



STARMATE | ***Replay***

ST2 STARMATE REPLAY
SIRIUS Satellite Radio Plug and Play

User and Installation Guide



CONGRATULATIONS! Your new ST2 Starmate Replay SIRIUS® Satellite Radio Plug and Play lets you enjoy SIRIUS Satellite Radio's digital entertainment in your vehicle, home, or boat. Use this guide to familiarize yourself with all of ST2's features and capabilities. For the latest information about this and other SIRIUS products, please visit <http://www.siriusradio.com>.

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Safety Precautions

Warning

Take the following precautions to prevent fire and avoid personal injury:

- Be sure the Receiver is installed as described in the Installation Guide.
- The use suggestions contained in this User Guide are subject to any restrictions or limitations that may be imposed by applicable law—the purchaser should check applicable law for any restrictions or limitations before installing and/or operating this Receiver.
- Failure to follow these safety instructions and warnings may result in a serious accident.
- To avoid short circuits, never put or leave any metallic objects (coins, tools, etc.) inside the Receiver.
- If the Receiver emits smoke or unusual odors, turn the power off immediately.
- Do not drop the Receiver, or subject it to strong shocks.

- If the LCD display on the Receiver becomes damaged or broken, do not touch the liquid crystal fluid. The fluid can be dangerous to your health. If the liquid crystal fluid contacts your body or clothing, immediately wash it off with soap and water.



Caution

Take the following precautions to keep the Receiver in proper working order:

- Do not open the Receiver.
- When replacing a fuse, use only a new one with the proper rating. Using a fuse with the wrong rating may cause the Receiver to malfunction.
- To prevent a short circuit when replacing a fuse, first disconnect the wiring harness.

Note:

If the Receiver doesn't seem to be working properly, turn the Receiver's power off, wait 5 – 10 seconds, then turn the power on again.

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 User Guide. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

Note:

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.



Warning

Do not operate the Receiver 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.

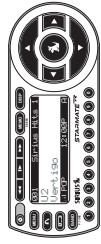
Cleaning the Receiver

If the Receiver becomes dirty, turn its power off and wipe it clean with a soft dry cloth. Do not use hard cloths, paint thinner, alcohol, or other volatile solvents to clean the Receiver. These may cause damage to the plastic or remove indicator characters.



Package Contents

The following items are packaged with the ST2 Starmate Replay. Check the package to be all of the items are included. If any of the items are missing, please contact the retailer where you purchased the product.



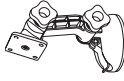
Starmate Replay
ST2 Receiver



Alcohol Swab and
Velcro® Strip



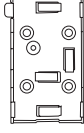
Starmate Replay
Remote Control



Suction Cup Mount
& Screws



Magnetic Antenna



Mounting Plate



Cigarette Lighter
Power Cord



Rubber Antenna
Cable Cover/Tail
& Adhesive Strip



User and
Installation Guide

Installation

Installation of your ST2 Starmate Replay Receiver is easy:

1. Choose a location in your vehicle where you will mount the Receiver.
2. Mount the Receiver to the suction cup mount and attach the suction cup portion of the mount to the vehicle window, or use the velcro strip to mount the Receiver.
3. Install the magnetic antenna on the roof of the vehicle, and route the antenna cable to the Receiver.
4. Connect the power cord for the Receiver to your vehicle's cigarette lighter.
5. Subscribe to the SIRIUS service and begin enjoying the SIRIUS entertainment!

Location

Choose a location in your vehicle where the Receiver will not block your vision, interfere with the vehicle controls, or obstruct the air bag. The location should be suitable for using the suction cup mount, such as the windshield or other flat, smooth surface, or a surface suitable for using the velcro mounting.

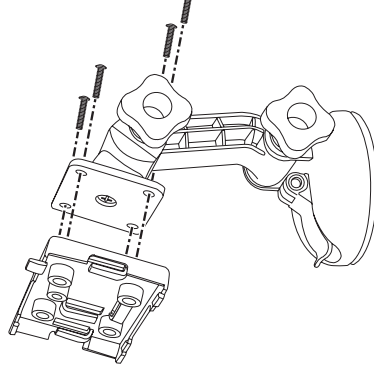
The location should be easily reachable and provide

good visibility of the Receiver.

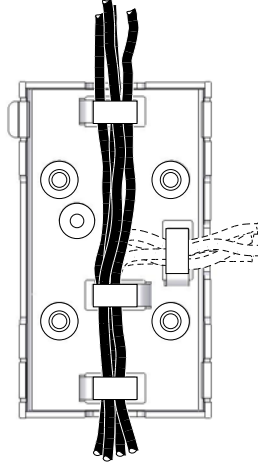
Mounting the Receiver

The Receiver may be attached to the vehicle by using the suction cup mount, or by using the velcro strips.

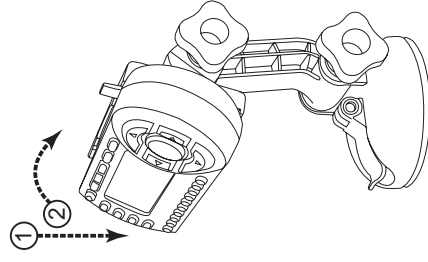
If you are using the suction cup mount, attach the mounting plate to the suction cup mount by using the provided bolts and hex nuts as shown below. Be sure the large tab on the mounting plate is facing up.



If you are using the velcro strip for mounting, attach the velcro strip to the back of the mounting plate. Route the cables through the mounting plate underneath the tabs as shown. The cables may be routed across the mounting plate, or routed down to exit at the bottom.



Place the Receiver into the mounting plate by first placing the bottom of the Receiver into the tabs at the bottom of the mounting plate (1), and then pivoting the top of the receiver into the mounting plate until it snaps into place (2).



If you are using the suction cup mount, attach the suction cup mount to the vehicle windshield, or other surface, as follows:

1. Clean the area where you are attaching the suction cup with an alcohol wipe.
2. Lift up the cam lever on the suction cup mount as shown.

4. Lock the cam lever down as shown.



3. Place the suction cup mount on the windshield, or other area, and press the cam lever straight down towards the suction cup to flatten the suction cup as shown.



Installing the Magnetic Antenna

The optimum mounting location for the 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.

The following illustrations show the recommended mounting locations of the antenna for several types of vehicles. Follow these recommendations for best

performance from the antenna.

Sedan/Coupe: Mount the antenna along the rear centerline of the vehicle 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.



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

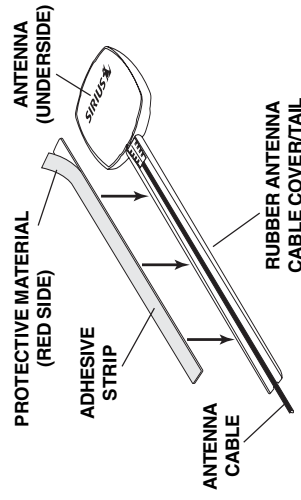


Convertible: Mount the antenna along the centerline of the trunk lid, with the rubber antenna cable cover/tail directed toward the rear window.

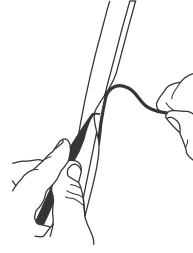


Clean the area where the antenna and rubber antenna cable cover/tail will be mounted with the supplied alcohol swab.

Connect the rubber antenna cable cover/tail to the antenna cable, making sure that the strain-relief on the antenna seats into the rubber antenna cable cover/tail groove. Route the antenna cable through the wire channel in the rubber antenna cable cover/tail. Do not yet attach the adhesive strip.



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.

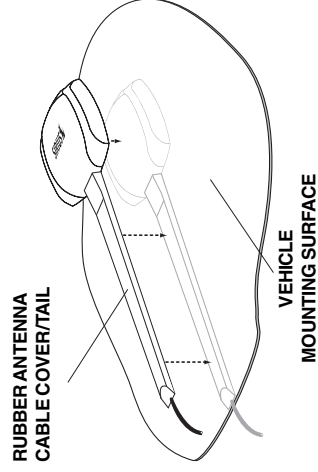


Route the cable from the lowest point of the rear window into the trunk. Take advantage of any existing cable channels or wiring conduits. For SUVs, mini-vans & 5-door vehicles, bring the cable into the vehicle under the rubber molding for the tailgate, and continue under the interior trim.

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.

Once the antenna cable is routed through the vehicle, and you are satisfied with the cable routing, peel the **yellow** protective material from the adhesive strip and adhere the adhesive strip to the rubber antenna cover/tail. Next peel the **red** protective material from the adhesive strip and press the rubber antenna cable cover/tail firmly into place on the vehicle.

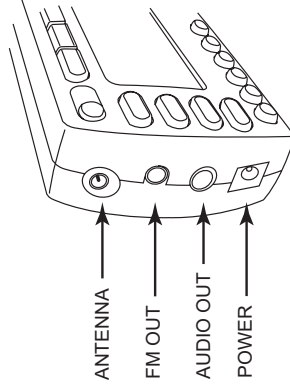
Double check that the location of the antenna and rubber antenna cable cover/tail are correct, and continue to press firmly down on rubber antenna cable cover/tail for another 30 seconds.



Note: 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 Receiver

Connect the antenna and cigarette lighter power adapter to the Receiver to complete the installation. The illustration below shows the location of the antenna and power connectors on the Receiver.

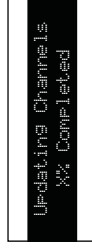


Plug the cigarette lighter power adapter cord into your vehicle's cigarette lighter, and turn the Receiver On by pressing the power button. Once you have verified that Receiver has powered on, you can proceed with activating your SIRIUS subscription.

Activating your SIRIUS Subscription

Before you can listen to the SIRIUS service, you need to subscribe to the SIRIUS Satellite Radio service.

1. Be sure that the Receiver is correctly installed and that the antenna is oriented to receive the SIRIUS signal.
2. Press the power button to turn Receiver On. After displaying the SIRIUS logo, the Receiver will update the SIRIUS channel line up. The display will show, "UPDATING CHANNELS" and show the status of the update.



Wait until the channel updates have completed before pressing any buttons on the Receiver.

3. Once the channels have been updated, the display will change to "Call 1-888-539-SIRIUS to Subscribe" and will place you in SIRIUS Satellite Radio's Preview Channel, channel 184.

You will not be able to tune to any other

channels until you activate your SIRIUS subscription.



4. To listen to the audio from your Receiver, you will need to tune the FM radio in your vehicle and the FM transmitter in the Receiver to the same FM frequency. The FM transmitter in the Receiver defaults to 88.1 MHz, so you can begin by tuning your FM radio to 88.1 MHz. If there is an FM station broadcasting on that frequency, you will have to search for a quiet frequency to use. Refer to the section titled, *FM Transmitter* in this User Manual for instructions on how to tune the FM transmitter to other FM frequencies.
5. Use the channel up and down buttons to tune the Receiver to channel 000 to display the Receiver's unique 12-digit SIRIUS ID Number (SID). You may also directly tune to channel 000 by pressing the Select button, pressing the 0 (zero) button, and pressing the Select button



again. You may do this from either the Receiver or the remote control. (This SID number is also available on the ST2 packaging.) Write the SID number down in the space provided at the end of this manual.



6. Have your credit card handy and contact SIRIUS on the Internet at:

<https://activate.siriusradio.com/>

and follow the prompts to activate your subscription. You can also call SIRIUS toll-free at:

1-888-539-SIRIUS (1-888-539-7474)

7. When you have successfully subscribed to the SIRIUS service, and the Receiver has been updated with your subscription information, an alert will be displayed.



To continue, press any key on the Receiver.

The installation of your Receiver is now complete, and you are ready to begin enjoying SIRIUS Satellite Radio's digital entertainment!

Optional Installation Kits

There are two optional installation kits which may be purchased for use with your ST2 Starmate Replay Receiver, a Custom Vehicle Installation Kit (Model # STV2), and a Home Kit (Model # STH2). These kits may be purchased from your SIRIUS Satellite Radio retailer.

Custom Vehicle Installation Kit (STV2)

The optional custom vehicle installation kit provides additional items for a more permanent installation in your vehicle. The kit consists of the following items: *DIN-compatible Install Plate* - for installing the Receiver in the dashboard of your car or boat.

Power Harness - for connecting the power for the Receiver to the vehicle's electrical system.

FM Switching Box - for connecting the FM output of the Receiver into the FM antenna input of your vehicle's radio. This box will automatically switch off the vehicle's FM antenna when you turn on your SIRIUS Receiver.

Audio Cables - For connecting the audio output of the Receiver into your vehicle's audio system.

Home Kit (STH2)

The optional home kit allows you to enjoy the SIRIUS Satellite Radio's digital entertainment in your home, by allowing you to take your Receiver from your vehicle into your home. The kit consists of the following items:

Stand - A stand into which to snap your Receiver while being used in your home.

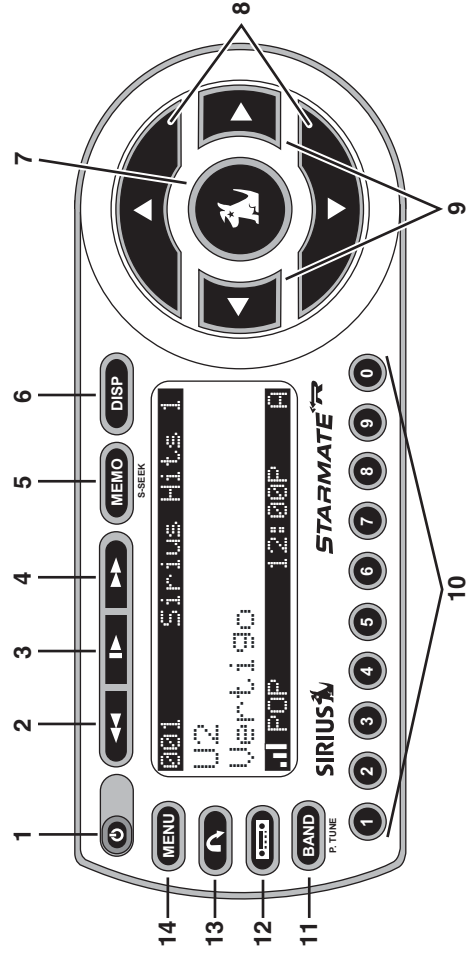
AC Adapter - A power adapter to power your Receiver in the home.

Audio Cables - Cables to connect the Receiver to powered speakers, or your home entertainment system.

Home Antenna - A SIRIUS antenna to connect to your Receiver while in your home.



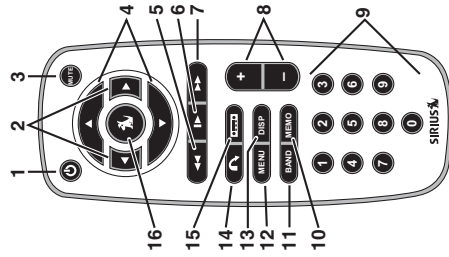
ST2 Starmate Replay Receiver Basic Operation



Controls and Features

1. **POWER Button** (⏻) : Turns the Receiver's power On and Off.
2. **Rewind Button**: Used to rewind through a broadcast saved in Instant Replay.
3. **Play/Pause Button: Pause Function**: Used to pause a broadcast for Instant Replay. **Play Function**: Used to play a broadcast saved in Instant Replay.
4. **Fast Forward Button**: Used to fast forward through a broadcast saved in Instant Replay.
5. **MEMO (Memory) Button (S-Seek Function)**: Saves and recalls artist names, song titles, and sports teams. Holding the button down enters the S-Seek mode.
6. **DISP (Display) Button**: Toggles display between the default display screen and large screen display mode. Holding the DISP button down switches the display to the channel list mode.
7. **Select Button**: Selects items highlighted on the display screen.
8. **Channel Up/Down Buttons**: Navigates through channels and display screens, and highlights items on the display.
9. **Category Previous/Next Buttons**: Navigates through the category list screen which displays SIRIUS channel categories.
10. **Preset Number Buttons (0-9)**: Sets and selects preset channels. Also used to directly tune channels by entering the channel number.
11. **BAND Button (P.Tune)**: Pressing and releasing switches between the five preset banks (A, B, C), which hold ten presets each. Pressing and holding enables "Preset Tune Mode", which allows for viewing and listening of stored presets with the channel up/down buttons.
12. **FM Preset Button**: Selects between preset FM frequencies used for the built-in wireless transmitter.
13. **Jump Button**: Used to quickly switch between the current channel and a favorite channel.
14. **MENU Button**: Used to access menu options to make setup and feature changes.

Remote Control

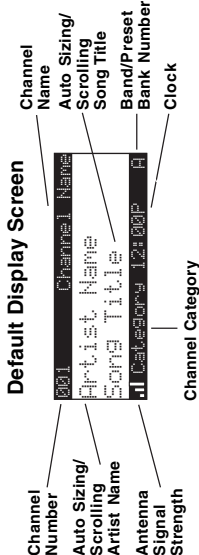


1. **Power Button** (1): Turns the Receiver power On and Off.
2. **Category Previous/Next Buttons**: Navigates through categories.
3. **MUTE Button**: Mutes the audio.
4. **Channel Up/Down Buttons**: Navigates through channels and display screens.
5. **Rewind Button**: Used to rewind through a broadcast saved in Instant Replay.
6. **Play/Pause Button: Pause Function**: Used to pause a broadcast for Instant Replay. **Play Function**: Used to play a broadcast saved in Instant Replay.
7. **Fast Forward Button**: Used to fast forward through a broadcast saved in Instant Replay.
8. **+/- Volume Buttons**: Adjusts the audio volume up & down.
9. **Number Buttons (0-9)**: Used for directly selecting channels and for presets.
10. **MEMO (Memory) Button**: Saves and recalls artist names, song titles, and sports teams. Holding this button down enters the S-Seek mode.
11. **BAND Button**: Switches between preset bands A, B, and C.
12. **MENU Button**: Used to access menu options to make setup and feature changes.
13. **DISP Button**: Toggles display between the default display screen and large screen display mode. Holding this button down switches to the channel list mode.
14. **Jump Button**: Used to quickly switch between the current channel and a favorite channel.
15. **FM Preset Button**: Selects between preset FM frequencies used for the built-in wireless transmitter.
16. **Select Button**: Selects items highlighted on the display screen.

Installing Batteries in the Remote Control

1. Remove the battery cover.
2. Install CR2025 battery.
(+ positive side is up)
3. Replace the battery cover.

After you have successfully activated your SIRIUS subscription, and the Receiver has received the subscription information from the SIRIUS signal, the default display screen will be displayed.



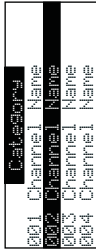
When the Receiver is powered On, the previously selected channel will automatically begin playing, and the artist name and song title of the currently playing song will be displayed.

Changing Channels

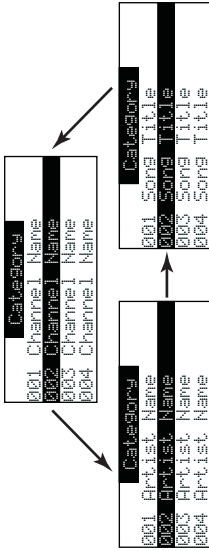
Pressing the channel up or down button will cause the Receiver to immediately tune to the next or previous channel.

Pressing the category previous or next button will cause the receiver to display a list of the channels in the current category, highlighting the channel to

which you are currently tuned.



Repeated momentary pressing of the **DISP** button while in the category list mode will cause the Receiver to sequence the display between listings of artist names, song titles, and back to channel names.



Pressing the category previous or next button again will cause the Receiver to display a listing of the previous or next channel category.

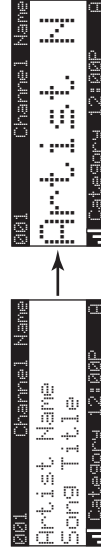
Use the channel up/down buttons to highlight a

channel within a category and press the select button to tune to the highlighted channel. When a new channel is selected, the display will revert to the default display screen for the new channel.

To exit the channel list mode without changing to a different channel, press and hold the **DISP** button for 1½ seconds, until the default screen is displayed.

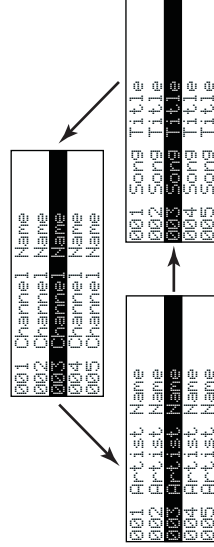
Display Button (DISP)

Momentarily pressing and releasing the **DISP** (Display) button while the default screen is displayed changes the artist name and song title to a scrolling, single line, large format display for easier viewing from a distance.



Pressing and holding the **DISP** button for 1½ seconds will cause the Receiver enter the channel list mode. The channel list mode makes it easy to quickly search for and locate music by channel, by category, by artist, and by song title.

Once the Receiver has entered the channel list mode, a listing of the channel numbers and names is displayed. Repeated momentary pressing and releasing of the **DISP** button will sequence the display between listings of artist names, song titles, and back to channel names.



Note: If you are viewing a sports category channel list (NFL®, NBA®, NHL®, or College), pressing the **DISP** button will instead toggle between the team names and the current score of any live play-by-play game.

Use the category previous and next buttons to scroll through the music and entertainment categories, and the channel up and down buttons to scroll

through the available channels in each category to find the channel to which you want to listen.

When you have found the channel you wish to listen to, highlight the channel using the channel up and down buttons and press the select button to tune to the channel. The new channel will begin playing and the display will revert to the default display screen for the new channel.

To exit the channel list mode without changing to a different channel, press and hold the **DISP** button for 1½ seconds, until the default screen is displayed.

Selecting Channels Directly

A channel may be directly selected by entering the channel number using the 0 - 9 buttons on the Receiver.

To enter a channel number, momentarily press and release the select button. At the display prompt enter the three digit channel number.



Advanced Features

Channel Presets (BAND)

You can store up to 30 of your favorite channels as presets for quick recall access. The preset channels are stored in 3 bands, A, B, and C, each containing 10 channel presets, and are numbered 0 to 9. The 10 channel presets in each band are accessed by pressing the appropriate number (0 to 9) on the Receiver. A momentary press and release of the **BAND** button cycles through the 3 preset bands (A, B, and C).

Storing Channel Presets

To store a favorite channel as a preset, do the following:

1. Momentarily press and release the **BAND** button until the desired preset band, A, B, or C, is displayed in the lower right corner of the default display screen.
2. Tune the Receiver to the channel you wish to store as a preset. (See the section, *Basic Operation* for specific instructions for tuning to a channel.)
3. Press and hold for 1½ seconds the numbered

preset button in which you wish to store your favorite channel, until you hear a beep. The band and preset number will then be displayed in the lower right corner of the display screen to confirm that the channel has been stored.



Note: If the preset button already has a channel stored in it, the preset will be replaced by the newly stored channel.

Using Channel Presets

The active band of presets is displayed in the lower right corner of the default display screen, A, B or C. To change the active band, momentarily press and release the **BAND** button to cycle between the preset bands.

The 10 preset channels in the active band can then be selected by momentarily pressing and releasing the 0 through 9 buttons.

When you have chosen a preset channel, the band

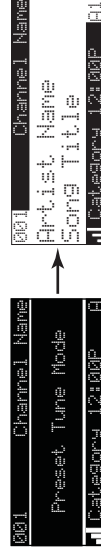
and preset number will be displayed in the lower right corner of the default display screen.



Searching for a Channel Preset (P.TUNE Mode)

To quickly search through all of your presets in the P.TUNE mode, do the following:

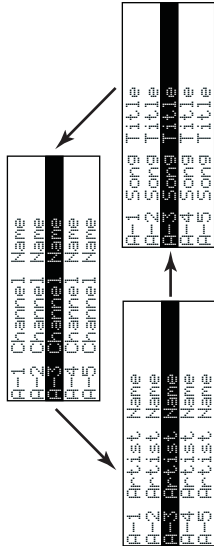
1. Press and hold the **BAND** button for approximately 1 second to enter the P.TUNE mode. "Preset Tuning Mode" will momentarily be displayed and the top left and lower right corners of the display will invert to indicate the Receiver is in the Preset Tune Mode.



2. Use the channel up and down buttons to move up or down through your channel presets and immediately tune to each channel. Channel

presets are grouped and displayed by bank and preset number, i.e., A-1, A-2...B-1, B-2, etc. Empty presets are not displayed.

3. To view the channel presets in the channel list mode, where you can view 4 presets at once, momentarily press and hold the DISP button for approximately one second until the channel list mode is displayed. Repeated momentary pressing and releasing of the DISP button will sequence the display between listings of artist names, song titles, and back to channel names.



Note: If you are viewing a sports category channel list (NFL®, NBA®, NHL®, or COLLEGE), pressing the DISP button will instead toggle

between the team names and the current score of any live play-by-play game.

4. To exit the channel list mode, press and hold the DISP button for approximately one second, until the display reverts to the P.TUNE mode.
5. To exit the P.TUNE mode, press and hold the BAND button for approximately 1 second, until the default display screen is displayed.

Memory (MEMO) and Song Seek (S-Seek) Functions

This feature allows you to capture and store information in the Receiver's memory about the currently tuned programming—artist, song, or sports team. The Receiver then continuously searches all incoming SIRIUS channels and alerts the user when a program saved in memory matches a selection currently being played.



A total of 30 artists, songs, and sports teams may be stored in memory.

If you have saved a sports team (or teams) in memory, at the time Receiver is initially powered on, you will be alerted if your sports teams are playing in a game being broadcast. Also, while listening to your SIRIUS receiver, should one of your teams begin to play a game, you will be alerted.



Storing Artist Names, Song Titles, and Sports Teams to Memory

If you are listening to a song or other entertainment channel, or a sports team, and wish to save the artist, song, or sports team selection to memory for future S-Seek alerts, do the following:

1. For **Artist Names** or **Song Titles**: If the currently tuned channel is a music or entertainment channel, momentarily press and release the **MEMO** button. The Receiver will display a menu to choose to store the artist name or the song title.



If either the artist name or song title is not available to save, the choice will be displayed as unavailable.



Using the channel up and down buttons, choose Store Artist or Store Song (when available) and press the select button to save the current selection to memory.

If both the artist and song are available to save, you will be prompted again to save whichever one you haven't yet saved, song title or artist name. If you do not wish to save, press the **MEMO** button to exit.



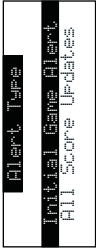
2. For **Sports Games**: If the current tuned channel is an NFL, NBA, NHL, or College play-by-play sports broadcast, momentarily press and release the **MEMO** button. The Receiver will display a menu to choose which sports team should be saved to memory.



If either of the teams is not available to save, that team will be displayed as unavailable.



Using the channel up and down buttons, choose the desired sports team (when available) and press the select button to save the current selection to memory.
The next screen will ask which kind of alert you wish to have.



"Initial Game Alert" will provide an alert when the team you have chosen is playing a game. "All Score Updates" will provide an alert when the team you have chosen is playing a game, and also when the scores are updated for the team. Using the channel up and down buttons, choose the desired alert and press the select button to save the selection to memory.
If both teams are available to save, you will be prompted again to save the other team. If you wish to save the team, follow the same procedure as when saving the first team. If you do not wish to save, press the **MEMO** button to exit.

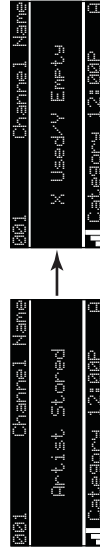


3. To ensure that no duplicate entries are stored in memory, the Receiver will check the stored memory list to ensure that the alert about to be stored is not already stored in memory. If a duplicate entry is found, an "Unable to Store" screen will be displayed for 1 second.



The Receiver will then revert to the last active display mode.

4. If the new alert was successfully stored in memory, a "Artist/Song/Game Stored" pop-up screen followed by an "X Used/Y Empty" screen will be displayed for 1 and 2 seconds respectively. **X** is the total number of listings stored in memory, and **Y** is the total number of memory listings still available for storage.



5. If the **MEMO** button is pressed and all of the memory spaces are full, an "S-Seek Full" screen will be displayed for 1 second.



A "Replace" or "Cancel" screen will then be displayed which will allow you to choose whether to replace an existing alert stored in memory, or to cancel storing the alert to memory.



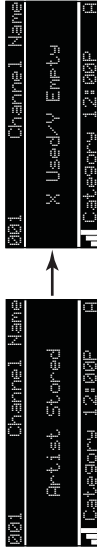
Using the channel up and down buttons, choose whether to replace an existing alert or cancel saving the alert to memory. If you choose to cancel saving the alert, the Receiver will revert to the last active display mode.

If you have chosen to replace an existing alert, a listing of all the alerts stored in memory will be

displayed.



Using the channel up and down buttons, highlight the alert that you would like to overwrite and press the select button to store the new alert. If the new alert was successfully saved in memory, a “Artist/Song/Game Stored” pop-up screen followed by an “X Used/Y Empty” screen will be displayed for 1 and 2 seconds respectively. X is the total number of listings stored in memory, and Y is the total number of memory listings still available for storage.



The Receiver will revert to the last active display mode.

Viewing Stored Alerts Stored in Memory

To view the alerts which have been saved to memory, press and hold the **MEMO** button for 1½ seconds to enter S-Seek mode. The alerts stored in memory will be displayed one-at-a-time in page format. Use the channel up and down buttons to scroll through the listings. This function allows you to review previously stored program information.



To exit this function, momentarily press and release the **MEMO** button.

Deleting an Alert Stored into Memory

To delete an alert stored in memory, do the following:

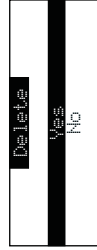
1. Press and hold the **MEMO** button for 1½ seconds to enter S-Seek mode. The alerts stored in memory will be displayed one-at-a-time in page format.
2. Use the channel up and down buttons to find the alert which you wish to delete and press the

select button.

3. A screen displaying “Delete”, “Seek On”, and “Seek Off” will be displayed.



4. Use the channel up and down buttons to highlight the “Delete” option, and press the select button. A delete confirmation screen will appear.



To permanently delete the alert from the memory list, highlight “Yes” using the channel up and down buttons and press the select button to confirm.

5. A “Deleted” pop-up screen followed by an “X Used/Y Empty” screen will be displayed for 1

and 2 seconds respectively. **X** is the total number of listings saved in memory, and **Y** is the total number of memory listings still available for storage.



The Receiver will revert to the last active display mode.

Activating the S-Seek Alert

To activate the S-Seek alert function to begin receiving alerts, do the following:

1. Press and hold the **MEMO** button for 1½ seconds to enter the S-Seek mode.
2. Press and release the select button. A screen displaying “Delete”, “Seek On”, and “Seek Off” will be displayed.

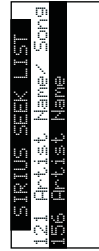


3. To enable S-Seek alerts, use the channel up and down buttons to highlight the “Seek On” option and press the select button. The S-Seek function is now enabled.

When the S-Seek option is enabled, whenever the Receiver is turned on, it automatically searches the incoming channels to determine if a match exists with the program information stored in the S-Seek memory. If one or more matches are found, a pop-up screen momentarily appears for 2 seconds and displays “S-Seek Alert” or “Game Alert”, depending upon which type of a match was found. An audible beep tone will also be heard indicating that a match was found.



The Receiver then displays the S-Seek Alert or My Game Zone screen, which displays a list of the current matches. No alert is provided for the currently selected channel.



You can now select the artist, song, or sports game that you wish to tune to by using the channel up and down buttons to highlight your selection from the list, and then pressing the select button. If no selection is made within 10 seconds, the Receiver will revert to the last active display mode. **NOTE:** Play of the current selection will continue until a new selection is chosen from the S-Seek or My Game Zone list.

Jump Button

The Receiver has a special preset button called the Jump button, which is identified by the  icon.

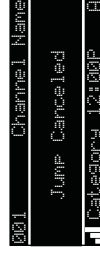
The Jump button is used to quickly tune to a channel that is accessed frequently and temporarily such as a traffic channel, a weather channel, a

news channel, a sports channel, or any channel at all. Pressing the Jump button allows you to quickly tune to the specific channel you have programmed into the Jump button, and then tune back to the original channel by pressing the Jump button again. (Refer to the *Menu Options* section of this manual for instructions for configuring the Jump button.)

If the Jump button has been preset to the traffic option, which will cause the Receiver to access a specific city traffic report, pressing the Jump button will immediately begin a search for the city's traffic report. The Jump icon will be displayed in the lower right corner of the display screen to indicate that a Jump search is active. The search process may take up to 4 minutes until the city's traffic report is found. The Receiver will automatically tune to the traffic report channel when the traffic report is found.

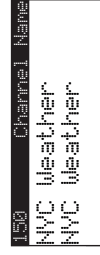


Pressing the Jump button again while the Receiver is actively searching will cancel the search.



Pressing the Jump button after the Receiver has tuned to the traffic report channel will return you to the previous channel.

If the Jump button has been preset to the JumpSet option, pressing the Jump button will immediately tune to the channel preset into the JumpSet. The Jump icon will be displayed in the lower right corner of the display screen to indicate that the Jump preset channel is currently tuned.

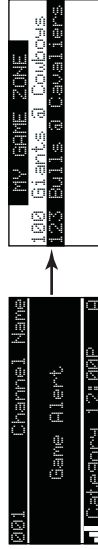


Pressing the Jump button again will return to the previous channel.

Note: The channel preset for the Jump button remains the same regardless of which preset memory bank is currently selected.

Game Alert

The Receiver has a feature called Game Alert which can automatically alert you when your favorite sports team is playing a game. When a sports game involving one of your favorite sports teams is found, a Game Alert screen is displayed, followed by a screen displaying tuning information for the sports games.



You can then use the channel up and down buttons to highlight your favorite sports team in the list, and then press the select button to tune to the channel where the game is being broadcast.

Refer to the *Game Alert* section in the *Menu Options* section of this manual for instructions on programming your favorite sports teams into the Receiver. You can also use the S-Seek feature to add Game Alerts for sports teams. See the section, *Storing Artist Names, Song Titles, and Sports Teams to Memory* for more information.

Instant Replay

The Receiver has a feature called Instant Replay which stores the audio of the channel to which you are listening for later playback. Approximately 30 to 60 minutes of audio depending upon the channel to which you are tuned is stored. As soon as you tune to a channel, the Receiver automatically begins storing the audio, enabling you to rewind at any time to replay the audio again. If you unable to continue listening to a channel, but do not want to miss the broadcast, pressing the Play/Pause button will cause the Receiver to mute the audio and mark the point in the broadcast so you can resume listening at a later time.

- **Pause/Play button.** When pressed, this places the Receiver in the Instant Replay pause mode which mutes the audio.

Pressing and releasing the Pause/Play button causes the Receiver to begin playing the stored audio from the point at which the Receiver was paused. During playback, the Receiver will continue to store the channel audio until you exit the Instant Replay mode.

Pressing and holding the Play/Pause button changes the display to a listing of the artist's names in the stored audio, from the most recent to the oldest, beginning with an entry called "Live". (Pressing the DISP button will toggle the display between the artist name list and the song/program title list.) An item from the list may be chosen and the playback will commence from that point in the stored audio, or, "Live" may be chosen which will exit the Instant Replay mode, and the Receiver will resume playing the live broadcast.

REPLAY LIST	
Live	
Artist	
Artist	
Artist	

REPLAY LIST	
Live	
Song Title	
Song Title	
Song Title	

- **Fast Forward button.** The fast forward button forwards you through the stored audio.
Pressing and releasing the Fast-Forward button forwards to the start of the next song or program in the stored audio, and playback automatically begins. Repeatedly pressing and releasing the Fast-Forward button causes the

Receiver to continue to move forward in the stored audio to the start of each next song or program until the end of the stored audio is reached. When the end of the stored audio is reached, a beep will be heard (if the Confirmation Tone option is enabled), the Instant Replay mode will be exited, and the Receiver will resume playing the live broadcast.

Pressing and holding the Fast-Forward button for one second advances the playback forward in 10 second intervals, which increases to 15 and then 30 second intervals the longer the Fast-Forward button remains pressed. Playback begins immediately when the button is released. When the end of the stored audio is reached, a beep will be heard, the Instant Replay mode will be exited, and the Receiver will resume playing the live broadcast.

- **Rewind button.** The rewind button rewinds (moves you backwards) through the stored audio.
Pressing and releasing the Rewind button rewinds to the start of the current song or

program in the stored audio, and playback automatically begins. Repeatedly pressing and releasing the Rewind Button causes the Receiver to continue to move backwards in the stored audio to the start of each previous song or program until the beginning of the stored audio is reached. If the beginning of the stored audio is reached, a beep will be heard (if the Confirmation Tone option is enabled) and playback will automatically begin.

Note: Depending upon where in a particular broadcast the channel was selected, the start of a song or program may not be available in memory. If this occurs, the playback will start from where the audio began to be stored. *Pressing and holding* the Rewind button for one second rewinds playback in 10 second intervals, which increase to 15 and then 30 second intervals the longer the Rewind button remains pressed. Playback begins immediately when the button is released. If the beginning of the stored audio is reached while rewinding, a beep will be heard and playback will

automatically begin.

Using Instant Replay

To begin using the Instant Replay feature of the Receiver, press the Pause/Play button. This causes the Receiver to enter the Instant Replay pause mode, which mutes the audio from the Receiver. A “Paused” message will be displayed for two seconds to confirm that the Receiver has entered the Instant Replay mode.



To listen to the audio that was stored, press the Play/Pause button again and the Receiver will begin to play back the audio stored in the Instant Replay memory from the point where you pressed the Play/Pause button.

As you are listening to the playback of the stored audio, you may either fast forward or rewind through the stored audio by pressing the fast-forward or rewind buttons, without having to press the Play/Pause button first. Refer to the previous sections

describing the Rewind and Fast-Forward buttons for specific instructions for their use.

Note: If the Receiver is tuned to another channel while in the Instant Replay mode, the Instant Replay mode is exited, all the audio stored in the Instant Replay memory is erased, and the tuned channel begins to play. Also note that tuning to another channel may automatically occur if another feature of the Receiver has been programmed to do so. When the Instant Replay mode is active, status information is shown at the bottom of the Receiver's display screen.

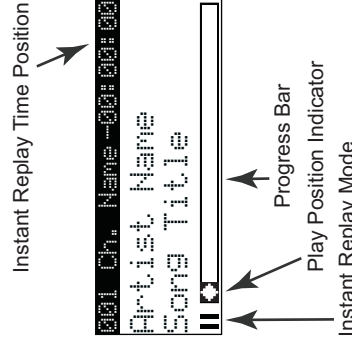
The Instant Replay mode icon that is displayed at the bottom left of the screen indicates the current mode.

|| *Pause mode.* This indicates that the Receiver is paused and muted.

▶ *Play mode.* This indicates that you are in the Instant Replay playback mode, listening to stored audio.

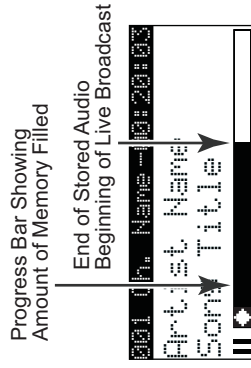
▶▶ *Fast Forward mode.* This indicates that you are fast forwarding through the stored Instant Replay audio.

◀◀ *Rewind mode.* This indicates that you are rewinding, or moving backwards, through the stored Instant Replay audio.

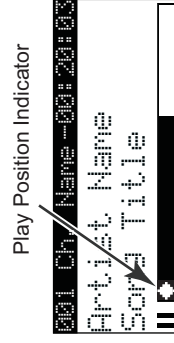


The Progress Bar is a visual indicator of the status of the Instant Replay memory. As the memory fills, Progress Bar begins to fill from the left side providing a visual indication of how much of the Instant Replay memory is filled. The end of the bar indicates the end of the stored audio, where the live broadcast begins. When all available memory has

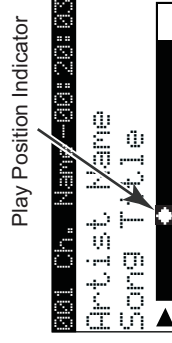
been used, the bar will be completely filled.



A diamond-shaped Play Position Indicator is superimposed over the Progress Bar which provides a visual indicator of the current playback position in the Instant Replay memory.



The Play Position indicator shows your current listening position in the stored audio. When you press the Play/Pause button to begin playback of the stored audio, this indicator will begin to move to the right showing the progression of the playback through the Instant Replay memory, provided that the memory is not full.



The portion of the Progress Bar behind the Play Position indicator shows how much you can rewind in the Instant Replay memory, while the filled portion ahead of the Play Indicator shows how much you can fast-forward in the memory.

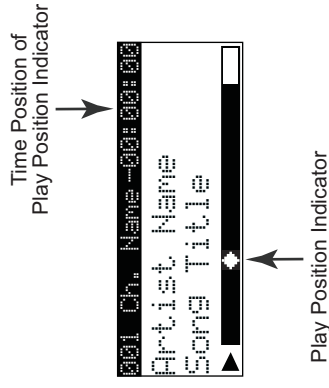
While you are in the playback mode, the Receiver continues to store the audio from the channel. Obviously, you will be unable to “catch up” to the live broadcast during playback, as new audio is being

stored at the same rate at which you are playing back the stored audio. You can use the Fast-Forward button to skip ahead or exit the Instant Replay mode, and begin listening to the live broadcast again.

Should you press the Play/Pause button to stop the playback, the play position indicator will stop moving and continue to provide a visual indication of your current position in the Instant Replay memory.

When the Instant Replay memory is 10 seconds from becoming full, two beeps will be heard (if the Confirmation Tone option is enabled). When the memory is full, the Receiver will automatically begin playback, and will continue to store the channel audio, overwriting the oldest portion of the audio previously stored. When the memory is full, you will be unable to rewind through the stored audio. If you have partially played back the stored audio, and have paused the Receiver again, the Play Position indicator will begin to move left when the Instant Replay memory becomes full, as it begins overwriting the oldest portion of the audio previously stored. When the Play Position indicator reaches

the left-most position, indicating that the memory is full, the Receiver will automatically begin playback.



The Instant Replay Time Position provides the exact amount of time the Play Position indicator is behind the live broadcast, expressed as Hours:Minutes:Seconds, and displayed as a negative number. For example, if -02:40 is displayed, this would indicate that the Play Position indicator is 2 minutes and 40 seconds behind the live broadcast.

FM Preset Button

The Receiver has a special button called the FM Preset button, which is identified by the  icon.

When the FM Preset button is pressed, the Receiver turns on the built-in FM transmitter and begins transmitting on the next frequency from the FM frequency preset list. A screen will be displayed for 3 seconds showing the currently selected FM frequency. When the FM transmitter is turned on, an FM radio tuned to the same FM frequency will receive the currently tuned SIRIUS broadcast. Each subsequent press of the FM Preset button advances to the next frequency in the FM frequency preset list. Using the FM Preset button, a quiet FM frequency may be quickly tuned.

If no FM frequencies have been preset when the FM Preset button is pressed, the Receiver will default to a frequency of 88.1 MHz.

Pressing and holding the FM Preset button will cause a list of the FM presets to be displayed.



You can use the channel up and down buttons to scroll through the FM preset list and highlight the preset you wish to change, and press the Select button to choose the preset. Use the channel up and down buttons to highlight the frequency you wish to select for the preset and press the select button. The FM frequency will then be stored in the preset. To select the preset and exit, press the **MENU** button.

You may also change the FM presets by using the FM Presets menu option of the Receiver. (Refer to the *FM Transmitter* section in the *Menu Options* section of this manual for instructions on programming the FM frequency preset list.)

Menu Options

To enter the Menu Options page of the Receiver, press the **MENU** button. The "Menu Options" list will be displayed.



To select a menu option, use the channel up and down buttons to highlight the option you wish to adjust, and press the select button. If a selection is not made within 10 seconds, the Receiver will exit the menu options screen, and revert to the last active display mode.

To exit the Menu Options screen, or any of the other menu option screens, repeatedly press and release the **MENU** key until you are returned to the default display screen.

The following sections explain each of the menu options in the order in which they are displayed on the Menu Options screen.

FM Transmitter

The FM Transmitter feature allows you to create a preset list of 5 suitable FM frequencies which can then be accessed by using the FM Preset button. This option also allows you to turn the FM

transmitter On and Off.



FM Presets

To create or add to a list of FM Preset frequencies, do the following:

1. Using the channel up and down buttons, highlight the "FM Presets" menu item and press the select button. A list of the FM presets will be displayed. (You may also enter this list by pressing and holding the FM Preset button.)



2. Using the channel up and down buttons, highlight the FM preset you wish to set (or change) and press the select button. A list of FM frequencies will be displayed, beginning with the currently selected FM frequency for the preset.



3. Use your FM radio to locate quiet FM frequencies where there is no interference from adjacent FM stations. These are the frequencies which should be added to the FM Presets list.
4. Using the channel up and down buttons, highlight the frequency you wish to select for the preset and press the select button. The FM frequency will then be stored in the preset. If you do not want a frequency for the preset, choose EMPTY from the menu and press the select button.
5. You may then continue to select FM frequencies for other presets using the same steps. To exit the FM Presets menu, press the **MENU** button.

FM On/Off

To turn the Receiver's FM transmitter On or Off, use the channel up and down buttons to highlight the "FM On/Off" menu item and press the select button.



Use the channel up and down buttons to highlight "FM On" or "FM Off", and press the select button. To exit the FM On/Off menu, press the **MENU** button.

Game Alert

The Game Alert feature allows you to store your favorite sports teams in memory. The Receiver will constantly scan the SIRIUS channels and will sound an alert when a sports team you had stored in memory is playing, or when there is a score update for a team, depending on which option you have chosen for the sports team.

Sports teams which you have selected and which are currently playing will be displayed in a category called "My Game Zone".

You may select one sports team from each sports league and the college category using the Game Alert option, however, more teams may be chosen

by using the Memory (**MEMO**) function. (See the section titled, *Memory (MEMO) and Song Seek (S-Seek) Functions* for more information about adding additional teams.)

To choose sports teams to add for game alerts, do the following:

1. Use the channel up and down buttons to highlight “Game Alert” and press the select button.
2. Use the channel up and down buttons to highlight the sports league or college category of the sports team you wish to add, and press the select button.



3. Use the channel up and down buttons to highlight the league team name or college team name you wish to add, and press the select button.



Note that for college teams, you will receive an alert for all teams playing for that college.

4. Use the channel up and down buttons to highlight which type of an alert you want, and press the select button.



When the Receiver is powered on, and while it is playing, “Initial Game Alert” will sound an alert when the team you have chosen is playing a game. “All Score Updates” does the same but also sounds an alert when the scores are updated for the chosen team.

To exit the Game Alert menu, press the **MENU** button.

Settings

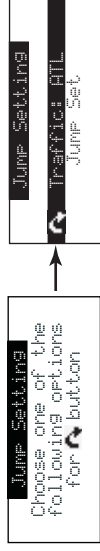
The following sections explain each of settings menu options in the order in which they are displayed.



To select a menu option, use the channel up and down buttons to highlight the option you wish to adjust, and press the select button.

Jump Settings

The Jump setting controls the actions of the Jump button. The Jump setting menu may also be accessed by pressing and holding the Jump button.



Two options are available for the Jump setting, "Traffic" and "Jump Set". The currently selected option is indicated by the Jump icon.

The Traffic option sets the function of the Jump button to provide a traffic report for a selected city, while the JumpSet option assigns any channel to the Jump button.

Traffic

To set the Jump button to provide a traffic report when pressed, do the following:

1. Use the channel up and down buttons to highlight the "Traffic" option, and press the select button.
2. A screen showing a list of cities will be displayed.



- Use the channel up and down buttons to highlight the city for which you wish to have a traffic report and press the select button.
3. If the city list has not yet been updated, a message will be displayed indicating that the city list is updating. Wait 10 minutes and then try again.



To exit the Jump Settings menu, press the **MENU** button.

JumpSet

To set the Jump button to a specific channel (other than a traffic channel) when pressed, do the following:

1. Use the channel up and down buttons to highlight the "JumpSet" option, and press the select button.
2. The following screen will be displayed:



Use the channel up and down buttons to tune to the channel you want assigned to the Jump button. When the channel is tuned, press and hold the Jump button for 2 seconds until the following screen is displayed.



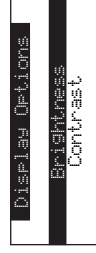
The channel selected is now assigned to the Jump button.

To exit the Jump settings menu, press the **MENU** button.

At any time while listening to a channel (other than a traffic channel), the channel may be assigned to the Jump button by simply pressing and holding the Jump button for 2 seconds.

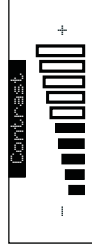
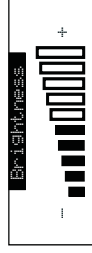
Display Options

The Receiver's display screen can be adjusted for brightness and contrast using the Display Options.



Use the channel up and down buttons to highlight the "Brightness" or "Contrast" option, and press the select button.

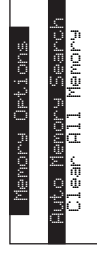
Brightness adjusts the overall intensity of the LCD display to help with viewing in different lighting conditions. Contrast adjusts the relationship between the background and the text on the LCD display. Use the channel up and down buttons, to adjust the brightness/contrast. The bar graph will move to indicate the change.



To exit the Brightness/Contrast screen, press the **MENU** button.

Memory Options

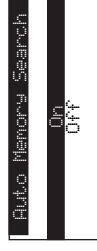
The Memory Options feature allows you to set whether the automatic S-Seek feature is On or Off, and also provides the a way to clear (erase) all the stored S-Seek alerts from memory.



Automatic Memory Search

To turn the automatic memory search On or Off, do the following:

1. Use the channel up and down buttons to highlight "Auto Memory Search", and press the select button.
2. Use the channel up and down buttons to highlight either "On" or "Off", and press the select button.



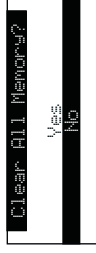
To exit the Memory Options menu, press the **MENU** button.

Clear All Memory

To clear all the S-Seek alerts stored in memory, do the following:

1. Use the channel up and down buttons to highlight "Clear All Memory", and press the select button.
2. At the confirmation screen, use the channel up

and down buttons to highlight “Yes”, and press the select button.



The S-Seek memory is now erased.

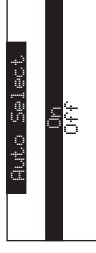
To exit the Memory Options menu, press the **MENU** button.

Auto Select

Auto Select chooses whether the Receiver immediately tunes to a channel when a channel is highlighted, or whether you must first press the select button in order to tune to a highlighted channel in any of the list modes. Turn Auto Select On if you would like the Receiver to automatically tune to the highlighted channel without you having to press the select button. This will allow you to quickly listen to all the available programming in any displayed channel list.

The default setting for Auto Select is Off, meaning that you must press the select button to tune to a channel in a listing.

To change Auto Select setting to On or Off, use the channel up or down buttons to highlight “On” or “Off”, and press the select button.

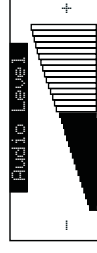


To exit the Auto Select menu, press the **MENU** button.

Audio Level

The Audio Level setting adjusts the level of the audio output of the Receiver.

To adjust the audio level, use the channel up and down buttons to change the audio level. The bar graph will move to indicate the change.



To exit the Audio Level menu, press the **MENU** button.

Confirmation Tone

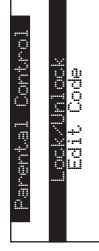
The Receiver will sound an audio tone alert when it is powered On or Off, as well as when an S-Seek alert is activated and other alerts. The default setting is On. To change the Confirmation Tone setting to On or Off, use the channel up or down buttons to highlight "On" or "Off", and press the select button.



To exit the Confirmation Tone menu, press the **MENU** button.

Parental Control

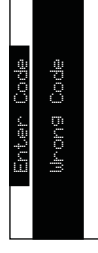
The Receiver has the ability to lock out with password protection any channels you do not want others to access without your permission. A locked channel will not appear in the channel list.



When access to a locked channel is attempted using the direct channel entry method, the "Enter Code" screen is displayed and the channel cannot be accessed until the correct code is entered.



If the wrong code is entered, a message will be displayed indicating that the wrong code has been entered.



Lock/Unlock

To lock or unlock a channel, do the following:

1. Use the channel up and down buttons to highlight "Lock/Unlock, and press the select button.
2. If this is the first time that Parental Control is being used, you will be prompted to create and

enter a four digit numerical code. This code can be any four digit number from **0000** to **9999**.

Enter Code

.....

If you should exit this prompt without entering a code, you will be prompted to set a code next time you enter the Lock/Unlock option.

3. If a code has been previously set, a “Enter Code” prompt will be displayed. Enter your four digit code and press the select button to continue.

Enter Code

.....

4. When the correct code has been entered, a listing of channels will be displayed. Use the channel up and down buttons to navigate to the channel you wish to lock or unlock, and press the select button. A previously locked channel

will have the word “Lock” displayed to the right of the channel name.

Lock/Unlock

001 Channel Name

002 Channel Name

003 Channel Name Lock

004 Channel Name

5. To lock or unlock a channels, use the channel up and down buttons to highlight a channel, and press the select button.

If you are locking a channel, the word “Lock” will be displayed to the right of the channel name. If you are unlocking a channel, the word “Lock” will be removed from the right of the channel name.

To exit the Parental Control menu, press the **MENU** button.

Edit Code

This setting allows you to change a previously selected Parental Control code.

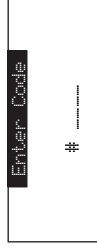
The first time the Edit Code setting is accessed you will be prompted to enter a four digit code. This code can be any four digit number from **0000** to **9999**.



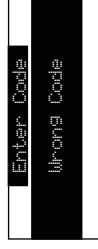
If you should exit this prompt without entering a code, you will be prompted to set a code the next time you enter the Edit Code option.

To change the Parental Control code, do the following:

1. Use the channel up and down buttons to highlight "Edit Code", and press the select button.
2. At the prompt, enter the four digit Parental Control code.



3. If you did not enter the correct code, a message will be displayed alerting you that the wrong code was entered, and you will be prompted again to enter the code.



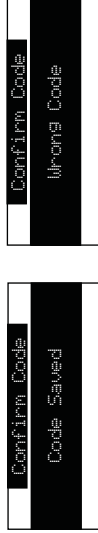
4. If the correct code was entered, the "New Code" prompt will appear. Enter the new Parental Control code.



5. You will then be prompted to confirm the new code by entering it again.



6. If you confirmed the correct code, the lock code is now changed and a confirmation screen is displayed. If you entered the wrong code at the confirmation prompt, a screen will be displayed to alert you that you have entered the wrong code, and you will have to repeat the process again.



To exit the Parental Control menu, press the **MENU** button.

If you have forgotten your Parental Control code, call SIRIUS Customer Service for help.

Time Based Features

These settings allow for adjustment of the following features of the Receiver:

- Clock** - Sets the clock format, time zone, and daylight savings time function.
- Alarm** - Sets an alarm for a specific time.
- Program Alert** - Sets the Receiver to tune to a specific channel at a specified time.
- Auto Shutdown** - Sets the Receiver to turn off at a specified time.
- Sleep Mode** - Sets the Receiver to turn off after a designated period of time.



To select a menu option, use the channel up and down buttons to highlight the option you wish to adjust, and press the select button.

Clock

The time data for the Receiver's clock is provided via the SIRIUS signal, and will update based on the data received from the signal.

You can configure the clock format for 12-hour or 24-hour display format, set the time zone for the clock for your location, and turn On or Off the automatic adjustment for Daylight Savings Time (DST).



Format

To change the clock display format of the Receiver to 12 hour or 24 hour format, do the following:

1. Use the channel up and down buttons to highlight "Clock" and press the select button.
2. Use the channel up and down buttons to highlight either "12 hour" or "24 Hour", and press the select button.

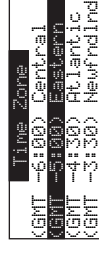


To exit the Clock menu, press the **MENU** button.

Time Zone

To change the time zone of the Receiver, do the following:

1. Use the channel up and down buttons to highlight "Time Zone", and press the select button.
2. Use the channel up and down buttons to highlight the proper time zone for your location, and press the select button.



To exit the Time Zone menu, press the **MENU** button.

Daylight Savings Time

To turn the Daylight Savings Time feature On or Off, do the following:

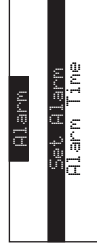
1. Use the channel up and down buttons to highlight "Daylight Savings Time", and press the select button.
2. Use the channel up and down buttons to highlight "DST Observed" or "DST Not Observed", and press the select button.



To exit the Daylight Savings Time menu, press the **MENU** button.

Alarm

This feature allows you to set an alarm to sound at a specific time each day, and to turn the alarm feature On or Off.



Set Alarm

To turn the alarm On or Off, do the following:

1. Use the channel up and down buttons to highlight "Set Alarm", and press the select button.
2. Use the channel up and down buttons to highlight "Alarm On" or "Alarm Off", and press the select button.



To exit the Set Alarm menu, press the **MENU** button.

Alarm Time

To set the time of the alarm, do the following:

1. Use the channel up and down buttons to highlight "Alarm Time", and press the select button.
2. Use the channel up and down buttons to change the minutes, and the category previous and next buttons to change the hours, to select the desired alarm time.



3. When you have selected the desired alarm time, press the select button to set the alarm time and exit.

To exit the Alarm Time menu, press the **MENU** button.

Program Alert

The Program Alert feature allows you to program the Receiver to automatically tune to a specific channel at a specific time. The Receiver must be powered

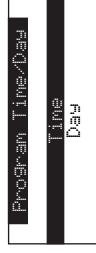
on in order for this feature to function.



Program Time/Day

To program the time and day when the receiver will tune to the specified channel, do the following:

1. Use the channel up and down buttons to highlight "Program Time/Day", and press the select button.
2. At the "Program Time/Day" screen, use the channel up and down buttons to highlight "Time", and press the select button.



3. Use the channel up and down buttons to change the minutes, and the category previous and next buttons to change the hours, to select the time

you wish to tune to the specified channel.



4. When you have selected the desired time, press the select button to set the time and exit.
5. At the "Program Time/Day" screen, use the channel up and down buttons to highlight "Day", and press the select button.
6. Using the channel up and down buttons, select the day of the week you wish to tune to the selected channel, i.e., Monday, Tuesday, etc., and press the select button.



To exit the Program Time/Day menu, press the **MENU** button.

Channel Number

To set the channel to which the receiver will tune when the Program Alert feature is On, do the following:

1. Use the channel up and down buttons to highlight "Channel Number", and press the select button.
2. When the default display screen is displayed, use the channel up and down buttons to navigate to the channel which you wish to select for the Program Alert feature. Use the category previous and next buttons to navigate between categories. When the channel is displayed, press the select button.



To exit the Channel Number menu, press the **MENU** button.

Program Alert On/Off

To turn the Program Alert feature is On or Off, do the

following:

1. Use the channel up and down buttons to highlight "Program Alert On/Off", and press the select button.
2. Use the channel up and down buttons to highlight "Program Alert On" or "Program Alert Off", and press the select button.



To exit the Program Alert On/Off menu, press the **MENU** button.

Auto Shutdown

You can set the Receiver to automatically power off after a 1 hour period of inactivity, that is, no buttons have been pressed for 1 hour.

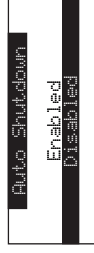
When the Auto Shutdown feature is enabled, after 59 minutes of inactivity, a beep tone will sound and a display prompt will appear on the screen, "Cancel Auto Shutdown". At this point the auto shutdown can be reset to 1 hour of inactivity by pressing the select

button. If the Auto Shutdown is not reset, the Receiver will automatically power off.



To enable or disable the Auto Shutdown feature, do the following:

1. Use the channel up and down buttons to highlight "Auto Shutdown", and press the select button.
2. Use the channel up and down buttons to highlight "Enabled" or "Disabled", and press the select button.



To exit the Auto Shutdown menu, press the **MENU** button.

Sleep Mode

The Receiver can be set to turn off automatically

after a selected period of time, 15, 30, 45, or 60 minutes.

To activate or deactivate the Sleep Mode feature, do the following:

1. Use the channel up and down buttons to highlight "Sleep Mode", and press the select button.
2. Use the channel up and down buttons to select the desired time, 15, 30, 45, or 60 minutes to activate the Sleep Mode feature, or choose "Off" to cancel the sleep feature, and press the select button.



To exit the Sleep Mode menu, press the **MENU** button.

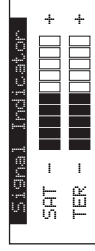
Signal Indicator

The Signal Indicator display screen provides a visual display of the strength of the SIRIUS signal from the satellite antenna and also from terrestrial (ground)

transmitters.

To display the Signal Indicator screen, do the following:

1. Use channel up and down buttons to highlight "Signal Indicator", and press the select button.



2. Two 10 segment horizontal bar graphs will be displayed with a "-" sign to the left and a "+" sign to the right. SAT indicates the satellite signal strength while TER indicates the terrestrial signal strength, if a terrestrial signal is available. To exit the Signal Indicator menu, press the **MENU** button.

Factory Default

The Factory Default option will restore most every feature of the Receiver to the original factory settings. The following is a list of all features affected by the Factory Default option:

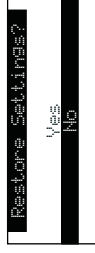
- All Presets are cleared
- All Game Alerts are cleared
- Receiver set to Normal Tuning Mode
- Display brightness set to 50%
- Display Contrast set to 50%
- FM Transmitter set to On
- FM Frequency set to 88.1 MHz
- All S-Seek memory cleared
- Clock set to 12-Hour Format
- Time Zone set to Eastern Standard Time
- Daylight Savings Time set to Observed
- Auto Shutdown set to Off
- Sleep Mode set to Off
- Auto Select set to Off
- Program Alert cleared

Note that the Parental Control feature is not affected by the Factory Default option. If a code has been set for the Parental Control feature, the code will not be reset by the Factory Default feature, preventing someone from circumventing the Parental Control feature. Channels which have been locked will remain locked.

To activate the Factory Default feature, and restore

the features of the Receiver to the factory defaults, do the following:

1. Use the channel up and down buttons to highlight "Factory Default", and press the select button.
2. Use the channel up and down buttons to select "Yes" to restore all settings to the settings from the factory, or select "No" to leave them as-is and return to the Menu Options menu.



3. If "Yes" is chosen, a confirmation is displayed. Use the channel up and down buttons to select "Yes" to restore all settings to the settings from the factory, or select "No" to leave them as-is and return to the Menu Options menu.



4. If Yes is chosen, the Receiver will revert to the

original factory settings.



5. When the Factory Default is complete, the Receiver will place you in Channel 184 the SIRIUS preview channel and display, "Call 1-888-539-SIRIUS to Subscribe". The Receiver is still subscribed to the SIRIUS service.



Troubleshooting

This section lists several common problems and suggested solutions. If, after trying the suggested solutions listed here, you are still unable to resolve the problem you're having with your Receiver, contact your installer, dealer, or retailer for more help.

Problem	Cause and Suggested Solution
Receiver does not power on	Blown fuse, or the power cable is not properly connected. Check for a bad fuse and check power cable connection.
Receiver displays: "ANTENNA NOT DETECTED"	The satellite antenna is not connected to the Receiver. Check the satellite antenna connection to the Receiver.
Audio static or loss of clarity	FM frequency contains static. Locate a quiet FM frequency on your vehicle radio and set the Receiver's FM transmitter frequency to match. The vehicle antenna is not connected to radio. Check vehicle antenna cable to be sure it is connected.
Receiver displays: "ACQUIRING SIGNAL"	Check for obstacles over or around satellite antenna. Change vehicle location to eliminate nearby obstacles (bridges, overpasses, etc.)
No sound	The audio cables are not connected, or the FM radio is set to the wrong frequency. Check the audio cables at the Receiver and the vehicle radio. Tune the vehicle FM radio to the same FM frequency the Receiver is tuned.

Specifications

Satellite Frequencies	2322.293/2330.207 MHz
Terrestrial Frequencies	2326.250MHz
Power Requirements	9-16 Volts, Negative Ground, DC
Audio Output	2V (normal) 2.8V (max.) (Peak-to-Peak)
Total Harmonic Distortion (THD)	<0.2%
Signal-to-noise (S/N)	Greater than 73dB
Fuse Requirement	2A ATC
Receiver Dimensions (Width x Length x Height)	128mm x 48mm x 19mm (5" x 1.9" x .75")
Receiver Weight	112g (4 oz.)
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
FM Out Interface	2.5mm Jack
Remote Control Dimensions (Width x Length x Height)	41mm x 104mm x 15mm (1.61" x 4.09" x .59")
Remote Control Battery Requirements	CR2025

Note: Features and Specifications subject to change without notice.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.



12 MONTH LIMITED 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, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. ANY ACTION FOR BREACH OF ANY WARRANTY HEREUNDER 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 return product to an authorized retailer or call Customer Service at 1-888-869-5590; proof of purchase and description of defect are required. Products to be returned to an approved warranty station must be shipped freight prepaid.

Please record the SIRIUS ID (SID) in the space provided below:

SIRIUS ID:



SIRIUS Customer Service: 1-888-539-7474
SIRIUS Product Support: 1-800-869-5590
customer@sirius-radio.com



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ST2 (080905a)