DETABLS

Sirius-S50 CAR KIT

SIRIUS
SATELLITE RADIO

Congratulations on the purchase of your Sirius S50 Car Kit

The Car Kit will allow you to use your Sirius S50 in your vehicle to listen to live broadcasts and saved content, and capture and store both scheduled and unscheduled SIRIUS programming.

Table of Contents

Warning and Safety Information

FCC Warning

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in this owners guide. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

FCC Compliance

This equipment has been tested and found to comply with Part 15 of the FCC Rules. These rules are designed to provide reasonable protection against harmful interference. This equipment may cause harmful interference to radio communications if it is not installed and used in accordance with these instructions. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the other equipment and the Receiver.
- Connect the other equipment to a different circuit from that to which the Receiver is connected.
- Consult the dealer or an experienced radio technician for help.

Canadian Compliance

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

General Precautions

Safety Precautions

Be sure to observe the following warnings. Failure to follow these safety instructions and warnings may result in a serious accident.

- Do not operate the Sirius S50 in a way that might divert your attention from driving safely. As a driver, you alone are responsible for safely operating your vehicle in accordance with traffic safety laws at all times.
- Be sure the unit is installed as described in the installation instructions in this guide. When installing the unit using a Home Kit or Executive Kit, follow the installation instructions included with those kits.
- Failure to follow these safety instructions and warnings may result in a serious accident.
- To avoid short circuits, do not open the unit, and never put or leave any metallic objects (coins, tools, etc.) inside the unit.
- If the unit emits smoke or unusual odors, turn the power off immediately, and disconnect the unit from any power source.
- Do not drop the unit or subject it to strong shocks.
- If the unit doesn't seem to be working properly, turn the unit off, wait 5 – 10 seconds, then turn it on again.

Cigarette Lighter Adapter

Do not use any other power adapter for the Sirius S50, or connect it directly to the vehicle's power. Doing so will damage the unit.

The car dock operates on 5v DC, 1.5A. Using anything other than the supplied cigarette lighter adapter to power the car dock will void the warranty.
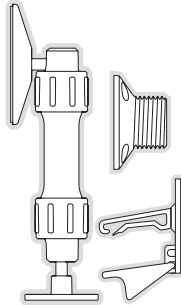
Package Contents

The following items are included with your purchase of the Car Kit:
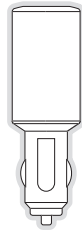
Car Dock

Remote Control

Vehicle Mounts

Cigarette Lighter Adapter

Magnetic Antenna

Antenna Cable Cover/Tail

Parts Bag*

Alcohol Swab

*The parts bag contains mounting screws and an alcohol swab.

Controls

Car Dock Reference Guide

Figure 1 identifies the buttons, controls, and connectors of the car dock.
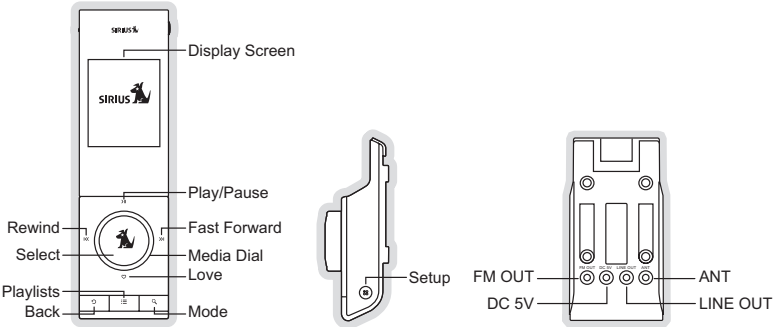
Display Screen

Play/Pause

Rewind
Select
Playlists
Back

Fast Forward
Media Dial
Love
Mode

Setup

FM OUT
DC 5V

ANT
LINE OUT

Figure 1

The following tables describe the functions of the buttons, controls, and connectors on the car dock. Please refer to your Sirius S50 manual for more information about each of these buttons and features.

Car Dock Button Descriptions			
Button	**Action**	**Live Environment Description**	**Playback Environment Description**
�>‖ **Play/Pause**	Press	Pauses a live broadcast or resumes playing a broadcast	Plays or pauses the current song or show
	Hold	If paused, returns to live broadcast If in a channel list, plays the highlighted channel	No Action
⏮ **Rewind**	Press	Rewinds a broadcast to previous song or show	Rewinds to the previous song or show
	Hold	Rewinds through a broadcast	Rewinds through song or show
⏭ **Fast-Forward**	Press	Fast-Forwards the replay buffer to the next song or show	Fast-Forwards to the next song or show
	Hold	Fast-Forwards through the replay buffer	Fast-Forwards through song or show
♡ **Love**	Press	Saves song or show Cancels currently active recording	If listening to My Sirius Channels, saves the content
	Hold		If listening to My Sirius Songs or My Sirius Shows, displays prompt to delete the song or show

Car Dock Button Descriptions *Continued*			
Button	**Action**	**Live Environment Description**	**Playback Environment Description**
⊛ **Media Dial**	Turn	If listening to live broadcast, tunes next channel If in a list, menu, or prompt, scrolls to next or previous item	If listening to playlist, no action If in a list, menu, or prompt, scrolls to next or previous item
⊛ **Select**	Press	Selects highlighted items in lists, menus, or prompts	
	Hold	Allows you to Add/Move/Re-move a preset	No Action
☰ **Playlists**	Press	Allows you to browse the playlists	Goes to the most recent playlist menu screen and highlights the currently selected song or show If browsing playlists, moves up one level in the playlist menu structure
	Hold	No Action	No Action
↺ **Back**	Press	If listening, returns to previous channel or playlist If in a list at the top level, exits and returns back to previous content If in a list not at the top level, moves up one level in the list structure	
	Hold	Jumps to programmed traffic/weather or other channel If a jump is pending, cancels jump If in a list or in Setup, exits the list or Setup	

Car Dock Button Descriptions *Continued*			
Button	**Action**	**Live Environment Description**	**Playback Environment Description**
🔍 **Mode**	Press	First push allows you to browse live channels according to the current tuning mode Second push cycles browse mode between Channel, Genre, and Presets	
	Hold	Cycles between channel name/artist/title when in browse mode	No Action
⦾⦾ **Setup**	Press	Displays the *Setup* menu If in the *Setup* menus, moves up one level in the menu structure	
	Hold	First push and hold displays the frequency of the currently se-lected FM preset for 10 seconds Second and subsequent push within 10 seconds cycles through the FM presets	

Car Dock Connector Descriptions	
Connector	**Description**
FM OUT	FM output connection.
DC 5V	Connection for the Cigarette Lighter Adapter.
LINE OUT	Optional audio output for connection to the vehicle's audio system. An audio cable (not supplied) is required to utilize this connection.
ANT	Connection for the Magnetic Antenna.

Using the Media Dial

The ✦ Media Dial is a unique multifunction control which can be turned and pressed to accomplish many functions of the Sirius S50. Turning the ✦ Media Dial clockwise or counterclockwise which will scroll channels, genres, presets, menus and lists. Pressing the ✦ Media Dial in the center (on the SIRIUS dog logo) provides the 'Select' function for choosing channels, genres, presets, prompts, menu or list items.

The ✦ Media Dial also provides for selecting four other functions when pressed at the north, south, east, or west positions as shown in Figure 2 (❯❙❙ Play/Pause, ♡ Love, ❯❯❙ Fast-Forward, and ❙❮❮ Rewind).
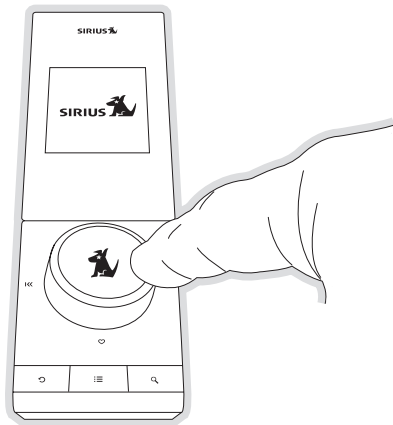

Figure 2

Getting Started

SIRIUS suggests professional installation of this product in your vehicle. Professional installation provides an experienced technician to install this product in your vehicle, advice for selecting a suitable mounting location, installation of the antenna, and routing all the necessary wires and cables. If the FM reception within your vehicle proves to be poor, an installer will have the necessary accessories to install an optional FM relay switch, or an audio cable to connect the audio output of the Sirius S50 directly to your vehicle's audio system. Ask your SIRIUS retailer if they provide professional installation services, or can recommend a professional installation service.

Installing the Car Dock

When installing the dock in your vehicle, choose a location in your vehicle where the unit will not block your vision, interfere with the vehicle controls, or obstruct the air bag. The location should be easily accessible and provide good visibility of the display, and should not be located where it will be in direct sunlight which will affect the visibility of the display screen.

The mounting accessories necessary to install the dock in a vehicle are provided. Figures 3 & 4 show several examples of the Sirius S50 mounted in a vehicle: **A** is the console front mount method using the adhesive mount, **B** is the console side mount method using the adhesive mount, and **C** is the vent mount method using the vent mount clip.
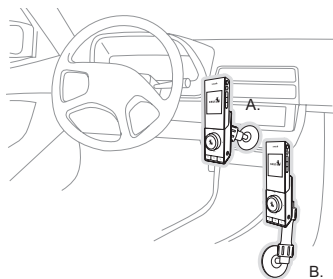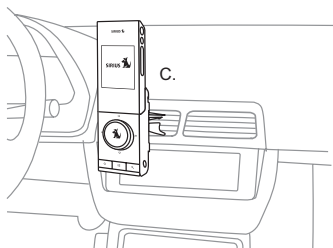
Figure 3

Figure 4

Depending upon the mounting location you select in your vehicle, console front mount, console side mount, or vent mount, the mount should be assembled as described in the following three sections. Each type of mount method should only be installed as depicted, i.e., the console side mount method should only be used when installing to the side of the console, etc.

Console Front Mount Method (A)

To mount the car dock using the console front mount method, assemble the mount as follows, as shown in Figure 5:

1. Attach the adhesive foot to the mounting bracket, placing a collar in the bracket before screwing the foot to the arm. The side of the collar with the hole should face the foot.
2. Attach the car dock to the mounting bracket using the provided screws.
3. Before adhering the mount to the side of the console, be sure to select your mounting position carefully because once the mount has been adhered to a surface, it will not be possible to remove it and adhere it again.
4. Clean the selected mounting surface area in the vehicle with the alcohol swab.
5. Unscrew the adhesive foot from the mount. Peel the protective material off the adhesive on the foot and press the foot firmly against the vehicle surface.
6. The adhesive mount should then be allowed to adhere for a minimum of 2-4 hours before use. Best adhesion occurs after 24 hours. When the adhesive foot has achieved sufficient adhesion, reattach the remainder of the mount to the foot.

Figure 5

Console Side Mount Method (B)

To mount the car dock using the console side mount method, assemble the mount as follows, as shown in Figure 6:

1. Attach the adhesive foot to the extension arm, placing a collar in the arm before screwing the foot to the arm. The side of the collar with the hole should face the foot.
2. Attaching the mounting bracket to the extension arm, placing a collar into the arm before screwing the bracket to the arm. The side of the collar with the hole should face the bracket.
3. Attach the car dock to the mounting bracket using the provided screws.
4. Before adhering the mount to the side of the console, be sure to select your mounting position carefully because once the mount has been adhered to a surface, it will not be possible to remove it and adhere it again.
5. Clean the selected mounting surface area in the vehicle with the alcohol swab.
6. Unscrew the adhesive foot from the mount. Peel the protective material off the adhesive on the foot and press the foot firmly against the vehicle surface.
7. The adhesive mount should then be allowed to adhere for a minimum of 2-4 hours before use. Best adhesion occurs after 24 hours. When the adhesive foot has achieved sufficient adhesion, reattach the remainder of the mount to the foot.
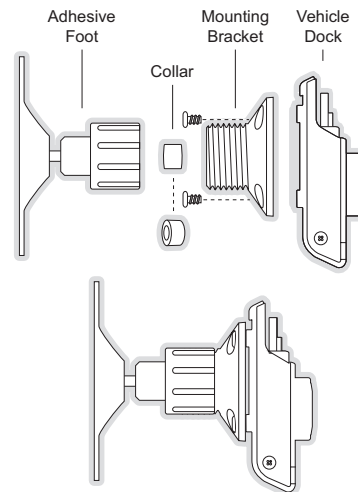
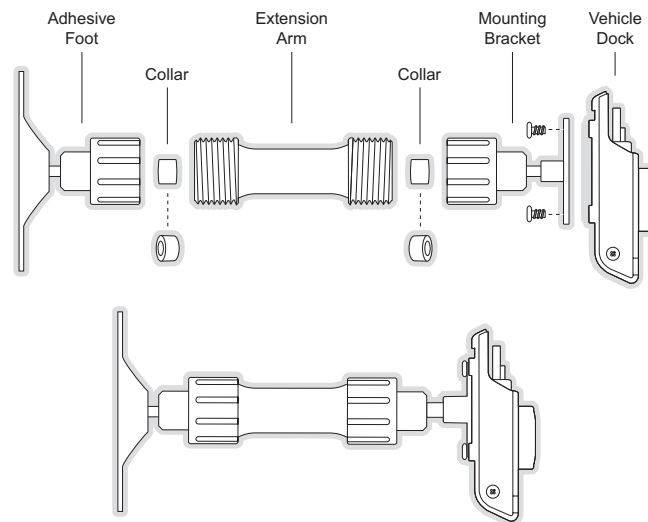Note that the console side mount method should *not* be used for mounting to the dashboard of the vehicle.

Figure 6

Vent Mount Method (C)

When assembling the vent clip, note that the lower arm may be attached in two different positions. You should assemble the vent clip in the configuration that works best in your particular vehicle. Figure 7 illustrates both possible configurations of the vent clip.
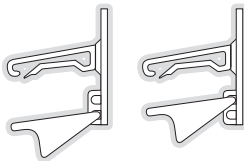
Figure 7

To mount the car dock using the vent mount method, assemble the mount as follows, as shown in Figure 8:

1. Attach the vent clip to mounting bracket 1 using the hex screws and nuts provided.
2. Attach mounting bracket 2 to mounting bracket 1, placing a collar into bracket 1 before screwing bracket 2 to bracket 1. The side of the collar with the hole should face mounting bracket 2.
3. Attach the car dock to mounting bracket 2 using the provided screws.
4. Slide the vent clip portion of the mount into a vent in your vehicle, insuring that one of the vent louvers slides between the upper and lower portions of the two clip arms, and hooks the rear of the louver.

Vent Clip   Mounting Bracket (1)   Mounting Bracket (2)   Vehicle Dock

Collar

Clip Arms

Figure 8

Installing the Antenna

The optimum mounting location for the magnetic antenna is on the roof of the vehicle, with a minimum unobstructed area of 12 inches by 12 inches, and exactly 6½ inches from the rear roof edge of the vehicle (the length of the rubber antenna cable cover/tail). It is important to avoid any obstructions that will block the SIRIUS signal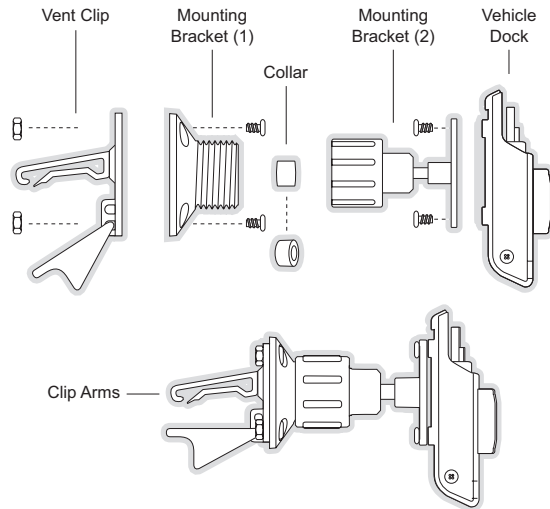, obstructions such as a roof rack, a sunroof, roof mounted cargo containers, or other antennas. For convertible vehicles, the antenna should be installed on the trunk lid.

For best performance, it is recommended that the antenna be installed with the rubber antenna cable cover/tail. This rubber antenna cable cover/tail provides two benefits: first, it positions the antenna the recommended distance from the rear window, rear door/hatch, or trunk edge to give the antenna the best view of the sky. Secondly, it conceals and protects the exposed antenna cable. The rubber antenna cable cover/tail has adhesive strips that hold it securely in place.

The following illustrations show the recommended mounting locations of the antenna for several types of vehicles. (Figure 9) Follow these recommendations for best performance from the antenna.
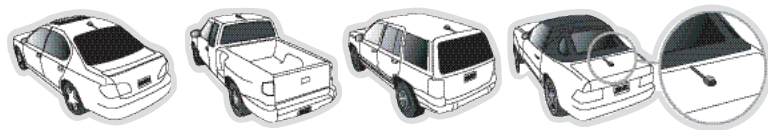

Figure 9

Sedan/Coupe. Mount the antenna along the rear centerline of the vehicle roof, located at the rear of the roof near the rear window.

Pickup Truck. Mount the antenna along the rear centerline of the cab roof, located at the rear of the roof near the rear window.

SUV/Mini-Van. Mount the antenna along the rear centerline of the vehicle roof, located at the rear of the roof near the rear door/hatch.

Convertible. Mount the antenna along the centerline of the trunk lid, with the rubber antenna cable cover/tail directed toward the rear window.

When you have selected a suitable mounting location, clean the area where the antenna and rubber antenna cable cover/tail will be mounted with the supplied alcohol swab.
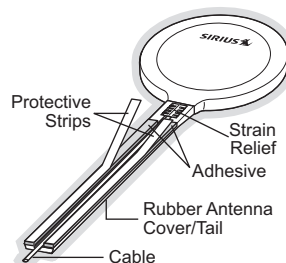

Protective Strips · Strain Relief · Adhesive · Rubber Antenna Cover/Tail · Cable
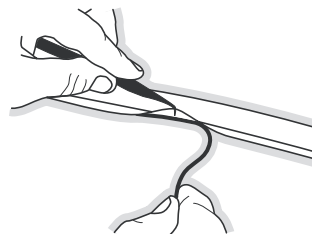
Figure 10   **Figure 11**

Connect the rubber antenna cable cover/tail to the antenna cable, making sure that the strain-relief on the antenna sits into the rubber antenna cable cover/tail groove. (Figure 10) Route the antenna cable through the wire channel in the rubber antenna cable cover/tail. Do not remove the adhesive strips yet.

Temporarily position the antenna and rubber antenna cable cover/tail in the selected mounting area and route the cable from the antenna to the vehicle's interior by tucking it underneath the rubber molding around rear window, as shown in Figure 11.

Route the cable from the lowest point of the rear window into the trunk. Take advantage of any existing cable channels or wiring conduits. For SUVs, mini-vans and 5-door vehicles, bring the cable into the vehicle under the rubber molding for the tailgate, and continue under the interior trim.

From the trunk, or rear of the vehicle, route the cable around the passenger compartment and to the front of the vehicle, to the receiver. Take care not pull the cable across sharp edges that could damage it, and keep it away from areas where it might entangle feet. Coil any

excess antenna cable in a location where it can be hidden.
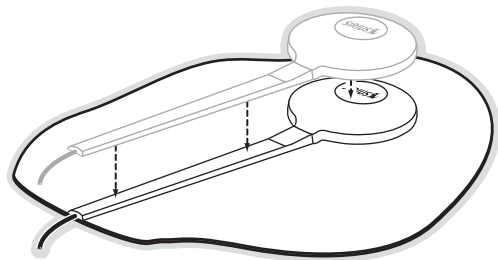
Figure 12

Once the antenna cable is routed through the vehicle, and you are satisfied with the cable routing, peel the protective material from the adhesive strips and press the rubber antenna cable cover/tail firmly into place on the vehicle. Double check that the location of the antenna and rubber antenna cable cover/tail are correct, and continue to press firmly down on rubber antenna cable cover/tail for another 30 seconds. (Figure 12) At room temperature (68 degrees), maximum adhesion usually occurs within 72 hours. During this period, avoid car washes and other contact with the antenna and rubber antenna cable cover/tail.

Connecting the Cigarette Lighter Adapter

Connect the provided cigarette lighter adapter to the DC 5V connection at the rear of the vehicle dock. (Refer to Figure 1 on page 8 for the location of this connector.)

Do not use any other power adapter for the Sirius S50, or connect it directly to the vehicle's power. Doing so will damage the Sirius S50. Using anything other than the supplied cigarette lighter adapter to power the vehicle dock will void the warranty.

Troubleshooting

Symptom	Solution
Sirius S50 does not power on	Check the battery to be sure it is installed correctly. Charge the battery. Check that the media player is properly seated in the dock. Check the cigarette lighter adapter to be sure it's seated in the cigarette lighter, and connected to the vehicle dock.
Sirius S50 displays *No Antenna*	The satellite antenna is not connected to the vehicle dock. Check the satellite antenna connection to the dock. Check that the media player is properly seated in the dock.
Sirius S50 displays: *No Signal*	No satellite signal is being received. Check that the media player is properly seated in the dock. Check for obstacles over or around the satellite antenna. Change the vehicle location to eliminate nearby obstacles (bridges, overpasses, etc.).
Audio static or loss of clarity	The FM frequency contains static. Locate a quiet FM frequency on your vehicle radio and set the FM transmitter frequency of the Sirius S50 to match. If using the Line Out audio connector, check the cable connections.

Troubleshooting *Continued*	
Symptom	**Solution**
No sound	***When in the vehicle dock:*** Check if the FM radio is set to the wrong frequency. Tune the vehicle FM radio and the Sirius S50 to the same FM frequency. Check if the FM transmitter in the Sirius S50 is turned off. Turn the FM transmitter on. If using the Line Out audio connector, check the cable connections. ***When using the media player:*** Check that the ear buds are plugged into the headphone jack securely.
The Sirius S50 will not start up	The operating system files on the Sirius S50 have been deleted. Connect the Sirius S50 to your PC using the USB cable, and use the My Sirius Studio software to download new operating system files. Follow the software instructions included on the software CD.
The Sirius S50 does not respond to the Media Dial or the buttons	Remove the media player from the dock, remove the battery from the media player, wait 10 seconds, replace the battery and turn it back on.

Specifications

Satellite Frequencies . . . . .2322.293/2330.207 MHz

Terrestrial Frequencies . . . . 2326.250 MHz

Power Requirements . . . . .5 Volts DC, 1.5A, Center Positive

Operation Temperature . . . .-5° to +40° C (23° to 104° F)

Signal-to-noise (S/N) 90dB (MP3)

Car Dock Dimensions (Height x Width x Depth) . . . . .9.65cm x 4.8cm x 1.7cm

(3.8" x 1.89" x .67")

Antenna Type . . . . .Low Profile Magnetic

Antenna Cable Length . . . . 21' (single micro-cable)

Connector Type . . . . SMB (right-angle)

Audio Interface . . . . 1/8" / 3.5mm Stereo Jack

Warranty

12 Month Warranty

SIRIUS Satellite Radio Inc. (the "Company") warrants to the original retail purchaser of this product that should this product or any part thereof, under normal use and conditions, be proven defective in material or workmanship within 12 months from the date of original purchase, such defect(s) will be repaired or replaced with new or reconditioned product (at the Company's option) without charge for parts and repair labor. To obtain repair or replacement within the terms of this Warranty, the product is to be delivered with proof of warranty coverage (e.g. dated bill of sale), specification of defect(s), transportation prepaid, to the location shown below under WARRANTY RETURN.

This Warranty does not extend to the elimination of externally generated static or noise, to correction of antenna problems, to costs incurred for installation, removal or reinstallation of the product, or to damage to tapes, compact discs, speakers, accessories, or vehicle electrical systems.

This Warranty does not apply to any product or part thereof which, in the opinion of the Company, has suffered or been damaged through alteration, improper installation, mishandling, misuse, neglect, accident, or by removal or defacement of the factory serial number/bar code label(s). THE EXTENT OF THE COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE AND, IN NO EVENT, SHALL THE COMPANY'S LIABILITY EXCEED THE PURCHASE PRICE PAID BY PURCHASER FOR THE PRODUCT.

This Warranty is in lieu of all other express warranties or liabilities. ANY IMPLIED WARRANTIES, IN-CLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, SHALL BE LIMITED TO THE DURA-TION OF THIS WRITTEN WARRANTY. ANY ACTION FOR BREACH OF ANY WARRANTY HERE-UNDER INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY MUST BE BROUGHT WITHIN A PERIOD OF 48 MONTHS FROM DATE OF ORIGINAL PURCHASE. IN NO CASE SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WHATSOEVER. No person or representative is authorized to assume for the Company any liability other than expressed herein in connection with the sale of this product. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damage so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights and you may also have other rights which vary from state to state.

WARRANTY RETURN: To obtain repair or replacement within the terms of this Warranty, please re-turn product to an authorized retailer or call Customer Service at 1-800-869-5590; proof of purchase and description of defect are required. Products to be returned to an approved warranty station must be shipped freight prepaid.

SIRIUS SATELLITE RADIO

SIRIUS
SATELLITE RADIO

USER MANUAL

Sirius-S50 CAR KIT