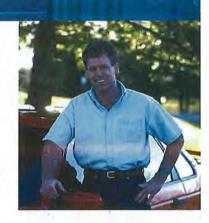


# Why SoundGate® Dealers have the edge...

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.





TO INTRA MOSFET found in the ntra/SoundGate Intelligent Coult Breakers

# 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.

### 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!



2 www.soundgate.com

# 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

INDEX					
Steering Whee The BAYSX (B Factory Radio OnStar Interfa	nterfaces el Control Interfaces asics) line Replacements ces onverters	9- 13 14 - 15 16 - 17	Filter Devices . Diagnostic and T Application Guid Application Guid	Test Equipment le le Notes	20 21 . 22 - 44
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# 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!



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!

4 www.soundgate.com

Page 4 of 52

KICKER000112

# 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

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 ...

and allow the user to select

"Input 1", "Input 2", or "CD Changer".

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
GIV1	1998-2002	#DOCKGM1	<b>VOLKWAGEN</b>	1998-2002	#DOCKVW1
GM2	1998-2002	#DOCKGM2	<b>VOLKWAGEN</b>	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

THE RESERVE AND ADDRESS OF THE PARTY OF THE	
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



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.

# 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!



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

There are always
exciting developments
at SoundGate the latest of which is
Team SoundGate. The
"Mobile Intelligence"

TEAM SOUNDGATE

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.

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!

6 www.soundgate.com

KICKER000114

# MANAGEMENT FOR CARS AND BOATS...brought to you by SOUNDGATE

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.



without worry!

### LVD70

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!

automatic

#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
- Audible Alarm included alarm warns user of impending circuit shutdown.
- Nickel plated
   The plated 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!



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.

# 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



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

FC1 cable

T-harness at radio location to interface 1995-1998 vehicles, #FC2

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

### FC4 cable

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.

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 changercapable radios. #FC5

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

# Nissan, Infiniti

(cable, listed at right, required and sold separately)



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



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

#ALTOY1 - Digital Interface (cable included)

. All 1998-2002 (excluding Matrix)

KICKER000116

# ALPINE CD CHANGER INTERFACES

The Alpine interfaces listed are to be used with the Alpine M-bus changers (models CHM-S600, 611, 620, 630)

Volkswagen, Audi

With our factory match connec tor, 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)

(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).

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!

#ALPINSTR - 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

ACURA 1998-02 Honda or Acura

HONDA/

to ALPMSTR interface cable. All models.

#ALPMHD1

### **JAGUAR** 1996-97

Jaguar to **ALPMSTR** interface cable.

#ALPMJG1

### MERCEDES BENZ

S) SOUNDGATE

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

#ALPMMB1

# 1996-02

Volvo to ALPMSTR interface cable. All models except 1999-2002 \$80 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



### 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



### **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



### 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 steeringwheel 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.

# 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 7-SERIES

- 1996-2002 (excluding 1996 318tl)
- 5-SERIES (Including X5)
- 1997-2002 vehicles that do not include factory DSP audio systems.

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.



(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

- 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.

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.

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

(PIOTOY1 shown)

Satellite Radio mode, artist and title information is not displayed on factory radio.

SOUNDGATE





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

3-SERIES, M-Series, Z-Series 7-SERIES

- 1996-2002 (excluding 1996 318tl)

### 5-SERIES (including X6)

- 1997-2002 vehicles that do not include factory DSP audio systems.

- September of 1998-2001 vehicles without factory

DSP audio systems.

SP audio systems.

KICKER000118 coming this Summer!

10 www.soundgate.com

# KENWOOD CD CHANGER INTERFACES

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

S SOUNDGATE

# Toyota

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)



# Volkswagen, Audi

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)

### TOYOTA

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

### **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



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



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

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!

#PIOVW1 -

Digital Interface (cable required, sold separately)

Toll-Free Ordexing Eff8076019707

11

Page 11 of 52

# SONY CD CHANGER INTERFACES

The Sony Interfaces listed are to be used with all Sony Uni-Link changers

### 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)

3-SERIES, M-Series, Z-Series

7-SERIES

DSP solutions coming this Summer!

- 1996 - 2002 (excluding 1996 3181)

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

5-SERIES (including X5)

- 1997 - 2002 vehicles that do not include 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)

 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)

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

T-harness at radio location to interface a1995-1998 vehicles. #FC2

### FC3 cable

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

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.

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

T-harness at radio to interface 1998 Ford Combo radios & most 1999 - 2002 Ford CD changercapable 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!



SOUNDGATE'

### RANGE ROVER and DISCOVERY

#SNBMWV5 - Digital Interface (one cable required, listed below, sold separate

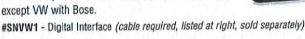
#RVRCBLD - Range Rover/Discovery cable

### 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,



### **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)

# SONY STEERING WHEEL CONTROL INTERFACES

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 up	on 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		S10 Pickup	2000-02	PONTIAC	
Skylark	1997-99	Venture	2000-02	Bonneville	2000-02
CADILLAC	44,000	Venture	1999	Bonneville	1996-99
Escalade	1999-02	GMC		Firebird	1993-02
	1770.77	Jimmy	1998-02	Grand Am	1996-02
CHEVROL	Children Wall	94. Allen	1969 169	Grand Prix	1994-02
Blazer	1997-02	OLDSMOBI	LE	Montana	2000-02
Camaro	1994-02	Alero	1999-02	1000	SEATONE.
Impala	2000-02	Bravada	1999-00	Montana Suntire	1999 1996-99
Lumina	1995-00	Silhouette	1994-99	100	A 10 TO 10 T
Monte Carl	o 2000-02	Silhouette	2000-02	Transport	1996-98
Monte Carl	o 1995-99			1	

# 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!



CHRYSLER

1999-00 Town and Country

DODGE

1999-00 Caravan

1999-00 Dakota

1999-00 Durango

1999-01 Ram Pickup

IFFP

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.

#CRSW1

icles.

# BAYSX

# Optimize Your Install Ba

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 channell See the SoundGate resource guide for specific applications.











14 www.soundgate.com

Page 14 of 52

# with SoundGate's BAYSX

# 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

Ouite 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.

### 1802

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.













All of the products in the BAYSX program are also available individually, and can be found on the pages listed below.



(Basics

LOC4 page 18

LOCHVA page 18

LOCPREA page 19

LOCB page 19

PWR1

.....

page 17

page 16

page 20

OEM4A

TRIGSPKR

TRIGLOHD

1802

Anna Carlo

FLTR25TE page 20

REMOTE1.5

101E1.5 page 1

STARMOD2V2

page 16



# OnStar® SOLUTIONS

# OnStar® technology is state-of-a

### 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,

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



and set to work developing solutions. 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.



#OEM4A

### OEM2

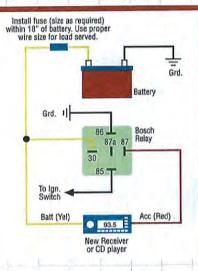
- · Are you installing a new receiver or CD player and want to keep the use of just one of the factory amps?
- · Is just one or two of your customer's Bose-amplified speakers bad?
- . Use the 2-channel OEM2 to retain the use of factory amps while bypassing ones that may be bad!



MOSFET Ready

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 MOSFEToutput 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.

#OEM2

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



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.

wiring in cars... saving you time.

### FLT1

#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

4 channel non-chassis grounded systems



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

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SoundGate's floating-to-common-ground interfaces eliminate running new speaker

16 www.soundgate.com

### 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



The legendary performance and reliability of the SoundGate line really shine in our factory radio replacement interfaces.

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 factorymatch 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** Connectors

### GMB2

up to 1985 GM vehicles and 1985-89 Corvette

#GMB2

17

KICKER000125

# LINE OUTPUT CONVERTERS - use after factory amplifier

TYPE 1

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.

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### 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 includeinfrasonic 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.



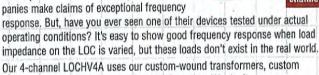
One of the biggest mistakes still being made in today's installations is that of not properly setting the gain controls on the finished system. We all get rushed trying to get that job out the door. But please, don't overlook this most important step!

- Turn your amplifier and Line Output Convertor gain controls all the way down, then open them just a very small amount.
- 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.
- 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!

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 you interfacing problems.

### 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 com-



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!



### LOCSUBA

#LOCHVA

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 LOCHVAA, 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.



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18 www.soundgate.com

### 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

### 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

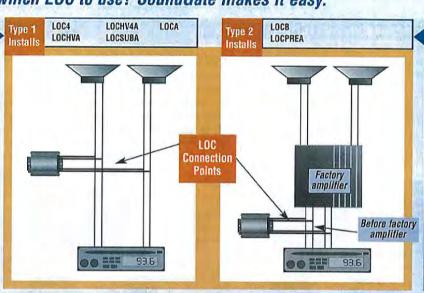
amps to almost any system that is factory-amplified. Response is flat within 3 db from 20 Hz to 20 KHz. The passive design of the LOCPREA means it can't be used in systems where AC voltage is very low (some Toyota and Lexus systems, for example) - for those installs latch on to our LOCB shown at left.

**#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 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

show

atts!

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

#AVM2 - stereo device

#AVM1 - Single-channel device available for OnStar installations



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



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

Marka Common Com

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

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19

Page 19 of 52

volume control for limos and boats.

# 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.

### 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



### 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

### 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

of the vehicle can spell problems for

A/B switch allows two different RCA

output devices to be hooked up to

the same amplification system.

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

### 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

### 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

1802

Our ISO2 completely DC isolates two components in a sound system. If you've installed what should be an awesomesounding 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** 





ISO2 in a 4-channel version! Both our ISO2, and ISO4, have extended lower frequency response (compared to our budgetminded DCPL2), and higher voltage capabilities - perfect for those highvoltage-output competition head units.

#1804

1804

The same high-

quality, custom-built

components as our





### DCPL2

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

#DCPL2

### 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! USE FOR HOOKING UP

No noise!

MP3 PLAYERS! #ABSWC1

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



### **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

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



these to be the best.

FOR AMPLIFIER INSTALLATIONS

### FLTR25TE

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

#FLTR25TE



**KICKER000128** 

20 www.soundgate.com Page 20 of 52

### **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!

CD104 The ultimate amplifier-level setting tool!

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

DIOPH

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.



### 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.



### 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.



### GENSWEEP

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

#GENSWEEP

### PLR<sub>1</sub>

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.





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# 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.

AMPLIFIER AMPLIFIER LOCATION 2. Find the project APPLICATIONS and FOOTNOTES Not leaded Investigated Investi Not Needed 33 STEERING WHEEL CONTROL INTERFACE
APPLICATIONS and FOOTHOTES
use part # Refer to the footnote, and "notes" sections at the back of the guide SOS1 with DOCKSAW (D1) or ALDSAWNDZ SOS1 with DOCKSAW (D1) or ALDSAWNDZ) SDS1 with DOCKBAW (D1) or AUXBAW(D2) SDS1 with DOCKBAW (D1) or AUXBAW(D2) SOS1 with DOCKBARW (D1) or AUXBARNID2) SDS: with DOCKBAW (D1) or ALIXBAW(D2 AUXILLARY IMPUT ABMINGS/KBM/KIPIOBL/WS/VBM/WS/ Jecous 31104 #35 (C1) Guide ABANYSEKBANIPPOBANKSKBANISY #35 (C). C4) ABANYSEKBANIPPOBANKSKBANISY #35 (C). C4) ABANTSSABATHIPIOBANHISHBANTSI #35 (CA. CB) ABANY3SKBANIPIOBANISHBANIST #35 (C1, C4) ABANYSSKBANINPIOBIANISNBANNSI F35 (C1, C4) ABANYSSABARHIPIOBARHISNBARWSI 435 (C1. C4). MNS/ 835 (C1, C4) SWBANNS/ 255 (C1, C4) ABLANDSKIBRANPIDBANKSKIBANASI 255 (Ct. C4) ABANY3SYIBANIPIOBANISHBANGY #35 (C1, C4) ABANYSSYGAMIPTOBANISNBAMISI #35 (C1, C4) **IPPLICATIONS AND FOOTNOTES** ABANASS KENNAMP DEBANASHB 1995-96 Factory Only Factory Only Factory only Factory only 2002 Application ONSTAB USE part I RECEIVER 是是 是 INSTALLATIONS CENAL
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# 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.

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Call before performing any work on this vehicle

	LICATION FACTORY COUNCIES AMPLIFIER	er required) LOCATION		9000	Comir	non 1	TOR		TOTE		TOTE	none	Y .	<b>.</b>	4		3	300	<b></b>			100		9101	G (sub)	ú	Х	200	200	1	DOME		1006	DOM				4	NO.	3	8	ı		None	
п	CE AMPLIFIER INSTALLATION APPLICATIONS and FOOTHOTES	(Line output converter required)	Type 2 (LOC8 only)	lace I	Too 1	Tone 9 II OPR noted	Type 1	Type 2 (1008 only)	Type 1	Type 2 (LOCB only)	Type 1	Type 1	Type 1 or 2	Type 1 or 2	Type 2 (LUGO UNIT)	Type	Type 2 (LOC8 only)	Type 1	Type 1	Type 1	Type 2 (LUCS only)	Type 2 (Love unit)	Type 2 (LOCS cnly)	Type 1	Fiet	Type 1	Type Lor 2		Type 1 or 2	Type 1 or 2 (AG)	Type 1	Type 2 (LOC8 only)	Type 1	Type 1	Type 2 (LOCB only)	Type 1	hoe i	Type 2 (LOGS only)	Tyne 1	Type 1 or 2 (AG)	1 ad/į	Tone for 9 (85)	(out on add)	Type 1	
	STEERING WHEEL CONTROL INTERFACE APPLICATIONS and FOOTNOTES	trag part f	REMOTELS (96 only)	Management	Not recommended	COND. INC. INC.										REMOTE1.5 or GMSW1			Not Recommended	Not Recommended	Not recommended						REMOTEL 5 or GMSW1	REMOTETS or GINSW1	NEMULELS OF SMOWL (SI) UNIT	REMOTE1.5 or GMSW1	REMOTELS or GMSW1	REMOTET 5 or GMSW1	REMOTET 5 or GMSW1												
	AUXILIARY INPUT INTERFACES	# ped ast										SDS1 with DOCKGM1 (D1)	SDS1 with DOCKGM1 (D1)	SOST with DOCKGIAT (D1)	SUST WITH DUCKSAM (D1)	SDS1 with DOCKGAN1 (D1)									STST with DOCKSMT (89-02) (DT)	SOS1 with DOCKEM1 (D1)	SDS1 with DOCKEM1 (D1)	SOS1 with DOCKGM1 (D1)		SDS1 with DOCKGAR2 (96-00) (D1)	SDS1 with DOCKGAR2 (96-00) (D1)	SDS1 with DOCKGN2 (56) (D1)	SDS1 with DOCKGNZ (96) (D1)											SOST with DOCKEAD (DT)	We've man providence party
	CD CHANGER INTERFACE APPLICATIONS AND FOOTWOTES	they part #																			:																								
	RETAUN	they said if			Startifod (TT)							Startflod (T2)	Startflod (TZ)	Startfod (TZ)		Startflod (T2)										Startflod (T2)	SlarMod (99-01)												Sealest Co.	OFFICE OFFICE OF THE OFFICE OFFICE OFFICE OFFICE OFFICE OFFICE OFFICE OFFICE OF THE OFFICE OFFICE OFFICE OFFICE OFFICE OFFICE OFFICE OFFICE OF					
	RECEIVER	FOOTNOTES	(R1, R6, R11)			104 00 0441	(KI, NO. KIII)	101 05 011	ini, ma, mai	(RL RS, PM1)			(R1, R6)	R1, R51	(R1. NS. R11)	IRI REI	(R1. R6. R11)				00 DO DO	(M. No. MT)	IR1 BS R111			(R1.R6)	(R1, R5)		G8 901	tur, maj		(R1, R6, R11)		(KT, MS, KTT)	(R1. R6. R11)			(Rf. R6)		(B) (B)			(R1, H8)		
777	RECEIVER	use part if	GMBI	Interface not needed	Interface not needed	NOT recommended	letaritore and enoughed	CARPI	Interface not needed	GME	Interface not needed	Interface not needed	DENA	CENAN	GMBI	MENAS NA NECISIO	GABI	Interface not needed				GWB1 (SC-SS)	CHRI	Interface not needed	federation and number	DEMA	OBMA	Interface not needed	Interface not needed	On Not like Interface	Interface not needed	GMB1	Interface not needed	GMB1	CANED	Interface not needed	Interface not needed	DENA	Interface not needed	METAZE NO TESTES OFFILM	Interface not needed		OEMA	Interface and needed	HERMAN MANAGEMENT
100	INSTALL	(pp 44-52)	137, 25 (96)		12.3	F.00	#22.3/	217	200	10		425	#5.38	#25,28	422	100	122		#19,20,24,55,36	#19,20,24,25,26	FM. 55.35	#37.22	133		23 53	PC0, 30	425	455		147	- X2	£10.37		£10,37	133			137	1	2 45	#18,28		#18,26		
SOUNDAME COOK INDING	VEHICLE IDENTIFIERA	DUALIFIER	With factory Bose system	Without factory Bose system	With 6-speaker non-Bose system	With 4-spealer Bose system	With lactory Bose system	WITHOUT EXTENT BOSE SYSTEM	Without Serlery Bres excitent	With factory fine system	Without factory Bose system	With 4-speaker Base audio system	With 9-speaker Uplayel system	With Bock audio system	With Luxury audio system	With samplified sucham	With Earliny Bree system	Willhout factory Bose system	Call SoundSate Before Starfing	Call SoundSale Belore Starfing	Call SoundSate Before Starting	With factory Bose system	WITHOUT GOODY DOSS System	Without factory Bose system		With amolfied system	With factory Bose system	- 1	5	With Employee System	Without Monsoon system (4 speakers)				With Soften Bros system		Wagon	With factory Bose system	Without Bose system	Without Morsoon audio system.	7,45	althags in this vehicle!	With Monsoon audio system.  INPORTANT!! - See Note #18 for an important warning concerning	the airbags in this vehicle!	
	YEARS		of 1989-96		do 1996-10		1992-95	ADDE DA	P-086	1085	1000	de 2001-02			199-00	our m				1998-99	1996-97	192-55	1000.01	Isanci		Asim 1990-02			1992-97	1989-91 1007.00		1994-96		1999-53	1007.00	00_1001	Caprice 1994			Canader 2002	2000-01			4000 00	THE PARTY AND
	MAKE 200 MODEL		Deville (cout)		Belondo							Escalade				Controls C	Flashund and	Broughar	Senile	81					CHEVROLET	Actority	8			Part I	Centre					KIC									

27

086	FACTORY AMPLIFIER		tine	_	TOTE	-	none	-			none	3	2000	TOTA	E	none	none	none	none	<b>u</b>	none		none	none	300	200	none	A	none	none	none	٠,	9	Tone	2 4	mne	×	¥	A (optional)	A (optional)	1	J.	9	none		9	M. Kare	¥	A (optional)	A (optional)	none
BII	AMPLIFIER INSTALLATION APPLICATIONS and FOOTNOTES (Little outland convenies required)	Type 2 (LDC8 coh)	Me 1	Type 2 (LOC8 only)	Tige.	Type 2 (LOC8 only)	lpe1	Type 2 (LOC8 or LOC9REA)	Type 1 or 2	Toel	Tipe 1	Type Lor 2		The	Type 2 (LOC8 only)	Type 1	Type 1	Type 1	Type 1	Type 1 or 2 (LOC8 only)	lype 1	Type 1 or 2 (LOGS only)	lyte!	Turns 1	Type 1	Type 1	Type 1	Type 1	Type 1	Type 1	Type 1	lype 1	lype 1	Trans 1	Time 1	I'me 1	Moet	Type 1	Type 1	Type 1	Type 1	Type 1	Type 1	lype 1	laci l	Ton 1	Type 1	Type 1	Type 1	Type 1	Time 1
0	STEERING WHEEL CONTROL INTERFACE APPLICATIONS and FOOTNOTES use not it											REMOTELS or GMSN1 (S2)	REMUTELS OF BASAN (32)	REMOTEL 5 or GASH1						REMOTEL 5 or GMSW1	REMOTELS or GWSW1		MAINTA C. AINTA	HEMULELS OF BIRSHY		REMOTE15 or GMSW1						named Supplied	HEMULELS OF GMSW1									Market - Assess	REMOTETS or GMSW1						0.00		
0	AUXILIARY INPUT INTERFACES USE DRIFF	SOST with DOCKGMZ (DT)	SOST with DOCKGAZ (D1)								SDS1 with DOCKGMT(98-00) (D1)	SDS1 with DOCKGAZ (D1)	SOST WITH DULMBAKE [UT]	SDS1 with DOCKGAR2 (96-99) (D1)				SDS1 with DOCKGAR2 (99-00) (D1)			2	SUST with DUCKISING [07]	SUST with DUCKISM2 [07]	STOLE WITH DUMANING (SP-35) [U1]	SDSI with DOCKSMI (Dil	SDS1 with DOCKISM1 (D1)	SDS1 with DOCKIGN1 (D1)		SDS1 with DOCKISM1 (D1)	SDS1 with DOCKGM1 (D1)	THE PERSONNEL TO THE	SUST WITH DUCKGAM (DT)	SUST WITH LUCKSAM [UT]	SDSI WAS DOCUMENT [01]	SDSI with DOCKGAM (DI)	SDS1 with DOCKIGAM (D1)	SDS1 with DOCKGAT (D1)	SDS1 with DOCKGM1 (D1)	SDS1 with DOCKGM1 (D1)	SDS1 with DOCKGM1 (D1)		SDST mit DOCKSHT (P.)	SUST WITH DOCKERN (D1)	SDS1 with DOCKGM1 (D1)	SUST WITH DUMBER (FT)	SIST WELL DOOMSHIP (FILL)	SDS1 with DOCKEAN (D1)	SDS1 with DOCKSM1 (D1)	SDS1 with DOCK/GM1 (D1)	SDS1 with DOCKIGHT (D1)	
ממומט	CO CHANGER INTERFACE APPLICATIONS AND FOOTNOTES USE DOT!																																																		
arion	RETAIN ONSTAR Use part #		IV.									Startfod (T1)	Startford	Startford (36-99)						Startled (T1)	Startfoot (TT)	Spring (III)	Starting (11)	Starting (73)	Sattled (7)				Startfod (T2)	Starkod	A. 44 A COM.	Sankod (12)	Spring (12)	Chelled Chelled	Staffled	Strikol	StarMod	StarMod	Startfod			Spritted (7)	StarWod (T2)	Startfoot (T2)	Samo	Ordiod	StarMod	StarMod	StarMod		
201	RECEIVER	(R1, R6)		(R1, R6, R11)		(R1, R6, R11)		(R1, R6, R11)	(R1, R5)			(R1, R5)			(R1, R5, R11)					(R1, R6)	2	(H. Nb)									4	(M. 16)	(KT, Hb)	190	(SE 180		(81,76)				(R1.76)			5	101.10	(M. Mg)	(H. 18)				
Suddy Poor	INSTALLATIONS use part ?	GMCRVI	Interface not needed	GWB1	Interface not needed	GM82	Interface not needed	5985	DENAA	Interface not needed	Interface not needed	DEMA	Interface and readed	Interface not needed	SMB1	Interface not needed	Interface not needed	Interface not needed	Interface not needed	OEMA	Interface not needed	DENIA	INTERTACE NOT INTEREST	Interface not needed	Inferface not needed	Interface not needed	Interface not needed	Interface not needed	Interface not needed	Interface not needed	Interface not needed	OEMA	UEMAN AND AND AND AND AND AND AND AND AND A	DENIAL INCIDENCE	DEMA	Interface not needed	DENA	Interface not needed	Interface not needed	Interface not needed	OEMA	Interface not needed	Infertace not needed	Interface not needed	UEWAN	UCKRA Interface not ecoded	DEMAN	Interface not needed	Interface not needed	Interface not needed	
700	NOTES NOTES (prs 44-62)			#1.23		137		19.37				7	#25,708,40)	in action	#37		126			283	223	18	#2/.38	FG (30-20)	25								FD. 28			15.38	75.28	924								10.03		122			
	VEHICLE IDENTIFIEN	With Taction Boss system	Without factory Bose system	With factory Bose system	Without Ecdory Bose system	With factory Bose system	Without factory Bose system	With factory Bose system	With factory Bose system	Without factory Bose system	All	With Bose System	WINDER DOSE SYSTEM		With factory Bose system	Without Bose System	N	M	-	With Book system	Without Bose system	With Book system	Without bose system		2 22		M.	=======================================	7	W ::		With 9-speaker non-Bree system	With 9-speaker base system	Will 4-speakt system	With Questier And cyclem	With 4-speaker system	With subspoler in certer console	submoder in con	Al	A	With amplified system	With 9-speaker non-Bose system	With 9-speaker Brose system	With 4-speaker system	With the Special Transport System	Will Styleton Dick System	With submoder in center console	Without subwoofer in console	All	-	
Š	YEARS	1997-02		96-0661		1965-89	191	1984	2002		1998-01	2000-02	WW.	1995-99	140	State	2001-02	1995-00	1998-01	2005		2002-01	1	2014.00	1098-00	1999-01	1998	1988-94	2005	1996-01	1998-02	2001-02	-9	2000		75	1999		1998		1969-91	2001-02			700		1999		1998	1996-97	ı
SOUNDOALE	MAKE and MODEL	Conette							Enpress			qedui	Imin				Malibu		Metro	Monte Carlo				Dirlow Hotse Date	Perion CK	Pickop S10			Pictory Silverado		Priem	Suburban										ÇIÇ									

SOUNDGALE ZOUZ APPLIC	HERV NOTES IN	) bits 44-95)	F20 UENHA INCIDENTIALS NOT DEEDER	All with video system #31,52 See Note #31 All with video system #35	ž		With middline audio system (k-cheater) #45 UENAA Mith Infinity I amfin suetem (k-cheater) #45 CENAA	25.		iden) #45 (int)	Milh Infinity I system (10-species) 445 (67) OBM44	erj				Milh Infinity I audio system (8-speaker) #45 UEMAA With Infinity II evelom (10-ensolve) #45 OFMAA		er)	With Infinity Laudio system (8-speaker) #45 (01) OEIMAA	With Infinity II system (10-speaker) #45 (01) OBMAA	With amolifier switch mounted in desh				With Infinity II system (10-species) #45 CBMA	1		With Infinity I audio system (8-speaker) #45 (01) OBMAN		Infinity sound system. DEMAA	Interface not needed	All Interface not needed					Will Date-level allone system interference i		ten	EI)	6-speaker)	£.	With Infinite sound system 445 DEBLAA	150
	TIONS RECEIVER			7	nanon		(R1.R5)	8.18		(H, 16)	(R1.86)	(R1, N6)	eded	nded	Ú,	F. 185		La	[M. R6]	R1.85	(A1, ne)	(36)	ented	paged and and	(R1, R6)			(R1, R5)	(A) BS	(R1, R5)	eedel	enderd not not	(61, 60)		ented	ented	cetter	ented	pepas	(R1, R5)		(M1, M9)		rended (R8.10)
arion	RETAIN	use perf e	V	Startfor (T1)		OV.	ACS	S. A.	ACS	AC	2 2	AL.	AL.	AC	D. Ac	AC AC	Q	W	Q	Q	2		OF .	A S	S. C.	O.	OF .	AC.	A. A.		St.	35	ž.		ON NO.	34	2	O. O.	AC.	THE STATE OF THE S	# S	A S	e Se	AC
מסובים -	CO CHANGER INTERFACE APPLICATIONS AND FOOTNOTES	inse pari i				ICREVIS or KNCREVS with CRCBLSO (CS)	ALXEVIS OF KNUTREVIS WITH UNUBLISH (CS)	ACPZ13 or KNISPZ43 with CROBLSO (C3)	ACRZV3 or KNORZV3 with CRCBLDIN (C3)	ACREVIS OF KNORZYS With CROBLOW (CS)	ACARVS of MACAVS with CACALUM (CS)	ALPASTR with ALPAICR1 (C3)	ALPMSTR with ALPMSR1 (C3)	ACREVIS or KNOREVIS with CROBLESO (CS)	ACREAIS OF KNORZYS with CHOSUSO (CS)	ALAZYS OF KALORZYS WITH CHUBUSU (US)	ACREVIS or KNCREVIS with CROBLDIN (CS)	ACR243 or KNCR243 with CRCBLDIN (C3)	ACREVIS or KNCREVIS with CRCBLDIN (CS)	ACROYS or KNICROVIS with CROBLOW (CS)	rasin mili ALTMANI (SUSI) (SA)		ACRZY3 or KNORZY3 with CROBLSQ (C3)	ACAZYS of NACAZYS teth CACACCO (CS)	ACREVIS or NAVORENIS with CROBLSO (CS)	ACRZYS or KNCRZYS with CRCBLDIN (C3)	ACRZUS or KNORZUS with CROBLONN (CS)	ACREVIS OF KINCREVIS WITH CROSLOIN (CC)	ALPASTR with ALPARCET (13)		ACREVIS or KNICREVIS with CRICBLESO (ICS)	ALREYS OF MICHERS with CREBLUM (CS)	Calcium and an art and and [An]		ACREVO or KNCREVO with CROOLSO (CO)	ACREVIO OF KANCREVIS with CROSLOIN (CS)	AUCKN OF MAINERS WITH UNGLOOM (I.S.) AUSTN OF WATERS WITH CRUSH DIN (I.S.)	ACREVIS or KNOREVIS with CROSLDIN (CS)	ACREVIS or KNORENS with CROBLOIN (CS)	ALPASTR with ALPASTA (CS. CS)	ALPHISTR with ALPHIST (CS. CS)	AUCES OF NAVICES WITH UNDERSTEED (CS)	RZ15 or KNCRZV3 with CRCBLOM (C3)	ADSOVS or KNIDSOVS with CRCRI DIN ACSI
e	년 8	Use part #		SDS1 with DOCKGAM [98-99] [D1]	ini ise sel monomini ises	SDS1 with DOCKCRYZ (D1) or AUXCHRY (D2)	SUST WITH DUCKLETZ (UT) or ALKCHAT (UZ)	SOST WITH DOCKDER? (01) or AUCHRY (02)	SDS1 with DOCKCRY1 (D1) or AUCCHRY (D2)	SDSI with DDCXCRY1 (D1) or ALBICHRY (D2)	SOST with DOCKCRY1 (D1) or AUXCHRY (D2)	SDS1 with DOCKCRY3 (D1)	SOST with DOCKCRY3 (D1)	SDS1 with DOCKCRY2 (D1) or AUXCHRY (D2)	SDS1 with DOCKCRY2 (D1) or AUXDHRY (D2)	SUST WITH DUCKUSHTZ [UT] OF AUXILIARY [UZ]	SDS1 with DOCKCRY1 (D1) or AUXCHRY (D2)	SDS1 with DOCKCRY1 (D1) or ALIXCHRY (D2)	SOS1 with DOCKCRY1 (D1) or AUXCHRY (D2)	SDS1 with DOCKCRY1 (D1) or AUXCHRY (D2)	and with bullwants (squal) (bit)		SDS1 with DOCKCRYZ (D1) or AUXCHRY (D2)	SUST with DUCALARTZ [01] or ALIXCHET (UZ)	SDS1 with DOCKCRY2 (D1) or AUXCHY1 (D2)	SDS1 with DOCKCRY1 (D1) or ALDICHRY (D2)	SOST with DOCKCRY1 (D1) or AUXCHRY (D2)	SDST with DOCKCRYT (D1) or AUXCHRY (D2)	SDS1 with DOCKER13 (D1) or Authority (DC)		SDS1 with DOCKCRYZ (D1) or AUXCHRY (D2)	SUST WITH DOCKLERT (UT) OF AURCHITY (UZ)	COOL WISE DOCUMENTS (20 OIL) (D.)		SDS1 with DDCXICRYZ (D1) or AUXCHRY (D2)	SDS1 with DOCKCRY1 (Dr) or AUXCHRY (D2)	STIST WITH DUNING THE PLANTAGE TO SELECT THE PROPERTY AND THE PROPERTY AND THE BUILDINGS WITH THE PROPERTY AND THE BUILDINGS WITH THE PROPERTY AND THE BUILDINGS WITH	SDS1 with DOCKORY1 (D1) or ALXCHRY (D2)	SDS1 with DOCKCRY1 (D1) or ALDXCHRY (D2)	SDS1 with DOCKCRY3 (D1)	SOST with DOCKORY3 (D1) SINST with DOCKORY3 (D1) we all you with	SUST WITH DUCKNERTZ [17] DE AUKLERT [12] CRET WAS DROWNEYS (RA) or ELINTHIEV (RS)	SDS1 with DOCKCRY1 (D1) or AUXCHRY (D2)	SOS1 with DOCKCRY1 (D1) or AUXCHRY (D2)
0	STEERING WHEEL CONTROL INTERFACE APPLICATIONS and FOOTNOTES	use part 4		REMOTELS or GMSW1	DENOTE OF THE PARTY.																																							
	AMPLIFIER INSTALLATION APPLICATIONS and FOOTNOTES	(Line author converter required)	Type 1	Type 1	i adli	Type 1	Type 1	Met 1	Type 1	Type 1	Togal	Type 1	Type 1	lype i	lipe 1	Torre	Ne i	Type 1	Type 1	Type 1	Type 1 or 2	Mei	Type 1	1981	Tipe 1	Type 1	Type 1	Type 1	Me	Type 1 or 2	Type 1	Type 1	Type I	Test	Tee (	, E	Tara (	Type 1	Type 1	Type 1	Type 1 Time 1 or 2	Type I UI C	Type 1 or 2	Type 1
	FACTORY	LOCATION		9006		BOOL	F-120 wall	F360 wat	TOTE	N-120 watt	F380 val	0	none	DOTE	N-120 watt	Capped Capped	TODE .	N-120 watt	F-240 watt	F-360 wall	Sustaine E	9	DOTE	Il-120 watt	- Security	1006	N-120 watt	F240 walf	F-300 Well	co	BOTE	100			none	none		none	0	0	none -	9000	-	TOTE

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29

DOIND	MAXE and MODEL YE	Steath 1997		Shalts 20	ľ	2		81	į	(N. P.) W.	195	Vher 200	Talon 199	-1	Vision 199		PEKKAKI All Models 199	Aerostar 199		<u>8</u>	Aspire 199	Bronco (full size) 199		l å	Amm 198			ь	SE DEMON	Country Squire 19	ľ		Crown Victoria 199	5	-	  戦	181		Econoline 199			
SOUNDCALE	YEARS VEHICLE IDENTIFIER/ QUALIFIER	1991-96 With Infinity sound system	_	2002 With base-level audio system		2001 With base-level audio system		SSO-VIII WITH MINTER STORE STORE OF STORES	AND STATE OF STREET STREET STREET		1004.00 With Exhery receiver and fruit enablers		1965-99 With Infinity sound system		1993-97 With Infinity sound system	Without Infinity sound system	1995-99 With factory CD changer controls	1996-97 With the word Automatic on tape door		1986-95 With or without Factory Equalizer (retains rear seal headphone use)	1994-97 With Premium Sound System, or with	1992-97 With the word Automatic on the tape	door, or with factory CD	Without word Automatic on tape door				9	Without work Perium Sound in cells	1988 With rotary volume knob on factory	1		1998-02 All	or in-dash Co. This is factory DAS (distributed audio system - LUX)	1997 Without CD-changer controls on radio or in-dash CD	1995-96 Without CD-changer controls on	1900-94 With sort Antenatic on the tare door		10	1996 With Premium sound system		1997 Without CD-changer controls on radio, or AMFM only. Relains use
<b>VOOV</b>	INSTALL NOTES (pgs 44-52)	#34			報		49					2						71.			च.	14 (94-97)					14	9	T.				20	00			日間			न		
Applic	RECEIVER INSTALLATIONS use part 0	MITSHORE	Interface not needed	Interface not meeded	CENTA	interface not needed	CEMA	UEINA	METALS TO RESULT	MEDIALE TO RECUEU (NO)	BTI	8-pin Albine DIN	MITSRC/R	Interface not needed	DEINA	Interface not needed		FROZ	ELL	PWR	Interface not needed	FRIDZ		INTERIOR NOT NEEDED	HID		PWRI	UENE	Interface and needed	PWRI		NAME OF TAXABLE PARTY.	INTERFACE NOT INCOME		Interface not needed	Interface not needed	FBD	Interface not needed	Interface not needed	DEMA	Interface not needed	Interface not needed
ן ס	RECEIVER FOOTNOTES #	(R7)			(H. 76)	-	(F). (F)	(K1, Mb)		50 10	(R1, na)	100	(87)		(R3)			(R1, R6, R11)		(RS)	(R1. R6. R11)	(R1, R5, R11)		90	RI BE BILL		(36)	(FD)	MI, ND, MII)	(R2)		(RZ)					(St. Rs Rtt)	Della concession of		(R1. R6)		
11011	RETAIN ONSTAR use part #	14.27	+	ACR	NON NO.	ACH ACH	ACH	ALP	ALF	ALT	No.				ALP	AL AL	JS.	N															35	5					NS	NS		
anine	CO CHANGER WITERFACE APPLICATIONS AND FOOTNOTES use part #			ACREVIS or KNCREVIS with CRIGILISO (CS)	ACREVIS or MACREVIS with CRICBLESO (CS)	ACREMS or MACREMS with CRICBLEIN (CS)	ACREVIS or KNCREVIS with CHOBLIDIN (CS)	ALPASIK BIB ALPAKKI (K3)	ALYNOIN WIR ALYNCKI (CJ.)	ALTHORIS WILL ALTHON 1939	MOLIN WELL ALC MICH. [45]				ALPHASTR with ALPMACR1 (96-97) (C3)	ALPIKSTR with ALPIKCR1 (95-97) (C3)	Sony Uni-Link Direct															the set of the setting of the set	SAFOT OF ALLOT OF MARIOT, WITH FLO (LG)	TOTAL MATERIAL WILLOW (M.)					SNED1 or ALED1 or KNED1, with FGS (C3)	SNFD1 or ALFD1 or KNFD1, with FCS (C3)		
	AUXILARY INPUT INTERFACES ISSE part #			SDS1 with DOCKCRY2 (D1) or AUXCHRY (D2)	SDS1 with DOCKDRYZ (D1) or AUXCHRY (D2)	SDS1 with DOCKDRY1 (D1) or ALXCHRY (D2)	SDS1 with DOCKDRY1 (D1) or AUXIDHRY (D2)	SUST with DUCKDAYS (D1)	SUST WITH COUNTRIES [U1]	SUST WIR DUMENTS [U]	SOSI WILL DOCNORIS [D1]				SDS1 with DOCKCRY3 (96-97) (D1)	SDS1 with DOCKCRY3 (96-97) (D1)																the set enemers they enemers to be been	SUST with DUCK-UND (DT) or AUGHORD (DZ, DA)	SUST WELL UNDWINDER [U1] IN FLAKTORIA [U2, U4]					SOS1 with DOCKFORD (D1) or ALIXFORD (D2, D4)	SDS1 with DOCKFORD (D1) or AUKFORD (D2, D4)		
0	STEERING WHEEL CONTROL INTERFACE APPLICATIONS and FOOTHOTES use part #																	FROSINZ	FROSINZ																							
	AMPLIATER INSTALLATION APPLICATIONS and FOOTNOTES (Line output converter required)	MTSAMP or Type 1 (A1)	Type 1	Titel	Time	Tipe 1	Type 1	lype 1	l adul	Table 1	Total	No.	MITSAMP or Type 1 (A1)	Type 1	Type 1 or 2	Type 1	Tige 1	Type 1 or 2 (LOC8 only)	Tiget	lype 1	Type 1	Type 1 or 2 (LOCS only)		Type I	Type 1 or 2 (1 OCR only)	(fine page) a manage	Type 1	light.	Type I of 2 (LLUJS offly)	Type 1		line1	Lead I	n militi	Type 1	Type 1	Time 1 or 2 (1.008 only)	Type I or a too or or or	Type 1	Type 1	Type 1	Type 1
	FACTORY AMPLIFIER LOCATION	69	none	mae	0	1000	0	0	1006	TOTAL	U IZWEII	9	0	none	9	DOME		A	9000	~<	none	9		none	9	,	HOULE	000	2	200		none	1006		IONE	TODE	u	1000	101	60	TOTE	101

101	FACTORY AMPLIFIER LOCATION		an	none		1000	2000		Fest	Fsib	STOLL	-	80 6	00 00	none		none	8	none	none none	a0	F (sub)	F(sub)	200	ш.	note	u.	u.	nore		nees.	F	none	nore		nore	
	AMPLICATIONS and FOOTHOTES (Line pulpul converter required)	Type 1 or 2 (LOCB only)	Type 1 or 2 (LOCB only)	Type 1	Type 1	Type 1	Type 1	100	les i	lge i	) jpt (	Type 1 or 2 (LOCB only)	Type 1 or 2 (LOCB only)	Type I or 2 (LUGB only)	Type (	Tree 1	Type 1	Type 1	Type 1	Ture 1	Type 1 or 2 (LOCS only)	Type 1	Type 1	ibbe i	Type 1 or 2 (LDCS only)	Twe 1	Type 1	Type 1 or 2 (LOC8 only)	Type 1	Type 2 (LOCB only)	Time 1	Type 1 or 2 (LOCS only)	Time 1	Type 1	Type 1 or 2 (LOCS only)	Type 1	Type 2 (LOCB only)
	STEERING WHEEL CONTROL INTERFACE APPLICATIONS and FOOTNOTES USE part #		FRDSWZ	FIDSHZ																																	
		SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)									SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)							AND AND ADDRESS OF THE PARTY OF	SOST WITH DOLLAND [U1] OF ALCADING [U2, D4]	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)	SUST with DUCKFURD (01) or AUCFURD (02, 04)	לכם לאם מונה שמעני הו (נס) מוני שמעני חווים (מסי	SOS1 with DOCKFORD (D1) or ALKKFORD (D, D42)		SDS1 with DOCKFORD (D1) or AUKFORD (D2, D4)	SDS1 with DOCKFORD (D1) or ALDFORD (D2, D4)						SOST with DOCKFORD (DT) or ALCOFORD (DZ, D4) SOST with DOCKFORD (DT)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		
	CO CHANGEN INTERFACE APPLICATIONS AND FOOTNOTES use part #	SWEDT or ALFOT or KNEDT, with FCZ (CS)									SWFD1 or ALFD1 or KWFD1, with FC2 (C3)	SNFD1 or ALFD1 or KNFD1, with FC2 (C3)							AND AND THE PARTY OF THE PARTY	SAFOT OF ACTOR OF NATION, WITH TASK (C.S.)	SHFD1 or ALFD1 or KNFD1, with FC2 (C3)	SNFD1 or ALFD1 or KNFD1, with FC5 (C3)	SHIPTI OF ALPUT OF KITCH, WITH PLS (CS)		SNFD1 or ALFD1 or KNFD1, with FC2 (C3)	SAFD1 or ALFD1 or KNED1, with FC2 (C3)	SNFD1 or ALFD1 or KNFD1, with FC3 (C7)	SHEDI or ALFDI or KNFDI, with FC2 (C3)						Silvery) or ALL-byt or Kilvery, with rest (C1, C3) Smov [hirl-link direct	SNPD1 or ALPD1 or KNPD1, with FC2 (C3)		
	RETAIN ONSTAR use part #		1											H																7.			1		127		
	RECEIVER	(R1, R6)	(R1, R6, R11)		(R2)	(R2)		(M. R. M)				(R1. R6)	(R1, R5, R11)	(R1, R5)	(R1, R6)	(R2)	(R1, R6)	(R1, R2, R5)	(R2)		(R1, R5)				(R1, R6)			(R1, R6)		(R1. R6, R11)		(R1, R6, R11)	(R1, R6)		(R1, R6)	(R2)	(Rt. RE. R11)
2	RECEIVER INSTALLATIONS use parl #	OBMA	HOZ	Interface not needed				UEWSA Interference and manufact	interface not needed	Interface not needed	Interface not needed	1	FHD2		PWRI	PWRI		44		Interface not needed	W	Interface not needed	Interface not needed	Ties and the linear	DENA	Interface not needed	LOCSUBA (for sub)	OBHA	Interface not needed	FIDE	Interfare mi needed			Interface not needed			FIN
1	INSTALL NOTES (pgs 44-62)	4	*							55	#	# 14	11	1 (34-30)						55		4.36	F 38		W.		£3,4 (sub amp)	च							25		
SOOI DOVIE COOL TOPING	VEHICLE IDENTIFIEN QUALIFIER	With CD-changer control functions # on factory cassette	formatic on the tape	Without word Automatic on tape door	With Premium Sound System	WiO factory Premium Sound system	A . A . A . A . A . A . A . A . A . A .	With Premium Sound System	With Mid-line audio system	th 6-disc)		ш	under dashboard	With factory cuspelle player	With factory cassette player, without	With words Premium Sound on ordie	A	With Premium Sound System		AL II Subvooler equipped Call for III). 19		0.3	All. If subvivoler equipped call for info. #	radio. Il submoder equipped call for info.	With CO changer controls on radio, or with in-deach CO. If equipped with cohomodes (101) and the details	With AMERICan's - no cassets	system-	i (with CO-changer cassette), or with	Cassette only (without factory	With the letters DNR on the factory	Light 6000, of WITH JBL. Without latters DIRR on tans door	With toogle-type volume control	With rolary type volume knob	All without Sony-branded system All with Sons-branded exchem	cassette		With toggle-type volume control
Ĵ	YEARS	1997	1994-95		1992-93		1989-91	1980-88 200-88	25-IM2		1997-02		1994-96	1983	1992-93	1991	1989-90	1986-88		2000-10 1000-10		2001-02	1999-00	200			76-5861			1985-94		1991-92		2000-00	1997	9	1988-89
1000	MAKE and MODEL	Econoline (cont)						-	caste		EsontOZ									Frantism		Explorer												Focus	HW-80	8	UD Crown Victoria

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	FACTORY ES AMPLIFIER ES LOCKTION			ш	***	Done	CSIO	10	8.6	8	89	eo (	- Sub	none		ی د		anou	aucu	200	A.F.		1006 1006	none	2	,	U	none	00	00 6	C JONE	6 (RCU)	3	none	none							
	AMPLIFIER INSTALLATION APPLICATIONS and FOOTNOTES (Line patput converter required)	Toe 1	Type 1	lype 1	Fee. 4	Type I are 5 if DPS arelist	Tree 4 and 1 DON and	lype I or 2 (LUCS only)	Type 1 or 2 (LOCB only)	Type 1 or 2 (LDC8 only)	Type 1	Type 1	Tee 1	Tagi	Teast and A DING and	Type 1 or 2 (LOCS only)		Type 1	180	Time 1	Type 1 or 2 (LOCS only)		Type 1	Type 1	Time 1 or 2 (1 ICS mily)	(fine poor) a to call	Type 1 or 2 (LOCB only)	Type 1	Type1	lyet Treet	ladi.	Type 1	Type 1 or 2 (LOCS only)	Type 1	Type 1	Type 1 or 2 (LOCB only)	lype 1	Tons 1	Type 1		Type 1 or 2 (LOCB only)	
	STEERING WHEEL CONTROL INTERFACE APPLICATIONS and FOOTHOTES USE part #																																FROSWZ	FRDSWZ	FROSINZ							
	AUXILIARY INPUT INTERFACES use part #	1800											SUST with DOCKHORD (DT) or AUGUSTA (U.S. DF)	The pay and man have in the more than took	AND AND ADDRESS OF THE AND ADDRESS OF THE PARTY OF THE PA	Shall will bosed only joil of Australia joil by July				STATE OF THE PARTY OF MANAGEMENT OF THE PARTY OF THE PART	מנים ומנים וערכים מנים ומנים ומנים ומנים ומנים		SDST with DOCKFORD (DT) or AUKFORD (D2, D4) SDST with DOCKFORD (D1) or AUKFORD (D2, D4)		STICS with INDICEDIBLI INT LITERISTICS IN THE	cool missoon of full a vaccina fact and					Proc St. norstron and - all person and -	SOSI WILL DOCKFORD (D.) OF ALLICFORD (D.), CHI.										
anine	CO CHANGER INTERFACE APPLICATIONS AND FOOTNOTES THE PART OF												SWEDT OF ALERT OF KNEDT, with FCS (CS)	ORDINATION NICH MINISTER (M)	MINE AND	SWOT OF ALTOT OF MITOL WILL TOO TON!				SHEM AS I EM AS BREEN WISH ETS (PM)	SELDI ILI MEDI ILI MEDI MENTENDI INCI				SUPPLIED BY THE REAL PROPERTY.	Official of Action of Family, Warrior (bod)					Author and the selection and the post	SWEDT OF ALTON OF NATION, WITH FLOW (CT)										
	RETAIN ONSTAR use part #	100	1000	14.													Ŋ																									
כפ	RECEIVER	(R2)	(R4)	(H4)			200	(M. HS, R11)	(R1. R6. R11)	(R1, R5, R11)	(R2, P6)	(R2, R6)			20	(A1, R5, R11)				(KZ)	(Rt. RS. Rt1)				8 10	(m., na)	(R1, R6, R11)		(RS)	(RS)	(33)		PI. R. RII)			M. N. MI	(Z)	101 00 001	[M], nc, maj		(R1, R6, R11)	
227	RECEIVER INSTALLATIONS use part #	PWR1	DENZ	. 2090	to the standard	Interface not needed	COCSUBA (NOT SUR)	HE	FID	FRD2	PWRI	PWRI	Inferigos not needed	Interface not needed	waters .	UCINA FBID		Interface not needed		PUIT Interface and searched	HIGHER TO RESIDE		Interface not needed	Interface not needed	UDM	UCURA	FIDE	Interface not needed	CENZ	OENZ	DENZ	Call for details	FIDE	PWR1	PWR1	FIRST PARTY	PWRI	Maria	PWR1		FIDE	
700	INSTALL NOTES (pps 44-52)					24.41	# H	==	वर.				報			it at					14 (94.97)				7	E	# [3]					F3,14	# 19455					27,100	5		az.	
SOUNDOALE COOK Application	VEHICLE IDENTIFIER/ QUALIFIER	With 6-speaker factory system	With 6-speaker factory system	With digital or analog receiver and	Premium Sound System	With Premium audio system	With Mach 460 system	With factory AM / FM receiver	With the Mach-460 sound system	With factory casselle or CO player	With 6-speaker factory system	With amplifier located in the dash	M	Without CD-changer controls,	or AMPN only.	With the word Authorafic on the	tape door, or with factory CD	Without word Automatic on tape door	N	M.	With Section exceeds or (3) plaser	(lose use of EQ, if equipped)	W =	Without CD-changer controls on	factory radio, or AMFM only.	with Cu-changer controls on laborry casselle	With the word Automatic on the lape door or with fastore CD	Without word Automatic on tape door	With Premium Sound System	With Premium Sound System	Without Premium Sound system	All Utilians III India Setam	7	Without word Automatic on tape door	With AMFN tuner only no cassette	With Teogle' type volume control	With words Premium Sound on speaker		With factory ED, amolifier switch, or	100	With word Automatic on laye door, or	
	YEARS	1987		1966		ng 2001-02		1994-00		1983	1987-92		16	1997-98		10770	200		1987-93		Funds 1995-UZ		-	1997	500500	F-0051	1988-94		1985-88	1985		Tamps 2000-02	1900-05	-		1988-91	1966-87		1984-65		1994-97	
SOU	MAKE and MODEL	(TD Crown Victoria (cont.)			-	Mustan							Pickup, FSeries							- 12	Picture, Super Unity		Ranger														201	40	shit		Thunderbird	

100	FACTORY ES AMPLIFIER al) LOCATION		100			ш	9000		8	none	**			3	y w	NOTE .	none	none	and a	0 (300)	G (sub)	200	none	none	a mus	×	*	A (optional)	3	3	lione K	ć =st	-	3	3	TOTE	none	DODE		- Unit	000	none	none	none	
	AMPLIFIER INSTALLATION APPLICATIONS and FOOTNOTES (Line patput converter required)	Type 1 or 2 (LOCB only)	Type 1	Toe	Type 1	lype 1	Total	ine i	Type 1 or 2 (LOC8 only)	Type 1	Time 1 or 1008	Type 1 or 2 (LOCS only)	Type 1	The first and the second	Type I of 2 (LUU-8 offly)	Type 1	Type 1	Type 1	Type	Type 1	Type 1	Type i	lype 1	Tage 1		Type 1	Type 1	Type 1	Type 1	126	Tens 1	Total	Type 1 or 2 (LDC8 only)	Type 1			Tiget	Tiget	Type 1 or 2 (LOC8 only)		Type 2 (LLU-S OF LUCHTEA)	Type 1	Type 1	Type 1	
0	STEERING WHEEL CONTROL INTERFACE APPLICATIONS and FOOTNOTES USE part #								FIDSW2		REMOTE! 5 or GAISM?	REMOTEL 5 or GMSW1		MINING C CHANNIN	REMUTELS OF BASATI										READTELS or GASSAT																				
	AUXILIARY INPUT INTERFACES use part #						TO STATE OF THE PROPERTY OF LEAST AND THE PARTY OF THE PA	SOSI with DOCKFORD (D1) or ALXPORD (D2, D4)			STST with DOCKORT OFF	SDS1 with DOCKEM1 (D1)		CONT. TO DESCRIPTION OF THE PARTY	SOSI WITH DUCKSMI (D1)	The supplemental services	SDS1 with DOCKEM1 (D1)	SDS1 with DOCKSM1 (D1)		SDS1 with DOCKGM1 (D1)	SDS1 with DOCKGM1 (D1)		SDS1 with DOCKGM1 [D1]	SDS1 WID LUCKSM1 [U1]	SDS1 with DOCKGAM (D1)	SDS1 with DOCKGM1 (D1)	SDS1 with DOCKGM1 (D1)	SDS1 with DOCKEAM (D1)	SDS1 with DOCKBIN1 [D1]	SDS1 with DUCKSM1 (DT)	SDS1 with DOCKRAM (D1)	SDS1 with DOCKGM1 (D1)	SDS1 with DOCKGM1 (D1)	SDS1 with DOCKGM1 (D1)	SUST WITH LOCKSIN [UT]	SUST WHI DUMBRI [U1]	SDS1 with DOCKHOND (D1)	SDS1 with DOCKHOND (D1)				SDS1 with DOCKHOND (D1)	SDS1 with DOCKHOND (D1)		
ם מחומם	CD CHANGER INTERFACE APPLICATIONS AND FOOTNOTES USB part #						SUBDI or A RDI or KNIPI with RCS (CS)	SNEDI or ALPDI or KAIPDI, with FGS (C3)																													ALPHSTR with ALPMFIDT (C4)	ALPMSTR with ALPMHO1 (C4)	ALHIN, (CS)	ALHIT, (3)		ALPNSTR with ALPMHD1 (C4)	ALPMSTR with ALPMHD1 (C4)	ALHINI, (C3)	
מכום	NETAIN ONSTAR ESS part #					İ					Statified (T7)	Startfod		Parallel I	Startiful	A STATE OF THE PARTY OF THE PAR	Startford (T2)		Startford (T2)				Startfod (T2)	Sartifod [11]	ORNER	Startfod	StarMod	Starflod (96)	Startlod (72)	Starffor	Startfor	Stelled	Stanford (98)	Startfod (T2)	Starting	ONEMO	Y					*		18	
	RECEIVER	(R1, R6, R11)		(R2)	(R2)	(R2)			(R1, R6, R11)		98	(R1, R6)	(R1, R6)	101 001	H. 79											(R1, R5)						(81, 85)							(F1, 85)	90 90	(K1, M8)			100	
ADD APPING	RECEIVER INSTALLATIONS use parl #	FRD2	PWR1	PWR1	PWRI	PWR1	Infection and medical	Interface not needed	FHD2	Interface not needed	DEMA	DEMA	DEMA	Interface not needed	UCM4A Interface not needed	Interface not needed	Interface not needed	interface not needed	interface not needed	interface not needed	Interface not needed	Interface not needed	Interface not needed	Interface not needed	Interface not needed	DEMA	Interface not needed	Interface not needed	Interface not needed	Interface not needed	Interface and reached	OBMA	Interface not needed	Interface not needed	Interface not needed	INCHES NO INCOME	Interface not needed	and needed		Interface not needed	University and needed	Interface not needed	Interface not needed	Interface not needed	
7	INSTALL NOTES (pgs 44-52)								H		82	#55,38	120	26	20								122	275 PBB sould	100 (30 mm)	#25.28	£5,78		55.78	£5,78	25.30	200		#25,28	10.78	10							455	554	
	SS VEHICLE IDENTIFIER/ QUALIFIER		With Retary volume control lands	-		-	anguler in trunk		100	Without word Automatic on tage door	With Standard Bree System				United to speziel system Without forton amilifar flace surfest		-	9		With Screater system	7	100.7		All Mil							Will 4-Speaks Dash-king system				With 9-speaker system	MILE AASPORT SINKE	OZ AII				With Tactiony Bloss System Withhard Bross system		П		
SOUNDOALL	MAKE and MODEL YEARS	Thunderbird (cont.) 1988-93		1981	1985-07	1965	Windelse 2001.00		1994-98		GMC Density Original 2001-02	ê i	Envoy 2002		Jumplemey 1999-tr	1995-97	Fichap C/K 1998-02		Safari van 2000-02	998-00				Sierra pickup 2002	Sanna nichm 1998-01		١	1965-98	Yulon 2001-02	200	0001		1995-98	Yukan XI, 2001-02	2000	Nonda	201-02 broom C		76-2881 D		001	Chie 2001-02		76-5961	

561	S AMPLIFIER		1006	Tune 1 more		TOTE	000	2000	E (Sub)	Elsabi	E (sub)	none	E (sub)	TOTE	1006				F					-	. E	ш		1000	200	1	14.	none E	IME	F	1006		- Leas	· ·	none	u_	none	L'E	200	MODE	u.	auou		
	AMPLIFIER INSTALLATION APPLICATIONS and FOOTNOTES	frame anchor consensus regiment	Tari	ilbe i	Type	100	Time 1	Type 1	Type 1	Me	Type 1	Type 1	Type 1	Type 1	lyx1	los i	Jan	Type I	Type 1	Type 1	Type 1	125	Type 1 or Type 2	Type 1	Type 1	Type 1 or Type 2	Time of I find an I products	Time 1	Type 1	Type 1	Type 2 (LOC8 only)	Type 1 Tuna 5 If DCR would	Me I	Type 2 (LOCB only)	Type 1	Type I	Type 2 (LUUS OF LUUPHEN)	Type 2 (LOC8 or LOCPREA)	Type 1	Type 2 (LOCB only)	Type 1	Type 2 (LUCS Of LUCYHEA)	Me	Type 1	Type 2 (LOCB or LOCPREA)	Type 1	126	1-1
0	STEERING WHEEL CONTROL INTERFACE APPLICATIONS and FOOTHOTES	a lied ann																																														
0	AUXILIARY INPUT INTERFACES	a mediaco	SUSI MEN DUCATURE [U1]	SOST with DOCKHOWD (D1)		SDS1 with DOCKHOND (D1)			SDS1 with DOCKHOND (D1)	SDS1 with DOCKHOND (D1)				SDS1 with DOCKHOND (D1)	SDS1 with DOCKHOND (D1)								SDS1 with DOCKNISS ( D1)			SDS1 with DOCKNISS ( D1)	SUST WITH DUCKNISS (UT)		SDS1 with DOCKNISS ( D1)						THE PROPERTY OF THE	SUST WITH DUCKNISS ( DT)	SCSI WILL DUCANESS [ U1]	SDS1 with DOCKNISS (98) ( D1)	SDS1 with DOCKNISS (98) ( D1)				SOST with DOCKNISS ( D1)	SDS1 with DOCKNISS ( D1)				
	CO CHANGER INTERFACE APPLICATIONS AND FOOTNOTES THEN AND #	A DARCTO	ALTHOUGH WITH ALTHOUGH (CA)	A PAISTR with A PAINTO (C.)		ALPHSTR with ALPHRID1 (C4)	ALHM1, (C3)		ALPMSTR with ALPMHOT (C4)	ALPIASTR with ALPIAHD1 (C4)	ALHIT, (C3)	ALHINI, (C3)	ALHINI, (C3)	ALPAISTR with ALPAHOT (C4)	ALPINSTR with ALPINHOT (C4)								AUST			ALIST	ALISI		AUISI						700	AUSI	ALISI	ALUST (90)	ALNS1 (98)	1			ALIST	ALNS1				
וסמווסוו	RECEIVER OHSTAR FOOTBALLS INSPIRED																						(Rt. 180)	(R1, R5)	(RS)	2 2	RI. NO	day and		IRT. R6)	(R1. R6)	8 89		(R1, R6)		98	ni. ng	(R1, R6)		R1, R6)	50 70	N1, N0)			(R1, R5)			
Suddy Soos	RECEIVER	labulton and anadad	Interface and needed	Interface not needed	Startfod to Integrate Nav. Unit	Interface not needed	Interface not needed	Interface not needed	Interface not needed	Interface not needed	Interface not needed	Interface not needed	Interface not needed	Interface not needed	Interface not needed								OBMA	**	RTI		UDINA	pepedation a				DENAME OF TREADED			Inferface not needed	ACHIA	net needed		e not needed	4	Interface not needed	a not needed	Interface not needed	Interface not needed		Interface not needed	Not Peronmended	
	NOTES (one 44-52)	(marred)																											22												ž.	72						
- 1	VEHICLE IDENTIFIEN	10				100				100					M	Information forficoming	Information forthcoming	Information forthcoming	Information forthcoming	Information forthcoming	Information forthcoming	Morregion inchconney	With factory Bose system	1			With factiony Book system				107	With Sering Rese system		With factory Bose system	Willhout factory Bose system	200	Wilhard factory Brea cyclem	-	-			Without factory Brose system	100		With factory Bose system	Without factory Bose system	All - Information forthcoming	
SOUNDOALL	ODEL YEARS	MODEL TOWN	10	10		1998-00	1995-97	Passon 1995-02	7		1997	1992-96		2000 2001-02	2000	Accent 2002	d	Santa Fe 2002			XC300 2002		520 1998-02		1990-96	105 2002	1006-01	in oper	15300 2001-02	J30 1995-97	1993-94	M20 1001.00		1990		CHO ZUIG	D-SSS	1997-98		159-150 159-150	00 0007	PS-205	OX4 2000-02	1998-99	1997		Asian 2002	ı
300	MAKE and MODEL	MA	S	The same of the sa											The state of the s	HTUNDAI						INCINITI	MININI N																		01					PILITIE	0706	

n m	FACTORY AMPLUFIER LOCATION			Esubs 8 ctr. ch.		0		none	3	none			-	H H	1016	none		120vatt	TOUG TOUG	tms	1006	none	TOTE			0		101/1/1	000						0	0		0	0	9 6				0	+545amp	Behnall	-
	AMPLICATIONS and FOOTNOTES (Line output converter required)	lype 1	Type 1	Tree 1	Type1	Type 1	Type for 2	Type 1	188	Type 1	Type 1	lyte I	1201	True I	Tect	lype 1		Type Tor 2	Time 1	Inte 1			lige1	line i	Type 1			Type 1	lyge 1	Type 1			Total	(LOCS or LOCPREA)				ar 2 (LOCB only)	Type 1							Type 1	
	STEERING WHEEL CONTROL INTERFACE APPLICATIONS and FOOTNOTES ASSESSED.									REMOTE1.5 or CRSW1			1	REMOTELS or CRSW1																																	
8	AUXILIARY INPUT INTERFACES USE part #			SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)						SDS1 with DOCKLORITS (D1) or AUXCHRY (D2)		SOSI with DOCKLORPZ (DT) or ALGICHRY (DZ)	SUST with DUCKLERT (DT) or AURCHET (DZ) SUST with DUCKLERT (DT) or AURCHEV (DC)	SOST with DOCKDRY3 (D1) or AUCCHRY 195-981 (D2)	SDS1 with DOCKCRP2 (D1) or AUXCHRY (D2)	SOS1 with DOCKCRY3 (D1) or AUXCHRY (D2)						SDS1 With DOCKKIA (D1)	SDS1 WIth DOCKKIA (D1)				SDS1 with DOCSHAW (DS) or ALKBARW (DS)	AND THE PERSON NAMED IN TAXABLE PARTY.	SISS with DOLSHAY (LS) or ALKBAYA (L6)	OOL HERMAN IN TOO HERMAN TOO																*	
anine	CD CHANGER INTERFACE APPLICATIONS AND FOOTNOTES USE part #			SNED1 or ALFD1 or KNED1, with FCA, (C1, C4)		with ALPNASEL, ICAS	2000 4 600	espy Moore	pine sir-bus urect	ALPRISTR with ALPRICR1, (C3)		ADRENTS OF KNICKEYS with CRESICSD (CS)	ALREYS OF MICHEYS WITH UNDELTHING (LS)	ALPHSTR with ALPHOTH (95-98) (C3)	ACRZIV3 or KNCRZV3 with CRCBLSQ (C3)	ALPHSTR with ALPMORT, (C3)	d a linda and the	Hef a library option	Not a factory collen	Not a factory cotion	Not a factory option	Factory only	Factory only	Pioneer CDXACO Direct	Clarion Direct		RVRICBLD with ABMIVISIVS or KBMMVS or SNBMW (C3)		NYHLOLY WITH ABREWISSYS OF NEWWYS OF SINDSWY (LS) RVBICRI D with ABREWISSYS or KRAMAYS or SARAMA (CS)																		
ICalloll	RECEIVER ONSTAR FOOTWOITES USE part #			S		1921	(RJ)		(N. N)				(R1, P5)		W W	Y		M.m				See 1	25			(R1, R5)		(R1, PS)	(R1.85)					(R1, R5)	(8)	(R1, R6)		(84)	(80)	81.80				(89)	(3)	(Rt. 185)	
2001	RECEIVER INSTALLATIONS use part f			LOCHVALOCSUBA				Interface not needed		ace not needed			DEMA	e not needed	Interface not needed	Interface not needed		UEMAN not needed	Interface not needed	Interface not needed	Interface not needed	Interface not needed	Interface not needed	DEMA		DEMAK (R		DEM44 (R	DENA			Not December and ad	Not Recommended			OBMA (R		IJ,		OEMA ROCCO					not needed	OBIAM (R	
700	INSTALL NOTES (pgs 44-52)			H,66																				50	35	£15		112				2	icii		utton		82				2540	22	22				
SOUNDOALE ZOUZ APPINC	YEARS VERICLE IDENTIFIER QUALIFIER		UT AII - Intormation furthcoming	1999-02 All			1996 XJ12 writeman Kardon system	X,6 wiB-speaker system	SECTO AL	1996-01 All			1999-UI WITH INTERNATION SIGNAL STREET		2002 All			ZULI-UZ WITH AMPRINU	2001-02 All		2	7	1995-02 All	1991-94 With Schory CD change confinis		19H-56 All		4		1902-99 Al	1111	2002 Information forthcoming		1999-95 With Natamichi Tactory system	W Pioneer factory system, no CD button				1990-96 With double DIN radio		99	2002 Information forthcoming	2002 Information forthcoming			0-01 All	
SOUND	MAKE and MODEL YEA	Ш	JAGHAR VENCIOSS 2001	S-Type		All Models 1996	₽Ĭ.	1005	IFFP	Cherolee		Grand Cherotee 20.	1901	2	Uberty 200	Wranger		into Buildo	No. 2001				Soutage	LAND ROVER All Models 1991	l '		Discovery 2000		Rane River 2000	inista initia		SCA30 SCA30		1881			ı li	625030	SK	00153	0000000	0023	15430	15400		RX300RX400 2000-01	

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	AMPLIAER INSTALLATION FACTORY APPLICATIONS and FOOTNOTES AMPLIAER (Line output converter required) LOCATION	1 0	-	Faib		1 E	9	or 2 (LICS only)			Type 1 or 2 (LOOS only) E		or 2 (LOCB only)	Type 1 or 2 (LOCB only) 8 or E		Type 1 of 2 (LUGB only) A				Type 1 or 2 (LOCB cnly) E	10 E	ıı		Type Z (LUUS of LUU-MEN) E	e1 8	Type 2 (LOC8 or LOCPREA) 8	ef none	Type 1 none	0r2	e i none	Type 2 (LOCB or LOCPREA)	Type 1 none	e i none	Type 1 or 2 (LOCB only) F	Type 1 or 2 (LOC8 only) F	Type 1 none	Type 1 or 2 (LOCS only)	Type 1 none	Type 1 or 2 (LOCB only)	Type 1 or 2 (LOCB only)	
0	STEENING WHEEL CONTROL INTERFACE AME APPLICATIONS and PODYIOTES APPLIC Use part #	1 adal	Type 1	Tand	lani.	Type 1	100	au,	Type	Type 1		Tige	Type	No.	I also	190k	1904	Lapli		I/O	adj.	Type 1		ON COL	Sold Topic	N		24,22		Type 1	The state of the s	M.	Type	di	di	M	P. Control of the Con	N.	96	No.	
0	AUXILIARY INPUT INTERFACES USE part 4			SDST with DOCKEDRD (D1) or AUXFORD (D2, D4)	SDS1 with DOCKFORD (D1) or AUKFORD (D2, D4)		ON COUNTY OF THE PROPERTY OF T	מספר שוני מספר מונים (מיו אי שמער מונים (מילי מיו		SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)	1		SDS1 with DOCKFORD (D1) or ALXFORD (D2, D4)		SDS1 with DOCKFORD (D1) or ALDFORD (D2, D4)	SUST WITH DUCKFURD (LT) OF AUXFURD (LZ, L4)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)								SDS1 with DOCKMAZD (D1)	SOST with DOCKNAZD (D1)	ini ise ne innegativa ini inne		SDS1 with DOCKANAZD (D1)	SDS1 with DOCKMAZD (98) (D1)	SDS1 with DOCKWAZD (98-99) (01)				SOST with DOCKFORD (D.1) or AUXFORD (DZ, D4)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		
n Guide	CO CHANGER INTERFACE APPLICATIONS AND FOOTNOTES use part #			SNEDI or ALEDi or DNED1. with FCS (CS)	SWEDT or ALPD1 or KNED1, with FCS (C3)		SUBJECT OF THE PROPERTY OF THE	OHOLO TO THE OHOLO THE TOO OH		SNFD1 or ALFD1 or KNFD1, with FC5 (C3)			SNFD1 or ALFD1 or KNFD1, with FC2 (C3)		SNFD1 or ALFD1 or KNFD1, with FCS (CS)	SAFETY OF ALLED OF KARED, WITH FLZ (CZ)	SNR01 or ALR01 or KNR01, with FCS (C3)	SNFD1 or ALFD1 or KNFD1, with FC3 (C7)									2.9	יפווות הוובהי			ALMOT. (CA)		Sanyo Direct			SHFD1 or ALFD1 or KNFD1, with FCS (C3)	SNFD1 or ALFD1 or KNFD1, with FC2 (C3)		SNFD1 or ALFD1 or KNFD1, with FC2 (C3)		
lication	RECEIVER ONSTAR FOOTNOTES use part #	(81, 85)	(R1, NS)					/Rt R6 R11)	(M)		(R1, R6, R11)	(Bil	(R1, R5)	(R1, R6, R11)	2	图. 地				(R1, R6, R11)	(RI, RE, RI1)	(RI)	2	(M, 76)	(RS)	(R1, R6)	100	(88)	(R1, R6)		(3,3)		(88)	(RI, RS, RI1)	(R1, R6, R11)	(RB)	(R1, R6)		(R1, R6)	(R1, R6, R11)	
2002 Applic	RECEIVER INSTALLATIONS USE part #	DEMA	DEMA	LOCSUBA for subs)	LOCSUBA (for subs)	Call for details	or show	RID	OBNZ	LOCHVALOCSUBA	100 E	080	OBMA	FIDE	Interface not needed	DEMA Interfers and manded	Interface not needed			FRD2	FHD2	OBIZ	***************************************	DEMA	Interface not needed	DEMAA	Interface not needed	Interface not needed	OEMAA	interface not needed	OBMA	Interface not needed	Interface not needed	FRICE	FRD2	Interface not needed	DEMAA	Interface not needed	DENA	FRD2	
002	INSTALL NOTES (pgs 44-52)			11 32 11	H.38		The state of the s	000		436, 48, 66			radio		als AS	32	2 52		О.						rear amo				祝									NH.			
SOUNDGAIE 2	RS VEHICLE IDENTIFIER QUALIFIER	01 AI	99 With Premium system	W 40		1	system-UIX() No interface available			-		Softony receiver				-98 With factory CD-changer controls	-40 With factory CD-changer controls		factory DAS (distributed audio system 1100 No Infectors aucliable		ter.	Bctory receiver			FIZ. Millianuri Dust system	3.10	300	PASS WITH DALINY TO TUNNAME LAZE LAZIO	516	-		N Marineson Isturpanning	187	24.44	1	8-02 With factory CD-changer controls	1	Without CD changer controls, or AMFM only (no cassellle).	-		dear or with factory (3)
OND	MAKE and MODEL YEARS	FX470 2000-01	1998-99	Configurable 2001-0	1998-00	1956-97		1900-6	79-2061		Mark VI 1995-69	1984.97	Mark VIII 1995-98	1900-94	Navigator 1999-02		00-8001	195-91		1990-94	1989	1994-87		K59 1992-96	0	Mata 2000-02	2007	194001	Milenia 1999-02			1997-01	1995-96	Navajo 1993-94	26-1661	Picture 1998-02	3		1995-96	1981	

PATRONISTS         ONSTRAIT         APPLICATIONS NO PORTUNISTS         INTERPRETATION SERVED TO THE PROPERTY OF A PARTICULAR SERVED TO THE PARTICULAR SERVED TO THE	NOTES INSTALLATIONS [pgs 44-52] use part # Interface not needed Interface not needed
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AND CONTROL OF CONTR	ace not needed
SAST INSTITUTION   TOTAL	
MANEE 66-96 (24)   The 2 (1000 to 1000 to 10	Interface not needed
SAME   CORP.	Interface not needed
BANDEST DESCRIPTION   TOTAL DESCRIPTION	Co life 55
BANKEY LINE DOUGS (12)   BANKEY LINE DOUGS (13)   BANKEY LINE DOUGS (	See Note 554
MANNET HIS POST POST POST POST POST POST POST POS	Se list 55
SAMEST IND BOST ICES   SAMEST ICES	を開発
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BOANES (CE)   BOANES (CE)   Tope 1 (CE)     BOANES IN THE BEST (CE)   Tope 1 (CE)     BOANES IN THE BEST (CE)   Tope 1 (CE)     BOANES IN THE PARKET BEST (CE)   Tope 1 (CE)     BOANES IN THE PARKET BEST (CE)   Tope 1 (CE)     BOANES IN THE PARKET BEST (CE)   Tope 1 (CE)     BOANES IN THE PARKET BEST (CE)   Tope 1 (CE)     BOANES IN THE PARKET BEST (CE)   Tope 1 (CE)     BOANES IN THE PARKET BEST (CE)   Tope 1 (CE)     BOANES IN THE PARKET BEST (CE)   Tope 1 (CE)     BOANES IN THE PARKET BEST (CE)   Tope 1 (CE)     BOANES IN THE PARKET BEST (CE)   Tope 1 (CE)     BOANES IN THE PARKET BEST (CE)   Tope 1 (CE)     BOANES IN THE PARKET BEST (CE)   Tope 1 (CE)     BOANES IN THE PARKET BEST (CE)   TOPE 1 (CE)     BOANES IN THE PARKET BEST (CE)   TOPE 1 (CE)     BOANES IN THE PARKET BEST (CE)   TOPE 1 (CE)     BOANES IN THE PARKET BEST (CE)   TOPE 1 (CE)     BOANES IN THE PARKET BEST (CE)   TOPE 1 (CE)     BOANES IN THE PARKET BEST (CE)   TOPE 1 (CE)     BOANES IN THE PARKET BEST (CE)   TOPE 1 (CE)     BOANES IN THE PARKET BEST (CE)     BOANES IN THE PARKE	See Note For
BANKER With BKT BKT (Tab)   Trace 1 (Ltz)	Interface not needed
6 1 20095 1 (2) 1 1009 1 1009 1 (2) 1 1009 1 1009 1 (2) 1 1009 1 1009 1 (2) 1009 1 (2)	Se Mile Sc
61 ALMAGE 158 and 10-41 61 ALMAGE 154 and 50 in 10-41 61 ALMAGE 154 and 50 in 10-41 61 ALMAGE 154 and 50 in 10-41 62 ALMAGE 154 and 50 in 10-41 63 ALMAGE 154 and 50 in 10-41 64 ALMAGE 154 and 50 in 10-41 65 AT in 10-41 65 AT in 10-41 66 AT in 10-41 66 AT in 10-41 67 AT in 10-41 68 AT in 10-	DEMAA
ALMES   SH-TMIST with ALPHIST (CS)   Type 2   LLCCS or LCCPREQ	DEMA
6. 611)  6. 611)  6. 611)  6. 611)  6. 611)  6. 611)  6. 611)  6. 611)  6. 611)  6. 611)  6. 611)  6. 611)  6. 611)  6. 611)  6. 611)  6. 611)  6. 611)  6. 611)  6. 611)  7 ppe 1  r 2 (LODS only)	DEMAA
6, R11)  6, R11)  6, R11)  7, Page 1  7, Pag	Call for debits
SERTI         Type 1           6, R11)         Type 1           6, R11)         Type 1           6, R11)         Type 1           7, R11)         Type 1           8, R11)         SURD1 or ALL/FOL or CMPD1, with FCA (C1)           8, R11)         SURD1 or ALL/FOL or CMPD1, with FCA (C1)           8, R11)         Type 1           7, R21         Type 1 or 2 (LOCS only)	
6, R11)  6, R11)  6, R11)  6, R11)  7, Page 1  7, Page 2, P	DENZ
6, R11)  6, R11)  6, R11)  6, R11)  6, R11)  7, Red 1  7, Dec 1  7	PWRI
6. R11)  6. R11)  6. R11)  6. R11)  6. R11)  7. Det 1 or 2 (LODS only)  7. Det 1 or 2 (LODS only)  7. Det 1  7. Det	
6. R11)  7. Dec 1 or 2 (LODS only)  7. Dec 1	PWRI
6, R11)  6, R11)  5, R11)  5, R11)  5, R11)  5, R11)  7, Inper 1	FRD2
6, R11)  SARD1 or ALJE(1 or KAFD1, with FC4 (C1)  Type 1  Type 1 or 2 (LOC3 only)	Interface not needed
Type 1         Type 1           5,R11)         SURD1 or ALFD1 or NORD1, with FC4 (C1)         SUSS1 with DOCKFORD (D2) or ALLXFORD (D2. C4)         Type 1           6,R11)         Type 1 or 2 (LO3 only)         Type 1 or 2 (LO3 only)           6,R11)         Type 1 or 2 (LO3 only)           7,Re1         Type 1 or 2 (LO3 only)           7,Re1         Type 1 or 2 (LO3 only)           7,Re1         Type 1 or 2 (LO3 only)	FRD2
Type 1         Type 1           6, R11)         SURD1 or ALFERI or KNFD1, with FCA (C1)         SURSY with DOCKFORD (D1) or ALLUKTORD (D2, C4)         Type 1           6, R11)         Type 1 or Z (LOSS only)         Type 1 or Z (LOSS only)           6, R11)         Type 1 or Z (LOSS only)           7, R11)         Type 1 or Z (LOSS only)           7, R11)         Type 1 or Z (LOSS only)	PWR1
SHED1 or ALEB1 or KRED1, with FCA (C1) SDS1 with DOCKFORD (D1) or ALLXFORD (D2, D4) Type 1 Type 1 or 2 (LD35 only) Type 1 Type 1 or 2 (LD35 only) Type 1 or 2 (LD35 only) Type 1 or 2 (LD35 only)	PWRI
SNED1 or ALEO1 or KRED1, with FCA (C1)  SNES1 with DOCKFORD (D1) or ALIXFORD (D2, D4)  Type 1 or 2 (LD3 only)  Type 1 or 2 (LD3 only)  Type 1 or 2 (LD3 only)	PWR1
Τηρε 1 or 2 (LO3 ank)   Τηρε 1   Τηρε	Interface not needed
Type 1 Type 1 or 2 (LU39 oriy)	FRID
Type I or 2 (LODS only)	Interface not needed
	FRICE
	PWRI
	Interface not needed
STISS with DOCKEDED DATA or ALTERDAD LIPS THAT	
SMFD or ALFD or NRFD1, with FCS (CS) sign b DOCKFORD (DD) or ALDKFORD (DC, D4) Type 1 Type 1 Type 1	Interface not needed
SISSI with DOCKEORO (01) or ALIXEORO (02, 04) SISSI with DOCKEORO (01) or ALIXEORO (02, 04)	FRD2

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	S AMPLIFIER 10CATION	none	1	69	ш	9	F, ROU &	B	non		200		ш	9	u	note	none		ш	œ	ш	w	9008	2000	w		none		MAN	100	69	5	ம	0	non	1000	0
-1	APPLICATIONS and POOTNOTES [Line output converter required]	Tipe1	Type 1	Type 1	Type 1	Type 1	Type 1 or 2 (LOCB only)	Type 1 or 2 (LOCS priv)	Type 1	Type 1 or 2 (LOCS only)	Type 1	lype 1	Type 1 or 2 (LOCB only)	Tree	Type 1 Twe 1 or 2 if DDR maly!	The	Type 1	Type 1 or 2 (LOCB only)	Type 1	Type 1	Type 1	Type 1	Type 1	Type 1	Type 1 or 2(LOCB cnly)	Type 1 or 2(LOCB only)	Type 1	lack.	Type I	Not 1	Type 1 or 2 (LOC8 only)	Type 1 or 2 (LOC8 only)	Type 2 (LODB or LOCPREA)	MTSAMP or Type 1 (A1)	Type 1	Milchar or ign IAI)	MTSAMP or Type 1 (A1)
	STEERING WHEEL CONTROL INTERFACE APPLICATIONS and FOOTNOTES use part #														HISW	HISW	FIDSW2															FADSW2					
).	AUXILIARY INFUT INTERFACES use part #						SDS1 with DOCKFORD (D1) or AUCFORD (D2, D4)	SDS1 with DOCKFORD (D1) or AUXEORD (D2 D4)	SDS1 with DOCKFORD (D1) or AUDFORD (D2, D4)	SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)		SOST with DOCKFORD (DT) or AUXFORD (D2, D4)		SDS1 with DOCKFORD (DT) or AUXFORD (D2, D4)	SDS1 with DOCKFORD (DT) or AUXEORD (D2, D4)									SDS1 with DOCKFORD (D1) or AUXFORD (D2, D4)					STISS with DOCKEDAD INTO or All REGION AND DAY	SOST with DOCKFORD (D.) or AURFORD (D.) DH	SOSY with DOCKFORD (D1) or AUKFORD (D2, D4)		SDS1 With DOCKMITS (D1)	SDS1 With DOCKMITS (D1)	SDSI WIN DOCKMITS (D1)	SUST WITH DOCKNITS (DT)	COCH MAN DOCUME (TA)
	CO CHANGER WITHFRACE Applications and Footnotes are part #						SWEDT or ALEOT or KNEDT, with PCS (CS)	SMEDI or ALIEN or VOICE with FCS (CS)		SNIFD1 or ALFD1 or KNIFD1, with FC2 (C3)		SNEDI or ALEDI or KNEDI, with FC3 (C7)		SMFD1 or ALRD1 or KMFD1, with FC3 (C7)	SIRDI or ALFO1 or MIRDI, with FC3 (C7)									SNED1 or ALFO1 or KNED1, with FC2 (C3)					Sign of all the wild first sign of the sig	SHELL OF ALTON OF KNEW THE TEST (SA)	SNED1 or ALFD1 or KNED1, with FC2 (C3)						
	RETAIN ONSTAR use part #	ļ					ì																												1		
5	RECEIVER	9	(R2)	(82)	(82)	(R4)		EH HS	50000	(Rt, R6)			(R1, R5, R11)		OH DE PHI	RI RS	R1, No.	(R1, R6, R11)	(R1, R6)	(R1. P5)	(R1, R5)	(Rt, R6)	(R1, R6)		(R1, R6)	(R1, R6, R11)	(R1. R6)	(E2)			(R1, R5)	(R1, R5, R11)	(R1, R5)	(R7)	4	(RJ)	
	RECEIVER INSTALLATIONS use part 8	Interface not needed	PWRI	PWRI	PART	DENZ	LOCSUBA to keep	DEMAN	Interface not needed	DENA	Interface not needed	LOCSUBA to keep factory sub	FRID	Call for details	Call for details	PMR	PMR1	FRD2	PWR1	PWEI	OBMA	PWRI	PWR1	Interface not needed	DEMA	FADD	PMRI	PWR1	Not recommended	Interface and needed	OENA	FH02	DENHA	MITSPOYR	Interface not needed	MTSRCVR Interface and rearled	MICHALE NOT RECUEN
	INSTALL NOTES (pgs 44-52)						H,38	19		1		£1,4,36	H	43,14	A, 14	19.30		#			HS			計	H,14	# (94-50)					#	14 (34-32)					
	VEHICLE IDENTIFIER DUALIFIER	Without word Automatic on lape door	With rotary volume control and factory amolifier in the trunk	With rotary volume control and amplifier bushed fall may from	With amolifier on underside of rear deck	Without digital factory receiver, amolifier behind rear quarter frim	180.	With subwooler, call for details With Pramium count exclam	stem		Without CD-changer controls on factory radio, or AMFIN only.	With JBL system. This is factory DAS (distributed audio system - LUX), No Interface available	With premium sound on speaker grilles		the count is described on the tree deep	١	With AMFM tuner only — no cassette	With 'toggle' type volume control	With rotary volume control and factory amplifier in the frunk	With rotary volume control and amplifier bashind tell reser trim	Clark for ton time	With factory EQ, or amplifier located on underside of may deck	With factory digital receiver, but without fectors acceptory	Without words Premium Sound on Tare Goot.	With Premium Sound System	With cassettle, and amplifier under destylered, or with Tactory CD	With factory casselle player, who amp	With words Premium Sound on grille	With factory video system	Without tactory video system		With the word Automatic on the tape door, or With factory CD	7	With Infinity Sound System	Without Infinity Sound System	With Infinity Sound System	ACOUNT INTER SOME SYSTEM
Š	YEARS	1992-94 WR		15 3	1986-87 WR	4.11	1999-02 Wi	S   S	= ×	1997-88 Cz	1000	N 16-3891	1995-98 Wi		1996-99 All		13		W 190091	= 2	1987-94 All		1985 W	1997-02 W		W 38-5901	1953 W		2001-02	1000.00			196-99		- 1	1995-02	
SOUNDAINE COOK INDONE	MAKE and MODEL	Grand Marruis (cont.)					Nourtzieer						Mystique	10							Tonez	ļ.	ħ.	Tara					Wager			146	TSUBISHI 3100GT	Diamanie		Edips	

1982   St.   St.	D.	AMPLIFIER	non-more		autu	0	DONE			_	BOOK	none			u			- L		none	eme.	NIN .	DOUG	MICE			101	non	none n		tone			none	90	age	900	_	HORE	1006	9	G (sub)
Column   C	- 1		Type 1		Type 1	MTSAMP or Type 1 (A1)	Type 1	lype 1	Type 1	Type 2 (LOC8 only)	I addi	Type 1	Type 1 or 2 (LOCS only)	Type 1	Type 1	Type 1 or 2 (LOCS only)	Type 1	Type 1 or 2 (LUCIS only)	Type 2 (LOCR only)	Type 1	Type 2 (LUU-6 GRW)	Type 2 (LOCS only)	lype 1	Type 2 (LOCS park)	Type 2 (LOC8 only)	Type 1	lies!	Type 1	Type 2 (LUGO ORRY)	Type 2 (LOC8 only)	Type 2 (LOCS only)	Tet.	Toe1	Type 1	COCHIN ONL	Type 1 Type 2 (LOCR pally)	lype 1	Type 2 (LOCB only)	Type 1	Total Total	lyze I	Type 1
Figure   F		STEERING WHEEL CONTROL INTERFACE APPLICATIONS and FOOTHOTES use set #																												FROSM2	FRDSW2				* *************************************	remule13			DEMNTES 6 (SS)	REMOTE(5	REMOTETS or GMSW1	DEMANTS E CARPINS
Statemark   Stat		AUXILIARY INPUT INTERFACES 100 BOTH	SDS1 With DOCKWITS (D1)			CASCIATE DOCUMITS (P.)	SOST WITH DOCKANTS (D1)	SICH WITH LUCAMINIS [U1]	SDST with DOCKNISS (98 cely) (D1)					SDS1 with DOCKNISS (D1)		SDS1 with DOCKNISS (D1)	SOST with DOCKNESS (DT)	SUST WILL DOCKNESS DTI	SDS1 with DOCKNISS (98-99) (D1)	SDS1 with DOCKNISS (98-99) (D1)				SDS1 with DOCKNISS (98-02) (D1)	SDS1 with DOCKNISS (98-02) (D1)		SOST with DOCKFORD (D1) or AUXFORD (D2, D4)	SDS1 with DOCKFORD (D1) or AUKFORD (D2, D4)	SOST with DOCKFORD (DT) or AUKFORD (D2, D4)			SOST with DOCKNISS (D1)	SDS1 with DOCKNISS (D1)	PAGE 11 PARAMETER PAIN	SUSI WITH DUCKNISS [U1]	SUST WITH UNLABILIZ (SO-95) (U.)		*	CDC with DOCKERS (SE-60) (This	SDS1 with DOCKERIZ (D1)	SDS1 with DOCKGM2 (D1)	APAR WINDSHIP TO A
September   North		CD CALNOER INTERFACE APPLICATIONS AND FOOTHOTES USE BAIL®				ang schib drivers								ALIIS1 (C3)		ALIIST (C3)	AUST (C3)	AUS (G)	ALNS1 (96-99) (C3)	ALIS1 (58-39) (C3)				ALIS1 (99-02) (C3)	ALIS1 (59-12) (C3)		SNFD1 or ALFD1 or KNFD1, with FCS (C3)	SHEDI or ALEDI or KINEDI, with FCS (C3) SHEDI or all EDI or KINEDI wath FCS (C3)	SMFD1 or ALFD1 or KNFD1, with FC2 (C3)			ALIST (C3)	ALIST (C3)	NAT AND IN	ALIS [43]							
Septemble   NOTES	THE SAME		Ш		E	(R)			RSI	[R1, R6]		(18)		(R1. R6)	(R1, R6)	(R1, R5)			(R1. R5)									RI BEI	IIII, they	(R1, R6, R11)	(R1. R6, R11)			8	2	(Rt. RS. Rt1)						
THE	nepenien	RECEIVER INSTALLATIONS USE part #	Interface not needed				Interface not needed	CORT DI CESSES		A		Interface not needed						e most meeded		Interface not meeded	Interface not needed		Interface not needed	Interface not needed			Interface not needed	and needed	e not needed		ro net mediat	INCIDENCE IN INCOME.				CS NOT INCODED		GMB2	Interface not needed	Interface not needed	Interface not needed	
THE	1 interests	NSTALL NOTES (pgs 44-82)																					¥	2	1	æ								٨	And Man and and	fill se uny		131	25	529	929	***
1995-90   1995	П		Without Infinity Sound System	Information forthcoming	-1.8	3 With Infinity Sound System	Without Infinity Sound System	N.		7		With base-level 6-speaker system	With Bose Audio System InvEnter in-dash channer!					With 6-speaker non-Bose system	With factory Bose system		2724	With factory Bose system			With factory Bose system	3 44		7	Without Premium sound system	100	With the world Asternatic on tape door With the world Asternatic on tape door	Information forthcoming	Information forthcoming	With building AMPHICASSER	Will III-dest Awarm to paye				Without rapiory dose system			
		MAKE and MODEL YEARS	Galant (cont.) 1965-02	6	0	1	100	200	20	100	3502 2003	Alfine 2002		1998-01	75-5991	4.			1995-99	1001.04	2	1989-90	1000.00	Pathfinder 1996-02		Ourst 2001-02		1999-00	ne neer	1994-95	256	Sentra 2002					٠,	1965-88	4		- 4	*******

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	FACTORY	AMPLIFIER	T T T T T T T T T T T T T T T T T T T	DOLE	£	none	4	none	× × ×	none	V Tours	1	1008	_	9000	none	۵.	_		. L	none	NOTE	9001	none	DOI:	MATE AND	1006	1000	c	_	none	-	DOME		- DOE	2000	1016	0	0	-	NOTE	-	_	9000	900	A A	TOTE	ш.	8 000	
1381	AMPLIFIER INSTALLATION	APPLICATIONS and FOOTNOTES If the profession remained	Time 1	Type 1	Type 1 or 2	Type 1	Type 1 or 2	- 13	The Property of the Park I was	Type 1	Type 2 (LUCS ORN)	Type 2 if OCS colvi	Type 1	Type 2 (LOCB only)	Type 1	Titel	inge I	Iype 2 (LOCS only)	Type 2 (LUCA GRAy)	Type 2 (LOCB only)	100	Type 1	Type 1	Type 1	Tage 1	Tune	Toel	Type 1	Type 2 (LOC8 only)	Type 2 (LOC8 only)	Type 1	Type 1	Type 1	lype	100	Twe	Met	Type 1	Test	Type1	Tipe	Treating Touri	Type I m 2	Type 1	į	120	Type 1	Type 1	Type 1 or 2 (LOCB only) Type 1 or 2 (LOCB only)	If an annual a sa a salf
0	STEERING WHEEL CONTROL INTERFACE	APPLICATIONS and FOOTNOTES	Not Decommended	Not Recommended	REMOTELS or GMSW1	REMOTE1.5	RENOTE1.5 or GMSW1	REMOTE!.5	REMOTELS.	REMOTELS	PENDIELS DOINTER E	REMOTE! 5	REMOTE! 5				REMOTELS		REMOTETS	REMOTEL 5	REMOTERS	REMOTELS	REMOTELS	REMOTELS or GMSWI	DEMOTELS OF GMSWT	REMOTELS OF CANSIM	REMOTELS or GMSW1	REMOTE! S											REMOTELS or CRSW1						HISTORY CAN CHICAGO	RENUTEL S or EMSWI	RENOTE15 (Cal First)	REMOTETS (Call First)	REMOTELS or GMSW1 REMOTELS or GMSW1	THE PLAN OF SHOWING
1	AUXILIARY INPUT	INTERFACES	a had per		SDS1 with DOCKENIZ (D1)	SDS1 with DOCKBIR2 (D1)	SDS1 with DOCKGN2 (96-99) (D1)	SDS1 with DOCKGAR2 (96-99) (D1)			SDS1 with DOCKSM1 (D1)	COST WITH DOCKSON (DI)	SOSI WITH DOCKGAT (DT.)			SDS1 with DOCKGAR2 (96-99) (D1)	SDS1 with DOCKISM2 (D1)		SOSI with DOCKGAZ (99-00) (01)	SIST WITH DOUGHER (SPEN) (U.)	STISS with DOCKEAU DAT		SDS1 with DOCKGM1 (39-99) (D1)		Che nontri its in the	SUCH WITH DUDWORM (ST-35) [U1]	SDS1 with DOCKGMT (DT)							SDS1 with DOCKCHRY3 (D1)	SDS1 with DOCKCHRY3 (D1)			SDS1 with DOCKCHRY1 (D1) or AUXCHRY (D2)	SDS1 with DOCKCHRY3 (D1)			SDS1 with DOCKCHRY3 (D1)	SUST WITH DUCANGERTS (U.)						SDS1 with DOCKSM2 (D1) -	SUST WILL UNAVOIDE [U1]
n Guide	CO CHANGER INTERFACE	APPLICATIONS AND FOOTNOTES	ace part a	1																	4													ALPASTIS with ALPARCH, (C3)	ALPHISTR with ALPMCRT, (CS)			ACRONIC OF MATERIAL CRESS CIN (CS)	ALPASTR with ALPACR1, (C3)			ALPASTR with ALPARCRI, (C3)	ALPHASIA with ALPHACAT, (CS)							
ation	RETAIN	DINSTAR	a used asso	Wil communicated	Startford		210		StarMod (T1)	StarMod (T1)	Startled	SENIO	Startford	A STORES					Starlod	SERVING				Startflod (T1)	StartMod (T1)	SZANO	SEIMON																		1000	Service (III)	Startford (T1)	StarMod (T1)	Startled (98-99)	(SE-OS) DIMIES
		RECEIVER	FUUINUES		R1 R5		(RI, FIS)		(R1, R5)		(RI, RG)	9	(R1, R0)	(RI. RE. RIT)				(R1, R6, R11)	EH. 165	104 001	[N1, N0]								(R1, R5)	(R1, R6, R11)		184 85	1011,1101	(R1, R5)		(R1, R6)				(84)			(R8,10)						(R1, R6)	
Appl	RECEIVER	INSTALLATIONS	a pad esa	Med December and Med De	2000	and needed		e not needed		and needed		and headed	UEMAR Interface not needed		to not needed	Interface not needed	ce not needed	SM82		face needed	Introduce and enoughed	Interface not needed	Interface not needed	Interface not needed	See Note #51	Interface not needed	See NOR 531	Interface not needed			Interface not needed	PARE	Interface not needed	CEMA	Interface not needed	PARI	Interface not needed	Interfere and needed	Interface not needed	PNRI	Interface not needed	DENA	Interface not needed	Interface and needed		Interface not needed	Cas links 270	See Hote 720	OBJAK	INECTACE NOT RESIDED
002	INSTALL	HOTES		40.00.00.00.00.00.	#15, CM, CM, CM, CM, CM, CM, CM, CM, CM, CM	#25 FS#-991	£25 [198-99]	£25 (38-99)	#25,56	£25	122	122	f0	#17 #37	2			#37	#23,25,30	20 20 20 20 20 20 20 20 20 20 20 20 20 2	F43, 23, 30	10		#38,55,62	£31,55.62					131																£5,35,38,62	FCS, CB, CB, DC	#25.32.63	125 (98-99)	f25 (38-58)
SOUNDCATE 2002 Applic		VEHICLE IDENTIFIER/	65	With factory Bose system (P-speakers)	William Book system (v. spoaks).	Without factory Bres system	With factory Bose system	Without factory Bose system	With factory Bose system	Without factory Bose system	With uplayer audio system (amplifier)	With Tass' audio system	With typienel audio system (ampirities)	With tarlow Bres cyclem	Without factory Bree System	M.		With factory Bose system	With factory Bose system	Without factory Bose system	With Tactory Book System	WITHOUT TACKING DOSE SYSTEM	N. W.	All Willhout factory video system	All With factory video system	All Willrout factory video system	All With factory video system		Without CRT corner	With factory Bose system	Without factory Bose system	Silk helicht sound makes	Without Infinity sound system	With Infinity audio system (6-speaker)	Without Infinity system (6-speaker)	With Infinity sound system	Without Infinity sound system	All flatters and an electron	All finfinity eyelem chandard	With Infinity sound system	Without Infinity sound system	With Infinity sound system	Without Infinity sound system	With Infinity sound system Without lefathe round contam	Hillian, many course of chain	With 6-speaker system	With 10-speaker system	With Benealer system	With Bose system	Without Bose system
C/DC		YEARS		20-100Z	1000.00 WG		1995-97 Wil		2002 WG	200	M 1002		1999-00 M	1005.07 W	1	1998-99 All	1994-97 All	1986-87 W	1999-02 W		986	1005.00				1998-00 A	100	1004.05			1	1	25.6951	1996-00		1990-94			1008-01		-	1996-98		1987-95		2001-02	- 19	70-000	1997-99	
Z		MODEL		Auna					Branada			1		Sein	CHES	Cultass	Cutlass Supreme	Della 88	Intribue			2	Renessor	Silvourite					Tomosée	on and			Accem	Brezze		Duster	2	Men .	TOWER	Similare		Neight				至	Beene	DOMENIE		
SO		MAKE and MODEL															Cutta															PLYMOUTH						KI	CH	(F	R	00	01	48	PONTIAC					

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	MAKE and MODEL	YEARS		MOTES	MSTALLATIONS	RECEIVER	ONSTAR	APPLICATIONS AND FOOTNOTES	INTERFACES	APPLICATIONS and FOOTNOTES	APPLICATIONS and FOOTNOTES	
1971   1971				(pgs 44-52)	use parl #	FOOTNOTES	use parl #	the part #	the part #	toe parl #	(Line output converter required)	
1985   1985	evile (cont.)	1996			Interface not needed				SDS1 with DOCKGNZ (D1)	REMOTELS or GMSW1	Type 1	none
		1992-95			Interface not needed					REMOTELS	lype 1	sub amp only
10   10   10   10   10   10   10   10		1987-91	With factory Bose system	137	GNB2	(R1, R6, R11)					Type 2 (LOCB only )	-
	Firebird	1937-02	With Monsoon System (10-speaker)	#17	Interface not needed				SDS1 with DOCKGN2 (D1)	REMOTE1.5 or GMSM1	Type 1 or 2 (AG)	9
978. 9. Manual base of support o			1		Interface not needed				SDS1 with DOCKSN2 (D1)	REMOTE1.5 or GMSW1	Type 1	none
2004         Marcola finite formation of control finit		1995-96	20		Interface not needed				SDS1 with DOCKIGNZ (96) (D1)	REMOTE1.5 or GMSH1	Type 1	none
45.84 Mile March And Andrew College (1884)         15.00 miles (1884)         15.00 miles (1885)         15.00 miles (1885)<		1993-94	A							REMOTE1.5	Type	900
Column State		1986-88	With factory submoder smitch and		Interface not needed						Type 1	
990. If the particular of	Grand Am			964	Interface not needed		Startford (T1)			RPMOTE15 or GMSW1	Type 1	9000
1979 1 A. The Color of the Color o				£76, 23, 30	Interface not needed		Startfor (T1)			REMOTE15 or GMSW1	[ve]	9
State of the control of the		1000-00		120	Infection not needed		Sarkot			RPMOTE1 5 or GMSW1	i ani	4.0
		1996-98		4	Interface not needed					REMOTE1.5 or GMSW1	Type	1000
Minch forty that price   Spatial   Chapter	Grand Prix	1998-02		#25,30	DEMAA	(R1, R5)	Startfool (99-02)		SDS1 with DOCKGN2 (D1)	REMOTE1.5 or GMSW1	Tree days	3
1969 14 Mile December of Act of Control (1969)         1964 14 Mile December of Act of Control (1969)         1964 14 Mile December of Act of Control (1969)         1964 14 Mile December of Act of Control (1969)         1964 14 Mile December of Act of Control (1969)         1964 14 Mile December of Control (1969)			-	£25 (99-00)	Interface not needed		Startfool (99-02)		SDS1 with DOCKSNZ (D1)	REMOTE15 or GMSW1	Type 1	none
1999 St. Michael before before statement of the control of		1991-97			DEMAK	(R1, R5)			SDS1 with DOCKGNZ (96-97) (D1)	RENOTE15 or GMSW1	Type 1	3
1,000,000,000,000,000,000,000,000,000,0		1988		#							Type 1	ш
Marked blackworder potential   25 m	Montana	1999-02		#28, 25, 62	Interface not needed		StarWool		SDS1 with DOCKGMZ (D1)	REMOTE15 or GMSW1	Type 1	TOTAL
March Boots and other Park Boots   March B			All with factory video system	F31, 25, 62	121		StarWod		SDS1 with DOCKGM2 (99) (D1)	REMOTE15 or GMSW1	Type 1	MODE
Marche March 1985   March March March March 1985   March Mar	Surfite	2000-02	Without Monsoon audio system.	#18,#26	Interface not needed		Startfod (T1)				lypet	MORE
This bid			IMPORTANT!! - See Note #18 for an									
The part of the			important warning concerning the									
			With Moneyon surfar exetum	F18 F76	DEMAI	/R1 R51					Tens 1 or 2 (85)	u
State of the color of state of the color of the			IMPORTANTI! - See Note #18 for an	on his		four built					faul y m addi	
1999 All Marches in Inhabest         Inhabest in No. Inhabest         Sability         Sability         Sability         Title II           1989 All Marches in Inhabest         75 (5) (6) (6) (6) (6) (7) (7) (7) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7			important warning concerning the									
1999         N without betaver where system         751 of 16 miles         Appet         SSSI with DOCKSARE (01)         REAUTIES of SISTIN         Time 1           1999         A With Each riving system         751 of 16 miles         REAUTIES of SISTIN         Time 1           1999         A With Each riving system         1804         REAUTIES of SISTIN         Time 1           1991         A With Each riving system         1804         REAUTIES of SISTIN         Time 1           2007         A With Each riving system         1814         REAUTIES of SISTIN         Time 1           1994         A With Each riving system         1814         REAUTIES of SISTIN         Time 1           1995         A With Each riving system         1814         REAUTIES of SISTIN         Time 1           1995         A With Each riving system         1814         REAUTIES of SISTING         Time 1           1995         A With Each riving system         1814         REAUTIES of SISTING         Time 1           1995         A With Each riving system         1814         REAUTIES of SISTING         Time 1           1995         A With Each riving system         1814         REAUTIES of SISTING         Time 1           1995         A With Each riving system         1814         REAUTIES of SIS		1000.00	1		Interfere not needed				STICK WITH DIDNOLED INC. DOLL (THE		Time (	2000
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159.		1000		124	Interfere and nearlist	1001			SOST WILL COUNCING TO 1	DOMOTETS OF CHICATOR	Total I	an a
1994   M		989	All		Interiors not needed	(De)				DOMOTELS DOMOTELS	Tan 1	nou :
2007         A with before randerine         Coli for deals         Ref Available         Top 1           1886-67         All with before randerine         Coli for deals         RPONS 1(2)         Anniel for deals         Top 1           1886-67         All without before randerine         Coli for deals         RRI         RPONS 1(2)         Anniel for deals         Top 1           1886-67         All with cell colin contended         Coli for deals         RRI         RRI         Top 1           1886-67         All with cell colin col cell colin col cell colin colin cell cell cell cell cell cell cell cel	IBe	155 CHILD	All		Menace for record	(B1 B5)				HEMOLETS	Time 1 or Time 9	Doc
CMID May be borned by Market by Market be borned by Market by M		como	ž		UCHAN	lui, na					7 adds in 1 adds	
1989-01   1989-10   1989	All Models		All with Sectory povinction		Call for details		2	Melable			M22	
1995-01         All without equality: con-Berlin and control formation for the dealing         Cult for dealing         Prince 1           1995-05         All without equality: con-Berlin and control formation for the control for formation for formation for the control for formation for for formation for for formation for for formation for for formation for for for formation for formation for for for formation for for for for formation for			All willhout factory navigation		Call for details		8	PORSI (CS)			Type 1	
1995-56         All without equalizer, con-Resilin and seeded         (RS)         Type 1           All with sequalizer, con-Resilin and sequelizer, c		1996-01			Call for details		88	PORSI (CB)			Type 1	
All with equations and one biggess EQ         (RS)         Type I         Ty		1989-95	7		Interface not needed	(RS)					Tite1	3000
With Bertin radio         OCHALA         (RI, KB)         Type 2 (LOSP 6L)           2001-02         Information furthcoming         CCHALA         (RI, KB)         Type 1 or Type 2           2001-02         Information furthcoming         CCHALA         (RI, KB)         Type 1 or Type 2           2002-03         Information furthcoming         CCHALA         (RI, KB)         Type 1 or Type 2           1599-10         All         CCHALA         (RI, KB)         Chain Direct         Type 1           1599-10         All         CRIAD         CRIAD         Type 1           1599-10         All         RI-10         Type 1           1599-10         All         Type 1         Type 1			All with equalizer, non-Berlin radio		Bypass FO	(RS)					Type 1	0000
1565-88 All with tisctory avoiffiers         COSA44 (RI. Ris)         (RI. Ris)         Type 2 (LLO29 or LLO29654)           2001-Q2 Information furthcoming         CEAQ2         Sharkhod         Type 1 or Type 2           1595-00 All mornation furthcoming         CEAQ2         CEAQ2         Type 1 or Type 2           1595-01 All mornation furthcoming         CEAQ2         CEAQ2         Type 1 or Type 2           1595-02 All mornation furthcoming         CEAQ2         CEAQ2         Type 1 or Type 2           1595-03 All mornation furthcoming         CEAQ2         CEAQ2         Type 1 or Type 2           1595-04 All mornation furthcoming         CEAQ2         CEAQ2         Type 1 or Type 2           1595-05 All mornation furthcoming         CEAQ2         CEAQ2         Type 1 or Type 2           1595-06 All mornation furthcoming         CEAQ2         All mornation furthcoming         Type 1 or Type 2			With Berlin radio		DEMA	(R1, R5)					Type 2 (LOCB or LOCPREA)	0
2001-QD         Information furthcoming         CRAIZ         Shadded         Tipe 1 or Tipe 2           2002         Information furthcoming         CRAIZ         Shadded         Tipe 1           1903-00         All         CRAIZ         RS)         Chairon Direct         Tipe 1           1903-00         All         CRAIZ         Chairon Direct         Tipe 1           1903-00         All         Rith latch CD changer controls         Chairon Direct         Tipe 1           1904-00         All         RR Mill state N CD changer controls         RR Mill state N CD changer controls         Tipe 1           1904-00         All         RR Mill state N CD changer controls         RR Mill state N CD changer controls         Tipe 1           1904-00         All         RR Mill state N CD changer controls         RR Mill state N CD changer controls         Tipe 1		1985-88			OBMA	(R1, PS)					Type 2 (LOCB or LOCPREA)	0
1500 - V. All Information to incomined         CEALQ         Shadded         Input 10 mys 2           2002 Information furthcomined         Shadded         Tipe 1	:										Tax tax Tax t	
1989-10         All         CRAZ         CRAZ         CRAZ         CRAZ         Type 1           1990-30         All         CRAZ         CRAZ         CRAZ         Type 1           1990-30         All         CRAZ         Craicon Direct         Type 1           1990-30         All         Type 1         Type 1           1990-30         All         Type 1         Type 1	Z	6	_		Bica						1	
1992-01   1992-01   1992-01   1992-01   1992-01   1992-01   1992-01   1992-01   1992-01   1992-01   1992-02   1992		1889-10			UENE		Photo:				9	
1992-10   Al   CEAZ   (RS)   Clarion Direct   Type 1   Type 1   Type 1   Type 2   Type 2   Type 3   Type 4   Type 4   Type 1   Type 4   Type 4   Type 4   Type 1   Type 4   Type 4   Type 4   Type 4   Type 4   Type 4   Type 5   Type 6   Type 6   Type 6   Type 6   Type 7	5	2002	Information torthcorning				Daniel				l addi	
1990-00 AI		1007.48			altu	(RS)	0	aion Diect	·		Tine 1	e
1992-38         With factor CD changer controls         Type 1           1994-39         AI           1596-30         AI		1999-00			DENZ							
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THE PARTY OF THE P	900	1994-98				W. Car	4					1
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	AMPLIETER INSTALLATION FACTORY APPLIATIONS and FOOTNOTES AMPLIETER (Line output converter required) LOCATION							000		none		anu	2000	TIME	and a	none	DODE	none		5000	ann ann		TOTE	NONE	m			200		none	or LOCPREA) 8	DONE	none		of LUURINGAL U	IMIS	3	none		or LOCPREAL D	2000	or (neggy)		8,1		8000
2 NE	STEFRING WHEEL CONTROL INTERFACE AMPLIFIER APPLICATIONS and FOOTNOTES APPLICATIONS USE part # (Line solphi to	Type 1	Type 1	Torse 1	Type 1	Type 1	Type 1	Test	a additi	Type 1			Test.	Type 1		Type 1	Type 1	Type 1		1 ani	Type 1		Type1	Ladvi	i agi		1.00	i soli	180	Type 1	Type 2 (LOCB or LOCPREA)	Type 1	laper i	Tues 2 (1 009 ac 1 00900)	Type 2 LLUG		Type 1	Type 1	1 agri	Type 2 (LOC8 or LOCPREA)	Type I	Tun 2 (1 008 or 1 008 )	Type 1	Type 1 or 2		Tipe1
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plication	NS RECEIVER ONSTAR FOOTNOTES USE part #		(H. 186)	181.183			(R1, R6)	(R)		150		FE (R2)	2	183		2	(R3)			(33)	(K3)			2	FZ)		3	(R1.R5)	(R1, R6)	led (RS)		PEG (RG)		(R1, Rb)						(H, 18)	191	(R1 R5)		(R1, R4, R6)		ted (Re)
2002 Applica	INSTALL RECEIVER NOTES (MSTALLATIONS (pgs 44-52) use part i	Interface not needed	OBIAN Marie and analysis	DEMAN	Interface not needed	Interface not needed	DENA	FIJ		Interface not needed	The Assessment	INDIACE NOT DECUE	ē	Interface not needed		Interface not needed	III			III	III		Interface not needed	FUI TUIL	RITI		Infarthers and mandari	DRWA	DENA	Interface not needed	DEIMA	Interface not needed	Inferface not needed	DEMA	Interface mil geaded		OBMA			22	m Interface not needer	USING USING	Interface not needed	DEBAN		Interface not needed
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SOUN	MAXE and MODEL.	SATURN L Series	1	g g g		20		SUBARU	Forester		ezzaduj	apal,	versi	latin	Outback	A CONTRACTOR OF THE PERSON OF	XI Coupe	WRX	SUZUKI	All Models		Extern	Grand Vitera	Salling	COURAGE	Tips .	TOYOTA	DINING.					Avalon			M. K		KI	ΞR		00.	15	0	Celta GT	Corolla	

	S AMPLIFIER I) LOCATION	3000	H	Call for details	0	0	O O	none		TORE	F.6	none	none	none		C.F.Sub	- L			none	none	B.K	none		none	600	none		D. U		note	60	none	DOME		none		none											
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0	AUXILIARY INPUT INTERFACES use part #	SDS1 with DOCKTOY (D1)	SDS1 with DOCKTOY (D1)	SDS1 with DOCKTOY (D1)	SDS1 with DOCKTOY (D1)	SDS1 with DOCKTOY, 98 and up (D1)				SDS1 with DOCKTOY (D1)				SDS1 with DOCKTOY, 98 and up (D1)	SDS1 with DOCKTOY, 98 and up (D1)					SDS1 with DOCKTOY, 98 and up (D1)	SDS1 with DOCKTOY (Dt.)	SDS1 with DOCKTOY (D1)	SDS1 with DOCKTOY (D1)	SDST with DOCKTOV (PT)	SUSI WILL DUCKTON (DI)	SDS1 with DOCKTON (D1)	I of totaloon that too	SDS1 with DOCKTOY, 98 and up (D1)	SDS1 with DOCKTOY (D1)	SDS1 with DOCKTOY (D1)	SDS1 with DOCKTOY, 98 and up (D1)		SDS1 with DOCKYMF, DOCKYMR (D1, D3) or AllXWW (D2)		SDS1 with DOCKNAMF, DOCKNAMR (D1, D3)	SDS1 with DOCKYMF, DOCKYMR (D1, D3)	or AUXVW (D2)	SDS1 with DOCKYMF, DOCKYMR (D1, D3) or AUXYM (D2)	SDS1 with DOCKNWF, DOCKNWR (D1, D3)	or AUXYW (D2)	SDS1 with DOCKAME, DOCKAMR (D1, D3)	Or AUXVW (DZ)							
ם מחומש	CD CHANGER INTERFACE  APPLICATIONS AND FOOTNOTES  USES part #	KNTOM at SMTOM, PIOTOM	KNTOY1 or SNTOY1, PIOTOY1	KATOY1 or SATOY1, PIOTOY1	KINTO'N or SNITO'N, PIOTO'N	KNTOTT or SNTOTT, PIOTOTT, 58 and up				KANTOY'I OF SAITOY'I, PIDTOY'I				KATOY1 or SATOY1, PIOTOY1, 98 and up	KMTOM or SMTOM, PIOTOM, 98 and up					KATOY1 or SATOY1, PIOTOY1, 98 and up	KATOY1 or SATOY1, PIOTOY1	KATOY1 or SNTOY1, PIOTOY1	KATOY1 or SATOY1, PIOTOY1	KATOY1 or SKTOY1, PIOTOY1	KMTOY1 or SMTOY1, PIOTOY1	KMTOY1 or SNTOY1, PIOTOY1	KHTOY'S OF SKITOY'S, PROTOY'S	ARIUTI OF SHIDTI, PIOLOTI	CHIDAT OF SHIDM POTENT		KNTOY1 or SNTOY1, PIOTOY1, 98 and up	KNTOY1 or SNTOY1, PIOTOY1	KNTOT1 or SNTOT1, PIOTOT1	KNTOY1 or SKTOY1, PIOTOY1, 98 and up		ALWIT OF KINYIT with WICBLR (CA), VMCBLF (C3)		ALVATI or KAVNAT with VACBLR (C4), VACBLF (C3)	ALVATI OF KIRVATI WITH VAICEUR (CA), VAICEUF (C3)		ALVAY'I OF KNIVAY'I WITH WAICBLR (C4), WACBLF (C3)	ALVATI OF KONVATI WITH VANCBUR (CA), VANCBUR (C3)	list Arailable	ALWHT or KNWWT with VMCBLR (C4), VMCBLF (C3)		Not Available	NOT AVAILABLE	Clarion Direct	
בסטב השטוולמה בסטב	RECEIVER ONSTAR FOOTHOTES are part #	X	(R1, R5) K	ŭ	(R1, R5) K	(R) K	(R1, R6)	(88)		X	(Rt. R5)	(R2)	(R)			H. 75	(R1, r0)	land.		X	X	(R1, R5) N		(R1, R6)		(R1, R6)		(N. Nb)	181 BSI			(R1, R6)		(83)									186 1861		No. of Contract	(R1. R5)			
コロ コロ	INSTALL RECEIVER NOTES INSTALLATIONS (pg: 44-82) ass part #	bebeen for exelvent	OBINA		DEMAN	LOCHVA	OEMAA	Interface not needed		Interface not needed	OBMAA	Interface not needed	Interface not needed	Interface not needed	OBWA	DEMA	UEMSA Interfere net nasfed	Interface not needed		Interface not needed	Interface not needed	OBMA	Interface not needed	DEMA	Interface not needed	OEMA	Interface not needed	UEMAA ASSAURAS	DERMI	OBLAN	Interface not needed	OBMA	Interface not needed	Interface not needed		Interface not needed		Interface not needed	#17 - Call for info by fax Interface not needed		Call for into by fax Interface not needed	Interface not needed	mbu	Interface not needed		CENAN	Interface not needed		
	VEHICLE IDENTIFIER/	77		With Navigation system	With 7-speaker system		WAS radio #56804	Without radio #56004	Information forthcoming	200		-	7		Extended Cab	7	With 16805 of 11/09 (2010)	1	1		90	With 10-speaker system	With 4-speaker system		-	100		Mitth C speaker Fremund System	With Screenier amplified curlem						10	N.	Information forthcoming		With Monsoom system		Without Monscon system Cal	M	With forlway Bose seelam	Without factory Bose system		With factory Bose system	Without tactory Bose system	With Clarion factory radio	
SOUNDAMIL	MAKE and MODEL YEARS	Fdn 2001-02	Fighlander 2002			1997-00	1992-96		Matrix 2002	MF2 2000-02	96-7861		n.	Pictop 1992-58		Previo 1997	95-1661	87-1001	Pink 7007	1-	Jh.		Sema 2002		10-6651		Solara 2000-02	VALUE OF THE PARTY	966		Tercel 1990-98			T100/Ecome 1989-02		New Beelle 1999-02	Cabrio 2002		Cal 2000-02			CK Si				1661			

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	FACTORY AMPLIFIER	LOCATION										-								40 vet		400 watt			none	100 watt	MARE		***************************************	7th wat	0	none		none	200 watt	none	I	200 act	ZUD WAIT	100 valt	200 watt		
	AMPLIFIER INSTALLATION APPLICATIONS and FOOTHOTES	(Line autput converter required)	Type 1	Type 1	Type 1		Type 1	Type 1	Type 1 or 2	Type 1	Test .	Type 1	Type 1	Type 1	Type 1 or 2	Type 1	Type 1	Tunt	Total	True for 2		Type 1 or 2	Toet	Type 1 or 2	Type 1	Type Lor 2	Type I	lype I	Total vitic	Net for 2	Type 1	Type 1	Type 1	Type 1	Type 1 or 2	1000	Type 1	Time 1 nr 2	Type 1 07.2	Type 1 or 2	Type 1 or 2	Type 1	Type 1
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0	AUXILIARY MPUT INTERFACES	use part #			SOST WITH DOCKAME, DOCKAMR (D1, D3)	or AUXYW (DZ)	SDS1 with DOCKYMF, DOCKYMR (D1; D3) or Aukyw (D2)	SDS1 with DOCKNMF, DOCKNMR (D1, D3) or altrony fire	To literate to	SDS1 with DOCKYMF, DOCKYMR (D1, D3) or Allown (D2) 198 orbi			SDS1 with DOCKAWF, DOCKAWR (D1, D3) or AUXAW (D2)	SDS1 with DOCKVMF, DOCKVMR (D1, D3) or Altoval (D2)	The latest the	SDS1 with DOCKVAR, DOCKVAR (D1, D3)	ALTERNATION OF THE PROPERTY OF			SOST Call for cable requirements (D1)		SDS1 Call for cable requirements (D1)	SDS1 Call for cable requirements (D1)	SDS1 Call for cable requirements (D1)	SDS1 Call for cable requirements (D1)	SOSI Call for cable requirements (D1)	SUST CALL FOR CADA PROTECTION (LT)	SOCI CALIDICATOR EQUIPMENTS [11]	SDS (2) for cable noninements (D1)	SDS1 Call for cable requirements (D1)	SDS1 Call for cable requirements (D1)	SDS1 Call for cable requirements (D1)	SDS1 Call for cable requirements (D1)	Tare 1	SUST Call for Cable requirements (UT)							SDS1 Call for cable requirements (D1)	
n Guide	CO CHAMER INTERFACE APPLICATIONS AND FOOTNOTES	) Hed est			ALVATI or KINVATI with VMCBLR (C4)		ALWIT OF KINWIT WITH VAICIBLE (CA), VAICIBLE (C3)	ALVATI or KNIVATI with VMCBLR (CA), VMCBLF (C3)	Not Available	ALWIT or KNYWIT with VWCBLR (CA), VWCBLF (CS)			ALVATI OF KAVATI WITH VINCELR (C4), VINCELF (C3)	ALVATI or KNVATI with VMCBLR (CA), VMCBLF (C3)	Factory only	ALVINT OF KNIVINT WITH VINCBLR (CA), VINCBLF (C3)				ALPINSTR with ALPINAL1, (CS)		ALPNISTR with ALPNINC1, (C3)	ALPHISTR WITH ALPHANTI, (C3)	ALPINSTR with ALPINAL1, (C3)	Factory only	Raciony only	ALPINO IR WITH ALPINOLL, [U.S.]	ALPHASTR With ALPHAST 1731	Factory only	Factory only	Factory only	Factory only	ALPAISTR with ALPWALL (C3)	ALPHOSIR WITH ALPHART, [13] CO.	ALMOIN WIN ALTWILL (US) CO CON-	Factions only	Factory only	Factory only	Extended	Factory only	Factory only	ALPINSTR with ALPINYL1, (C3)	ALVOL1, (C3)
ation		TES use part if	1				-									-																											
Jic	RECEIVER	FUDUTNO	185 881	8					(R1, R6)			(R6, R8)			(R1, R5)		l d	(RE, RB)		(81, 76)		(81, 86)		(81, 86)	1	(K), Kg)				(R1, R6)	(R1, R5)			104 001	(NI, NB)			(R1. R5)	District	(R1, R6)	(R1, R6)		
App	RECEIVER	use part #	Interface for exchelal	PWR1	#17-Call for into by fax. Interface not needed		-	Interface not needed	DEMAA	Interface not needed	Interface not needed	Interface not needed	#17 - Call for into by fax Interface not needed	Interface not reeded	DEMA	Interface not needed	Interface not needed	Interface not needed	Interface not needed	OBWA		DENAA		DEMA	Interface not needed	DEMAN	ING INC. ID LEGICAL		Interface not needed	DEMAA	DEMA	Interface not needed		INCIDENCE NOT RECORD	Industrial and second	INGLESS NOT REGORD	Interface not needed	CEMA	Interface not needed	DEMAA	DEMA		
2002 Applic	NOTES	[pgs 44-95]	410		#17 - Call for info by fa	Anti-teach	Call for mile by lax					#2	#17 - Call for into by fi	Cal for info by fax	Call for into by fax			#12								1 2				lo lo								iotz					
100	VEHICLE IDENTIFIER	UUALIPIER	With Aldiv System	Without Aldiv system	With Monsoon system	The state of the s	Without Monsoon system		With factory Bose system	thout factory Bose system	N	th Aldiv system	With Monsoon system	Without Monsoon system	With factory Bose system	Without factory Bose system		With Aldiv system	Without Aldiv system	With AMFAVIOD, or 3-Disc changes.	Dolby Pro. 10 speaker system	With AMFAVCD, or 3-Disc changer. Delby Pro. 12 speaker system	With AWFAVOD (std. Equipment)	With Dolby Pro Logic	With AMPINCassette, 6-speaker	MON MICHIGANIA MANAGEMENT OF SPECIAL MANAGEM	ANTINGASSER SEL CARPITED		With AMFIVCassetts. 8-species	With AMPAVA-Disc changes/10-speaker	With 9-spezier system	With 8-speaker system		With HARM Cassille, 1-specier	A HIEROPASSIENT CARACT	MILL AMPRICACIONE, D-SPERIE	in AMFAICassette, 6-speaker	With AMPANY Disc charges Dolby Pro	In AMPA/Cassette, 6-speaker	With AMFWICO, 6 speaker	With AMPAN4-Disc changes/Dolby Pro		
DC/	YEARS		1985-91 WB		2000-02 WB	In	3E	1999 All	1997-98 WR	26			1999-02 WR		1998 WA	166	1933-97 All		1	Z0-002	8	D De	1998-99 WR		2001-02	ON UNIC				100	1999-00 WR		-	SAWAY MIN	1	1008-00 MI		-	300Z		A COL	1996-97 All	1991-95 All
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# Note #1 - An Important Warning concerning General Motors Vehicle

Installations:

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 using a Bosch, or similar relay; not doing so General Motors vehicles (Non-Bose equipped) equipped with a dashreceiver or CD player in one of these vehicles, ISOLATE THE POWER will damage the new receiver's power antenna, or amplifier wake-up power antenna lead of the factory radio. If installing an aftermarket ANTENNA TRIP LEAD OF THE NEW HEAD UNIT FROM THE CAR'S Page 45 of 52

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

to wake-up their factory PSA-B (Premium Sound) amplifiers. In 1995 the will not wake-up with this low-voltage signal. Using the LOC2 or LOC3FR input after the factory amplifier, not at the radio. The radio only provides the 5, or 9-volt signal to 12 volts. Also, if adding an amplifier using the In 1988 Ford Motor Company vehicles started using a 9-volt trip signal also started using a 5-volt signal in 1996). Many aftermarket amplifiers amplifier's high-level inputs, intersect the signal leads for the amplifier voltage level of the amplifier wake-up lead dropped to 5 volts (Lexus LOC3FR, it will be necessary to use SoundGate TRIGLOHD to convert is a perfect solution/selling point (auto wake-up feature) for adding amplifiers to these vehicles. If not using the SoundGate LOC2 or 560 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 are controlled via digital commands from the FCU. Because there is no noted in this application guide. In these systems (and in Lexus, Mark vehicle. These two channels are converted to four inside the RCU and way to integrate four channels of audio into the input of the RCU, an 1995-98 "JBL" systems, and other Ford Motor Company vehicles as Levinson) there are only two channels of audio transferred from the amplifier module (RCU-rear control unit) mounted in the rear of the A SoundGate LOCSUBA can be used to retain the factory subwoofer dashboard controls (FCU - front control unit), to the tuner/pre-amp/ interface cannot be made. If adding a new receiver or CD player to these vehicles, the entire factory system will have to be bypassed. (where so equipped)

Note #4 - Ford head units with low voltage amplifier turn-on circuitry: 570-ohm resistor must be installed between the amplifier wake-up

Bing so will result in distortion in the audio system.

Solution in the audio system.

Fore #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 compart. ment powers both rear speakers. This amplifier has floating inputs and

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" receives its signals from the speaker wire plug at the rear of the radio. wire of the new receiver.

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

ter trim. Connect Pink wire of factory rear speaker plug to remote trigger 6 or 8-speaker system - amplifiers are mounted behind right rear quarlead 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:

without using an interface. Simply solder RCA connectors to a Scosche, 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 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;

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

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

will bypass the amp. If the vehicle is equipped with the factory subs they 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 continue to operate. systems:

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

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

### Note #10 - Reserved for future use.

General Motors has issued a service bulletin for aftermarket receivers or 307-674-4707 for a copy of the bulletin if performing this installation. CD players installed in 1990-93 Corvettes. Please call SoundGate at Note #11 - 1990 - 93 Chevrolet Corvette factory service bulletin:

### The wiring of the Volkswagen "Aktiv" systems changed in the 1989-1990 Note #12 - 1989 - 90 Volkswagens with "Aktiv" audio systems;

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 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 speakers in the car, and the pre-amp the amplifier located in each door. In these applications the speaker con-Jetta Bose systems by simply using an aftermarket harness wired off of powered off of the radio, and only the door speakers were amplified by IG KW400001, and 1990 Golfs and Jettas made in Mexico with VIN #s outputs of a new receiver can be used to interface. In cars built before model years. In 1989 Jettas with VIN #s starting with, and higher than nector at the dash will have eight wires, and the speaker leads of the the new receiver's speaker output leads. One dealer reported a slight SoundGate dealers have properly interfaced new head units into the the above years and VIN numbers, the dash and rear speakers were new receiver can be used for interfacing. Jettas with Bose systems: no turn on or turn off pops, and that the gain structure was correct.

### Note #13 - Reserved for future use.

#### Ford Tauruses, Mercury Sables, and Ford Escorts are equipped with Note #14 - 1996 - 2002 Ford Taurus and Mercury Sable:

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

### Note #15 - Land Rover audio systems:

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

## Note #16 - Headliner speakers in Acura Vigor:

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

Night.

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:

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

Pontiac Sunfires are subject to a very important warning from General and we will fax you the airbag deactivation instructions. Instructions Note #18 - Pontiac Sunfire and Chevrolet Cavalier airbag warning 999 thru 2002 model year Chevrolet Cavaliers and 1999 thru 2002 deactivated before attempting radio removal. Unhooking the battery does not accomplish deactivation. Call SoundGate at 307-674-4707 differ between 1999 thru 2000 model year vehicles, and 2001 thru Motors. GM service information states that both airbags must be 2002 model year cars.

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

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

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

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

Acation....signals:
Signals:
Be factory amps using current sensing for "wake-up" signals:
Be factory amplifier in this vehicle utilizes current-sensing for its Am-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:

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 When adding a new receiver to this vehicle, the interface will not be unit in the dashboard is simply a keypad. Two channels of audio exit used at the radio location in the dashboard. In this vehicle the radio the two channels of audio into four

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 channels. The tuner for the vehicle is also part of this Radio Interface 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

# Note #23 - Factory amplifiers using active crossovers:

replacing the factory amplifier, new crossovers will have to be added to The amplifier(s) in this vehicle contain active crossover networks. If 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 replaced. This factory amplifier also uses built-in, active crossover networks. If adding full-range amplifiers to this vehicle, the outputs of the vehicle and cannot be removed unless the entire sound system is 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:

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

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

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

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

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

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 When replacing the factory radios in General Motors utility vehicles aftermarket receiver.

Note #29 - Factory amplifier in Oldsmobile Alero:

that dual voice coils are used for the 6 x 9 driver and that the third set speakers are a 3-voice-coil design. Speaker size is 6 x 9. We assume 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 According to General Motors schematics for this vehicle, the rear second set of voice coils on the 6 x 9's.

Note #30 - Bi-ampliffied 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.

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

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

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

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 These vehicles present many obstacles to installers. These include: ribbon cable, but cannot be soldered into, or modified.

putting a new receiver in this vehicle, keep the factory radio plugged 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 hidden location. Speaker/amplifier wires can be intersected at the data-bus causes serious operational problems in the vehicle. If into the factory cable and remote-mount the factory radio in a 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 allows driver control of bass boost. Replacement speakers must be include a 'bass gain' control slide switch on the dashboard, which 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:

- 1996-98 Pontiac Grand AM and 1996-98 Buick Skylark w/4-speaker system: All speakers 10-ohm
- Oldsmobile Achieva w/component front speakers. Front speakers are 1996-98 Pontiac Grand AM. 1996-98 Buick Skylark, and 1997-99 parallel and present a 2-ohm load. Rear speakers are 10-ohm.
- Monsoon system. Rear speakers are 10-ohm. With Monsoon sys-1997-02 Pontiac Firebirds and Chevrolet Camaros with nontem: 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 power connector for this phone is identical to 3-pin round/power/dataproduction), are pre-wired for a Motorola StarTAC cellular phone. The

Aus lead for the CD changer. The 3-pin CD changer plug has the brown Quound 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 Cation.

ARRING! - Plugging the cellular phone power connector into our SMW CD Changer Interface will result in damage to the interface - Si is not covered under warranty. A warning notice is packaged with each ABMW35V4, KBMWV4, and SNBMWV4 informing installers

# 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 SoundGate tech. support at 307-674-4707 for information on how to SoundGate LOCSUBA will be required to make this conversion work If replacing the factory receiver in one of these vehicles, please call retain use of the factory subwoofer with an aftermarket receiver. A correctly.

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

customer complains of his/her Bose system frequently shutting down, 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 replace relay (factory part# 1407~8902)

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

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

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

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 allows control modules... the instrument panel cluster, the radio... to warning of a potential, very serious problem when disconnecting and Paraphrasing the GM document: Class 2 Serial Data Communication General Motors has issued an airbag warning document (#645519) reconnecting factory radios in the above model year vehicles. stored within the SDM, the following can occur:

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

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

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

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

- 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.
- the airbag indicator flashes a different number of times as during the same number of times as it did before the installation was begun. If and #2), then should also witness the post-installation test confirming The customer should be present for the pre-installation test (steps #1 IMPORTANT! The airbag warning indicator MUST flash exactly the necessary to ensure proper airbag operation. SoundGate strongly recommends that this procedure be added to any pre-installation Immediately contact your local GM dealership for the procedure inspection forms that are currently used by the installing dealer. pre-installation test, do not release the vehicle to the customer.

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:

the factory amplifier. Removing, or replacing the factory amplifier will

In these vehicles, the factory CD changer signal is input directly into

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 factory radio and factory amplifier. Depending on the options present Mercedes S-Class vehicles use a fiber optic audio link between the Note #41 - 1999-2002 Mercedes S-Class: for details.

#### call SoundGate at 307-674-4707 for specific details on the vehicle you on the vehicle, replacement of the radio may not be possible. Please are working with.

Note #42 - 1999-2000 Mazda Millenia:

or damages it. We recommend isolating the turn-on lead of the vehicle 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, players. As the volume of the radio is increased, the current draw on amplifier turn-on lead that can damage aftermarket receivers and CD These model year Millenias present an operating condition on the 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.
  - With engine off, turn the ignition key to the "run" position.
- 3. Make sure radio is off (For 1992 94 models turn radio on).

two pins at the changer end of the factory cable, or use the 18' cable and #13 are switched in the factory BMW cable. Either switch these old 'M-bus' style Pioneer changer will plug in. Important - pins #12 While holding "program" button, press "-" side of "mode" button.
 Display will show either "Pioneer", or "Alpine". If "Pioneer" displayed. packaged with the Pioneer changer and plug the cable directly into the back of the factory radio.

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

These vehicles use an internally-amplified radio that utilizes high-pass subwoofer. If replacing the factory radio, use a SoundGate LOCSUBA to keep the factory subwoofer operational. Contact SoundGate for a 8-pin connector that outputs low-pass audio signals to the factory output, high-power speaker leads. The radio is equipped with an wiring diagram for this connector. Page 48 of 52

### 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:

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

### Note #47 - 2001-02 Lincoln Continental:

tion which includes radio operation information. The SCP databus used These vehicles utilize a "virtual image" dashboard that displays informain 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 operates through the factory radio and is similar in operation to the dashboard will be lost. The Ford Motor Company "Rescu" system General Motors "OnStar" system.

#### Note #48 - 2001-02 Lincoln LS:

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

The factory radios, and rear-seat audio controls (RSA):

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

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

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

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

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

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

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

- radio back into the dash opening. Let the back of the radio slide towards the bottom of the dash. Keep lowering radio towards lower Plug the security harness back into the factory radio and slide the can be removed - disconnecting a flat ribbon cable allows this. edge behind dashboard.
- 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.

The Bose audio systems in these vehicles are a distributed audio Note #56 - 2002 Envoys, Jimmys and Trailblazers:

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 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 after the factory amplifier using Type 1 LOC's. LOC's cannot be added equipped with factory Bose systems, adding amplifiers must be done system. The radio outputs a digital signal to the amplifier telling the listen to a second source. If adding a new radio, an OEM4A can be passengers can listen to one source while the front seat occupants at the radio because the radio has a fixed output level.

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

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.

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

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

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

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

Note #65 – Due to the physical and digital integration of the factory radio/navigation system into 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.

- If the vehicle is equipped with a factory

93

navigation system, an aftermarket CD changer cannot be added at this time.

- This interface plugs into the tuner box

25

located in the rear of the vehicle.

- 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.

# 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.

> cle will not allow direct access to discs 7 thru 10. Access to discs 1 thru 6 is as with

C1 - Use of a 10-Disc CD changer in this vehi-

CD CHANGER INTERFACE FOOTNOTES:

play discs 7 thru 10 after finishing disc 6.

C3 - This interface plugs into the rear of the

factory radio.

factory changer. Radio will sequentially

- 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.

installing a CD changer into one of these vehicles, please contact your local dealer

for costs associated with this reprogramming procedure.

radio be reprogrammed to accept a CD

changer (factory or aftermarket). If

C5 – Some 99 and 2000 Volkswagens and Audis may require the car's computer.

changer cable in the rear of the vehicle.

C4 - This interface plugs into the factory

- D5 A CD changer must be used in conjunction with this interface. For Discovery, and RVRCBLD cable is required to complete the installation. Fjor 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.

down" on the #1 and #5 presets. If radio

C8 – Radio must have "disc up" and "disc

has 6 presets and "Direct Disc Access"

above the presets, you can only use a

factory changer.

D7 - AUXCHRY interface requires additional cable to complete the installation. 98-01 - "rounded-style radio" use CRCBLDINZ 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 steeringwheel mounted temperature and/or
  fan-speed controls. These functions are
  not translated with the use of this
- S2 Call SoundGate for details.

AMPLIFIER LOCATOR

50

# amplifier notes and locations

#### Type 1 Installations:

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

#### Type 2 Installations:

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

#### Use SoundGate part #'s LOCPREA LOCB TYPE LOCA LOC2/3FR LOCHV4A LOCSUBA Use SoundGate part #'s

LOC4 LOCHVA

#### Before factory Factory amplifier LOC Connection Points HH 00

#### Helpful Hints:

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

is required to create wake-up lead.

A6 - Use of SoundGate TRIGSPKR

A5 - Use of SoundGate TRIGLOHD is

the factory amplifier.

required to create wake-up lead.

#### right rear quarterpanel G - Behind left side trunk E - Attached to rear side trunk trim, or behind bottom or rear deck D - Below or to right of trim, or behind left of back seat, or to rear quarterpanel F - Behind right side passenger's seat

8

C - Behind passenger's side of dash

B - Behind or below factory radio

A - Behind Driver's side of dash

≥ Ġ K - Beneath Center Console floorpan of rear storage

M - Under passenger's side footwell area, in center of vehicle

L - Beneath carpet and/or

J - Beneath Driver's seat

H - Beneath rear seat

I - At each speaker

N - Passenger's side kickpanel area

#### Adding an Amplifier/s:

 A1 - Use MITSAMP to replace the factory the factory amplifier (speaker level) Type 1 interface and connect after A2 - Amplifiers can only be added after amplifier. To add an amplifier, use

KICKER000158

#### 51

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

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

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

To Changer

5

Factory Changer cable

#FC2 cable T-harness at radio location to interface

#FC2 to most 1995 - 1998 vehicles.

Car's Wiring

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

Factory Tuner/Amplifie

Car's Wiring

#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 oice recognition equipped vehicles) #FC4

F64

actory Radio

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

actory Radio

Cars Winto

Cars W 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 (extruence)

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

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

systems (non-amplified), that have 4 positive and 4 negative Aftermarket 20-pin GM harnesses are designed for non-Bose speaker leads. The SoundGate OEM4A Radio Replacement Interface is required to properly interface a new receiver with the Bose amplifier(s).

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

t Front (+) nt Common (-) ht Front (+) Shield Drain Wire hield drain wire Right Rear (+) Rear Common (-) Description

common however, pin locations always take precedence over wire colors. Wire colors vary greatly from make to make and vehicle to vehicle. Wire colors shown are the most

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Federal law (the Magnuson-Moss

Warranty Act - Section 102c) says

you can purchase and install aftermarket

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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) 326-222

#### 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!



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