



SR^oH2000

User Guide

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Introduction

Introduction

Before you do another thing, please read this owner's manual. Read this owner's manual in its entirety.

Understanding the features and basic functions of your new SIRIUS XM Radio SR-H2000 Tuner first will help you set up and operate it more efficiently.

Congratulations on the purchasing your new SIRIUS XM Radio Inc. SR-H2000 Tuner.

The SR-H2000 Tuner lets you enjoy SIRIUS XM Radio's digital entertainment in the comfort of your own home. Use this manual to familiarize yourself with all of the radio's features and capabilities. For the latest information about this and other SIRIUS products and accessories, visit www.sirius.com.

Safety and Care Information



IMPORTANT! Always read and understand all the instructions to avoid injury to yourself and/or damage to your device. SIRIUS XM Radio Inc. claims no responsibility for damage from data loss due to breakdown, repair, or other causes.

- 1 Read these instructions.
- 2 Keep these instructions.
- 3 Heed all warnings.
- 4 Follow all instructions.
- 5 Do not use this apparatus near water.
- 6 Clean only with a dry cloth.
- 7 Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.
- 8 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9 Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

Introduction

- 10** Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11** Only use the attachments/ accessories specified by the manufacturer.
- 12** Use only with a cart, stand tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13** Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14** Refer all servicing to qualified service personnel. Servicing is required when the



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



When found on the apparatus, the lightning flash with arrowhead symbol indicates hazards arising from dangerous voltages.



When found on the apparatus, the exclamation point within an equilateral triangle symbol indicates the user should read all safety statements found in the user's manual.



When found on the apparatus, the double box symbol indicates double insulation.

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

- 15** The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.



WARNING! If the LCD screen on the Tuner is damaged, do not to touch the liquid crystal fluid. If any of the following situations happen, take the action indicated:

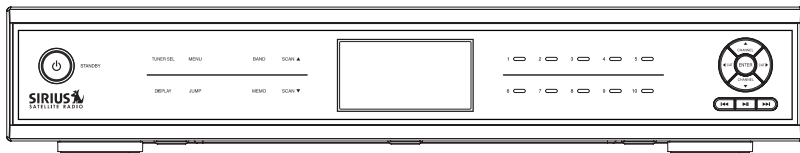
- If the liquid crystal fluid comes in contact with your skin, wipe the skin area with a cloth and then wash the skin thoroughly with soap and running water.
- If the liquid crystal fluid comes into contact with your eyes, flush the eyes with clean water for at least 15 minutes and seek medical care.
- If the liquid crystal fluid is ingested, flush your mouth thoroughly with water. Drink large quantities of water, and induce vomiting, and seek medical care.

Disconnect Device Instructions

Disconnect Device From Mains: The AC power cord provided with the device is used to disconnect the power from device. Access to the power cord should remain easily accessible.

Introduction

What's in the Box?



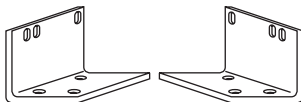
SR-H2000 Tuner



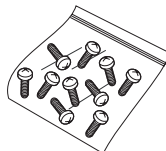
Rack Filler Plate



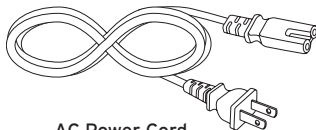
Remote Control
& Batteries



Rack Mount Ears



Screws



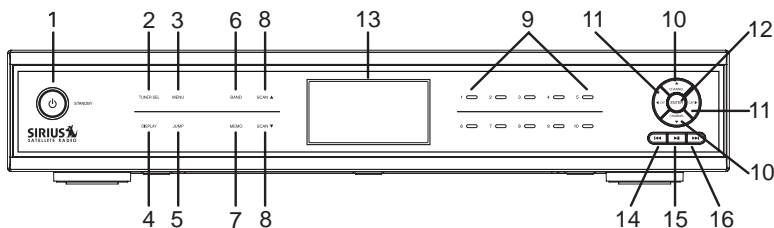
AC Power Cord



RCA Audio Cable

Controls & Features

Controls & Features: Tuner



- 1 POWER Button.** Turns the Tuner On and Off/Standby.
- 2 TUNER SEL (SELECT) Button.** Selects the SR-H2000 “embedded” tuner or any external tuner connected, provided “the external tuner” is connected and active. (See “Adding an Additional SIRIUS Tuner Using the SSP Connection” on page 26.)
- 3 MENU Button.** Used to access menu options to change the Tuner setup and features.
- 4 DISPLAY Button.** Changes text size of artist names and song titles on the display screen. In list mode, it toggles between POWER Button. Turns the Tuner On and Off/Standby.

Introduction

- 5 JUMP Button.** Jumps to a present favorite channel. Pressing the button again returns back to the original channel.
- 6 BAND Button.** Pressing and releasing this button switches between the preset banks, A, B, and C, which hold 10 presets each for a total of 30. Pressing and holding the button enables the Preset Tune Mode, which allows for viewing and browsing of stored presets.
- 7 MEMO (MEMORY) Button (S-Seek Function).** Pressing and releasing this button saves artist names and song titles. You can store up to 30 artist/song title combinations, including favorite teams and traffic channels. Pressing and holding the MEMO button will enter the recall mode, displaying the stored artist/song titles.
- 8 SCAN ▲ / SCAN ▼ Buttons.** Pressing this button enables the Tuner to play each Channel/Preset in ascending order for 10 seconds. Scan terminates when the SCAN, CATEGORY, CHANNEL or ENTER button is pressed.
- 9 NUMBER BUTTONS (1-10).** Sets and selects preset channels.
- 10 CHANNEL Buttons (▲▼).** Navigates through channels and display screens, and highlights items on the display. Pressing the button increases or moves up the menus. Pressing the button decreases or moves down in menus.
- 11 CAT (CATEGORY) Buttons (◀▶).** Navigates through the Category List Screen which displays SIRIUS Channel Categories.
- 12 ENTER Button.** Press to select a Category or Channel or Menu setting.
- 13 Display Screen.** This area displays tuning and information about the Tuner.

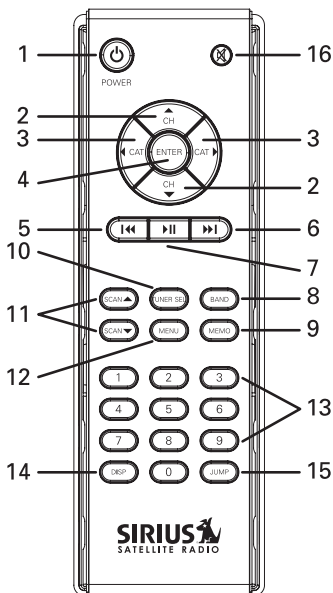
- 14 REWIND (⏮) Button.** Pressing this button rewinds through content saved to Instant Replay. Pressing and releasing this button rewinds to the beginning of the song or program. Pressing and holding rewinds by timed through the saved content.
- 15 PLAY/PAUSE (⏮) Button.** Pauses and replays live or time-shifted content from the currently tuned channel. Pressing and holding this button displays a list of songs in the saved content.
- 16 FAST FORWARD (⏭) Button.** Used to fast forward through Instant Replay saved content. Pressing and releasing this button fast-forwards to the beginning of the next song or program. Pressing and holding this button fast-forwards through time the saved content.

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Controls and Features: Remote Control

The wireless remote control supplied with the Tuner is capable of operating most of the features from a remote location. Each button on the remote control functions in the same way as the button on the Tuner. For a full description of a keypad button or function, refer to the sections in this user manual where they are described. For optimal operation of the remote control, always aim it toward the Remote Sensor on the front panel of the Tuner.

- 1 POWER Button.** Turns the Tuner On and Off.
- 2 CHANNEL (▲▼) Buttons.** Navigates through channels and display screens.
- 3 CAT (CATEGORY) (◀▶) Buttons.** Navigates through categories and display screens.
- 4 ENTER Button.** Selects a Category or Channel or Menu setting.
- 5 REWIND (◀◀) Button.** Pressing this button rewinds through content saved to Instant Replay. Pressing and releasing this button rewinds to the beginning of the song or



program. Pressing and holding rewinds by timed through the saved content.

- 6 FAST FORWARD (⏮) Button.** Used to fast forward through Instant Replay saved content. Pressing and releasing this button fast-forwards to the beginning of the next song or program. Pressing and holding this button fast-forwards through time the saved content.
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- 8 BAND Button.** Pressing and releasing this button switches between the preset banks, A, B, and C, which hold 10 presets each for a total of 30. Pressing and holding the button enables the Preset Tune Mode, which allows for viewing and browsing of stored presets.
- 9 MEMO (MEMORY) Button (S-Seek Function).** Pressing and releasing this button saves artist names and song titles. You can store up to 30 artist/song title combinations, including favorite teams and traffic channels. Pressing and holding the MEMO button will enter the recall mode, displaying the stored artist/song titles.
- 10 TUNER SEL (SELECT) Button.** Selects the SR-H2000 “embedded” tuner or any external tuner connected, provided “the external tuner” is connected and active. (See “Adding an Additional SIRIUS Tuner Using the SSP Connection” on page 26.)

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- 11 SCAN ▲ / SCAN ▼ Buttons.** Pressing this button enables the Tuner to play each Channel/Preset in ascending order for 10 seconds. Scan terminates when the SCAN, CATEGORY or CHANNEL button is pressed.
- 12 MENU Button.** Used to access menu options to change the Tuner setup and features.
- 13 NUMBER Buttons (0-9).** Sets and selects preset channels.
- 14 DISPLAY Button.** Allows the user to choose one of three ways of presenting the Artist Name and Song Title information on the display screen.
- 15 JUMP Button.** Jumps to a preset favorite channel. Pressing the button again returns back to the original channel.
- 16 MUTE Button.** Mutes the audio of the Tuner.

Installing Batteries in the Remote

- 1** Remove the battery cover from the rear of the remote.
- 2** Install the two AAA batteries as indicated.
- 3** Replace the battery cover.

Installation and Setup

Installation and Setup

The SIRIUS Home Satellite Radio Tuner must be connected to a SIRIUS Outdoor Antenna (sold separately) to receive the SIRIUS signal. The Tuner recognizes and decodes the incoming SIRIUS program information, and provides an audio signal to your stereo receiving equipment or other audio output equipment.

Installing Your SIRIUS Tuner

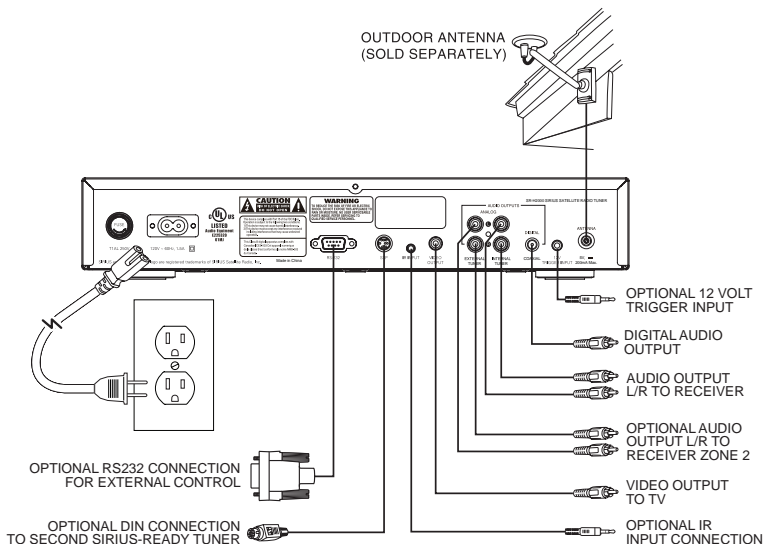
You can begin to enjoy SIRIUS Satellite Radio as soon as the Tuner installation is complete and you have subscribed to the SIRIUS XM Radio Service. To set up your Tuner, follow these installation instructions.

Installation/Wiring Precautions

- Make sure the power cable is not connected to an AC wall outlet until all interconnections have been made and verified. The power cable should be connected last.
- Do not install the Tuner in the locations exposed to direct sunlight or in areas subject to extreme temperatures.
- Incorrect installation may cause damage to the system.
- During antenna installation, refer to “Installing the Antenna” on page 20.

Cabling Interconnections

Set up your system using the diagram and by following the installation instructions, or enlist the help of a professional installer.



Installation and Setup

Installing the Antenna

You will need to purchase a SIRIUS Outdoor Antenna for your Tuner. Carefully follow the installation instructions included with the outdoor antenna for best results.

- 1** When the outdoor antenna is installed, temporarily plug the antenna cable into the ANTENNA connector on the back of the Tuner for testing, to determine if you have correctly installed and aimed the antenna.
- 2** Connect the audio output of the Tuner (either audio output L/R or digital audio) to your sound system. Turn your sound system on.
- 3** Plug the Tuner into a 110 VAC wall receptacle. The front panel STANDBY LED will light red.
- 4** Turn the Tuner on and listen for audio. If no audio is heard, make adjustments to the antenna until audio output is heard. This is the desired antenna aiming position.
- 5** After determining the optimum antenna aiming position, turn the Tuner off, disconnect the power adapter from the wall outlet receptacle, and disconnect the antenna cable.
- 6** Plan the routing of the outdoor antenna cable to the Tuner. Be sure you avoid any obstructions that could crimp, kink, or twist the cable. Use protective grommets wherever rough openings are encountered. Note: Do not cut the antenna cable.

- 7** Route the cable from the antenna location to the interior of the home, working the cable through the basement, under a window sill, etc., and make adjustments and take up slack whenever necessary.
- 8** Plug the antenna cable into the ANTENNA connector on the back of the Tuner.
- 9** Plug the Tuner into a 110VAC wall receptacle. The front panel STANDBY LED will light red.
- 10** You are now ready to activate and enjoy SIRIUS programming within your home.

Testing Antenna Signal Strength

The stronger the signal strength, the less likely it is that you will experience an interruption of the audio. In the menu options of the Tuner, there is an signal indicator display which shows two bar graphs indicating signal strength. (Refer to “Signal Indicator” on page 85.) This can be a useful tool for positioning the antenna in an optimal location for maximum signal reception.

Activating Your SIRIUS Subscription

Before you can listen to the SIRIUS service, you must subscribe to the SIRIUS XM Radio service.

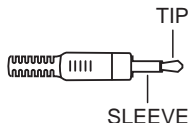
- 1** Make sure that the Tuner is properly connected and that its antenna is oriented to receive the SIRIUS satellite signal.

Installation and Setup

- 2** Press the POWER button to turn the Tuner on. After displaying the SIRIUS logo, the Tuner will update all the SIRIUS channels. The display will read "UPDATING CHANNELS" on the top line and "X% Completed" (0%-20%40%-60%-80%-100%) on the bottom line until the update completes. Note: Don't push any buttons or perform any operations until updating has been completed.
- 3** Once updated and the SIRIUS channels are received, the display will display, "To Activate Call / 1-888-539-SIRIUS" and will place you in The Preview Channel. Channel 184 is SIRIUS' preview channel. You will not be able to tune to any other channels until you activate your SIRIUS subscription.
- 4** Press the MENU button to enter the "Menu Options" mode. The "SIRIUS ID" menu option will now be highlighted.
- 5** Push the Select button to select "SIRIUS ID." This will display your Tuner's unique 12-digit SIRIUS ID Number (SID). This SID number should also be available on the SR-H2000 packaging. Write the number down and have your credit card handy. A space has been provided at the end of this manual to write your SID.
- 6** Contact SIRIUS on the Internet at: <https://activate.siriusradio.com/> Follow the prompts to activate your subscription, or you can also call SIRIUS toll-free at: 1-888-539-SIRIUS. You can now enjoy SIRIUS Satellite Radio's digital entertainment, and can tune to other channels!

Infrared (IR) Connection Information

The IR input on the rear of the Tuner is a 12 volt mono 1/8" mini plug. The tip is signal and the sleeve is ground.



The following table lists the IR codes that are accepted by the SR-H2000 Tuner.

SR-H2000 NEC Codes for Infrared Remote Controls	
NEC Custom Code: 0x01FE	
Zone 1 Direct: 0x42BD	
Zone 2 Direct: 0x1CE3	
Button	NEC Command Code
0	0x1D
1	0x10
2	0x11
3	0x12
4	0x14

Installation and Setup

SR-H2000 NEC Codes for Infrared Remote Controls	
5	0x15
6	0x16
7	0x18
8	0x19
9	0x1A
Select	0x03
Power (Toggle)	0X00
Power On	0x20
Power Off	0x21
Menu	0x08
Display	0x01
Memory	0x0D
Preset Band	0x0C
Channel Up	0x02
Channel Down	0x04
Category Up	0x05
Category Down	0x06
Mute	0x1C
Jump	0x1E
Play/Pause	0x0B
Fast Forward	0x07
Rewind	0x0F
Direct Tune	0x09
Scan Up	0x22
Scan Down	0x23
Tuner Select	0x24

Visit the SR-H2000 support page at www.sirius.com for additional downloadable remote control files.

12 Volt Trigger Information

The 12V Trigger Input allows your 12V-trigger-capable preamp or receiver to force the SR-H2000 Tuner to go from STANDBY mode (power button illuminated, front panel display off) into ON mode (power button not illuminated, front panel display on) or vice versa without the need to press the POWER button.

To enable this feature, connect a 1/8" mono plug cable (tip + / sleeve -) from your preamp or receiver's 12V Trigger Output to your Tuner's 12V Trigger Input jack on the rear panel. So long as the Tuner stays plugged into an active AC outlet, your Tuner is ready to respond to power mode changes sent from your preamp or receiver.

To disable the 12V Trigger Input feature, simply do not connect anything to the 12V Trigger Input jack on the rear panel of the Tuner.

Installation and Setup

RS-232 Communications Port Information

The RS-232 connection allows external devices to control the SR-H2000 Tuner. This only works with compatible control systems that have driver software designed to work with the SIRIUS protocol. Please visit the SIRIUS website for an up-to-date list of compatible systems.

You must enable RS232 control via the menu options. Refer to “RS232 Mode” on page 88 for instructions. Once the Tuner is in RS232 control mode, you will see “232” in the lower-right corner of the display. Since the Tuner is now being controlled via the RS-232 connection, only a limited number of front panel and remote control buttons will work when in the RS232 mode. To exit the RS232 mode, and regain full control via the front panel and remote control, press the MENU button.

Note that a null modem adapter may be required to connect the SR-H2000 Tuner to your control system. Please consult your system's user guide for more information.

Adding an Additional SIRIUS Tuner Using the SSP Connection

An additional SIRIUS Tuner can be added using the SSP connection to enable you to set up a zone system to receive different SIRIUS programming in different rooms of your home.

The SCH1 and the SCHDOC1 Tuners are optional accessories designed to work with the SR-H2000 Tuner. Refer to the SIRIUS website for more information about these tuners (www.sirius.com).

To connect an additional Tuner, follow the installation guide provided with the Tuner, or consult a professional installer.

Video Output Connection

The video output connection allows you to connect the SR-H2000 Tuner to a TV or display monitor which has an NTSC compatible video input. Information displayed on the front panel of the Tuner will also be displayed on the connected TV or monitor.

Operation

Display Screen Information

The display screen of the Tuner provides information about the operation of the Tuner, such as the currently tuned channel, song or show being played, artist name, time and other information. This screen is referred to as the Default display screen in this manual. Figure 1 identifies the information displayed when listening to a typical broadcast.

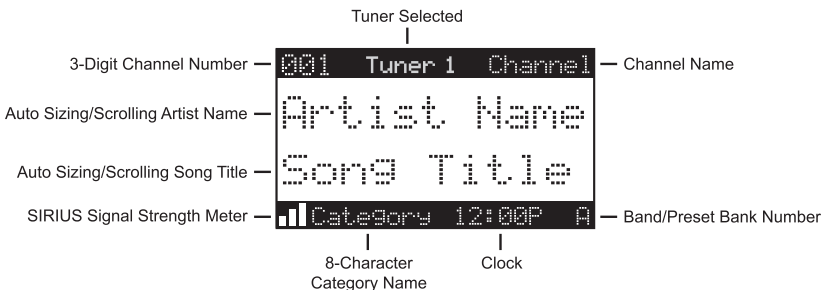


Figure 1

DISPLAY Button

Pressing and releasing the DISPLAY button from the Default display screen toggles between the artist name/song title and large character displayed text. The large character format will change the character size and cause the field to scroll from right to left. This feature is useful when viewing the display screen from a distance. Note that the displayed text will scroll only if the length of the artist or title cannot be viewed in its entirety.

- Pressing and holding the DISPLAY button will enter the channel list mode and display the channel names, and allow you to scroll through the channels and select another channel if desired. (Figure 4)
- If the DISPLAY button is pressed again while in the channel list mode, the display will list the song titles/show names for each channel. Pressing the DISPLAY button yet again will display the artist names for each channel. To exit the channel list mode, press and hold the DISPLAY button.



Figure 2

Operation

Search Modes (Category, Channel, Artist, Song Title)

The Tuner has four ways to search for and select music: by category, by channel, by artist, and by song title. Each search method is discussed in the sections which follow.

Searching Categories

If you want to browse different entertainment categories, push either Category (◀ ▶) button to activate the category search screen.

1. Use the Category buttons (◀ ▶) to scroll through the music and entertainment categories.
2. When the category you want is displayed (for example, Rock), use the Channel (▲ ▼) buttons to browse the available channels within the category. Pressing the DISPLAY button while in the category search mode will change between Channel Name, Artist Name, and Song Title to enable you to preview what is playing on other channels before making a selection.
3. When the channel you want is highlighted, press the ENTER button. The channel will be selected and the display will



Figure 3

revert to the Default screen for the selected channel.

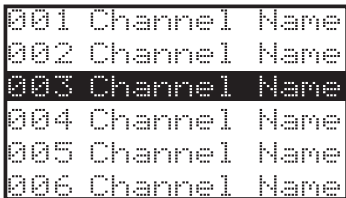
- 4 To exit the category mode without changing to a new channel, press and hold the DISPLAY button for one second.

Searching Channels (Channel List Mode)

It is possible to search for a different channel while listening to your current channel. Be sure that the display shows the Default display screen prior to the following steps:

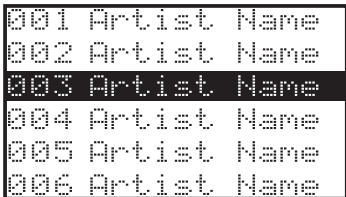
- 1 Press and hold the DISPLAY button for two seconds to activate the channel list mode. The channel list screen be displayed, showing all available channels regardless of category. Pressing the DISPLAY button, while in the channel list mode, will change between channel name, artist name, and song title. You can use this feature to search for a specific artist, song, or show that may be playing at the time.
- 2 Press the CHANNEL (▲ ▼) buttons to locate the channel you want.
- 3 Press the ENTER button to select the channel. To exit the channel list mode without changing to a new channel, press and hold the DISPLAY button for one second. Note: If you are in the channel list mode and viewing a sports category channel list (NFL© Zone, NHL© Zone, NBA© Zone), pressing the DISPLAY button will toggle between the team names and the current score of any live play-by-play game.

Operation



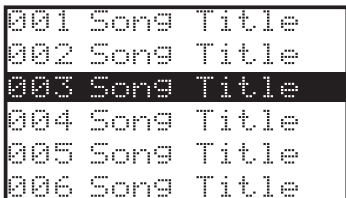
```
001 Channel Name
002 Channel Name
003 Channel Name
004 Channel Name
005 Channel Name
006 Channel Name
```

Press and hold the DISPLAY button to enter the channel list mode.



```
001 Artist Name
002 Artist Name
003 Artist Name
004 Artist Name
005 Artist Name
006 Artist Name
```

Press the DISPLAY button again to display the artist's names.



```
001 Song Title
002 Song Title
003 Song Title
004 Song Title
005 Song Title
006 Song Title
```

Press the DISPLAY button again to display the song titles.

Press the DISPLAY button again to return to the channel list.

Figure 4

Direct Tuning

Channels can be directly accessed by pressing CHANNEL (▲ ▼) buttons or by using the 1-10 keys to enter the desired channel number. First press ENTER button then follow by the desired channel number then press ENTER again. Once the desired number has been entered, the channel will change and the display will revert to the default screen for the selected channel. The Tuner will tune the channel immediately if three numbers are entered (for example, "0","0","7"), but if just one or two digits are entered, the Tuner will tune to the new channel after three seconds.



Figure 5

Operation

Channel Presets

Channel presets allow you to store up to 30 of your favorite channels as presets for quick access with the press of a button.

Setting Channel Presets

Presets are stored in three banks, A, B, and C, each containing 10 channel presets.

- 1** Press the BAND button to activate the preset bank you want. The selected bank is shown in the lower right corner of the Default display screen.
- 2** Select the channel you want to preset.
- 3** Press and hold for two seconds the numbered preset button (1-10) in which you want to store the channel.
- 4** The selected preset number will flash and then remain lit on the display to show that it has been memorized.

If the preset button you selected already has a channel stored in it, the preset will be replaced with the newly stored channel.

Recalling Channel Presets

The 10 presets in the active bank (A, B, or C) can be selected by pressing the 1-10 buttons.

- 1** Press the BAND button to activate the preset bank you want. The selected bank is shown in the lower right corner of the default display screen.
- 2** Press the desired preset button 1-10 to recall the preset. The channel will change and the display will revert to the default display screen for the new channel, with the preset shown in the lower right corner.

Operation

Jump

The Tuner has a special feature called JUMP. This button can be programmed to jump to a channel which is accessed frequently and temporarily such as traffic, weather, news, or sports. This button allows you to quickly tune to a specific channel and then tune back to the original channel by pressing the button again.



Figure 6

Refer to “Jump Settings” on page 70 for information on configuring the JUMP button.

If JUMP is set to Traffic, pressing the JUMP button will take you to your stored traffic channel. If your traffic report is not immediately available, the band indicator on the display will change to the jump icon (↻) to indicate a jump is active. Once your local traffic report is ready, the tuner will automatically tune to your stored traffic channel. You may have to wait a few minutes for your desired report.

Pressing the JUMP button while the tuner is searching will cancel the search. Pressing the JUMP button after the tuner has tuned to your traffic report will return to the channel to which you had been listening immediately prior to

pressing the JUMP button.

If the JUMP button is set to JumpSet, pressing the JUMP button will immediately tune to the programmed channel. Pressing the JUMP button again will return to the channel to which you had been listening immediately prior to pressing the JUMP button.

Note: The JUMP button setting remains the same regardless of which preset bank is currently selected.

Operation

Channel Presets (P. TUNE Mode)

Searching For A Channel Preset

It is possible to quickly search through all of your presets using the CHANNEL (▲ ▼) buttons:

- 1 Press and hold the BAND button to enter the preset tune mode (P.TUNE).
- 2 The bottom right portion of the display will change to highlight the current preset number.
- 3 Press the CHANNEL (▲ ▼) buttons to move through the presets. The selected preset channel will begin to play as soon as you stop pressing CHANNEL (▲ ▼) buttons.

Only stored presets will be displayed, regardless of what bank they are stored in. Presets will be grouped and displayed by preset bank and number (for example, A-1, A-2...B-1, B-2...C-1, C-2...) and rotate through all the presets and return back to the beginning preset.

To exit the preset tune mode and return to Default display screen, press and hold the BAND button.



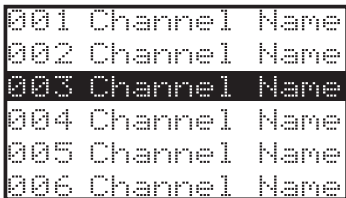
Figure 7

Preset Tune List Mode

While in the preset tune mode, you can view your list of presets showing channel name, artist name, or song title, just like in the channel list mode:

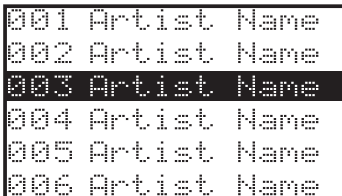
- 1** Press and hold the BAND button to enter the preset tune mode (P. TUNE).
- 2** Press the DISPLAY button for two seconds which will bring up the preset tune mode displaying up to 6 preset channel names.
- 3** Pressing the DISPLAY button again while in this mode will change between channel name, artist name, and song title list modes. The name field will scroll only if the length of the artist name or song title cannot be viewed in its entirety.
- 4** Use the CHANNEL (▲ ▼) buttons to select the desired preset.
- 5** Press and release the ENTER button to select the preset. The channel will change and the display will revert to the P.TUNE display screen. Refer to Figure 8 on the following page.

Operation



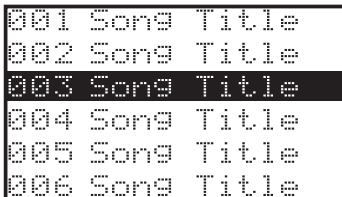
001	Channel Name
002	Channel Name
003	Channel Name
004	Channel Name
005	Channel Name
006	Channel Name

Press and hold the DISPLAY button to enter the channel list mode.



001	Artist Name
002	Artist Name
003	Artist Name
004	Artist Name
005	Artist Name
006	Artist Name

Press the DISPLAY button again to display the artist's names.



001	Song Title
002	Song Title
003	Song Title
004	Song Title
005	Song Title
006	Song Title

Press the DISPLAY button again to display the song titles.

Press the DISPLAY button again to return to the channel list.

Figure 8

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

This feature allows you to capture and store information about the programming (artist, song, sports team, or traffic city) on the currently tuned channel, up to a total of 30 items. The Tuner then continuously searches all the SIRIUS channels and alerts you when a match to a saved program is being played. When a sports team (or teams) are stored in memory, at the time the Tuner is initially powered on, you will be alerted when the sports teams are playing in a game being broadcast. Also, while listening to your SIRIUS Tuner, should one of the teams begin to play a game, you will be alerted.

Storing Artist Names, Song Titles & 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:

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 Tuner will display a menu to choose to store the artist name or the song title.



Figure 9

Operation

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

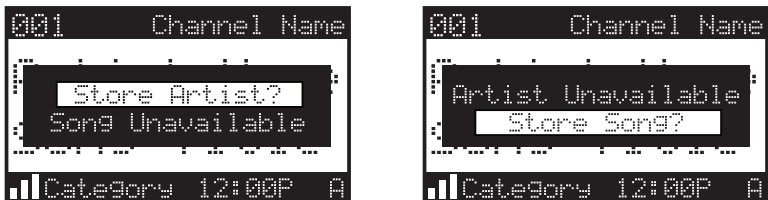


Figure 10

Press CHANNEL (▲ ▼) buttons to highlight Store Artist or Store Song (when available) and press the ENTER 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.

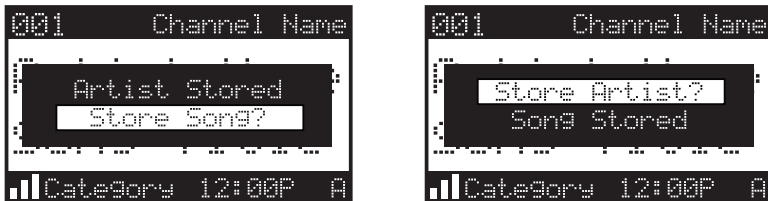


Figure 11

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 Tuner 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.

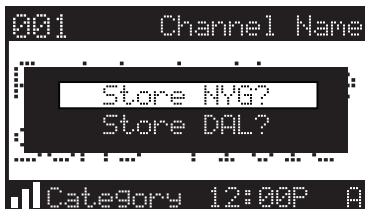


Figure 12

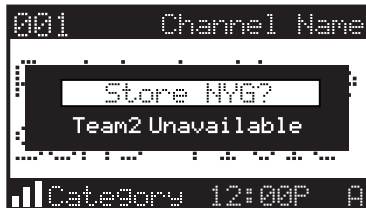


Figure 13

Press CHANNEL (▲ ▼) buttons to highlight the desired sports team (when available) and press the ENTER button to save the current selection to memory. The next screen will ask which kind of alert you wish to have.

Operation

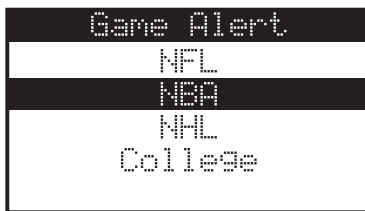


Figure 14

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.

Press CHANNEL (▲ ▼) buttons to highlight the desired alert and press the ENTER button to save the selection to memory.

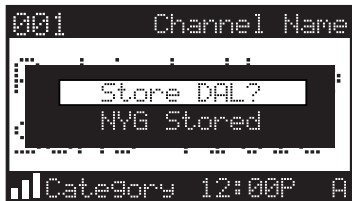


Figure 15

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

If the new alert was successfully stored in memory, an Artist/Song/Game Stored pop-up screen followed by an X Used/Y Empty screen will be displayed for one and two 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.

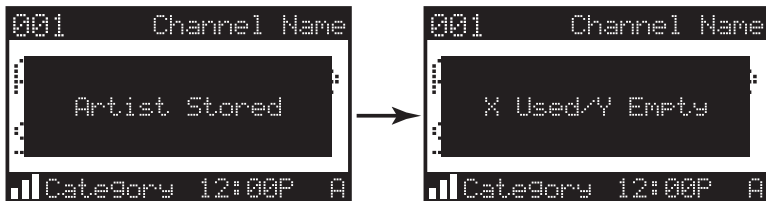


Figure 16

Operation

If the MEMO button is pressed, and all of the memory spaces are full, a Memory Full screen will be displayed for one second.

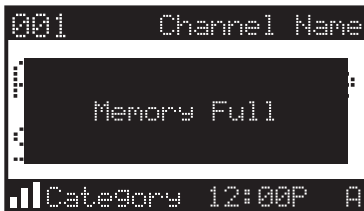


Figure 17

A Replace-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.



Figure 18

Press CHANNEL (▲ ▼) to select whether to replace an existing alert or cancel saving the alert to memory. If you choose to cancel saving the alert, the tuner 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.

Press CHANNEL (▲ ▼) buttons to highlight the alert that you would like to replace and press the ENTER button to store the new alert. 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 one and two seconds respectively (Figure 16). X is the total number of listings stored in memory, and Y is the total number of memory listings still available for storage. The Tuner will revert to the last active display mode.

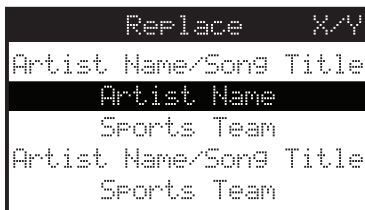


Figure 19

Viewing Program Information Stored In Memory

To View The Program Information Stored In Memory:

- 1 Press and hold the MEMO button for three seconds to enter the S-Seek mode. The program information stored in memory will be displayed in one-at-a-time page format.
- 2 Press CHANNEL (▲ ▼) buttons to scroll through the listings. This

Operation

function allows you to review previously stored program information. The information will be displayed as sports league or college/team name or artist name/song title.



Figure 20

Deleting A Song or Artist Stored In Memory

You can delete a song or artist that you have saved in memory. For songs saved, you can convert it them into an artist alert. To convert a song title, simply choose Seek Artist Only during the following procedure.

To Delete A Song Title or Artist Name Stored In Memory:

- 1 Press and hold the MEMO button for three seconds to enter the S-Seek mode. The program information stored in memory will be displayed in one-at-a-time page format.
- 2 Press the ENTER button. A pop-up screen with three or four selectable options, Song Seek On, Song Seek Off, Seek Artist Only (only for songs),

and Delete, will be displayed.

- 3 Press CHANNEL (▲ ▼) to highlight the Delete (or Seek Artist Only).
- 4 Press the ENTER button and a confirmation screen will appear.
- 5 To permanently delete the program from your list, highlight Yes using the CHANNEL (▲ ▼) buttons and press the ENTER button to confirm. (If you have chosen Seek Artist Only, the song is immediately converted to an artist alert.)
- 6 A Deleted popup screen followed by an X Used/Y Empty screen will be displayed for one and two 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 tuner will revert to the last active display mode.

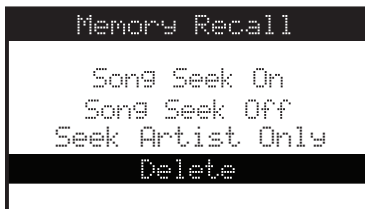


Figure 21



Figure 22

Operation

Activating The Song (S-Seek) Alert

When S-Seek alerts are enabled, whenever the Tuner is turned on, it automatically searches the channels to determine if a match exists with the program information stored in tuner's memory. If one or more matches are found, a pop-up screen momentarily appears for two seconds which displays S-Seek Alert and an audible beep tone will be heard indicating that a match was found. The display then changes to the S-Seek Alert screen which displays the current matches. You can select the artist/song, title, or sports game that you wish to listen to. (No stored match alert is provided for the currently tuned channel.) To ensure that no duplicate entries are stored in memory, the tuner will check the stored data to ensure the information about to be stored is not already in memory.

To Turn On S-Seek Alerts:

- 1 Press and hold the MEMO button for three seconds to enter the S-Seek mode.
- 2 Press and release the ENTER button. A pop-up screen displaying three selectable options, Song Seek On, Song Seek Off and Delete are displayed.
- 3 Press CHANNEL (▲ ▼) buttons to highlight the Seek On option.
- 4 Press the ENTER button to turn on S-Seek.

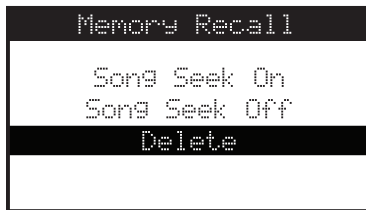


Figure 23

When the S-Seek option is on, when ever the tuner 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 S-Seek matches are found, a list appears (Figure 24). You can scroll through the list and select a program using the CHANNEL (▲ ▼) buttons. Your selection will be tuned and the display will revert to the last active display screen.

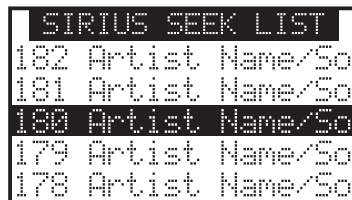


Figure 24

If a selection is not made within 10 seconds, the screen will revert to the last active display screen and tuning mode.

Operation

Game Alert

The Tuner tuner can automatically identify when your favorite team is playing. When a game is found, Game Alert is displayed and the My Game Zone screen is displayed listing the sports games which are currently being played. (Figure 25) Use the CHANNEL (▲ ▼) buttons to select and tune to the desired game.

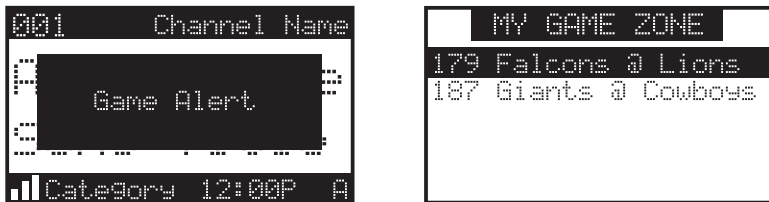


Figure 25

Refer to "Game Alert" on page 68 for information on setting your favorite sports team. You can also use the S-Seek feature to add game alerts for additional teams. Refer to "Storing Artist Names, Song Titles & Sports Teams To Memory" on page 43 for more information.

Instant Replay

The Tuner is capable of storing the audio of the channel to which you are listening for later playback, approximately up to 44 minutes depending upon the channel to which you are tuned. As soon as you tune to a channel, the tuner automatically begins storing the audio, enabling you to rewind at any time to replay the audio again. If you are unable to continue listening to a channel, but do not want to miss the broadcast, pressing the Play/Pause (▶||) button will cause the Tuner 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 tuner in the Instant Replay pause mode which mutes the audio.

Pressing and releasing the Play/Pause (▶||) button again causes the tuner to begin playing the stored audio from the point at which the tuner was paused. During playback, the tuner will continue to store the live channel audio.

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 DISPLAY button will toggle the display between the artist name list and the song/program title list.

Operation

Press the CHANNEL (▲▼) button to highlight a song to play, then press the ENTER button to select. Live may be chosen which will exit the Instant Replay mode, and the Tuner will resume playing the live broadcast.

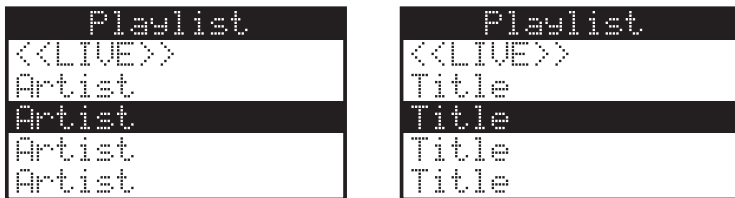


Figure 26

Fast Forward (►►) Button

This fast 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 tuner 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 Tuner will resume playing the live broadcast.

Pressing and holding the Fast-Forward button for one second advances the playback forward in 5 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 tuner will resume playing the live broadcast.

Rewind (⏮) Button

This 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 tuner 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 5 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.

Operation

Note: When the tuner is tuned to another channel, all audio stored in the Instant Replay memory is erased and the tuned channel begins to play. Tuning to another channel may automatically occur if another feature of the Tuner has been programmed to do so.

Progress Bar

While playing from Instant Replay memory, status information is shown at the bottom of the tuner's display screen.

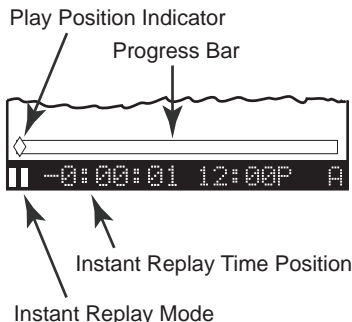


Figure 27

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

Pause (II) Mode: This indicates that the Tuner is paused and muted.

Play (▶) Mode: This indicates that you are in the playback mode, listening to stored audio.

Fast Forward (▶▶) Mode: This indicates that you are fast forwarding through the stored audio.

Rewind (◀◀) Mode: This indicates that you are re-winding, or moving backwards, through the stored audio.

The Progress Bar is a visual indicator of the status of the Instant Replay memory. (Figure 28) As the memory fills, the 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.

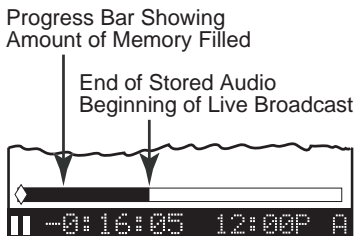


Figure 28

Operation

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.

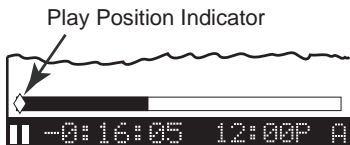


Figure 29

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.

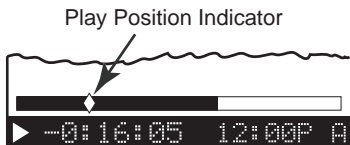


Figure 30

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 Position indicator shows how much you can fast-forward in the

memory.

While you are in the playback mode, the tuner 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 pause the play back, the play position indicator will stop moving and continue to provide a visual indication of your current position in the Instant Replay memory.

When paused, and 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 Tuner will automatically begin playback, and will continue to store the channel audio, overwriting the oldest portion of the audio previously stored.

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.

Operation

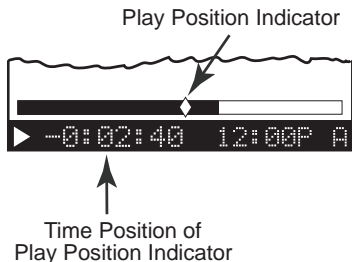


Figure 31

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.

Scanning Channels

Pressing the SCAN ▲ / SCAN ▼ buttons sets the Tuner to play each Channel/Preset in ascending or descending order for 10 seconds. The scan terminates when the SCAN, CATEGORY, CHANNEL or ENTER button is pressed.

When in the Tuner is the scan mode, the animated scan icon (🔍➕) is displayed in the lower bar of the screen. The + indicates the scan is ascending, and – indicates the scan is descending.



Figure 32

Menu Options

Menu Options

Menu Options allows you to set and/or change the various features and settings of the Tuner. To enter the menu options, press the MENU button. The Menu Options screen will be displayed.

To navigate menu options press the CHANNEL (▲▼) buttons to highlight a selection in the menu list, then press the ENTER button to select the highlighted menu option. To exit a menu, press the MENU button.

The following selections (shown in bold text) are available from the Menu Options screen, and allow you to change the parameters for the items listed under the heading:

SIRIUS ID
Game Alert
Settings

Jump Settings
Display Options
Memory Options
Audio Level
Confirmation Tone
OSD
Add or Skip
Parental Control

Time Based Features
Clock
Alarm
Program Alert
Auto Shutdown
Sleep Mode
Signal Indicator
Factory Default
RS232 Mode

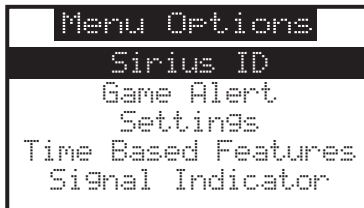


Figure 1

Each of these menu options are explained in the sections which follow. Note that if a selection is not made within 10 seconds, the Tuner will exit the Menu Options screen and revert back to the Default display screen.

SIRIUS ID

This menu option displays your 12 digit SIRIUS ID (SID) number. The SID is unique to each Tuner, and is required to activate your service. It is recommended that you write this number in the space provided near the end of this user guide. No adjustments are allowed in this mode. To exit, press the ENTER button or press the MENU button.

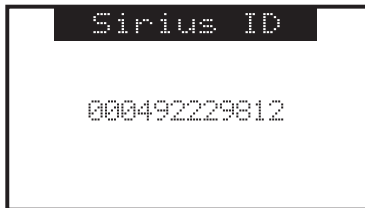


Figure 2

Menu Options

Game Alert

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

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

You may select one team from each sports league and the college category, however, more teams may be chosen by using the MEMORY (MEMO) function. Refer to "Memory (MEMO) & Song Seek (S-Seek) Functions" on page 43 for more information to add additional teams.

To Choose Teams To Add To Your Stored Game Alerts:

- 1 Select Game Alert from the menu options.
- 2 Select the sports league or college category of the team you wish to add.
- 3 Select the league team name or college team name you wish to add.



Figure 3

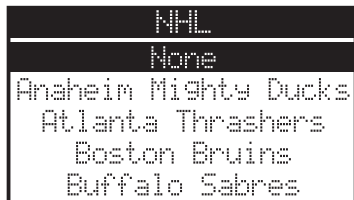


Figure 4

Note that for college teams, you will receive an alert for all teams playing for that college. There are 30 college teams currently licensed for broadcast by SIRIUS.

- 4** Select the type of alert you want for that team.

- **Initial Game Alert:** This option will sound an alert when the tuner is powered on and the sports team is playing, and when the sports team begins playing a game.

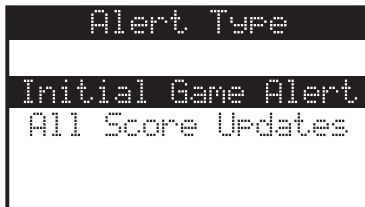


Figure 5

- **All Score Updates:** This option does the same but in addition sounds an alert when the scores are updated for the sports team.

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

Menu Options

Settings

The Settings menu allows you access the Jump Settings, Display Options, Memory Options, Audio Level, Confirmation Tone, OSD, Add/Skip, and Parental Control menu options, which are described in the following sections.

Jump Settings

You can access the Jump Settings menu by pressing and holding the JUMP button for two seconds or by pressing the MENU button to enter Menu Options, selecting Settings, and then selecting Jump Settings.

There are two options available for JUMP button settings: Traffic and JumpSet. (Figure 6) The currently selected option is indicated by the jump icon (↻).



Figure 6

Setting the JUMP Button to Traffic

To Set the JUMP Button to Jump to Traffic Reports:

- 1 Select the Traffic menu option.
- 2 Select the city for which you would like to hear traffic reports.

(Use the MENU button to exit this menu without changing your current city selection, if desired).

Note: If the channel list has not yet been downloaded from the SIRIUS data stream, an Updating City List notification screen will be displayed. Wait 10 minutes and then try selecting a city again.

Setting The JUMP Button To A Channel

To set the JUMP button to any channel other than a traffic channel:

Traffic	
	NYC
LAX	
	BOS
	ATL
	CHI

Figure 7

- 1 Select the JumpSet menu option. (Figure 6)
- 2 Press the MENU button to exit the menu options and return to the Default display screen. The JUMP button can now be programmed by tuning to your desired jump channel and pressing and holding the JUMP button for two seconds.

Menu Options

Display Options

The brightness and contrast of the Tuner's display screen may be adjusted. To Adjust These Settings:

- 1 Select the Display Options menu option.
- 2 Select one of the following two options:
 - **Brightness:** You can set the brightness for the LCD backlight and keypad. Use the CHANNEL (▲ ▼) buttons to adjust the brightness up or down. The bar graph at the bottom of the display screen will move to indicate the change.
 - **Contrast:** This setting adjusts the relationship between the back ground and the text on the LCD display screen. Use the CHANNEL (▲ ▼) buttons to adjust the contrast up or down. The bar graph at the bottom of the display screen will move to indicate the change.
- 3 Press the ENTER button to select the setting.
- 4 To exit Display Options, press the MENU button.

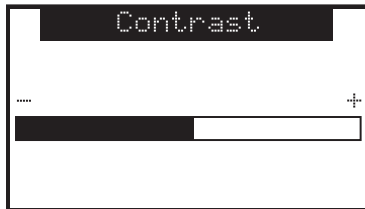


Figure 8

Memory Options

Memory Options provides for turning the memory search function (S-Seek) On or Off. In addition, all 30 presets can be cleared.

To Change The Memory Options:

- 1 Select the Memory Options menu option.
- 2 Select one of the following menu options:
 - **Auto Memory Search:** When this option is selected, you will be prompted to select On or Off to turn the S-Seek function on or off.
 - **Clear All Memory:** Select this menu option to clear all presets. When selected, a Clear All Memory confirmation screen will be displayed. Select Yes to clear all S-Seek presets or No cancel.
- 3 To exit, press the MENU button.

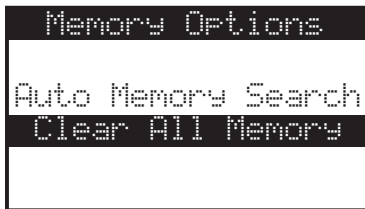


Figure 9

Menu Options

Audio Level

The audio output level of the Tuner can be adjusted to fine tune the audio level for best performance. The audio level setting affects the analog line output.

To Change The Audio Level:

- 1 Select the Audio Level menu option.
- 2 A horizontal bar graph is displayed with a – sign to the left and a + sign to the right. Press CHANNEL (▲ ▼) to adjust to the desired audio output level.
- 3 To select the new setting and exit, press ENTER button.



Figure 10

Confirmation Tone

The Tuner can sound an audio tone alert when the tuner powers On and Off, as well as when an S-Seek Alert is activated. The default setting is On.

To Change The Confirmation Tone Options:

- 1 Select the Confirmation Tone menu option.
- 2 Select On to enable the confirmation tone, or Off to disable the confirmation tone.
- 3 To exit Confirmation Tone, press the MENU button.



Figure 11

Menu Options

OSD (On Screen Display)

You can turn the on screen display On or Off, and also set a screen saver On or Off.

To Turn the OSD or Screen Saver On or Off:

- 1 Select the OSD menu option.
- 2 Select OSD On/Off or Screen Saver On/Off.
- 3 Select On to enable or Off to disable the on screen display or screen saver.
- 4 To exit, press the MENU button.



Figure 12

Add or Skip

Channels can be removed from the channel list. Once a channel is set to be skipped, it will not appear in any channel list but the channel can still be tuned by using Direct Tune.

You can also add back a channel you had previously designated to be skipped.

To skip (or add) channels:

- 1 Select the Add or Skip menu option. A list of channels will be displayed.
- 2 Use the CHANNEL (▲ ▼) buttons to highlight a channel which you'd like to skip and press ENTER. "Skip" will appear next to the channel name.
- 3 If you wish to add a skipped channel back to the list, use the CHANNEL (▲ ▼) buttons to highlight a skipped channel and press ENTER.
- 4 You can continue to skip or add as many channels as you wish. When you are done, press MENU to exit.

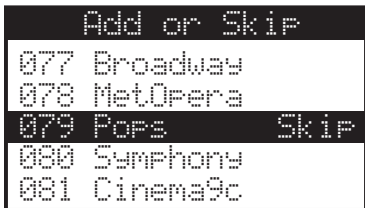


Figure 13

Menu Options

Parental Control

The Tuner has the ability to lock a channel (or channels) you do not want others to access without your permission. Like the Skip channel feature, the locked channel will not appear when browsing channels with the CHANNEL buttons. In addition, when anyone tries to access the locked channel using the Direct Tuning function, an Enter Code screen will be displayed and the channel cannot be accessed until the correct code is entered.

To Lock Or Unlock A Channel:

Select the Lock Options menu option.

- 1 Select the Lock/Unlock menu option. You will need to enter the lock code to proceed. Refer “Changing The Lock/Unlock Code” on page 79 for information on how to set the lock code.

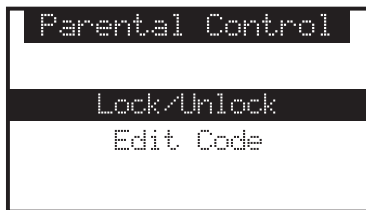


Figure 14

- 2 Select the channel you wish to lock or unlock from the channel list. Pressing the ENTER button will either add the text Lock next to the channel name to indicate that the channel will be locked, or unlock a locked channel by removing the text Lock.

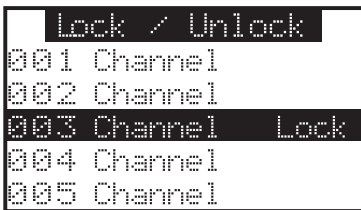


Figure 15

- 3 You can continue to lock and unlock as many channels as you wish. When you are done, press MENU to exit.

Changing The Lock/Unlock Code

The first time the Lock/Unlock menu is accessed, you must enter the default lock code. The default lock code is 0000. This code can be kept or changed. To change the lock code:

- 1 Select the Lock Options menu option.
- 2 Select the Edit Code menu option.

Menu Options

- 3** Enter the default lock code (0000) or the current lock code if you have changed it from the default code.
- 4** The Enter Code prompt will be displayed. Enter your new four digit code using the 0-10 number buttons. You will then be prompted to enter the new code again to confirm.
- 5** When the new lock code is confirmed, the lock code is changed.

Note: You can use this same method to edit the lock code again once it has been changed from the default code

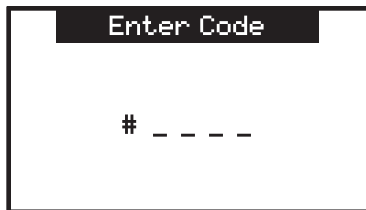


Figure 16

Time-Based Features

The Time-Based Features menu allows you access the Clock, Alarm, Program Alert, Auto Shutdown, and Sleep Mode menu options, which are described in the following sections.

Clock

The Clock menu option allows you to setup the clock shown on the Default display screen, based on the format desired and the time zone in which you reside. The actual time is provided via the SIRIUS satellite signal, and will automatically update based on the received signal. When the Clock menu option is selected, the following menu options are displayed:

- **Format:** The clock format menu option allows for either 12-hour (default) or 24-hour display. Select the desired clock format.
- **Time Zone:** Since the clock adjusts the time automatically, it is important to specify your specific time zone. The following is a list of available time zones:

- (GMT -9:00) Alaska
- (GMT -8:00) Pacific
- (GMT -7:00) Mountain
- (GMT -6:00) Central
- (GMT -5:00) Eastern
- (GMT -4:00) Atlantic
- (GMT -3:30) Newfoundland

Select your particular time zone.

Menu Options

Daylight Savings Time

You can activate this function if your area observes Daylight Savings Time. Select DST Observed (default) or DST Not Observed.

Alarm

The Alarm menu option allows you to set the Tuner to turn on at a specific time. The last selected channel prior to shutdown will be played when the Tuner powers on.

When the Alarm menu option is selected, the following menu options are displayed:

- **Set Alarm:** This menu option allows you to turn the alarm feature on or off. Select On to enable the alarm clock, or Off to disable the alarm clock feature.
- **Alarm Time:** This menu option allows you to set the alarm time. Use the CATEGORY buttons and the ENTER to select the time when you want the Tuner to power on. (Default time is 12:00 PM). When the desired time is displayed, press the ENTER button.

Program Alert

The Program Alert menu option allows you to program the Tuner to switch to a selected channel at a specific time.

When this menu option is selected, the following menu options are displayed:

- **Program Time/Day:** This menu option allows you to choose the Time and Day for the program alert feature.

If Time is selected, use the CHANNEL (▲ ▼) buttons and ENTER button to set the hours and minutes. AM or PM will change automatically when the AM or PM threshold has been exceeded. When the desired time is displayed, press the ENTER button.

If Day is selected, the screen displays a default day of Monday, with choices of Monday through Sunday. Select the desired day.

- **Channel:** This menu option selects the channel to be played. Select the channel desired.
- **Program Alert On/Off (Default is Off):** Select Program Alert On to enable the Program Alert feature or Program Alert Off to disable the Program Alert feature.

Menu Options

Auto Shutdown

The Auto Shutdown menu option allows you to program the tuner to automatically shut off after a one hour period without any user intervention. After 59 minutes of inactivity, a beep tone will sound and a Cancel Auto Shutdown display prompt appears on the screen to allow you to delay the automatic shutdown. When the Auto Shutdown menu option is selected, select Enable to activate the auto shutdown, or Disable to cancel an auto shutdown.

When the Cancel Auto Shutdown screen is displayed after 59 seconds and the beep is heard, if you want to reset the auto shutdown feature press the ENTER button. The auto shutdown sequence will then reset to 1 hour.

Sleep Mode

The Sleep Mode menu option allows you to program the tuner to shutdown after a selected period of time. When the Sleep Mode menu option is selected, the following menu options are displayed:

- Off
- 15 Minutes
- 30 Minutes
- 45 Minutes
- 60 Minutes

Select the desired sleep time, or select Off to cancel a previously selected sleep time.

Signal Indicator

It is important to aim the antenna for maximum signal reception. The Signal Indicator display screen visually shows the strength of the signals being received.

To View The Signal Indicator:

- 1 Select the Signal Indicator menu option.
- 2 Two 10 segment horizontal bar graphs will be displayed (SAT and TER) with a - sign to the left and a + sign to the right. SAT indicates satellite signal strength and TER indicates terrestrial signal strength, if available.
- 3 Adjust the antenna for maximum signal strength as described in the appropriate accessory manual.
- 4 To exit, press the ENTER button or press the MENU button.

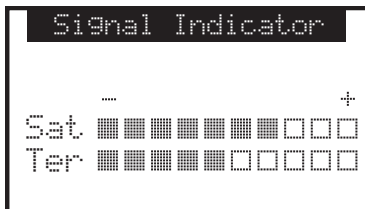


Figure 17

Menu Options

Factory Default

The Factory Default option will restore all original factory settings in your Tuner. Note that factory default will not reset the lock code if you have changed it from the default lock code.

To Perform A Factory Default Reset:

- 1 Select the Factory Default menu option.
- 2 Select Yes to restore all factory settings or select No to cancel and return to the Menu Options screen.

If Yes is chosen, the Tuner reverts to the original factory settings for the following parameters:

- All presets revert to empty
- Reset to Normal Tuning Mode
- Reset to default screen (with 2-line PDT display)
- Reset previous power state setting to: Off
- Game Alert: Clear all favorite teams
- Jump Settings: Clear jump setting
- Display Brightness: 80%
- Display Contrast: 50%



Figure 18

Auto Memory Search: On
Clear all S-Seek stored entries
Audio Level: -3dB
Confirmation Tone: On
Clock Format: 12 Hour
Clock Time Zone: Eastern Time Zone
Clock Daylight Savings Time: Observed
Alarm: Off
Alarm Time: Cleared (12:00 pm)
Program Alert: Off
Program Alert Time: Cleared (12:00 pm)
Program Alert Day: Cleared (Monday)
Program Alert Channel: Cleared (184)
Auto Shutdown: Disabled
Sleep Mode: Off

Menu Options

RS232 Mode

When RS232 Mode is turned On, the Tuner accepts control via the RS-232 port. When the Tuner is in RS232 mode, the display will show “232” in the lower-right corner and most of the buttons on the Tuner and remote control will be disabled. The MENU button which can be used to turn the RS232 mode Off. (Refer to “RS-232 Communications Port Information” on page 26 for more information about RS232 Mode).

To Turn On the RS232 Mode:

- 3** Select RS232 Mode from the menu options.
- 4** Select On.
- 5** Press ENTER to place the Tuner into RS232 mode.

If there is no RS232 connection, or there is a problem with the RS-232 connection, the screen will display “Check RS232 Connection”. (Figure 20)



Figure 19



Figure 20

To Turn Off the RS232 Mode:

- 1** Press the MENU button.
- 2** Use the CHANNEL (▲ ▼) buttons to select Yes and press ENTER.

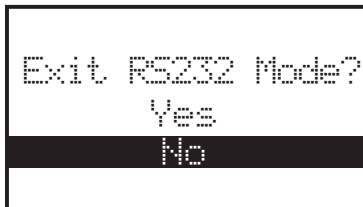


Figure 21

Troubleshooting

Troubleshooting

Symptom	Solution
Tuner Does Not Power On	Blown fuse, or the power cable is not properly connected. Check for a bad fuse and check power cable connection.
Tuner Displays "Antenna Not Detected"	The satellite antenna is not connected to the Tuner. Check the satellite antenna connection to the Tuner.
Tuner Displays "Acquiring Signal"	No satellite signal is being received. Check for obstacles over or around the satellite antenna.
Audio Static Or Loss Of Clarity	The audio cables are not connected. Check the audio cables at the Tuner.
The Buttons On The Tuner or Remote Control Don't Work, And The Display Screen Shows "232" In The Lower Right Corner	The Tuner is in RS232 mode. Press the MENU button and select Yes to exit the RS232 mode.

Product Specifications

Product Specifications

Audio Output	2Vrms
Total Harmonic Distortion (THD)	<0.3%
Signal-To-Noise (S/N)	Greater than 75dB
Power Requirements	AC120 ~ 60Hz,1.5A
Operation Temperature (indoor home or office environment)	0°C ~ 70°C
Radio Dimensions (With Feet)	14.75" W x 2.75" H x 10.625" D (375mm W x 69.5mm H x 270mm D)
Radio Weight	4 lbs. (1.814 kg)
Package Weight	5.5 lbs. (2.495 kg)
Remote Control Dimensions	1.75" W x 5.5" H x 1" D (45mm W x 140mm H x 23.22mm D)
Remote Control Battery	AAA (x2)

FCC Statement

The user is cautioned that changes or modifications not expressly approved by SIRIUS XM Radio Inc. can void the user's authority to operate this device.

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.
2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the installation instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna of the affected receiver.
- Increase the separation between the SIRIUS XM equipment and the affected receiver.
- Connect the SIRIUS XM equipment into an outlet on a circuit different from that to which the affected receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

WARNING! The FCC and FAA have not certified this Satellite Radio Receiver for use in any aircraft (neither portable nor permanent installation). Therefore, SIRIUS XM Radio Inc cannot support this type of application or installation.

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Hardware and subscription sold separately. Activation fee, other fees, and taxes required. Installation required with some equipment. Except for the MiRGE radio, and as specifically provided, SIRIUS and XM Radios and accessories are compatible only with their respective subscription service. Subscriptions governed by, as applicable, the SIRIUS Terms & Conditions available at sirius.com, or the XM Customer Agreement available at xmradio.com. Prices and programming are subject to change. SIRIUS XM U.S. Service only available in the 48 contiguous United States and D.C. Service available in Canada; see www.siriuscanada.ca or www.xmradio.ca. © 2009 SIRIUS XM Radio Inc. SIRIUS, XM and all related marks and logos are trademarks of SIRIUS XM Radio Inc. and its subsidiaries. All other trademarks, service marks and logos are the property of their respective owners. All rights reserved.

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Owners Record

Owner's Record

The model number is located below and the SIRIUS ID is located on the label on the back of the Tuner.

Record the SIRIUS ID in the space provided below. Refer to these numbers whenever you call your dealer regarding this product.

Model Number: SR-H2000

SIRIUS ID: _____

sirius.com

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