassette)		Interface not needed						Type 1	none
	1995-96	With CD changer controls on factory cassette		OEM4A	(R1, R6)		SNFD1 or ALFD1 or KNFD1, with FC2 (C3)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 1 or 2 (LOC8 only)	F
	1994	With the word Automatic on the tape door, or with factory CD		FRD2	(R1, R6, R11)					Type 1 or 2 (LOC8 only)	F
Prestige 5	2002	Information forthcoming						SDS1 with DOCKMAZD (D1)			

SOUNDGATE 2002 Application Guide

MAKE and MODEL	YEARS	VEHICLE IDENTIFIER/ QUALIFIER	INSTALL NOTES (pgs 44-52)	RECEIVER INSTALLATIONS use part #	RECEIVER FOOTNOTES	RETAIN ONSTAR use part #	CD CHANGER INTERFACE APPLICATIONS AND FOOTNOTES use part #	AUXILIARY INPUT INTERFACES use part #	STEERING WHEEL CONTROL INTERFACE APPLICATIONS and FOOTNOTES use part #	AMPLIFIER INSTALLATION APPLICATIONS and FOOTNOTES (Line output converter required)	FACTORY AMPLIFIER LOCATION
Prestige (cont.)	1995-01	With factory removable tape radio		Interface not needed	(R8)		Servo Direct	SDS1 with DOCKMAZD (99-01) (D1)		Type 1	none
Tribute	2001-02	With Bose audio system		Interface not needed				SDS1 with DOCKMAZD (D1)		Type 1	none
	2001-02	With Mid+line audio system		Interface not needed				SDS1 with DOCKMAZD (D1)		Type 1	F sub
		With HighLine audio (in-dash 6-disc)	F36	Interface not needed				SDS1 with DOCKMAZD (D1)		Type 1	F sub
RX7	1993-96	With factory Bose system		Interface not needed	(R8)		ALMZ1 (94-96) (C4)			Type 2 (LOC3 or LOCPREN)	I
	1989-92	Please see note #7	#7	Interface not needed						Type 1	
MERCEDES											
C220, C240, C320	2001-02	All fiber optic) with Bose system	F54	See Note #54			BXMBC1 (C8)			Type 1 (A2)	F
		All fiber optic) without Bose system	F54	See Note #54			BXMBC1 (C8)			Type 1	none
C-Class (sedan)	1999-00	All fiber optic)	F54	See Note #54			BXMBF1 with BKF1BKT (C8)			Type 1	G
CLK320, CLK430	1999-02	All fiber optic)	F54	See Note #54			BXMBF1 with BKF1BKT (C8)			Type 1 (A2)	none
E320/430, E55	2001-02	All fiber optic)	F54	See Note #54			BXMBF1 with BKF1BKT (C8)			Type 2 (LOC3 or LOCPREN)	F
	1999-00	All fiber optic)	F54	See Note #54			BXMBF1 with BKF1BKT (C8)			Type 1 or 2	G
ML320, ML420	2001-02	All fiber optic)	F54	See Note #54			BXMBF1 with BXML2BKT (C8)			Type 1	none
	2000	All fiber optic)	F54	See Note #54			BXMBF1 with BXML2BL and BXMLBKT (C8)			Type 1	none
	1998-99	With Bose system		OEM4A	(R1, R6)		BXAL99 (C8)				
		Without Bose system		Interface not needed			BXAL99 (C8)				
S430, S500, S600	2000-02	All fiber optic)	F54	See Note #54			BXMBF1 with BKF1BKT (C8)			Type 1 (A2)	G
SL500, SL600	2000-02	All fiber optic)	F54'	See Note #54			BXMBF1 (C8)			Type 1	none
SLK230, SLK320	2000-02	All		OEM4A	(R1, R6)		BXMBF1 (C8)			Type 1 or 2	M
	1998-99	All (except 98 ML)		OEM4A	(R1, R6)		ALPASTR with ALPMMB1 (98 only) (C4)			Type 1	M
All Models	1995-98	All		OEM4A	(R1, R6)		ALPASTR with ALPMMB1 (C4)			Type 2 (LOC3 or LOCPREN)	G
	1993-95	All		Call for details			ALMZ2 (94-mid 95) (C4)			Type 1	E
	1989-92	Call for tractable tech. Sheet								Type 1	E
MERCURY											
Capri	1985-86	With factory amplifier in dash		OEM2	(R4)					Type 1	
	1983-84	Without amplifier located in dash		PWR1	(R2)					Type 1	
		Without amplifier switch beside factory receiver		FLT1	(R2)					Type 1	none
		With amplifier switch beside factory		PWR1	(R2)					Type 1	
Capri XR2	1993-94	With round, Automatic on tape door	#4 (94)	FR02	(R1, R6, R11)					Type 1 or 2 (LOC3 only)	
		Without round Automatic on tape door		Interface not needed	(R1, R6, R11)					Type 1 or 2 (LOC3 only)	none
	1991-93	With "toggle" type volume control on factory receiver		FR02	(R2)					Type 1 or 2 (LOC3 only)	
Colony Park	1988	With rotary volume knob on factory radio		PWR1	(R2)					Type 1	
		With rotary volume knob on factory receiver, 6 factory speakers		PWR1	(R2)					Type 1	
	1985-87	With six factory speakers		PWR1	(R2)					Type 1	none
Cougar	1998-02	All		Interface not needed			SMFD1 or ALFD1 or KMFD1, with FC4 (C1)	SDS1 with DOGSFORD (D1) or AUXFORD (D2, D4)		Type 1	none
	1994-97	With round, Automatic on tape door, or with factory in-dash CD	#4	FR02						Type 1 or 2 (LOC3 only)	E
		Without round Automatic on tape door		Interface not needed						Type 1	none
	1998	With "toggle" type volume control		FR02	(R1, R6, R11)					Type 1 or 2 (LOC3 only)	E
		With rotary volume knob on factory radio		PWR1	(R2)					Type 1	E
	1986-87	W/Factory Equalizer or 6-speaker system		PWR1	(R2)					Type 1	E
Grand Marquis	1998-02	All		Interface not needed			SMFD1 or ALFD1 or KMFD1, with FC5 (C3)	SDS1 with DOGSFORD (D1) or AUXFORD (D2, D4)		Type 1	none
	1995-97	With CD-changer controls on factory radio, or factory CD. This is factory DAS (distributed audio system - LUX)	Note #3				SMFD1 or ALFD1 or KMFD1, with FC3 (C7)	SDS1 with DOGSFORD (D1) or AUXFORD (D2, D4)		Type 1	
	1995-97	Without CD-changer controls on factory radio, or factory in-dash CD.		Interface not needed						Type 1	
	1992-94	With round Automatic on the tape door	#4 (94)	FR02	(R1, R6, R11)					Type 1 or 2 (LOC3 only)	E

Page 37 of 52

SOUNDGATE® 2002 Application Guide

MAKE and MODEL	YEARS	VEHICLE IDENTIFIER/ QUALIFIER	INSTALL NOTES (pgs 44-52)	RECEIVER INSTALLATIONS use part #	RECEIVER FOOTNOTES	RETAIN ONSTAR use part #	CD CHANGER INTERFACE APPLICATIONS AND FOOTNOTES use part #	AUXILIARY INPUT INTERFACES use part #	STEERING WHEEL CONTROL INTERFACE APPLICATIONS and FOOTNOTES use part #	AMPLIFIER INSTALLATION APPLICATIONS and FOOTNOTES (Line output converter required)	FACTORY AMPLIFIER LOCATION
Grand Marquis (cont.)	1992-94	Without word Automatic on tape door		Interface not needed	(R2)					Type 1	none
	1996-99	With rotary volume control and factory amplifier in the trunk		PWR1	(R2)					Type 1	E
		With rotary volume control and amplifier behind left rear trim		PWR1	(R2)					Type 1	G
	1996-97	With amplifier on underside of rear deck		PWR1	(R2)					Type 1	E
		Without digital factory receiver, amplifier behind rear quarter trim		OEM2	(R4)					Type 1	G
Mountaineer	1999-02	With Mach audio system. If equipped with subwoofer, call for details	#4, 36	LOC/SUBA to keep factory sub			SNFD1 or ALFD1 or KNFD1, with FC5 (C5)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 1 or 2 (LOCB only)	F, ROU & sub
		With Premium sound system	#4	OEM4A	(R1, R6)		SNFD1 or ALFD1 or KNFD1, with FC5 (C5)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 1 or 2 (LOCB only)	F
		Without Premium sound system		Interface not needed			SNFD1 or ALFD1 or KNFD1, with FC2 (C3)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 1	none
	1997-98	Cassette only w/ CD changer controls	#4	OEM4A	(R1, R6)		SNFD1 or ALFD1 or KNFD1, with FC2 (C3)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 1 or 2 (LOCB only)	F
		Without CD changer controls on factory radio, or AM/FM only		Interface not needed						Type 1	none
	1996-97	With JBL system. This is factory DAS (distributed audio system - LU0Q). No interface available.	#3, 4, 36	LOC/SUBA to keep factory sub			SNFD1 or ALFD1 or KNFD1, with FC3 (C7)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 1	F
Mystique	1995-98	With premium sound on speaker grilles	#4	OEM4A	(R1, R6, R11)					Type 1 or 2 (LOCB only)	E
Sable	2000-02	All	#3, 14	Call for details	(R1, R6)					Type 1	G
	1996-99	All	#3, 14	Call for details	(R1, R6)					Type 1	G
	1992-95	With word Automatic on the tape door	#4 (94-95)	FRD2	(R1, R6, R11)		SNFD1 or ALFD1 or KNFD1, with FC3 (C7)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)	FRDSW2	Type 1 or 2 (LOCB only)	E
		Without word Automatic on tape door — no cassette		PWR1	(R1, R6)		SNFD1 or ALFD1 or KNFD1, with FC3 (C7)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)	FRDSW2	Type 1	none
		With AM/FM tuner only — no cassette		PWR1	(R1, R6, R11)				FRDSW2	Type 1	none
	1989-91	With Toggle type volume control	#4	FRD2	(R1, R6, R11)					Type 1 or 2 (LOCB only)	E
	1990-91	With rotary volume control and factory amplifier in the trunk		PWR1	(R1, R6)					Type 1	E
		With rotary volume control and amplifier behind left rear trim		PWR1	(R1, R6)					Type 1	G
Topaz	1987-94	All	#4 (94)	OEM4A	(R1, R6)					Type 1	E
	1985-86	With factory EQ, or amplifier located on underside of rear deck		PWR1	(R1, R6)					Type 1	E
	1985	With factory digital receiver, but without factory equalizer		PWR1	(R1, R6)					Type 1	none
Tracer	1997-02	Without words Premium Sound on tape door.	#14	Interface not needed			SNFD1 or ALFD1 or KNFD1, with FC2 (C3)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 1	none
		With Premium Sound System	#4, 14	OEM4A	(R1, R6)					Type 1 or 2 (LOCB only)	E
	1993-96	With cassette, and amplifier under dashboard, or with factory CD	#4 (94-96)	FRD2	(R1, R6, R11)					Type 1 or 2(LOCB only)	B
	1993	With factory cassette player, w/o amp		PWR1	(R1, R6)					Type 1	none
	1991-92	With words Premium Sound on grille		PWR1	(R2)					Type 1	none
Villager	2001-02	With factory video system		Not recommended						Type 1	none
		With factory video system		Interface not needed			SNFD1 or ALFD1 or KNFD1, with FC5 (C5)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 1	none
	1999-00	All		Interface not needed			SNFD1 or ALFD1 or KNFD1, with FC5 (C5)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 1	none
	1996-98	All	#4	OEM4A	(R1, R6)		SNFD1 or ALFD1 or KNFD1, with FC2 (C3)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 1 or 2 (LOCB only)	G
	1993-95	All	#4 (94-95)	FRD2	(R1, R6, R11)				FRDSW2	Type 1 or 2 (LOCB only)	G
MITSUBISHI											
3000GT	1995-99	All		OEM4A	(R1, R6)			SDS1 With DOCKMITS (D1)		Type 2 (LOCB or LOCPREM)	G
Diamante	1992-02	With Infinity Sound System		MITSNDVR	(R7)			SDS1 With DOCKMITS (D1)		MITSAMP or Type 1 (A1)	D
		Without Infinity Sound System		Interface not needed				SDS1 With DOCKMITS (D1)		Type 1	none
Eclipse	1995-02	With Infinity Sound System		MITSNDVR	(R7)			SDS1 With DOCKMITS (D1)		MITSAMP or Type 1 (A1)	D
		Without Infinity Sound System		Interface not needed				SDS1 With DOCKMITS (D1)		Type 1	none
Galant	1986-02	With Infinity Sound System		MITSNDVR	(R7)			SDS1 With DOCKMITS (D1)		MITSAMP or Type 1 (A1)	D

SOUNDGATE® 2002 Application Guide

MAKE and MODEL	YEARS	VEHICLE IDENTIFIER/ QUALIFIER	INSTALL NOTES (pgs 44-52)	RECEIVER INSTALLATIONS use part #	RECEIVER FOOTNOTES	RETAIN ONSTAR use part #	CD CHANGER INTERFACE APPLICATIONS AND FOOTNOTES use part #	AUXILIARY INPUT INTERFACES use part #	STEERING WHEEL CONTROL INTERFACE APPLICATIONS and FOOTNOTES use part #	AMPLIFIER INSTALLATION APPLICATIONS and FOOTNOTES (Line output converter required)	FACTORY AMPLIFIER LOCATION
Galant (cont.)	1999-02	Without Infinity Sound System		Interface not needed				SGS1 With DOCKMITS (D1)		Type 1	none
Lancer	2002	Information forthcoming									none
Mighty Max	1993-96	All		FLT1	(R4)					Type 1	none
Mirage	2002	Information forthcoming									
Montero	1997-02	With Infinity Sound System		MITSROR	(R7)			SGS1 With DOCKMITS (D1)		MITSAMP or Type 1 (A1)	D
		Without Infinity Sound System		Interface not needed				SGS1 With DOCKMITS (D1)		Type 1	none
	1996	All		Call for details						Type 1	E
NISSAN											
240SX	1995-98	With factory CD player		PWR1	(R5)			SGS1 with DOCKNISS (95 only) (D1)		Type 1	none
300ZX	1990-96	With factory Bose system		OEI4A	(R1, R6)					Type 2 (LOC8 only)	I
	1984-89	All		FLT1	(R3)					Type 1	none
350Z	2003	Information forthcoming									
Altima	2002	With base-level 6-speaker system		Interface not needed	(R8)					Type 1	none
		With Bose Audio System (w/6-disc in-dash changer)								Type 1 or 2 (LOC8 only)	
	1998-01	All		OEI4A			ALNS1 (C3)	SGS1 with DOCKNISS (D1)		Type 1	none
	1993-97	All		PWR1	(R1, R6)					Type 2	E
Frontier	1998-02	All		OEI4A	(R1, R6)		ALNS1 (C3)	SGS1 with DOCKNISS (D1)		Type 1 or 2 (LOC8 only)	none
Maxima	2000-02	With Navigation system		OEI4A			ALNS1 (C3)	SGS1 with DOCKNISS (D1)		Type 1	none
		With 7-speaker factory Bose system		OEI4A	(R1, R6)		ALNS1 (C3)	SGS1 with DOCKNISS (D1)		Type 1 or 2 (LOC8 only)	E
		With 6-speaker non-Bose system		Interface not needed				SGS1 with DOCKNISS (D1)		Type 1	none
	1995-99	With factory Bose system		OEI4A	(R1, R6)		ALNS1 (99-99) (C3)	SGS1 with DOCKNISS (99-99) (D1)		Type 2 (LOC8 only)	none
		Without factory Bose system		Interface not needed	(R1, R6)		ALNS1 (98-99) (C3)	SGS1 with DOCKNISS (98-99) (D1)		Type 1	none
	1991-94	With factory Bose system		OEI4A	(R1, R6)					Type 2 (LOC8 only)	none
	1989-90	Without factory Bose system		Interface not needed						Type 1	none
		With factory Bose system		OEI4A	(R1, R6)					Type 2 (LOC8 only)	none
	1989-92	Without factory Bose System	#5	Interface not needed						Type 1	none
Pathfinder	1996-02	With factory Bose system		OEI4A	(R1, R6)		ALNS1 (98-02) (C3)	SGS1 with DOCKNISS (98-02) (D1)		Type 2 (LOC8 only)	none
	1993-95	With 4, 6, or 8-speaker systems	#5	Read note #5			ALNS1 (98-92) (C3)	SGS1 with DOCKNISS (98-92) (D1)		Type 2 (LOC8 only)	none
Quest	2001-02	With factory video system		Not recommended						Type 1	E
		Without factory video system		Interface not needed			SHFD1 or ALFD1 or KINFD1, with FC5 (C3)	SGS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 1	none
	1999-00	All		Interface not needed	(R1, R6, R11)		SHFD1 or ALFD1 or KINFD1, with FC5 (C3)	SGS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 1	none
	1999-98	With Premium sound system		OEI4A	(R1, R6)		SHFD1 or ALFD1 or KINFD1, with FC2 (C3)	SGS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 2 (LOC8 only)	G
		Without Premium sound system		Interface not needed			SHFD1 or ALFD1 or KINFD1, with FC2 (C3)	SGS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		Type 1	none
	1994-95	With factory cassette or CD player		FRD2	(R1, R6, R11)				FRDSW2	Type 2 (LOC8 only)	none
	1993	With the word Automatic on tape door		FRD2	(R1, R6, R11)				FRDSW2	Type 2 (LOC8 only)	none
		W/O the word Automatic on tape door		Interface not needed						Type 1	none
Sentra	2002	Information forthcoming						SGS1 with DOCKNISS (D1)		Type 1	none
SE-R	2002	Information forthcoming					ALNS1 (C3)	SGS1 with DOCKNISS (D1)		Type 1	none
Stanza	1985-87	With built-in AM/FM cassette		FLT1	(R2)					Type 1	none
Xterra	2000-02	With in-dash AM/FM CD player		Interface not needed	(R8)		ALNS1 (C3)	SGS1 with DOCKNISS (D1)		LOCHIA Only	none
OLDSMOBILE											
88 or 98	1999-99	All	#25 (99 only)	Interface not needed				SGS1 with DOCKGM2 (96-99) (D1)	REMOTE1.5	Type 1	none
99 or Regency	1988-90	With factory Bose system	#37	GM81	(R1, R6, R11)			SGS1 with DOCKGM2 (D1)	REMOTE1.5	Type 2 (LOC8 only)	I
		Without factory Bose system		Interface not needed				SGS1 with DOCKGM2 (D1)	REMOTE1.5	Type 1	none
	1985-98	With factory Bose system	#37	GM82	(R1, R6, R11)			SGS1 with DOCKGM2 (D1)		Type 2 (LOC8 only)	I
		Without factory Bose system		Interface not needed				SGS1 with DOCKGM2 (D1)		Type 1	none
Achieva	1997-99	All	#54	Interface not needed				SGS1 with DOCKGM2 (96-99) (D1)	REMOTE1.5 (S1)	Type 1	none
Alero	2001-02	With AM/FM Cassette only (6-speaker)	#26	Interface not needed				SGS1 with DOCKGM2 (D1)	REMOTE1.5	Type 1	none
		With AM/FM/Cassette/CD (8-speaker)	#26	Interface not needed				SGS1 with DOCKGM2 (D1)	REMOTE1.5 or GMSW1	Type 1	G
	1999-00	With 8-speaker system (factory subs)	#21, 29	Interface not needed				SGS1 with DOCKGM2 (D1)	REMOTE1.5 or GMSW1	Type 1	G (sub)
		With 4 or 6-speaker system		Interface not needed				SGS1 with DOCKGM2 (D1)	REMOTE1.5 or GMSW1	Type 1	none

Copyright 2002 © SoundGate, all Rights Reserved. SoundGate® is a registered trademark of The Putman Group, Inc.

SOUNDGATE® 2002 Application Guide

KICKER000148

MAKE and MODEL	YEARS	VEHICLE IDENTIFIER/QUALIFIER	INSTALL NOTES (pgs 44-52)	RECEIVER INSTALLATIONS use part #	RECEIVER FOOTNOTES	RETAIN ONSTAR use part #	CD CHANGER INTERFACE APPLICATIONS AND FOOTNOTES use part #	AUXILIARY INPUT INTERFACES use part #	STEERING WHEEL CONTROL INTERFACE APPLICATIONS and FOOTNOTES use part #	AMPLIFIER INSTALLATION APPLICATIONS and FOOTNOTES (Line output converter required)	FACTORY AMPLIFIER LOCATION
Aurora	2001-02	With factory Bose system (8-speakers)	#19, 20, 23, 25, 26, 32, 63	Not Recommended		Not recommended			Not Recommended	Type 1	E
		Without Bose system (6-speaker)	#19, 20, 23, 26, 30, 63	Not Recommended		Not recommended			Not Recommended	Type 1	E
	1998-99	With factory Bose system	#25 ('98-99)	OEM4A	(R1, R6)	StarMod		SDS1 with DOCKGM2 (D1)	REMOTE1.5 or GMSW1	Type 1 or 2	E
		Without factory Bose system	#25 ('98-99)	Interface not needed	(R1, R6)			SDS1 with DOCKGM1 (D1)	REMOTE1.5 or GMSW1	Type 1	none
	1995-97	With factory Bose system	#25 ('98-99)	OEM4A				SDS1 with DOCKGM2 (96-99) (D1)	REMOTE1.5 or GMSW1	Type 1 or 2	E
		Without factory Bose system	#25 ('98-99)	Interface not needed				SDS1 with DOCKGM2 (96-99) (D1)	REMOTE1.5	Type 1	none
Bravada	2002	With factory Bose system	#25, 56	OEM4A	(R1, R6)	StarMod (T1)			REMOTE1.5	Type 1	none
		Without factory Bose system	#25	Interface not needed	(R1, R6)	StarMod (T1)			REMOTE1.5	Type 1	none
	2001	With "raised" audio system (amplified)	#25	OEM4A	(R1, R6)	StarMod		SDS1 with DOCKGM1 (D1)	REMOTE1.5	Type 2 (LOC8 only)	K
		With "base" audio system	#25	Interface not needed	#25	StarMod		SDS1 with DOCKGM1 (D1)	REMOTE1.5	Type 1	none
	1999-00	With "raised" audio system (amplified)	#25	OEM4A	(R1, R6)	StarMod		SDS1 with DOCKGM1 (D1)	REMOTE1.5	Type 2 (LOC8 only)	K
		With "base" audio system	#25	Interface not needed	(R1, R6)	StarMod		SDS1 with DOCKGM1 (D1)	REMOTE1.5	Type 1	I
	1995-97	Without factory Bose system	#37	GMB2	(R1, R6, R11)					Type 2 (LOC8 only)	I
Calais	1995-97			Interface not needed						Type 1	none
Cutlass	1998-99	All		Interface not needed						Type 1	C
Cutlass Supreme	1994-97	All		Interface not needed	(R1, R6, R11)			SDS1 with DOCKGM2 (95-99) (D1)	REMOTE1.5	Type 1	C
Delta 88	1995-97	With factory Bose system	#37	GMB2	(R1, R6, R11)			SDS1 with DOCKGM1 (D1)		Type 2 (LOC8 only)	E
Intrigue	1999-02	With factory Bose system	#23, 25, 30	OEM4A	(R1, R6)	StarMod		SDS1 with DOCKGM2 (99-00) (D1)	REMOTE1.5	Type 2 (LOC8 only)	E
		Without factory Bose system	#23, 25, 30	No Interface needed		StarMod		SDS1 with DOCKGM2 (99-00) (D1)	REMOTE1.5	Type 1	none
	1998	With factory Bose system	#23, 25, 30	OEM4A	(R1, R6)			SDS1 with DOCKGM2 (D1)	REMOTE1.5	Type 2 (LOC8 only)	E
		Without factory Bose system	#25	Interface not needed				SDS1 with DOCKGM2 (D1)	REMOTE1.5	Type 1	none
LSS	1996-99	All		Interface not needed					REMOTE1.5	Type 1	none
Regency	1997-98	All		Interface not needed		StarMod (T1)		SDS1 with DOCKGM1 (99-99) (D1)	REMOTE1.5	Type 1	none
Silhouette	2001-02	All Without factory video system	#28, 25, 62	See Note #31		StarMod (T1)			REMOTE1.5 or GMSW1	Type 1	none
		All With factory video system	#31, 25, 62	See Note #31		StarMod		SDS1 with DOCKGM1 (97-99) (D1)	REMOTE1.5 or GMSW1	Type 1	none
	1999-00	All Without factory video system		See Note #31		StarMod		SDS1 with DOCKGM1 (99-99) (D1)	REMOTE1.5 or GMSW1	Type 1	none
	1997	All		Interface not needed				SDS1 with DOCKGM1 (D1)	REMOTE1.5 or GMSW1	Type 1	none
	1994-96	All		Interface not needed	(R1, R6)			SDS1 with DOCKGM1 (99-99) (D1)	REMOTE1.5	Type 1	none
Toronado	1989-93	Without CRT screen		OEM4A	(R1, R6, R11)					Type 2 (LOC8 only)	C
	1986-90	With factory Bose system	#37	GMB1						Type 2 (LOC8 only)	I
		Without factory Bose system		Interface not needed						Type 1	none
PLYMOUTH											
Acclaim	1989-95	With Infinity sound system		PWR1	(R1, R6)	StarMod (T1)				Type 1	I
		Without Infinity sound system		Interface not needed		StarMod (T1)				Type 1	I
Breeze	1996-00	With Infinity audio system (6-speaker)		OEM4A	(R1, R6)	StarMod (T1)	ALPMSTR with ALPMCR1. (C3)	SDS1 with DOCKCHRY3 (D1)		Type 1	D
		Without Infinity sound system (6-speaker)		Interface not needed		StarMod (T1)	ALPMSTR with ALPMCR1. (C3)	SDS1 with DOCKCHRY3 (D1)		Type 1	none
Duster	1990-94	With Infinity sound system		PWR1	(R1, R6)					Type 1	I
		Without Infinity sound system		Interface not needed						Type 1	none
Neon	1997	All		Interface not needed						Type 1	none
Prowler	2002	All (Infinity system standard)		Interface not needed			AC5CVG or KIW2CVG with CHCBLON (C3)	SDS1 with DOCKCHRY1 (D1) or AUXCHRY (D2)		Type 1	D
	1999-01	All (Infinity system standard)		Interface not needed			ALPMSTR with ALPMCR1. (C3)	SDS1 with DOCKCHRY3 (D1)	REMOTE1.5 or CRSW1	Type 1	D
Sundance	1990-94	With Infinity sound system		PWR1	(R4)					Type 1	I
Voyager	1995-98	Without Infinity sound system		Interface not needed			ALPMSTR with ALPMCR1. (C3)	SDS1 with DOCKCHRY3 (D1)		Type 1 or 2	I
		With Infinity sound system		OEM4A			ALPMSTR with ALPMCR1. (C3)	SDS1 with DOCKCHRY3 (D1)		Type 1 or 2	none
	1997-95	With Infinity sound system		PWR1	(R6,10)					Type 1	I
		Without Infinity sound system		Interface not needed						Type 1 or 2	I
PONTIAC											
Aztek	2001-02	With 6-speaker system	#25, 26, 28, 62	Interface not needed		StarMod (T1)			REMOTE1.5 or GMSW1	Type 1	none
		With 10-speaker system	#25, 26, 28, 62	Interface not needed		StarMod (T1)			REMOTE1.5 or GMSW1	Type 1	A
Bonneville	2000-02	With 8-speaker system	#32, 63	See Note #32		StarMod (T1)			REMOTE1.5 (Call First)	Type 1	E
		With 8-speaker system	#25, 30	See Note #32		StarMod (T1)			REMOTE1.5 (Call First)	Type 1	E
		With Bose system	#25 ('98-99)	OEM4A	(R1, R6)	StarMod (98-99)		SDS1 with DOCKGM2 (D1)	REMOTE1.5 or GMSW1	Type 1 or 2 (LOC8 only)	B
	1997-99	Without Bose system	#25 ('99-99)	Interface not needed		StarMod (99-99)		SDS1 with DOCKGM2 (D1)	REMOTE1.5 or GMSW1	Type 1 or 2 (LOC8 only)	none

SOUNDGATE® 2002 Application Guide

MAKE and MODEL	YEARS	VEHICLE IDENTIFIER/ QUALIFIER	INSTALL NOTES (pgs 44-52)	RECEIVER INSTALLATIONS use part #	RECEIVER FOOTNOTES	RETAIN ONSTAR use part #	CD CHANGER INTERFACE APPLICATIONS AND FOOTNOTES use part #	AUXILIARY INPUT INTERFACES use part #	STEERING WHEEL CONTROL INTERFACE APPLICATIONS and FOOTNOTES use part #	AMPLIFIER INSTALLATION APPLICATIONS and FOOTNOTES (Line output converter required)	FACTORY AMPLIFIER LOCATION
Bonneville (cont.)	1996	All		Interface not needed				SDS1 with DOCKSM2 (D1)	REMOTE1.5 or GMSWI	Type 1	none
	1992-95	All	#33	Interface not needed					REMOTE1.5	Type 1	sub amp only
Firebird	1997-01	With factory Bose system (10-speaker)	#57	GMR2	(R1, R6, R11)					Type 2 (LOC3 only)	I
	1997-02	With Monsoon System (10-speaker)	#17	Interface not needed				SDS1 with DOCKSM2 (D1)	REMOTE1.5 or GMSWI	Type 1 or 2 (A6)	G
	1995-96	With base-level system (4-speaker)		Interface not needed				SDS1 with DOCKSM2 (D1)	REMOTE1.5 or GMSWI	Type 1	none
	1993-94	All		Interface not needed				SDS1 with DOCKSM2 (96) (D1)	REMOTE1.5	Type 1	none
	1986-88	With factory subwoofer switch and subwoofer on light on dash. Note #1		Interface not needed					REMOTE1.5	Type 1	none
Grand Am	2001-02	With 6-speaker system	#26	Interface not needed		StarMod (T1)			REMOTE1.5 or GMSWI	Type 1	none
		With 6-speaker system	#26, 23, 30	Interface not needed		StarMod (T1)			REMOTE1.5 or GMSWI	Type 1	G
	1999-00	All	#33	Interface not needed		StarMod			REMOTE1.5 or GMSWI	Type 1	G
	1996-98	All	#34	Interface not needed					REMOTE1.5 or GMSWI	Type 1	E
Grand Prix	1996-02	With factory Bose system (8-speaker)	#25, 30	OEM4A	(R1, R6)	StarMod (99-02)		SDS1 with DOCKSM2 (D1)	REMOTE1.5 or GMSWI	Type 2	none
		Without factory Bose system (6-speaker)	#25 (99-00)	Interface not needed		StarMod (99-02)		SDS1 with DOCKSM2 (D1)	REMOTE1.5 or GMSWI	Type 1	G
	1994-97	All		OEM4A	(R1, R6)			SDS1 with DOCKSM2 (96-97) (D1)	REMOTE1.5 or GMSWI	Type 1	E
	1988	With factory amp switch on dashboard	#1	Interface not needed					REMOTE1.5 or GMSWI	Type 1	
Montana	1999-02	All without factory video system	#28, 25, 62	Interface not needed		StarMod		SDS1 with DOCKSM2 (D1)	REMOTE1.5 or GMSWI	Type 1	none
		All with factory video system	#31, 25, 62	#31		StarMod		SDS1 with DOCKSM2 (99) (D1)	REMOTE1.5 or GMSWI	Type 1	none
Sunfire	2000-02	Without Monsoon audio system. IMPORTANT!! - See Note #18 for an important warning concerning the airbags in this vehicle!	#18, #25	Interface not needed		StarMod (T1)				Type 1	none
		With Monsoon audio system. IMPORTANT!! - See Note #18 for an important warning concerning the airbags in this vehicle!	#18, #25	OEM4A	(R1, R6)			SDS1 with DOCKSM2 (96-99) (D1)		Type 1 or 2 (A6)	E
Transport	1999-00	All		Interface not needed		StarMod		SDS1 with DOCKSM2 (96-99) (D1)	REMOTE1.5 or GMSWI	Type 1	none
	1998	All without factory video system	#28, 25 (98)	Interface not needed				SDS1 with DOCKSM2 (D1)	REMOTE1.5 or GMSWI	Type 1	none
	1996-97	All with factory video system	#31	#31				SDS1 with DOCKSM2 (D1)	REMOTE1.5	Type 1	none
	1995	All		Interface not needed	(R8)		Bypass EQ		REMOTE1.5	Type 1	none
Vibe	2003	All		OEM4A	(R1, R6)					Type 1 or Type 2	none
PORSCHE											
All Models	2002	All with factory navigation		Call for details			Not Available			Type 1	
		All without factory navigation		Call for details			BKPORS1 (C8)			Type 1	
	1996-01			Call for details			BKPORS1 (C8)			Type 1	
	1989-95	All without equalizer, non-Berlin		Interface not needed	(R8)					Type 1	none
	1995	All with equalizer, non-Berlin radio		Bypass EQ	(R8)					Type 2 (LOC3 or LOCPREA)	D
		With Berlin radio		OEM4A	(R1, R6)					Type 2 (LOC3 or LOCPREA)	D
	1985-88	All with factory amplifiers		OEM4A	(R1, R6)					Type 2 (LOC3 or LOCPREA)	D
SAAB											
9-3	2001-02	Information forthcoming								Type 1 or Type 2	B
	1999-00	All		OEM2		StarMod					
9-5	2002	Information forthcoming				StarMod				Type 1	D
	1999-01	All		OEM2	(R5)		Clarion Direct			Type 1	D
	1992-98	All		OEM2			Clarion Direct			Type 1	D
All Models 900	1992-98	With factory CD changer controls								Type 1	BLH
	1989-98	All		Interface not needed	(R10)					Type 1	none
	1992-93	All									
	1986-91	All		Interface not needed	(R8)					Type 1	

KICKER000149

MAKE and MODEL	YEARS	VEHICLE (IDENTIFIER)/ QUALIFIER	INSTALL NOTES (pgs 44-52)	RECEIVER INSTALLATIONS use part #	RECEIVER FOOTNOTES	RETAIN ONSTAR use part #	CD CHANGER INTERFACE APPLICATIONS AND FOOTNOTES use part #	AUXILIARY INPUT INTERFACES use part #	STEERING WHEEL CONTROL INTERFACE APPLICATIONS and FOOTNOTES use part #	AMPLIFIER INSTALLATION APPLICATIONS and FOOTNOTES (Line output converter required)	FACTORY AMPLIFIER LOCATION
SATURN											
L Series	2001-02	Base and uplevel system	Interface not needed							Type 1	
		Advanced system	OEM4A	(R1, R6)						Type 1	
S Series	1996-02	Base and uplevel system	Interface not needed							Type 1	
		Advanced system	OEM4A	(R1, R6)						Type 1	
Vue	1991-95	All	Interface not needed							Type 1	
	2002	Base and uplevel system	Interface not needed							Type 1	
		Advanced system	OEM4A	(R1, R6)						Type 1	
SUBARU											
Brat	1982-87	All	FLT1	(R3)						Type 1	none
Forester	2002	Information forthcoming						SDS1 with DOOKSUBA (DI1)		
	1999-2001	Information forthcoming						SDS1 with DOOKSUBA (DI1)		
Impreza	2002	Information forthcoming						SDS1 with DOOKSUBA (DI1)	Type 1	none
	1999-2001	Information forthcoming	Interface not needed					SDS1 with DOOKSUBA (DI1)	Type 1	
Justy	1988	All	FLT1	(R3)						Type 1	none
Legacy	2002	Information forthcoming						SDS1 with DOOKSUBA (DI1)	Type 1	none
	1999-2001	Information forthcoming	Interface not needed					SDS1 with DOOKSUBA (DI1)	Type 1	none
Outback	2002	Information forthcoming						SDS1 with DOOKSUBA (DI1)	Type 1	none
	1999-2001	Information forthcoming	Interface not needed					SDS1 with DOOKSUBA (DI1)	Type 1	none
XT Coupe	1985-91	All	FLT1	(R3)						Type 1	none
WRX	2001-02	Information forthcoming						SDS1 with DOOKSUBA (DI1)	Type 1	none
SUZUKI											
Aero	2002	Information forthcoming							Type 1	none
All Models	1995-99	With Alpine factory radio	FLT1	(R3)		Alpine M-Bus Direct			Type 1	none
	1995-99	With Clarion factory radio	FLT1	(R3)		Clarion Direct			Type 1	none
Esteem	2000-02	Information forthcoming							Type 1	
Grand Vitara	2000-02	Information forthcoming	Interface not needed						Type 1	none
Samurai	1990-95	All	FLT1	(R3)					Type 1	none
Sidekick	1992-94	All	Interface not needed			Clarion Direct (with Clarion radio)			Type 1	
	1986-91	All	FLT1	(R2)					Type 1	none
Swift	2000-02	Information forthcoming						SDS1 with DOOKSUBA (DI1)	Type 1	
TOYOTA											
4-Runner	2002	Information forthcoming							Type 1	none
	2000	With 4-speaker system	Interface not needed			KNTOY1 or SNTOY1, PIOTOY1	SDS1 with DOOKTOY (DI1)	Type 1	
		With 6-speaker system	OEM4A	(R1, R6)		KNTOY1 or SNTOY1, PIOTOY1	SDS1 with DOOKTOY (DI1)	Type 1	B
	1999-01	With 6-speaker system	OEM4A	(R1, R6)		KNTOY1 or SNTOY1, PIOTOY1	SDS1 with DOOKTOY (DI1)	Type 1	C
		With 4-speaker system	Interface not needed	(R6)		KNTOY1 or SNTOY1, PIOTOY1	SDS1 with DOOKTOY (DI1)	Type 1	
	1991-98	With 55804 or 51703 radio	OEM4A	(R1, R6)		KNTOY1 or SNTOY1, PIOTOY1, 98 and up	SDS1 with DOOKTOY, 98 and up (DI1)	Type 2 (LOC8 or LOCPREA)	B
		Without 55804 or 51703 radio	Interface not needed	(R6)		KNTOY1 or SNTOY1, PIOTOY1, 98 and up	SDS1 with DOOKTOY, 98 and up (DI1)	Type 1	none
Avalon	2001-02	With 4- or 6-speaker system	OEM4A	(R1, R6)		KNTOY1 or SNTOY1, PIOTOY1	SDS1 with DOOKTOY (DI1)	Type 1 or 2	D
	1995-00	With T-speaker Premium system	OEM4A	(R1, R6)		KNTOY1 or SNTOY1, PIOTOY1, 98 and up	SDS1 with DOOKTOY, 98 and up (DI1)	Type 2 (LOC8 or LOCPREA)	C
		With T-speaker system	Interface not needed	(R6)		KNTOY1 or SNTOY1, PIOTOY1, 98 and up	SDS1 with DOOKTOY, 98 and up (DI1)	Type 1	none
Camry	2002	Information forthcoming								
	1997-01	With 6-speaker system	OEM4A	(R1, R6)		KNTOY1 or SNTOY1, PIOTOY1, 98 and up	SDS1 with DOOKTOY, 98 and up (DI1)	Type 1	C
		With 4-speaker system	Interface not needed	(R6)		KNTOY1 or SNTOY1, PIOTOY1, 98 and up	SDS1 with DOOKTOY, 98 and up (DI1)	Type 1	none
	1992-96	W/O 55804, 51703, 16804, A11708	Interface not needed	(R6)					Type 2 (LOC8 or LOCPREA)	D
Celica	2000-02	With 6-speaker non-amplified system	Interface not needed	(R1, R6)		KNTOY1 or SNTOY1, PIOTOY1	SDS1 with DOOKTOY (DI1)	Type 1	none
		With 6-speaker amplified system	OEM4A	(R1, R6)		KNTOY1 or SNTOY1, PIOTOY1	SDS1 with DOOKTOY (DI1)	Type 1 or 2	C
	1990-99	With 16804 or 11708 radios	OEM4A	(R1, R6)		KNTOY1 or SNTOY1, PIOTOY1, 98 and up	SDS1 with DOOKTOY, 98 and up (DI1)	Type 2 (LOC8 or LOCPREA)	D
		Without 16804 or 11708 radios	Interface not needed	(R8)		KNTOY1 or SNTOY1, PIOTOY1, 98 and up	SDS1 with DOOKTOY, 98 and up (DI1)	Type 1	none
Celica GT	1994-96	With 6- or 8-speaker system	OEM4A	(R1, R4, R6)					Type 1 or 2	B,J
Corolla	2002	Information forthcoming								
	1992-96	All	Interface not needed	(R8)					Type 1	none

9000-82

KICKER000150

Page 42 of 52

SOUNDGATE® 2002 Application Guide

MAKE and MODEL	YEARS	VEHICLE IDENTIFIER/ QUALIFIER	INSTALL NOTES (pps 44-52)	RECEIVER INSTALLATIONS use part #	RECEIVER FOOTNOTES	RETAIN ONSTAR use part #	CD CHANGER INTERFACE APPLICATIONS AND FOOTNOTES use part #	AUXILIARY INPUT INTERFACES use part #	STEERING WHEEL CONTROL INTERFACE APPLICATIONS and FOOTNOTES use part #	AMPLIFIER INSTALLATION APPLICATIONS and FOOTNOTES (Line output converter required)	FACTORY AMPLIFIER LOCATION
Echo	2000-02	All		Interface not needed			KINTOY1 or SINTOY1, PIOTOY1	SDS1 with DOCKTOY (D1)		Type 1	none
Highlander	2002	All		OEMHA	(R1, R6)		SDS1 with SINTOY1, PIOTOY1	SDS1 with DOCKTOY (D1)		Type 1 or 2	H
Landcruiser	2002	With Navigation system		OEMHA			SDS1 with SINTOY1, PIOTOY1	SDS1 with DOCKTOY (D1)		Type 1	Call for details
		With 7-speaker system		OEMHA			SDS1 with SINTOY1, PIOTOY1	SDS1 with DOCKTOY (D1)		Type 1 or 2	D
	1997-00	All with amplified system		LOCHA	(R7)		SDS1 with SINTOY1, PIOTOY1, 98 and up	SDS1 with DOCKTOY, 98 and up (D1)		Type 1 or 2	C
	1992-96	With radio #56804	#6	OEMHA	(R1, R6)					Type 1	C
		Without radio #56804		Interface not needed	(R6)					Type 1	none
Matrix	2002	Information forthcoming									
MR2	2000-02	All		Interface not needed			KINTOY1 or SINTOY1, PIOTOY1	SDS1 with SINTOY1, PIOTOY1		Type 1	none
	1992-95	With 56804 or 51703 radios		OEMHA	(R1, R6)					Type 2 (A1)	F, G
		Without 56804 or 51703 radios		Interface not needed	(R6)					Type 2 (A1)	none
Paseo	1992-95	All		Interface not needed	(R6)					Type 1	none
Pickup	1992-98	Standard Cab		OEMHA	(R6)		KINTOY1 or SINTOY1, PIOTOY1, 98 and up	SDS1 with DOCKTOY, 98 and up (D1)		Type 1	B
		Extended Cab		OEMHA	(R1, R6)		KINTOY1 or SINTOY1, PIOTOY1, 98 and up	SDS1 with DOCKTOY, 98 and up (D1)		Type 1 or 2	B
Previa	1997	All		OEMHA	(R1, R6)					Type 1 or 2	C, F sub
	1994-96	With 16805 or 11709 radio		Interface not needed	(R1, R6)					Type 1 or 2	C
		Without 16805 or 11709 radio		Interface not needed	(R6)					Type 1 or 2	none
	1991-93	All								Type 1	none
Prius	2002	Information forthcoming									
RAV4	1996-02	All		Interface not needed			KINTOY1 or SINTOY1, PIOTOY1, 98 and up	SDS1 with DOCKTOY, 98 and up (D1)		Type 1	none
Sequoia	2002	With 6-speaker system		OEMHA	(R1, R6)		KINTOY1 or SINTOY1, PIOTOY1	SDS1 with DOCKTOY (D1)		Type 1	B, K
		With 10-speaker system		Interface not needed			KINTOY1 or SINTOY1, PIOTOY1	SDS1 with DOCKTOY (D1)		Type 1 or 2	none
Sienna	2002	With 4-speaker system		OEMHA	(R1, R6)		KINTOY1 or SINTOY1, PIOTOY1	SDS1 with DOCKTOY (D1)		Type 1	B
		With 8-speaker system		OEMHA			KINTOY1 or SINTOY1, PIOTOY1	SDS1 with DOCKTOY (D1)		Type 1 or 2	B
	1999-01	With 4-speaker system		Interface not needed	(R1, R6)		KINTOY1 or SINTOY1, PIOTOY1	SDS1 with DOCKTOY (D1)		Type 1	B
		With 6-speaker system		OEMHA	(R1, R6)		KINTOY1 or SINTOY1, PIOTOY1	SDS1 with DOCKTOY (D1)		Type 1 or 2	B
Solara	2000-02	With 4 or 6-speaker system		Interface not needed			KINTOY1 or SINTOY1, PIOTOY1	SDS1 with DOCKTOY (D1)		Type 1	none
		With 7-speaker Premium system		OEMHA			KINTOY1 or SINTOY1, PIOTOY1	SDS1 with DOCKTOY (D1)		Type 1 or 2	D
	1999	With 6-speaker non-amplified system		Interface not needed			KINTOY1 or SINTOY1, PIOTOY1	SDS1 with DOCKTOY (D1)		Type 1 or 2	none
		With 6-speaker amplified system		OEMHA	(R1, R6)		KINTOY1 or SINTOY1, PIOTOY1	SDS1 with DOCKTOY (D1)		Type 1 or 2	D
Supra	1992-95	All		Interface not needed	(R1, R6)		KINTOY1 or SINTOY1, PIOTOY1, 98 and up	SDS1 with DOCKTOY, 98 and up (D1)		Type 1	D
Tercel	1996-98	All		OEMHA			KINTOY1 or SINTOY1, PIOTOY1	SDS1 with DOCKTOY (D1)		Type 1 or 2	none
Tundra	2001-02	With 6-speaker amplified system		Interface not needed	(R1, R6)		KINTOY1 or SINTOY1, PIOTOY1	SDS1 with DOCKTOY (D1)		Type 1	B
		With 6-speaker non-amplified system		Interface not needed	(R6)		KINTOY1 or SINTOY1, PIOTOY1, 98 and up	SDS1 with DOCKTOY, 98 and up (D1)		Type 1	none
T100/Tacoma	1993-02	All		Interface not needed							
VOLKSWAGEN											
New Beetle	1999-02	All		Interface not needed			ALWH1 or KWWH1 with VW03LR (PA), VW03LF (C3)	SDS1 with DOCKVWE, DOCKVWR (D1, D3) or AUDVW (D2)		Type 1	none
Cabrio	2002	Information forthcoming					Not Available			Type 1	
Eurovan	1999-02	All		Interface not needed			ALWH1 or KWWH1 with VW03LR (PA), VW03LF (C3)	SDS1 with DOCKVWE, DOCKVWR (D1, D3) or AUDVW (D2)		Type 1	none
Golf	2000-02	With Monsoon system	#17 - Call for info by fax	Interface not needed			ALWH1 or KWWH1 with VW03LR (PA), VW03LF (C3)	SDS1 with DOCKVWE, DOCKVWR (D1, D3) or AUDVW (D2)		Type 1	
		Without Monsoon system	Call for info by fax	Interface not needed			ALWH1 or KWWH1 with VW03LR (PA), VW03LF (C3)	SDS1 with DOCKVWE, DOCKVWR (D1, D3) or AUDVW (D2)		Type 1	
	1999	All		Interface not needed			ALWH1 or KWWH1 with VW03LR (PA), VW03LF (C3)	SDS1 with DOCKVWE, DOCKVWR (D1, D3) or AUDVW (D2)		Type 1	
	1998	With factory Bose system		OEMHA	(R1, R6)		Not Available			Type 1 or 2	
		Without factory Bose system		Interface not needed			ALWH1 or KWWH1 with VW03LR (PA), VW03LF (C3)	SDS1 with DOCKVWE, DOCKVWR (D1, D3) or AUDVW (D2)		Type 1	none
	1997	With factory Bose system		OEMHA	(R1, R6)		Not Available			Type 1 or 2	
		Without factory Bose system		Interface not needed			Not Available			Type 1	
		With Clarion factory radio					Clarion Direct			Type 1	
	1993-96	All		Interface not needed						Type 1	

MAKE and MODEL	YEARS	VEHICLE IDENTIFIER/ QUALIFIER	INSTALL NOTES (pgs 44-52)	RECEIVER INSTALLATIONS use part #	RECEIVER FOOTNOTES	RETAIN ONSTAR use part #	CD CHANGER INTERFACE APPLICATIONS AND FOOTNOTES use part #	AUXILIARY INPUT INTERFACES use part #	STEERING WHEEL CONTROL INTERFACE APPLICATIONS and FOOTNOTES use part #	AMPLIFIER INSTALLATION APPLICATIONS and FOOTNOTES (Line output converter required)	FACTORY AMPLIFIER LOCATION
Golf (cont.)	1998-92	Without Aktiv system		Interface not needed	(R6, R8)					Type 1	
	1985-91	With Aktiv system	#12	Interface not needed	(R3)					Type 1	—
	1987-98	Without Aktiv system		PWR1						Type 1	none
Jetta	2000-02	With Monsoon system	#17 - Call for info by fax	Interface not needed			ALVW1 or KNVW1 with VW3LR (C4)	SDS1 with DOCKVWF, DOCKVWR (D1, D3) or ALVW1 (D2)		Type 1	
		Without Monsoon system	Call for info by fax				ALVW1 or KNVW1 with VW3LR (C4), VW3LF (C3)	SDS1 with DOCKVWF, DOCKVWR (D1, D3) or ALVW1 (D2)		Type 1	
	1999	All		Interface not needed			ALVW1 or KNVW1 with VW3LR (C4), VW3LF (C3)	SDS1 with DOCKVWF, DOCKVWR (D1, D3) or ALVW1 (D2)		Type 1	
	1997-98	With factory Bose system		OEM4A	(R1, R6)		Not Available			Type 1 or 2	
		Without factory Bose system		Interface not needed			ALVW1 or KNVW1 with VW3LR (C4), VW3LF (C3)	SDS1 with DOCKVWF, DOCKVWR (D1, D3) or ALVW1 (D2) (98 only)		Type 1	
	1995-96	All		Interface not needed	(R6, R8)					Type 1	
	1991-92	With Aktiv system	#12	Interface not needed						Type 1	
Passat	1999-02	With Monsoon system	#17 - Call for info by fax	Interface not needed			ALVW1 or KNVW1 with VW3LR (C4), VW3LF (C3)	SDS1 with DOCKVWF, DOCKVWR (D1, D3) or ALVW1 (D2)		Type 1	—
		Without Monsoon system	Call for info by fax	Interface not needed			ALVW1 or KNVW1 with VW3LR (C4), VW3LF (C3)	SDS1 with DOCKVWF, DOCKVWR (D1, D3) or ALVW1 (D2)		Type 1	
	1998	With factory Bose system	Call for info by fax	Interface not needed	(R1, R6)		Factory only			Type 1 or 2	
		Without factory Bose system		OEM4A			ALVW1 or KNVW1 with VW3LR (C4), VW3LF (C3)	SDS1 with DOCKVWF, DOCKVWR (D1, D3)		Type 1	
	1995-97	All		Interface not needed	(R6, R8)					Type 1	
	1991-92	With Aktiv system	#12	Interface not needed						Type 1	
		Without Aktiv system		Interface not needed						Type 1	
VOLVO											
C70 Convertible/Coupe	2000-02	With AM/FM/CD, or 3-Disc changer, Dolby Pro. 10 speaker system		OEM4A	(R1, R6)		ALPMSTR with ALPMA1, (C3)	SDS1 Call for cable requirements (D1)		Type 1 or 2	400 watt
		With AM/FM/CD, or 3-Disc changer, Dolby Pro. 12 speaker system		OEM4A	(R1, R6)		ALPMSTR with ALPMA1, (C3)	SDS1 Call for cable requirements (D1)		Type 1 or 2	400 watt
	1998-99	With AM/FM/CD (std. Equipment)		OEM4A			ALPMSTR with ALPMA1, (C3)	SDS1 Call for cable requirements (D1)		Type 1	
		With Dolby Pro Logic		Interface not needed			Factory only	SDS1 Call for cable requirements (D1)		Type 1 or 2	
S40/S50	2001-02	With AM/FM/Cassette, 6-speaker		Interface not needed			Factory only	SDS1 Call for cable requirements (D1)		Type 1	none
		With AM/FM/Cassette/CD, 6-speaker		OEM4A			Factory only	SDS1 Call for cable requirements (D1)		Type 1 or 2	100 watt
S70	2000	With AM/FM/Cassette (std. Equipment)		Interface not needed			ALPMSTR with ALPMA1.1, (C3)	SDS1 Call for cable requirements (D1)		Type 1	none
70-Series	2000	All		Interface not needed			ALPMSTR with ALPMA1.1, (C3)	SDS1 Call for cable requirements (D1)		Type 1	
S80	1999-99	All		Interface not needed			ALPMSTR with ALPMA1.1, (C3)	SDS1 Call for cable requirements (D1)		Type 1	
	2001-02	With AM/FM/Cassette, 8-speaker		Interface not needed			Factory only	SDS1 Call for cable requirements (D1)		Type 1 or 2	none
	1999-00	With AM/FM/4-Disc changer/10-speaker		OEM4A	(R1, R6)		Factory only	SDS1 Call for cable requirements (D1)		Type 1 or 2	200 watt
		With 9-speaker system		OEM4A	(R1, R6)		Factory only	SDS1 Call for cable requirements (D1)		Type 1	D
	1998	With 8-speaker system		Interface not needed			Factory only	SDS1 Call for cable requirements (D1)		Type 1	none
S90	1998	All		OEM4A			ALPMSTR with ALPMA1, (C3)	SDS1 Call for cable requirements (D1)		Type 1	
V40	2000-02	With AM/FM/Cassette, 7-speaker		Interface not needed			Factory only	SDS1 Call for cable requirements (D1)		Type 1	none
		With AM/FM/Cassette/CD, 7-speaker		OEM4A	(R1, R6)		ALPMSTR with ALPMA1.1, (C3) *co only*	SDS1 Call for cable requirements (D1)		Type 1 or 2	200 watt
V70	2001-02	With AM/FM/Cassette, 6-speaker		Interface not needed			ALPMSTR with ALPMA1.1, (C3) *co only*	SDS1 Call for cable requirements (D1)		Type 1	none
	1998-00	All		OEM4A			Factory only			Type 1	
V70 T5	2001-02	With AM/FM/Cassette, 6-speaker		Interface not needed	(R1, R6)		Factory only			Type 1	none
		With AM/FM/4-Disc changer/Dolby Pro		OEM4A			Factory only			Type 1 or 2	200 watt
XC AWD wagon	2000	With AM/FM/CD, 6-speaker		Interface not needed			Factory only			Type 1	none
		With AM/FM/CD. 6 speaker		OEM4A	(R1, R6)		Factory only			Type 1 or 2	100 watt
		With AM/FM/4-Disc changer/Dolby Pro		OEM4A	(R1, R6)		ALPMSTR with ALPMA1.1, (C3)	SDS1 Call for cable requirements (D1)		Type 1 or 2	200 watt
All Models	1996-97	All			(R1, R6)		ALVOL1, (C3)			Type 1	
	1991-95	All								Type 1	

KICKER000152

Page 44 of 52

Note #1 - An Important Warning concerning General Motors Vehicle Installations:

General Motors vehicles (Non-Bose equipped) equipped with a dash-board-mounted subwoofer switch, or "subwoofer on" indicator light are equipped with a subwoofer amplifier. This amp draws its power from the power antenna lead of the factory radio. If installing an aftermarket receiver or CD player in one of these vehicles, ISOLATE THE POWER ANTENNA TRIP LEAD OF THE NEW HEAD UNIT FROM THE CAR'S POWER ANTENNA LEAD using a Bosch, or similar relay: not doing so will damage the new receiver's power antenna, or amplifier wake-up lead.

Note #2 - Explanation of Ford/Lincoln/Mercury warning:

In 1988 Ford Motor Company vehicles started using a 9-volt trip signal to wake-up their factory PSA-B (Premium Sound) amplifiers. In 1995 the voltage level of the amplifier wake-up lead dropped to 5 volts (Lexus also started using a 5-volt signal in 1996). Many aftermarket amplifiers will not wake-up with this low-voltage signal. Using the LOC2 or LOC3FR is a perfect solution/selling point (auto wake-up feature) for adding amplifiers to these vehicles. If not using the SoundGate LOC2 or LOC3FR, it will be necessary to use SoundGate TRIGLOHD to convert the 5, or 9-volt signal to 12 volts. Also, if adding an amplifier using the amplifier's high-level inputs, intersect the signal leads for the amplifier input after the factory amplifier, not at the radio. The radio only provides 660 millivolts of drive voltage to the factory amplifiers.

Note #3 - Ford's Distributed-Audio Systems (digital/analog LUX systems) and Lexus with Mark Levinson:

Ford Motor Company's Distributed-Audio Systems (DAS) are unique to 1995-98 "JBL" systems, and other Ford Motor Company vehicles as noted in this application guide. In these systems (and in Lexus, Mark Levinson) there are only two channels of audio transferred from the dashboard controls (FCU - front control unit), to the tuner/pre-amp/amplifier module (RCU - rear control unit) mounted in the rear of the vehicle. These two channels are converted to four inside the RCU and are controlled via digital commands from the FCU. Because there is no way to integrate four channels of audio into the input of the RCU, an interface cannot be made. If adding a new receiver or CD player to these vehicles, the entire factory system will have to be bypassed. A SoundGate LOCSUBA can be used to retain the factory subwoofer (where so equipped).

Note #4 – Ford head units with low voltage amplifier turn-on circuitry:

Ford head units with low voltage amplifier wake-up must be installed between the amplifier wake-up lead of the new receiver and the amp turn-on lead of this vehicle. Not doing so will result in distortion in the audio system.

Note #5 - 1989-92 Nissan Maximas W/O Bose Systems and 1993-95 Pathfinders with 4, 6, or 8-speaker systems:

Maxima: An amplifier located under the left side of the luggage compartment powers both rear speakers. This amplifier has floating inputs and

receives its signals from the speaker wire plug at the rear of the radio. The Brown, with black stripe, wire of the rear speaker plug is the turn-on wire for this amp. Connect this wire to the "amp-on" or "power antenna" wire of the new receiver.

Pathfinders: 4-speaker system - amplifier is mounted behind radio. Connect the Brown/white stripe wire of the rear speaker plug to the remote turn on lead of the new receiver. Connect high power speaker leads of new receiver direct to new harness.

6 or 8-speaker system - amplifiers are mounted behind right rear quarter trim. Connect Pink wire of factory rear speaker plug to remote trigger lead of new receiver. Connect high power speaker leads of new receiver direct to new harness. If installing a MOSFET deck, use an OEM4A.

Note #6 - 1990-94 Audi V8s with Bose systems:

An aftermarket receiver or CD player with high-voltage RCA outputs (4 or 5 volts) can be connected, and directly interfaced into the Audi V8s without using an interface. Simply solder RCA connectors to a Scosche, Metra, or similar Audi harness. Ground the car's common amplifier return to the rear of the new receiver.

Note #7 - 1989-92 Mazda RX7s with door speakers:

The door speakers in these cars are woofers that are powered by an amplifier that will be located under the driver's side of the dash (without passive shoulder belts), or under the passenger's side (with passive shoulder belts). The amp can be bypassed by simply unplugging the input and output connectors at the amp, and then plugging the two connectors into one another.

Note #8 - 1991-96 Toyota Landcruisers with six or eight-speaker systems:

The amplifier for these systems is located to the right of the glovebox. An aftermarket harness plugged into the output connector of this amp will bypass the amp. If the vehicle is equipped with the factory subs they will continue to operate.

Note #9 - 1984 General Motors vehicles with Bose systems:

In late 1984 General Motors made a change to the Bose systems in their automobiles. The change consisted of switching from a 4-channel, balanced receiver output, to a 4-channel, common-grounded receiver output (WARNING! This is not the same type of output as an aftermarket low-power, common-grounded output). General Motors does not have any records indicating exactly when these changes were made (as referenced to automobile serial numbers). When using a SoundGate #GMB2 or OEM4A in any 1984 automobile (as noted in this application guide) you must inspect the wiring harness at the rear of the factory receiver. You will see the speaker harnesses (blue and white connectors) wired in one of two ways. If six wires enter each connector harness an aftermarket high-power receiver can be wired directly to the Bose amplifiers via the car's harness. If the car you're working on has five wires entering each connector, you will need to use the SoundGate #GMB2 or OEM4A for any aftermarket receiver or CD player installation.

Note #10 – Reserved for future use.

Note #11 - 1990 - 93 Chevrolet Corvette factory service bulletin:

General Motors has issued a service bulletin for aftermarket receivers or CD players installed in 1990-93 Corvettes. Please call SoundGate at 307-674-4707 for a copy of the bulletin if performing this installation.

Note #12 - 1989 - 90 Volkswagens with "Aktiv" audio systems:

The wiring of the Volkswagen "Aktiv" systems changed in the 1989-1990 model years. In 1989 Jettas with VIN #s starting with, and higher than 1G KW400001, and 1990 Golfs and Jettas made in Mexico with VIN #'s starting with 1G LM007400, the car's speaker wiring changed to a five-wire, common-negative-type at the radio harness. In these instances the amplifier in the door powers all six outputs in the car, and the pre-amp outputs of a new receiver can be used to interface. In cars built before the above years and VIN numbers, the dash and rear speakers were powered off of the radio, and only the door speakers were amplified by the amplifier located in each door. In these applications the speaker connector at the dash will have eight wires, and the speaker leads of the new receiver can be used for interfacing. Jettas with Bose systems: SoundGate dealers have properly interfaced new head units into the Jetta Bose systems by simply using an aftermarket harness wired off of the new receiver's speaker output leads. One dealer reported a slight turn and turn off pop, but this was probably a result of a bias problem in the outputs of the new receiver. A second dealer reported that there were no turn on or turn off pops, and that the gain structure was correct.

Note #13 – Reserved for future use.

Note #14 - 1996 - 2002 Ford Taurus and Mercury Sable:

Ford Tauruses, Mercury Sables, and Ford Escorts are equipped with radios termed "ICP" by Ford. Replacing these oval radios will require a 'like-designed' kit available through Scosche or Metra. The Taurus and Sable, in addition, will require a wiring harness to extend the new receiver's speaker wiring to the amplifier/tuner module located in the trunk (in front of spare tire in wagons).

Note #15 – Land Rover audio systems:

Land Rover audio systems will be found to be wired in one of two ways. One type uses an eight-wire speaker harness. The second uses a five-wire harness at the radio location. Both of these systems are 'common-grounded'. To properly interface a new receiver into these vehicles, use a new receiver that incorporates high-power speaker level outputs. Connect these outputs to a SoundGate OEM4A for proper signal integration into the factory amplifiers. All factory speakers and amplifiers will work as with the factory radio.

Note #16 – Headliner speakers in Acura Vigor:

The two-channel amplifier located behind the factory radio on the non-Bose-equipped Acura Vigors powers the overhead speakers located in the headliner. Replacing the factory radio will result in the loss of these speakers. An RCA output from the new radio can be used to drive the

Page 45 of 52

input of this amplifier. The balance of the car's speakers are powered directly off of the factory, or new radio's speaker-level outputs.

Note #17 - Chevrolet Camaros, Pontiac Firebirds and Volkswagens with Monsoon systems:

Firebirds, Camaros and Volkswagens equipped with Monsoon audio systems are easily integrated with. When replacing the factory radio, simply wire all eight speaker leads of the new receiver to a Metra or Scosche harness and simply plug the harness into the car. Attempting to use an interface in these vehicles will result in the factory amplifier not turning on. The factory amplifier uses current sensing as a turn-on signal. If adding an aftermarket amplifier to the system, a SoundGate trigger device (TRIGSPKR) will be required to provide the new amplifier with a wake-up lead. We do not recommend using radios with high-power "Mosfet" outputs in these vehicles.

Note #18 - Pontiac Sunfire and Chevrolet Cavalier airbag warning:
1999 thru 2002 model year Chevrolet Cavaliers and 1999 thru 2002 Pontiac Sunfires are subject to a very important warning from General Motors. GM service information states that both airbags must be deactivated before attempting radio removal. Unhooking the battery does not accomplish deactivation. Call SoundGate at 307-674-4707, and we will fax you the airbag deactivation instructions. Instructions differ between 1999 thru 2000 model year vehicles, and 2001 thru 2002 model year cars.

Note #19 - Hiss problems using FM modulators on 1999 thru 2002 model year General Motors cars:

This vehicle is equipped with General Motors' "Adaptive Reception System". This system consists of a front windshield antenna, and a rear window antenna. Both antennas feed their respective signals into a Radio Antenna Module (antenna amplifier). The Radio Antenna Module has a variable gain feature that can be adjusted at a General Motors dealership using a scan tool. This adjustment serves to maximize the radio reception for rural, or urban areas (similar to a distance/local switch). **WARNING!** If you are connecting an FM-modulated CD changer to this vehicle, you may experience a large amount of hiss when listening to the CD changer. If this is the case, the vehicle will need to be taken to a dealership and the Radio Antenna Module will need to be adjusted to the urban (city) setting.

Note #20 - Lack of ignition leads in 1999 thru 2002 model year GM vehicles:

The harness connector for the factory radio in this vehicle does not contain an ignition lead. An ignition source for the new receiver or CD player will have to be obtained from a separate connector at the dash location.

Note #21 - Factory amps using current sensing for "wake-up" signals:

The factory amplifier in this vehicle utilizes current-sensing for its turn-on (wake-up) signal. Using an interface in this vehicle will prevent the factory amplifier from turning on.

Note #22 - General Motors vehicles with remote-mounted tuner/amplifier boxes:

When adding a new receiver to this vehicle, the interface will not be used at the radio location in the dashboard. In this vehicle the radio unit in the dashboard is simply a keypad. Two channels of audio exit this unit and are input into a Radio Interface Module that is located in a secondary location in the vehicle. The Radio Interface Module converts the two channels of audio into four channels. The tuner for the vehicle is also part of this Radio Interface Module. If adding a new receiver to this vehicle an antenna extension cable will need to be run from the Radio Interface Module location to the dashboard. The speaker leads will also have to be extended from the dashboard to the Radio Interface Module.

The Radio Interface Module locations are:
1. Cadillac Catera - beneath rear deck
2. Cadillac Seville and Eldorado - right rear quarter panel beside power antenna.
3. 1989 – 91 Chevrolet Corvette - above the passenger's legs behind the dashboard.
4. 1992 – 96 Corvette - right rear storage compartment behind the passenger seat.
5. 1989-96 Cadillac Fleetwood/Brougham - In dashboard left of radio.

Note #23 - Factory amplifiers using active crossovers:
The amplifier(s) in this vehicle contain active crossover networks. If replacing the factory amplifier, new crossovers will have to be added to each pair of speaker leads to prevent damage to the midrange and tweeter drivers.

Note #24 - General Motors vehicles with amplifiers integrated into the Class 2 serial data-bus:

The amplifier in this vehicle is electrically integrated into the rest of the vehicle and cannot be removed unless the entire sound system is replaced. This factory amplifier also uses built-in, active crossover networks. If adding full-range amplifiers to this vehicle, the outputs of the factory amp need to be summed into a full-range signal using SoundGate LOCHVA line output converters. Call SoundGate at 307-674-4707 for details.

Note #25 - General Motors "On-Star" system:

This vehicle may be equipped with General Motors' "OnStar" system. If replacing the factory radio, the OnStar system will not operate unless a SoundGate "STARMOD" interface is used . The STARMOD is needed to ensure un-interrupted incoming messaging from the OnStar center. Eliminating or affecting the operation of the OnStar system creates serious liability concerns for the Mobile Electronics Industry. Please call SoundGate at 307-674-4707 for additional details.

Note #26 - Chime Warnings in certain General Motors vehicles using the Class 2 serial data-bus:

This vehicle utilizes General Motor's Class 2 Serial Data Bus. In this vehicle the warning chimes for the entire vehicle (seat belt, headlights on, door ajar, etc.) are transmitted through the factory radio or amplifier and then through the car's speakers. Removing the factory radio or amplifier (if equipped) will disable these chimes. SoundGate will have a chime interface module in the near future to bring these chime functions back. Until this module becomes available it is a liability to the installing dealer if the chimes are disabled. We can provide a bypass procedure to make the chimes work, until the new interface is introduced. Please call for details.

Note #27 - General Motors ignition leads obtained via park lamp circuit:

This vehicle obtains its factory ignition lead voltage via the park lamp circuit. A circuit inside the radio senses voltage on the park lamp circuit, to instruct the radio that the car is in a started condition, or that the key is in the on position.

- 2000-02 Impala. Park Lamp circuit is "B4" pin (gray wire) of 24-pin connector.

- 2000-02 Monte Carlo. Park Lamp circuit is "B4" pin (gray wire) of 24-pin connector.

Note #28 - General Motors sport utility vehicles with rear-seat audio control panels:

When replacing the factory radios in General Motors utility vehicles with rear-seat audio controls, the new radio will be wired into the audio path using the new receiver's high power speaker leads. The rear seat headphone jacks will continue to operate with the installation of the aftermarket receiver.

Note #29 - Factory amplifier in Oldsmobile Alero:
According to General Motors schematics for this vehicle, the rear speakers are a 3-voice-coil design. Speaker size is 6 x 9. We assume that dual voice coils are used for the 6 x 9 driver and that the third set of voice coils is used for direct feed to a coaxial tweeter. The factory amplifier (located on driver's side rear quarter panel) feeds only the second set of voice coils on the 6 x 9's.

Note #30 - Bi-amplified factory speakers:
One or more pairs of speakers in this vehicle may be bi-amplified. If replacing with aftermarket speakers, individual tweeter/midrange, or tweeter/woofer combinations should be used as a replacement.

Note #31 - General Motors minivans with factory video systems:
General Motors minivans equipped with the factory video system for rear-seat passengers use a unique head unit, along with an "auxiliary video module". This factory receiver/cd/cassette allows front seat passengers to listen to one source (e.g. cassette) while rear seat passengers listen to either the same source, or to the video system either through the rear speakers, or through headphones. Indications are that the factory radio uses an 'output level control" to adjust the output level of the rear audio signals during rear-seat headphone use. Due to the

unique design of, and integration of the factory radio into, the video system, please call SoundGate at 307-674-4707 for further information on how to integrate an aftermarket receiver/CD player into this vehicle. Allow four to five extra hours labor for this installation.

Note #32 - 2000-2002 Pontiac Bonneville, 2001-2002 Oldsmobile Aurora, 2000-2002 Buick LeSabre:

These vehicles present many obstacles to installers. These include:
1. A ribbon type cable that plugs into the rear of the radio, instead of a standard molex-type connector. This looks like a computer-type ribbon cable, but cannot be soldered into, or modified.
2. General Motors Class 2 serial data-bus - This data bus connects 15 different modules within the vehicle, including the factory radio and factory CD changer. Disconnecting more than one module from the data-bus causes serious operational problems in this vehicle. If putting a new receiver in this vehicle, keep the factory radio plugged into the factory cable and remote-mount the factory radio in a hidden location. Speaker/amplifier wires can be intersected at the driver's side kickpanel location.

Note #33 - General Motors vehicles with dual-voice coil rear speakers:

This vehicle utilizes a separate amplifier, which feeds a second set of voice coils on the rear speakers. Some General Motors vehicles will include a 'bass gain' control slide switch on the dashboard, which allows driver control of bass boost. Replacement speakers must be dual-voice-coil design to retain this feature.

Note #34 - Vehicles with 2-ohm or 10-ohm speakers:
These vehicles use speakers that are not 4-ohm impedance.
1. 1996-98 Pontiac Grand AM and 1996-98 Buick Skylark w/4-speaker system: All speakers 10-ohm
2. 1996-98 Pontiac Grand AM, 1996-98 Buick Skylark, and 1997-99 Oldsmobile Achieva w/component front speakers. Front speakers are parallel and present a 2-ohm load. Rear speakers are 10-ohm.
3. 1997-02 Pontiac Firebirds and Chevrolet Camaros with non-Monsoon system. Rear speakers are 10-ohm. With Monsoon system: Subwoofers are 2-ohm, front midranges are 2-ohm.
4. 1989-93 Infiniti Q45 With Bose: Rear speakers are 2-ohm

Note #35 - 2000-2002 model year BMWs with Motorola StarTAC cellular phone wiring:

The 2000-2002 model-year BMW 5-Series (starting with January, 2000 production), are pre-wired for a Motorola StarTAC cellular phone. The power connector for this phone is identical to 3-pin round/power/data-bus lead for the CD changer. The 3-pin CD changer plug has the brown ground lead in the #1 pin location (refer to numbers molded into plug). The cellular phone connector has the brown ground lead in the #2 pin location.

---

3. Complete the work/installation on the vehicle.
4. After work is completed, once again sit in the driver's seat and repeat steps #1 and #2.
5. **IMPORTANT!** The airbag warning indicator MUST flash exactly the same number of times as it did before the installation was begun. If the airbag indicator flashes a different number of times as during the pre-installation test, do not release the vehicle to the customer. Immediately contact your local GM dealership for the procedure necessary to ensure proper airbag operation. SoundGate strongly recommends that this procedure be added to any pre-installation inspection forms that are currently used by the installing dealer. The customer should be present for the pre-installation test (steps #1 and #2), then should also witness the post-installation test confirming the correct airbag indicator flash sequence. The customer should sign this form, verifying this test. If a dealership is presently not using pre-installation inspection forms, we strongly recommend this procedure be started.

Note #40 - Factory CD Changer signals input directly into factory amplifiers:

In these vehicles, the factory CD changer signal is input directly into the factory amplifier. Removing, or replacing the factory amplifier will disable use of the factory changer. Aftermarket amplifiers can be added to the system through the use of SoundGate LOCHVAs, used after the factory amplifier. Call SoundGate Technical Support at 307-674-4707 for details.

Note #41 - 1999-2002 Mercedes S-Class:

Mercedes S-Class vehicles use a fiber optic audio link between the factory radio and factory amplifier. Depending on the options present on the vehicle, replacement of the radio may not be possible. Please call SoundGate at 307-674-4707 for specific details on the vehicle you are working with.

Note #42 - 1999-2000 Mazda Millenia:

These model year Millenias present an operating condition on the amplifier turn-on lead that can damage aftermarket receivers and CD players. As the volume of the radio is increased, the current draw on the amplifier turn-on lead increases. This current draw will increase to where it either shuts down the turn-on lead of the aftermarket receiver, or damages it. We recommend isolating the turn-on lead of the vehicle through a relay to prevent damage to the new head unit.

Note #43 - 1990-94 BMW radio button sequence for determining changer use:

1. Does radio have a "mode" button in upper left hand corner? If so, continue to step 2. If not, stop.
2. With engine off, turn the ignition key to the "run" position.
3. Make sure radio is off (For 1992 - 94 models turn radio on).
4. While holding "program" button, press "-" side of "mode" button. Display will show either "Pioneer", or "Alpine". If "Pioneer" displayed, old "M-bus" style Pioneer changer will plug in. Important - pins #12 and #13 are switched in the factory BMW cable. Either switch these two pins at the changer end of the factory cable, or use the 18' cable packaged with the Pioneer changer and plug the cable directly into the back of the factory radio.

Note #36 - 1998 thru 2002 Fords with factory subwoofer:

The listed Ford Motor Company vehicles with factory subwoofers utilize a separate subwoofer connector harness directly at the rear of the factory radio. This 8-pin connector directly feeds the subwoofer amplifier. If replacing the factory receiver in one of these vehicles, please call SoundGate tech. support at 307-674-4707 for information on how to retain use of the factory subwoofer with an aftermarket receiver. A SoundGate LOCSUBA will be required to make this conversion work correctly.

Note #37 - General Motors Bose systems turn-on relays:

General Motors vehicles equipped with Bose systems utilize a relay to wake-up the Bose amplifiers, and to activate the power antenna. This relay typically will start malfunctioning after 5 or 6 years of use. If customer complains of his/her Bose system frequently shutting down, replace relay (factory part# 1407-8902).

Note #38 - General Motors vehicles which use the factory radio to program various functions throughout the vehicle:

The factory radio in these vehicles is used to program various convenience and security functions within the vehicle. If the factory radio is removed or replaced, the ability to set these functions will be disabled. At press time, SoundGate did not have information on whether removing the radio causes other operational problems within the vehicle.

Note #39 - IMPORTANT! - All 1999 thru 2002 model year General Motors vehicles:

General Motors has issued an airbag warning document (#645519) warning of a potential, very serious problem when disconnecting and reconnecting factory radios in the above model year vehicles. Paraphrasing the GM document:"Class 2 Serial Data Communication allows control modules... the instrument panel cluster, *the radio...*to exchange information.... Typically, the PCM broadcasts a portion of the VIN, while another module broadcasts another portion of the VIN. This information is compared by the SDM in order to ensure installation is in the correct vehicle. When the broadcast VIN does not match the VIN stored within the SDM, the following can occur:

* DTC B1001 Option Configuration Error is set and *deployment of the airbags is inhibited ....*

SoundGate's interpretation of this bulletin is that a removal of the factory radio, or possibly just unplugging it and then cycling the ignition key can cause this error code to be set. A disabling of the airbag system is, of course, a legal liability for those involved in causing this action.

To ensure that the airbag system in the above listed cars is not disabled during any work that is performed on these vehicles, please follow this procedure:

1. Before ANY work is performed, sit in the drivers seat and turn the vehicle off.
2. Turn the ignition key to the 'ON' position. Count the number of times that the airbag indicator on the dashboard flashes (GM states the indicator should flash 7 times). If you are unsure of the number of flashes, repeat the test.

Note #44 - Ford vehicles equipped with high-pass output factory radios:

These vehicles use an internally-amplified radio that utilizes high-pass output, high-power speaker leads. The radio is equipped with an 8-pin connector that outputs low-pass audio signals to the factory subwoofer. If replacing the factory radio, use a SoundGate LOCSUBA to keep the factory subwoofer operational. Contact SoundGate for a wiring diagram for this connector.

Note #45 – 2001-02 Daimler Chrysler vehicles with Infinity sound systems:

These vehicles utilize a digital signal to control the turn-on and turn-off of the factory amplifier. When replacing a factory radio, this digital trip function will have to be bypassed. Please call SoundGate at 307-674-4707 for details.

Note #46 - 1999 thru 2001 Volkswagens:

These vehicles utilize a digital-bus electrical system. It has been observed that numerous systems within the vehicle can operate improperly under certain circumstances. In one instance a burned-out turn signal bulb caused dashboards lights to flash erratically, caused headlights to turn on and off by themselves, and caused the headlights to turn on when the turn signals were activated. If you note any type of improper electrical system operation in these vehicles, make certain the customer takes the vehicle to a Volkswagen dealer for repair before beginning any type of audio or video work in the car.

Note #47 – 2001-02 Lincoln Continental:

These vehicles utilize a "virtual image" dashboard that displays information which includes radio operation information. The SCP databus used in this car is similar in operation to General Motors Class 2 Serial data bus. If factory radio is removed the display of radio information on the dashboard will be lost. The Ford Motor Company "Rescu" system operates through the factory radio and its similar in operation to the General Motors "OnStar" system.

Note #48 – 2001-02 Lincoln LS:

These cars are equipped with Lincoln's "Rescu" system (similar to General Motors "Onstar"). Removing the factory radio disables "Rescu". The battery for this vehicle is in the right rear corner of the trunk.

Note #49 – 2001-02 Ford F-Series Pickups:

Quad-cab versions of these vehicles may be equipped with a rear-seat entertainment system. This system uses an FM modulator to input its signal into the factory audio system.

Note #50 - General Motors vehicles with dual-source factory radios, and rear-seat audio controls (RSA):

The radios in these vehicles allow the rear seat passengers to listen to one source (AM/FM, or cassette), while the front seat passengers listen to a second, different music source. For example, the rear seat passengers may listen to the cassette or CD through headphones while the driver listens to the radio through the front speakers. The rear seat

passengers have control of the volume for each headphone. The primary radio controls always override the rear seat audio controls. The rear seat audio functions even when the radio is turned off.

Note #51 - Power Supply and Grounding Warning for all 1996 thru 2002 General Motors vehicles with Class 2 Serial Data Bus when installing aftermarket amplifiers:

When installing amplifiers in these vehicles it is strongly recommended that grounding points for the amplifier(s) be kept away from any factory electrical components (body computers), and/or wiring. GM service personnel have reported to us that amplifiers added to these vehicles should only be grounded at the battery. Not doing so can cause diagnostic trouble codes to be set within the Class 2 data bus, and can possibly cause damage to factory "PCM" module. Likewise, it is recommended that the B+ power supply for these amps only be taken directly from the battery. Taking battery power from existing wiring can cause excessive current draw, and cause the setting of diagnostic trouble codes (DTC's).

Note #53 - Security systems in 3-Series BMWs:

If removing the factory radio in 3-series BMWs, check for the presence of a 1 1/2" long rear support stud on the rear of the radio. If the vehicle is equipped with a factory security system, this rear support stud acts as a trip mechanism for the radio theft feature of the security system. Removal of the factory radio in these vehicles will disable the remote door lock function of the security system. To remedy this, look for and locate the microswitch that is located behind the rear support bracket of the factory radio. Disconnect the electrical connector that is attached to this microswitch and the door locks will function normally.

Note #54 - Mercedes vehicles with fiber-optic systems:

Replacing the factory radios in these vehicles must be done on a case-by-case basis. Different options within the vehicle will determine how the integration or replacement is accomplished. If the factory cellular phone is present the factory radio cannot be replaced. If the "Comand" system is present, the factory radio cannot be replaced.

Note #55- Honda Civics with factory radio security system:

The security system in these vehicles is part of the factory radio. When replacing the factory radio perform the following steps:

1. Remove factory radio from dash. The faceplate of the factory radio can be removed - disconnecting a flat ribbon cable allows this.
2. Plug the security harness back into the factory radio and slide the radio back into the dash opening. Let the back of the radio slide towards the bottom of the dash. Keep lowering radio towards lower edge behind dashboard.
3. Two holes are present at the lower portion of the dashboard, on the rear side of the dash that line up with the rear support holes of the radio. Secure the radio to the dash using these holes and the rear support bracket of the radio.

Note #56 - 2002 Envoys, Jimmys and Trailblazers:

The Bose audio systems in these vehicles are a distributed audio

system. The radio outputs a digital signal to the amplifier telling the amplifier to adjust volume, fade, balance, etc. There are four channels of audio out of the radio: there are four channels so that the rear seat passengers can listen to one source while the front seat occupants listen to a second source. If adding a new radio, an OEM4A can be used to input signal into the factory amplifier. If the factory radio is left in the vehicle using an extension harness, the steering wheel audio controls (volume) will continue to operate through the amplifier. If equipped with factory Bose systems, adding amplifiers must be done after the factory amplifier using Type 1 LOC's. LOC's cannot be added at the radio because the radio has a fixed output level.

Note #57 – The factory security control unit in this vehicle feeds 12 volts to the radio via the Yellow/Red wire. Connect this wire to ground via a 50 Kohm resistor.

Note #58 – The front speakers in this vehicle are powered directly from the factory radio. The rear speakers are powered from an amplifier mounted beneath the rear deck. Bypassing this amplifier requires running new wires from radio location to rear deck.

Note #59 – This Infiniti vehicle utilizes a distributed sound system. The tuner and pre-amp are located within the amplifier. Any replacement of the factory radio will require a complete bypass of the factory sound system.

Note #60 – 1998 and newer Volkswagens will use one of two wiring methods between the factory radio and factory amplifier: integrating new receivers or amplifiers into these vehicles does not require an interface. Please call SoundGate at 307-674-4707 for a faxable document on how to properly interface with these vehicles.

Note #61 – Factory radios with high-power, and low-level outputs: The factory radio in this vehicle feeds low-level audio signals to the subwoofer amplifier. The factory radio powers the balance of speakers in the vehicle via high power outputs.

Note #62 – General Motors OnStar systems integrated into Class 2 Serial databus: Communications between, and control of, the audio and OnStar systems takes place over the Class 2 serial databus. Factory radio must remain in the vehicle and connected to power, ground, and data wires in factory harness for Onstar to function properly.

Note #63 – General Motors vehicles with OnStar, and use of 'ribbon-type' cable at radio: Communications between, and control of, the audio and OnStar systems takes place over the Class 2 serial databus. Factory radio wiring harness is a ribbon cable and cannot be tapped, spliced, or extended.

Note #64 – The Bose system in this vehicle uses a 2-channel front output, a mono rear output, and a center-channel output. If you want to keep the center channel speaker, use LOCHVA's, or LOC4's at the radio. If not, use LOCB's at the radio.

Note #65 – Due to the physical and digital integration of the factory radio/navigation system in this vehicle, radio replacement is not recommended. For sound quality improvements we recommend replacing factory speakers and adding additional amplification.

Note #66 - Lincoln LS is equipped with amplified tweeters and subwoofers. Main speakers are powered from head unit. Jaguar S Type is equipped with amplified center channel speakers and subwoofers. These vehicles have an 8-pin connector on the rear of the radio with 4 wires feeding the center channel or tweeter amplifier and 4 wires feed-ing the subwoofer amplifier. If adding a new receiver, a SoundGate LOCHVA will be required to properly interface the new receiver to the center channel/tweeter amplifier. An LOCSUBA will be required to properly interface the new receiver to the subwoofer amplifier. Call SoundGate technical support at 307-674-4707 for more information

FOOTNOTES RELATED TO COLUMNS IN APPLICATION GUIDE:

RECEIVER FOOTNOTES:

R1 - This interface is designed to be connected to the new receiver's speaker lead outputs (not RCA).

R2 - System is common-grounded front and rear.

R3 - System is common-grounded left and right.

R4 - System is common-grounded on front channels only.

R5 - System is common-grounded on rear channels only.

R6 - This interface retains the use of the factory amplifier(s).

R7 - Use high voltage (2 volts or greater) RCA outputs from the new receiver to connect to the wiring harness of this car.

R8 - Use speaker level outputs from the new receiver to connect to the wiring harness of this car.

R9 - We recommend not replacing the receiver in this vehicle.

R10 - Call SoundGate for details concerning head unit replacements in this vehicle (307-674-4707)

R11 - If installing high power MOSFET-output receivers, use OEM4A.

CD CHANGER INTERFACE FOOTNOTES:

C1 - Use of a 10-Disc CD changer in this vehicle will not allow direct access to discs 7 thru 10. Access to discs 1 thru 6 is as with factory changer. Radio will sequentially play discs 7 thru 10 after finishing disc 6.

C3 - This interface plugs into the rear of the factory radio.

C4 - This interface plugs into the factory changer cable in the rear of the vehicle.

C5 – Some 99 and 2000 Volkswagens and Audis may require the car's computer/radio be reprogrammed to accept a CD changer (factory or aftermarket). If installing a CD changer into one of these vehicles, please contact your local dealer for costs associated with this reprogramming procedure.

C6 – If the vehicle is equipped with a factory navigation system, an aftermarket CD changer cannot be added at this time.

C7 – This interface plugs into the tuner box located in the rear of the vehicle.

C8 – Radio must have "disc up" and "disc down" on the #1 and #5 presets. If radio has 6 presets and "Direct Disc Access" above the presets, you can only use a factory changer.

AUXILIARY INPUT INTERFACE FOOTNOTES:

D1 – A factory CD changer must be present to use the SDS1 with the cable shown. If an aftermarket changer is present, see page 5 for a list of cables for aftermarket changers.

D2 – This interface uses the CD changer input on the factory audio system. A CD changer cannot be used with this interface.

D3 – DOCVWR "Tee's" into the factory changer wiring in the trunk. DOCVWF "Tee's" into the changer wiring behind the radio.

D4 – AUXFORD interface requires FC1, FC2, FC3, FC4 or FC5 cable (sold separately) to complete installation. See the CD changer application section to determine which interface cable is required for your particular vehicle.

D5 – A CD changer must be used in conjunction with this interface. For Discovery, and RVRCBLD cable is required to complete the installation. Ffor Freelander, an RVRCBLF cable is required to complete the installation.

D6 - This interface uses the CD changer input wiring. A CD changer cannot be used when this interface is used.

D7 - AUXCHRY interface requires additional cable to complete the installation.
98-01 - "rounded-style radio" use CRCBLDIN2
2002 - "rounded-style radio" use CRCBLSQ

ONSTAR-RELATED FOOTNOTES:

T1 – The OnStar system in this vehicle communicates with the radio via the Class 2 serial data bus. The factory radio must remain in the vehicle and connected to power, ground, and data for the OnStar system to function properly. A SoundGate AVM1 may be required to boost the OnStar audio to an appropriate level to ensure proper operation of the STARMOD interface.

T2 - SoundGate AVM1 must be used with STARMOD interface module

STEERING WHEEL CONTROL FOOTNOTES:

S1 - This car is also equipped with steering-wheel mounted temperature and/or fan-speed controls. These functions are not translated with the use of this interface.

S2 - Call SoundGate for details.

KICKER000157

Page 49 of 52

AMPLIFIER LOCATOR

A - Behind Driver's side of dash

B - Behind or below factory radio

C - Behind passenger's side of dash

D - Below or to right of passenger's seat

E - Attached to rear side of back seat, or to bottom or rear deck

F - Behind right side trunk trim, or behind right rear quarterpanel

G - Behind left side trunk trim, or behind left rear quarterpanel

H - Beneath rear seat

I - At each speaker

J - Beneath Driver's seat

K - Beneath Center Console

L - Beneath carpet and/or floorpan of rear storage area, in center of vehicle

M - Under passenger's side footwell

N - Passenger's side kickpanel area

---

amplifier notes and locations

Type 1 Installations:

Type 1 interfaces are designed to be connected to the leads of an existing pair of speakers, or can be used to replace the speakers entirely. If the factory system is amplified, Type 1 interfaces are to be installed only after the factory amplifier.

Type 2 Installations:

Type 2 interfaces are specifically designed for use with factory radios that feed into factory amplifiers. They are designed to be connected either directly at the *output of the factory radio*, or at the *INPUT of the factory amplifier.* They can be used to simply add a subwoofer amp, or to replace the factory amplifiers.

TYPE 1 Installs	Use SoundGate part #'s		
	LOC4	LOCHV4A	LOCA
	LOCHVIA	LOCSUBA	LOC2/3FR

TYPE 2 Installs	Use SoundGate part #'s
	LOCB
	LOCPREA

Adding an Amplifier/s:

A1 - Use MITSAMP to replace the factory amplifier. To add an amplifier, use Type 1 interface and connect after the factory amplifier (speaker level).

A2 - Amplifiers can only be added after the factory amplifier.

A5 - Use of SoundGate TRIGLOHD is required to create wake-up lead.

A6 - Use of SoundGate TRIGSPKR is required to create wake-up lead.

Helpful Hints:

It should be possible to accomplish any amplifier installation with a complete absence of alternator whine. Finding the cause of alternator whine is a logical, step-by-step procedure. The first step is making sure system gains are properly set. For the complete procedure please call SoundGate at 307-674-4707 for a bulletin outlining the how-to's.

KICKER000158

Page 50 of 52

SoundGate's Ford CD changer Interface program made easy...

Choose the cable required for your vehicle, then combine it with any Alpine, Kenwood, Pioneer or Sony Interface for a plug-and-play CD changer installation.
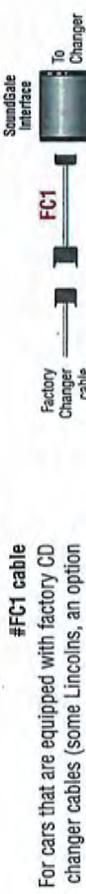
#FC1 cable

For cars that are equipped with factory CD changer cables (some Lincolns, an option on Windstars). **#FC1**
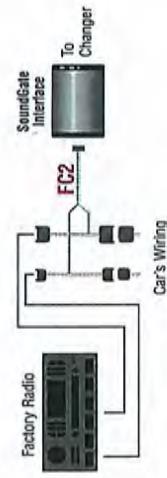
#FC2 cable

T-harness at radio location to interface to most 1995 - 1998 vehicles. **#FC2**
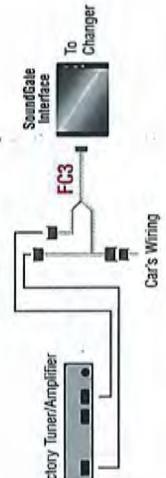
#FC3 cable

T-harness at rear amp/tuner to interface 1996 - 2002 Taurus and others with Distributed Audio Systems (DAS). **#FC3**

#FC4 cable

Cable harness for Cougar, Focus, and Jaguar S-type. Plugs directly into rear of factory radio.
(Not all CD related voice commands are supported on voice recognition equipped vehicles) **#FC4**
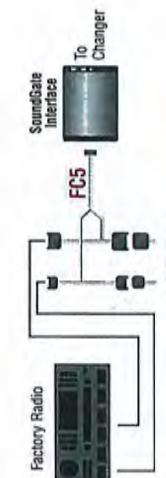
#FC5 cable

T-harness at radio to interface 1998 Ford Combo radios and most 1999 - 2002 Ford CD changer-capable radios. **#FC5**
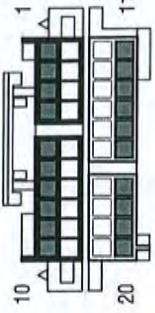
For instance...

If you have a 1999 Ford Taurus, and you want to install an Alpine CD changer, you would use the ALFD1V5 and an FC3 cable. If you have a 2000 Ford Focus and you want to install a Kenwood CD changer, you would use a KNFD1V5 and an FC4 cable. It's a modular program designed to keep your inventory costs down - just stock an interface or two along with one each of the cables listed above, and be able to work with nearly every Ford from 1995-2002 (excluding Mustang).

KICKER000159
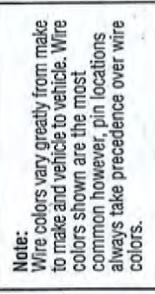
Page 51 of 52

Don't let Bose® systems trip you up...

Most GM Bose systems that have a 2-piece main radio connector, have a common front/rear audio output. Examine the factory connector. If the wires at pin location 1 and 17 are bare (no insulation) or have clear insulation, then the system is a common front/rear ground audio system and you will need to interface with it accordingly.

Aftermarket 20-pin GM harnesses are designed for non-Bose systems (non-amplified), that have 4 positive and 4 negative speaker leads.

The SoundGate OEM4A Radio Replacement Interface is required to properly interface a new receiver with the Bose amplifier(s).

Connect the speaker outputs from the new receiver to the inputs of the SoundGate OEM4A. Connect the 4 positive audio outputs of the OEM4A to the 4 positive leads in the factory match connector. Combine the two front negative audio output leads from the OEM4A and connect to the common front lead in the factory match harness (in pin location #3). Combine the two rear negative audio output leads from from the OEM4A and connect to the common rear lead in the factory match harnesess (pin location #19).

Make certain that you connect the shield drain wires at pin location #1 and #17 directly to a good bare metal chassis ground to prevent noise.

Pin#	Color	Description
1	Bare	Shield Drain Wire
2	Tan	Left Front (+)
3	See Note	Front Common (+)
4	Lt Grn	Right Front (+)
5	-	Not Used
6	-	Not Used
7	-	Not Used
8	-	Not Used
9	-	Not Used
10	-	Not Used
11	Orn	+12v. Batt
12	Yel	+12v. Ignition
13	Grn	Power Antenna
14	See Note	Dimming
15	-	Not Used
16	Blk	Ground
17	Bare	Shield drain wire
18	See Note	Right Rear (+)
19	See Note	Rear Common (-)
20	See Note	Left Rear (+)

CONSUMERS:
KNOW YOUR RIGHTS!

Federal law (the Magnuson-Moss Warranty Act - Section 102c) says you can purchase and install aftermarket products in your new car without voiding the car's warranty!

Manufacturers (or authorized representatives) cannot:

Condition a warranty on the purchase and use of its own parts or services.

Refuse to honor a warranty unless the manufacturer can show that an aftermarket accessory is the cause of a particular malfunction otherwise covered by warranty.

For more information, contact the Federal Trade Commission at

(202) 326-2222

Dear Soundgate Team Member,

This guide is based on decades of combined experience and knowledge of the SoundGate Staff. We have made every effort to ensure that the information contained herein is accurate. However, mistakes can, and do, occur.

Please, if you see any mistakes in this guide, call us at our toll-free number (888-760-4707) so that we may reevaluate the information. We want to hear from you and make this guide as accurate and useful as possible!

HEAR the PERFORMANCE