SANYO

SIRIUS SATELLITE RADIO

Sanyo Fisher Co.
21605 Plummer St.
Chatsworth, CA 91311
www.sanyo.com

SIRIUS Satellite Radio
1221 Avenue of the Americas
New York, NY 10020
(888) 539-7474
www.sirius.com

SANYO

CRSR-10 User Guide

CRSR-10 (June 2004)

CONGRATULATIONS!

Your new Sanyo™ CRSR-10 portable Plug-n-Play receiver lets you enjoy SIRIUS® Satellite Radio's digital entertainment in your car, home, office, or boat. You may also purchase the Sanyo BMBX-10 Portable Boombox for an enhanced listening experience. Use this manual to familiarize yourself with all of CRSR-10's features and capabilities.

For the latest information about this and other Sanyo products, visit www.sanyo.com

Table of Contents

Box Contents

Unpack your Sanyo CRSR-10 and accessories carefully and make sure that everything listed here is present:

1 x CRSR-10 & 3 x Faceplates   **1 x Home Stand**   **1 x Windshield Mount**   **1 x Car Antenna**

1 x Adaptor   **1 x Audio Jacks**   **1 x Car Adaptor**   **1 x Home Power Cord**   **1 x Home Antenna**

If anything is missing or damaged, or if your Sanyo CRSR-10 fails to operate, notify your dealer immediately. It is recommended that you retain the original carton and packing materials in case you need to ship your CRSR-10 in the future.

Safety Precautions

⚠️ Warning

Take the following precautions to prevent traffic accidents and avoid personal injury:

- Installation must be performed according to this user guide. Sanyo is not responsible for issues arising from installations not performed according to the procedures in this manual.
- Do not install the unit where it may obstruct your view through the windshield or of your vehicle's indicator displays.
- Do not install the unit where it may hinder the function of safety devices such as an airbag. Doing so may prevent the airbag from functioning properly in the event of an accident.
- The installation and use suggestions contained in this manual 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 unit.
- Failure to follow these safety instructions and warnings may result in a serious accident.

⚠️ Warning

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

- To avoid short circuits, never put or leave any metallic objects (coins, tools, etc.) inside the unit.
- If the unit emits smoke or unusual odors, turn the power off immediately and consult your Sanyo retailer.
- Do not drop the unit or subject it to strong shocks.
- If the LCD display 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 unit in proper working order:

- Be sure the unit is connected to a 12V DC power supply with a negative ground connection.
- Do not open the unit.

- Do not install the unit where it will be exposed to high levels of humidity, moisture, or dust.
- When replacing a fuse, use only a new one with the proper rating. Using a fuse with the wrong rating may cause the unit to malfunction.
- To prevent a short circuit when replacing a fuse, first disconnect the wiring harness.

Note: If the unit doesn't seem to be working properly:

- Turn the unit's power off, wait 5 – 10 seconds, then turn the power on again.
- If the unit still malfunctions, turn the unit's power off, remove it from the cradle, wait 5 – 10 seconds, replace it in the cradle and turn the power back on. If the problem persists, consult your Sanyo retailer.

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 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 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 of more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and CRSR-10.
- Connect the equipment into an outlet on a circuit different from that to which the CRSR-10 is connected
- Consult the dealer or an experienced radio/TV technician for help.

Cleaning the Unit

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

⚠ Warning

Do not operate the unit 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.

Installation in a Vehicle

1. Determine where you want to mount the CRSR-10 on the windshield. You may also want to inquire about optional mounting methods at your dealer.
   - Do not install the CRSR-10 where it may obstruct your view through the windshield or your view of your vehicle's indicator displays.
   - Do not install the CRSR-10 where it will hinder your access to the vehicle's controls.

- Do not install the CRSR-10 where it may hinder the function of safety devices such as an airbag. Doing so may prevent the airbag from functioning properly in the event of an accident.
- Find a location that provides good visibility of and access to the CRSR-10's front panel.
- Make sure the windshield is clean and dry.

Press Button
Cam Lever in locked position
Knobs
Yoke
Button Holder
Adjusting Screw
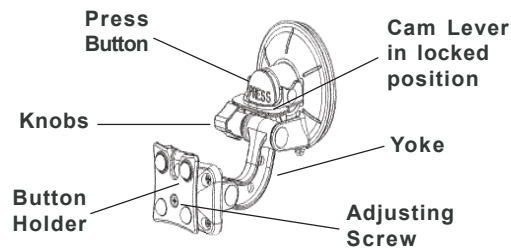
- Loosen both knobs and lift the yoke away from the "Press" button in an orientation similar to above.
- Place the cam in the down position and push the window mount onto the window by pressing the "Press" button.
- With your finger on the "Press" button, pull up on the cam lever to secure the mount in place.

- With the knobs loose, move the yoke into a position that will allow you to see the CRSR-10 screen and access the buttons.
- Tighten the knobs securely.
- Now that the mount is in place, slide the CRSR-10 into the button holder.
  Note: if the CRSR-10 rotates too much while on the suction mount, tighten the adjusting screw located in the center of the mount.

ADAPTER
3
6
RCA OUTPUTS
CAR ANTENNA
CIGARETTE LIGHTER ADAPTER
5
4
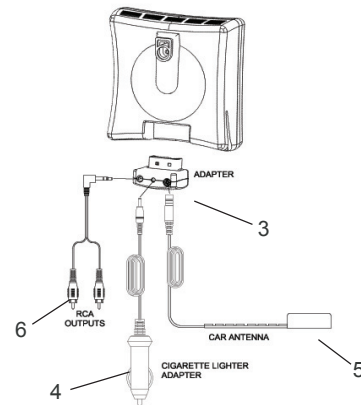
3. Attach the Adaptor to the CRSR-10 as shown left below.
4. Plug the cigarette lighter adapter into the back of the Adaptor where it is labeled "Power". Don't plug the adapter into the cigarette lighter until the installation is completed.
5. Plug the antenna cable into the Adaptor where it is labeled "Antenna".
   - Find an antenna location on a metal surface of your vehicle at least 12" x 12", and at least 6" from a window. Best reception is achieved with the antenna mounted on the roof or trunk for convertibles. If the vehicle has a roof rack or skid ribs, it may be necessary to mount the antenna off center.
6. If you would like to hard-wire your CRSR-10 to your car stereo that has an aux input (RCA jacks), plug the supplied audio cable into the back of the Adaptor where it says "Audio". Plug the audio cable's white (L ch,) and red (R ch.) connectors into your car stereo.
7. The antenna's powerful magnet will secure it to the metal surface.

8. Temporarily plug the cigarette lighter adapter into the cigarette lighter.
9. Hook the CRSR-10 onto the mounting slot of the Suction Cup mount. Press and hold the POWER button to turn the CRSR-10 on.
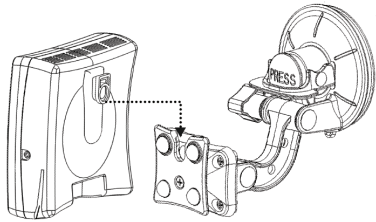
10. If your Sanyo CRSR-10 has been properly connected and the antenna is receiving the SIRIUS signal you will hear audio. If you do not hear audio, the display will read "Antenna Error". Reorient the antenna until you hear audio.
   • Make sure the vehicle is not in a garage, or somewhere the satellite signal could be blocked.

Running the Car Antenna Cable

Before routing the antenna cable, confirm that the antenna is mounted in a good location.
1. Turn the CRSR-10's power off; unplug the cigarette lighter adapter from the CRSR-10 and the cigarette lighter; unplug the antenna from the CRSR-10.
2. Route the cable from the antenna to the vehicle's interior by tucking it underneath the rubber molding around windows and under door jams.
3. 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, minivans and 5-door vehicles, bring the cable into the vehicle under the rubber molding for the tailgate, and continue under the interior trim.
4. From the trunk, route the cable around the passenger compartment and to the back of the cradle.
   • Do not pull the wire across sharp edges that could damage it. Keep the wire away from areas where it could become tangled in driver's and passenger's feet.
5. Plug the antenna into the back of cradle where it says "ANT".

---

6. Plug the cigarette lighter adapter into the cigarette lighter. SANYO RECOMMENDS UNPLUGGING THE CIGARETTE LIGHTER ADAPTER AFTER YOU TURN THE VEHICLE'S IGNITION OFF.

Installation in a Home or Office

1. Plug the Adaptor into the bottom of the CRSR-10.
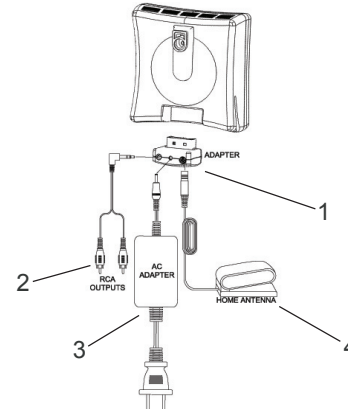
2. Plug the audio cable's mini connector into the back of the adaptor. Plug the audio cable's white (L ch,) and red (R ch.) connectors into the aux-in jacks of your audio system.
3. Plug the AC cord power supply into the back the adaptor.
4. Plug the antenna into the back of the adaptor until it is firmly secure.
5. Assemble the Home stand and hook the CRSR-10 onto the home stand as shown below. Tune to your desired channel.
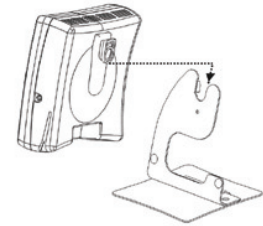
6. Due to the paths of SIRIUS satellites over the US, the best location for the antenna in your home depends on where you live. Some experimentation may be needed to obtain the best results. In major US cities, you may also be able to receive the signal from SIRIUS ground repeaters, which may allow you to place the antenna away from a window. In all cases, since the antenna is weather-proof, you can also locate it outside, clear of any overhead obstructions.

Sanyo CRSR-10 Controls and Features

1. **POWER Button** ⏻ **:** Pressing and releasing turns the CRSR-10 On and Off.

2. **CHANNEL Button:** Navigates through display screens and channels. Pressing the right button increases or moves up in the menus. Pressing the left button decreases or moves down in the menus.

3. **SELECT Button:** Selects of items highlighted on the display in the Category List Screens, Channel List Screens, and Menu List Screens. From the Default Screen the user can enter a direct channel number using the keypad. The Select button will also bring the user back to the last channel played.

4. **CATEGORY Up/ Down Buttons:** Navigates through the Category List Screen which displays SIRIUS Channel Categories. The current Category is highlighted. Pressing again increments or decrements the Category highlighted.

5. **Display (DISP) Button:** Pressing this button from the Default Screen will take you to the Display Properties Menu Screen where the options for "Contrast" and "Brightness" will be offered. From the Default Screen, this button will also switch to the Channel List Mode.

6. **Menu Button:** Used to access menu options to make set up and feature changes.

7. **Preset Number Buttons (0-9):** Sets and selects preset channels. You can store up to 20 favorite channels.

8. **Memory (MEMO) Button (S-Seek Function):** This feature will allow you to capture and store the current PDT information (Artist & Song title), with a storage capacity of up to 10 listings. Once stored, the receiver will also have the capability to search the current incoming SIRIUS signal, to cross-reference with any stored Artist Name/Song title in the CRSR-10's memory.

9. **Band Button (P.Tune):** This button switches between preset banks A, and B, which hold 10 presets each. This button also enables "Preset Tune Mode", which allows for viewing and listening to the stored presets with a press of the Select Button.

Activating your SIRIUS Subscription

Before you can listen to the CRSR-10, you must subscribe to SIRIUS Satellite Radio's service.

1. Make sure that the CRSR-10 is properly connected and that its antenna is oriented to receive the SIRIUS satellite signal *(See installation section on pages 6 & 7 for details)*.

2. Press the power button to turn the CRSR-10 ON. After displaying the SIRIUS logo, the Receiver will update all 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 is completed.

   NOTE: Don't push any buttons or perform any operations until updating has been completed. Once updated and the SIRIUS channels are received, 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 is the SIRIUS Preview Channel.

You will not be able to tune to any other channels until you activate your SIRIUS subscription.
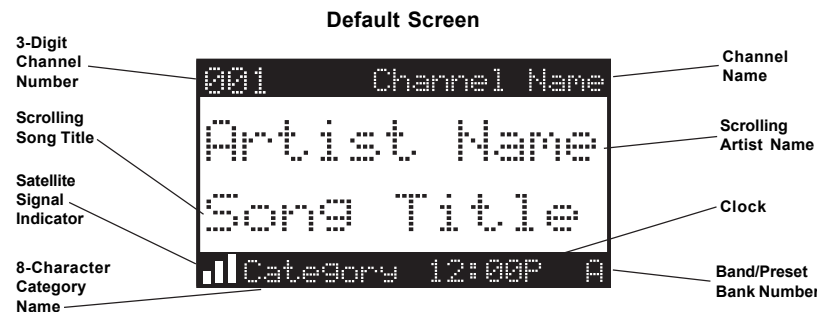
4. Press the MENU button to enter the "Menu Options" mode. The "SIRIUS ID" menu option will now be highlighted.

5. Push on the Select Button to select "SIRIUS ID". This will display your unit's unique 12-digit SIRIUS ID Number. This SID number should also be available on the CRSR-10's packaging. Write the number down and have your credit card handy. A space has been provided at the end of this manual to write down your SID.

SIRIUS
SATELLITE RADIO

6. Contact SIRIUS on the Internet:
   https://activate.siriusradio.com/
   Follow the prompts to activate your subscription. You can also call SIRIUS toll-free at 1-888-539-SIRIUS (1-888-539-7474).

Basic Operation

After you have successfully activated your SIRIUS subscription, the Default Screen will appear (*Below*): Use the Channel Button to select channels.

• The selected channel will automatically start playing. The Artist Name and Song Title will scroll across the display.

Default Screen

3-Digit Channel Number — Scrolling Song Title — Satellite Signal Indicator — 8-Character Category Name

001   Channel Name
Artist Name
Song Title
Category 12:00P A

Channel Name — Scrolling Artist Name — Clock — Band/Preset Bank Number

Changing Channels

Pressing the right Channel Button will increase, or move up to the next channel. Pressing the left Channel Button will decrease, or move down to the next channel. Pressing and holding the Channel button will scroll quickly through the Channel selections.
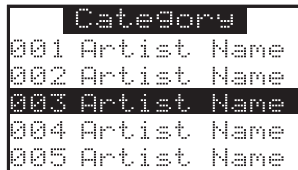
Search Modes (Category, Channel, Artist, Song Title)

The CRSR-10 has four ways to search for and select music: by category, by channel, by artist, and by song title.

Searching Categories

If you want to listen to a different entertainment category, push the CATEGORY button up or down to activate the Category Select Screen (*top right*):

1. Use the CATEGORY button to scroll through music and entertainment categories.
2. When the category (ex. Rock) you want ̇is highlighted, use the Channel Button to search available channels within the category.
   - Pressing the DISP button while in the Category search mode will change the display between Channel Name, Artist Name, and Song Title enabling you to preview what is playing on other channels before selecting.
3. When the channel you want is highlighted, press the Select Button. The channel will change and the display will revert to the Default Screen for the new channel. To exit this mode without changing to a new channel, press and hold the DISP button for 2-seconds.

```
+---------------------+
|     Category        |
| 001 Artist Name     |
| 002 Artist Name     |
| 003 Artist Name     |
| 004 Artist Name     |
| 005 Artist Name     |
+---------------------+
```
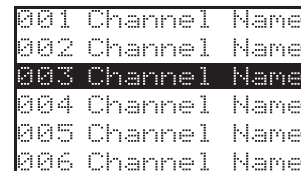
Searching Channels (Channel List Mode)

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

1. Press and hold the DISP button for 2-seconds to activate the Channel List Screen *(top right)*. The Channel List Screen will appear, showing all available channels regardless of category:
   - Pressing the DISP button while in the Channel List Screen will change the display between Channel Name, Artist Name *(middle right)*, and Song Title *(bottom right)*. You can use this feature to search for a specific Artist or Song that may be playing at the time.
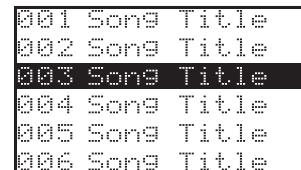2. Press the Channel Button up or down to find the channel you want.

3. Press and release the Select Button to select the channel. To exit this mode without changing to a new channel, press and hold the DISP button for 2-seconds.

```
+---------------------+
| 001 Channel Name    |
| 002 Channel Name    |
| 003 Channel Name    |
| 004 Channel Name    |
| 005 Channel Name    |
| 006 Channel Name    |
+---------------------+
```
Press and Hold the DISP 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 DISP again to show the Artist Name

```
+---------------------+
| 001 Song Title      |
| 002 Song Title      |
| 003 Song Title      |
| 004 Song Title      |
| 005 Song Title      |
| 006 Song Title      |
+---------------------+
```
Press DISP again to show the Song Title

Press DISP again to go back to Channel List

Direct Tuning

Channels can also be directly accessed by pressing and releasing the Select Button while in the Default Screen and using the 0-9 number keys to numerically enter the desired channel (*below*). Once the desired channel number has been entered, press the Select button and the channel will change and the display will revert to the Default Screen for the new channel.

Note: The CRSR-10 will change immediately if three numbers are entered (ex. "0", "0", "7"), but if just one or two digits are entered, the unit will change to that channel 4-seconds after the last number was entered or immediately if you press the Select Button.

```
+---------------------+
| 001     Channel Name|
|    Enter Channel    |
|      # _ _ _        |
|                     |
| ■lCategory 12:00P  A|
+---------------------+
```

Setting Channel Presets

You can store up to 20 of your favorite channels as presets, for quick access. Presets are stored in 2 banks, A & B, 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 Screen.
2. Select the channel you want to preset (see *Basic Operation* and *Changing Channels* on page 12).
3. Hold the numbered preset button you want to store the channel in for at least 2 seconds.
   • The selected preset number will flash and then remain lit on the display to show that it has been memorized.
   • If the preset button already has a channel stored in it, it will be replaced with the new channel.

Recalling Channel Presets

The 10 presets in the active bank (A or B) can be selected by pressing the "0" – "9" 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 Screen.
2. Press the desired preset button "0" – "9" to recall the preset. The channel will change and the display will revert to the Default Screen for the new channel.

Searching for a Channel Preset (P.TUNE Mode)

It is possible to quickly search through all of your presets using the Channel Button.

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 *(bottom right)*.
3. Press the Channel Button in either direction to move up or down through your presets. The new channel will start to play as soon as you stop Pressing the Channel Button.
   • 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 (ex. A1, A2...B1, B2...) and rotate all the way around back to the beginning.
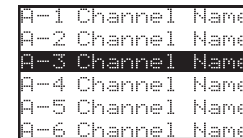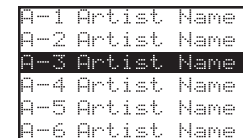
Preset Tune List Mode

Default Display	P.TUNE Display
001 Channel Name Artist Name Song Title ▂▍Category 12:00P A	001 Channel Name Artist Name Song Title ▂▍Category 12:00P A-1

The P.TUNE Mode can also be viewed as a list showing Channel Name, Artist Name, or Song Title just like in the Channel List Mode:
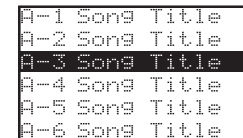
1. Press and hold the BAND button to enter the Preset Tune Mode (P.TUNE) *(bottom)*.
2. Press the DISP button for 2-seconds which will bring up the Preset Tune List Mode displaying up to 6 preset channel names.
   • Pressing the DISP button while in this mode will change between Channel Name *(right top)*, Artist Name (right *middle)*, and Song Title list modes *(right bottom)*.
   • The name field will scroll only if the length of the artist or song title cannot be viewed in its entirety.
3. Use the Channel Button to select the desired preset.
4. Push and release the Select Button to select the preset. The channel will change and the display will revert to the P.TUNE Display.

001   Channel Name
Preset Tune   Mode   ▂▍Category 12:00P A

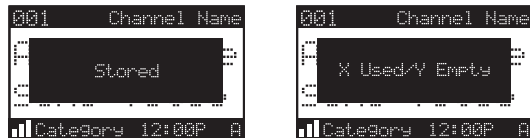| A-1 Channel Name A-2 Channel Name A-3 Channel Name A-4 Channel Name A-5 Channel Name A-6 Channel Name	**P.TUNE** **Channel Name** **List Screen**
A-1 Artist Name A-2 Artist Name A-3 Artist Name A-4 Artist Name A-5 Artist Name A-6 Artist Name	**P.TUNE** **Artist Name** **List Screen**
A-1 Song Title A-2 Song Title A-3 Song Title A-4 Song Title A-5 Song Title A-6 Song Title	**P.TUNE** **Song Title** **List Screen**

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

This feature allows you to capture and store the current Artist & Song title with a total of 10 listings (10 Artist/Song Title combinations). The unit also has the capability to search the current incoming SIRIUS signal and alert you when a saved song is being played.
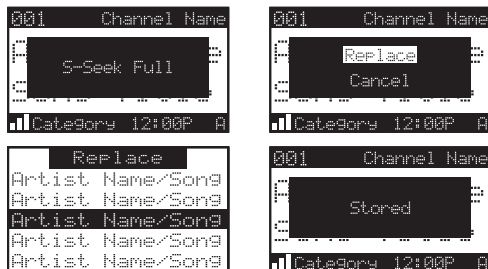
Storing Song Titles

1. While the CRSR-10 is in the Default display mode, momentarily pressing and releasing the MEMO button stores the current program data information within the CRSR-10's memory. A memory **"Stored"** pop-up screen, followed by **"X Used/Y Empty"** will each appear for 1 second *(below)*.

```
001     Channel Name          001     Channel Name

        Stored                       X Used/Y Empty

 .. Category 12:00P  A          .. Category 12:00P  A
```

2. If the MEMO button is pressed to save a currently playing selection, and all of the memory spaces are full, **S-Seek Full** *(right, top left)* will flash on the display for 1-second, followed by a pop-up screen presenting the **Replace**-**Cancel** *(below, top right)* options. This prompt allows you to make the following Replace/Cancel choices:

- By selecting **Replace**, the memory list will appear *(below, bottom left)*, and you can use the Channel Button to select the information that you would like to overwrite with the new Artist/Song Title. After highlighting the selected title in the list, press the Select Button to delete the stored Artist/Song Title, and replace it with the updated information. The display will show the "Stored" screen *(below, bottom right)*.

- By selecting **Cancel**, the prompt screen would disappear and revert to the original screen.

```
001     Channel Name          001     Channel Name

        S-Seek Full                  Replace
                                     Cancel

 .. Category 12:00P  A          .. Category 12:00P  A
```

```
        Replace               001     Channel Name
Artist  Name/Song
Artist  Name/Song
Artist  Name/Song                    Stored
Artist  Name/Song
Artist  Name/Song              .. Category 12:00P  A
```

Viewing Song Titles Stored into Memory

1. Press and hold the MEMO button for 2 seconds to enter S-Seek Mode. The song titles stored memory information (one at a time) will be displayed on the LCD screen in page format. Press and hold the MEMO button again for 2 seconds to exit S-Seek Mode.

2. Use the Channel Button to scroll through the 10-page listing and view the information. This function allows you to recall information regarding the Artist Name and Song Title for your own personal review.

```
Memory   S      X / Y
Artist Name
Song Title
```
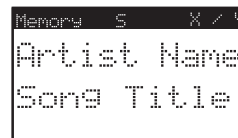
Deleting a Song Title Stored into Memory

1. Press and release the Select Button while in S-Seek Mode results in a pop-up screen displaying two selectable options - **"Delete" and "S-Seek"** *(top right)*.

```
Memory Recall

Delete
S-Seek
```

2. Press the Channel Button to highlight the "Delete" option.

3. Press the Select Button and a Delete confirmation screen will appear.

4. To permanently delete the Song Title from your list, select the **"Yes"** option using the Channel Button and press the Select Button in to confirm *(below)*.

```
Delete

Yes
No
```
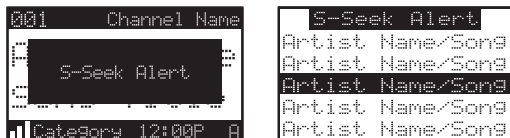
Activating the Song (S-Seek) Alert

1. Press and hold the MEMO button for 2 seconds to enter the S-Seek Mode.
2. Press and Release the Select Button. A pop-up screen displaying two selectable options - **"Delete"** and **"S-Seek"** will appear (below *left*).
3. Use the Channel Button to highlight the **"S-Seek"** option.
4. Press and release the Select Button and an S-Seek confirmation screen will appear. Select the **"Yes"** option using the Channel Button and press the Select Button to confirm *(below right)*.

```
   Memory Recall              S-Seek


      Delete                    On
      S-Seek                    Off
```
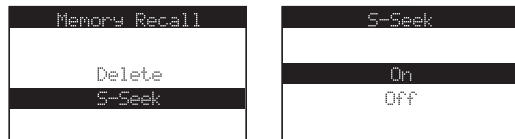
Each time the CRSR-10 is turned on, it automatically searches the incoming signal to determine if a match exists between the signal and the currently saved information stored in the CRSR-10 memory. If one or more matches are found, a pop-up screen momentarily appears for 2-seconds and displays **"S-Seek Alert"**.

An audible beep tone will be heard indicating that a match has been found. The display then reverts to the S-Seek Alert screen which displays the current matches. You can now select the Artist/Song Title that you wish to listen to. No stored match alert is provided for the currently selected channel. To ensure that no duplicate entries are stored in memory, the CRSR-10 will check the stored input data to ensure the information about to be stored is not already in memory.

- If one or more matches are found, a display list appears (below), and allows you to scroll through the list of songs using the Channel Button. Once a song is found, it can be selected by pressing the Select Button, and the display will revert to either selected display modes.
- If a selection is not chosen within 10 seconds after the last action, the screen will revert to the previously selected display and tuning mode.

```
001      Channel Name       S-Seek Alert
                           Artist Name/Song
                           Artist Name/Song
       S-Seek Alert        Artist Name/Song
                           Artist Name/Song
 Category 12:00P  A        Artist Name/Song
```

Menu Display Options

To enter the Menu Options page, press and release the MENU Button. The **"Menu Options"** list will appear on the display *(below)*.

Using the Channel Button, highlight the option you wish to adjust and press the Select Button. The following options are available:

SIRIUS ID	Lock Options
FM Transmitter	Audio Level
Display Settings	Memory Options
Antenna Aiming	Time Features
Confirm Tone Options	Factory Default

```
        Memory Options


      Auto Memory Search
        Clear All Memory
```

Note: If a button is not pressed within 10 seconds, the Receiver will exit the **"Menu Options"** function and reverts back to the Default Screen display.

## SIRIUS ID

Displays your 12-digit SIRIUS ID (SID) number. The SID is unique to every CRSR-10 and is required to activate your service. It is recommended that you write this number in the space provided on the last page of this user guide. No adjustments are allowed in this mode. To exit this option, press the Select Button or Menu Button.

```
          Sirius ID


        ESN 000492229812
```
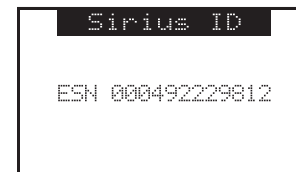
Wireless FM Transmitter Options

If you would like to use the built-in FM Transmitter, you must first make sure the feature is turned On from the CRSR-10 menu:

1. Press the Menu Button. Use the Channel Button to highlight the **"FM Transmitter"** option. Press the Select Button to select.

```
Menu Options
   Sirius ID
  FM Transmitter
 Display Settings
  Antenna Aiming
Confirm Tone Options
```
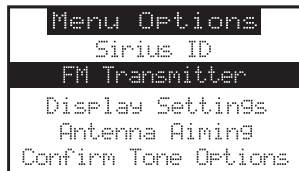
2. Use the Channel Button to highlight **"FM On/FM Off"** *(below)*. Press the Select Button to select the option.

```
FM Transmitter

   Frequency
   FM On/Off
```
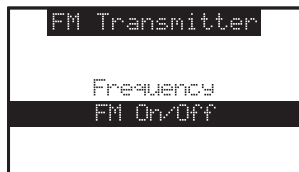
3. Use the Channel Button to highlight On or Off. Use the Select Button to select On or Off. Press the Menu Button to go back to the main Menu.

```
FM On/Off

    On
    Off
```

FM Frequency Options

1. If you would like to change the FM frequency, use the Channel Button to highlight **"Frequency"** in the FM Transmitter options Screen. You are able to select between frequencies 88.1 MHz - 107.9 MHz.

```
FM Transmitter

   Frequency
   FM On/Off
```

Use the Channel Button to scroll through the list of available frequencies. Press the Select Button to choose the desired frequency.

```
Frequency
88.1 MHz
88.3 MHz
88.5 MHz
88.7 MHz
88.9 MHz
```
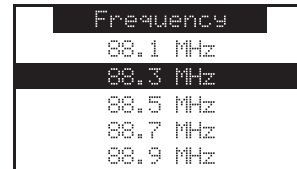
Be sure to change your car or home stereo's FM frequency to the same frequency as the CRSR-10.

To exit the FM Transmitter Options, simply push the MENU button.

Audio Jack Connection Options

If you would like to use the supplied Audio Jacks (shown below) instead of the built-in wireless FM Transmitter, you must first confirm that your car stereo has RCA jacks or a mini plug auxiliary input. If so, you may connect your CRSR-10 directly to your car's stereo. Please consult a qualified dealer for install options.


Other Audio Connection Options

If your car stereo doesn't have RCA Jacks, you may also purchase an optional **"FM Switching Box"**. Please consult a qualified dealer for details and install options.

Display Settings

To adjust the Brightness and Contrast of the CRSR-10's LCD display, either press the DISPLAY Button on the face of the CRSR-10 or while in the **"Menu Options"** list, perform the following steps:

1. Use the Channel Button to highlight the **"Display Settings"** option. Press the Select Button to select.

2. Scroll to one of the following using the Channel Button and select with the Select Button:
   a. **Contrast Control:** Adjusts the relationship between the background and the text on the LCD display. Use the Channel Button to adjust the contrast up or down. The bar graph on the screen will move to indicate the change.
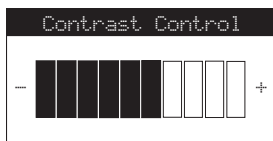
b. **Brightness Control:** Use to adjust the overall brightness of the LCD display. Use the Channel Button to adjust the Brightness up or down. The bar graph on the screen will move to indicate the change.


You could also quickly access the Display Setting menu by pressing the Display Button quick key on the face of the CRSR-10.

3. Pressing and holding the Display Button from the Default Screen will take you to the Channel List Screen. Further presses of the Display Button will change the display between the Channel List Screen, Artist List Screen, and the Song Title List Screen. To exit the Display settings, simply push the MENU button.

Antenna Aiming

When using the home antenna (included) or the optional BMBX-10 Boombox docking station indoors, it is important to position the antenna in an acceptable location (See the BMBX-10 installation guides for more information on the Boombox).

1. In the Menu screen, use the Channel Button to highlight **"Antenna Aiming".** Press the Select Button to select.
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 a satellite signal and TER indicates a terrestrial signal – if available.
3. It is best to position the antenna on a window sill with a clear view of the sky.
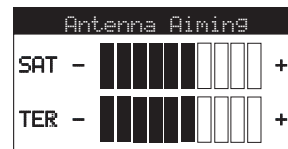
4. Adjust the antenna for maximum performance by positioning the antenna where the above signals are the strongest. To exit this function, press the Select Button or the MENU button.

Confirmation Tone Options

The CRSR-10 will deliver an Audio "Tone" alert when the unit powers ON and OFF as well as when the S-Seek Alert is activated. The Factory Default is ON. To change the tone options, perform the following:
1. Use the Channel Button to highlight the **"Confirm Tone Options".** Press the Select Button to select.
2. Use the Channel Button to Select **"ON"** or **"OFF"**. Press the Select Button to set the Tone Option.

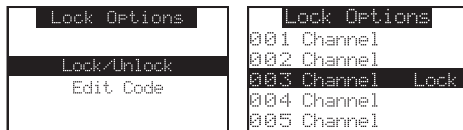To exit the Confirm Tone Options settings, press the MENU button.

Lock Options

The CRSR-10 has the ability to lock the use of any channel, or channels you do not want others to access without your permission. The locked channel will not appear when the user changes channels with the Channel Button. When the user tries to access the locked channel using the Direct Tuning function, the "Enter Code" Screen will be displayed and the channel will not be accessed until the proper code is entered.

While in the **"Menu Options"** List mode, follow the steps below to lock a channel:

1. Use the Channel Button to highlight the **"Lock Options".** Press the Select Button to select.
2. Select "Lock/Unlock" from the Lock Options Menu *(top left)* and press the Select Button to select.
3. Use the Channel Button to select the channel you wish to lock. Press the Select Button in to select *(top right)*.

Note: You can repeat steps 2 and 3 for as many channels you wish to Lock.

```
   Lock Options          Lock Options
                     001 Channel
                     002 Channel
    Lock/Unlock      003 Channel   Lock
    Edit Code        004 Channel
                     005 Channel
```

Changing the Lock/Unlock Code

The first time the Lock/Unlock function is accessed, the user must enter the default lock code. The default lock code is "0000". This code can be maintained or changed. To change the default lock code, perform the following procedure while in the **"Menu Options"** List mode:
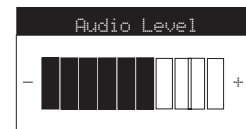
1. Use the Channel Button to highlight the **"Lock Options".** Press the Select Button to select.
2. Select **"Edit Code"** *(next page)* from the Lock Options Menu and press the Select Button to select.
3. Enter the default code "**0000**".
4. The "**Enter Code**" prompt will appear. Enter your new four digit code using the 0-9 number buttons. *(next page)* You will then be prompted to confirm the new code by entering your code again.
5. The lock code is now changed.

Note: You can use this same method to Edit the code once it is changed from the default.

```
   Lock Options          Lock Options

                         Enter Code
    Lock/Unlock
    Edit Code               - - - -
```
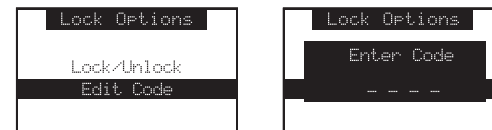
Audio Level

The audio output of the CRSR-10 can be adjusted to fine-tune the audio signal level for maximum performance. This is important when using the optional BMBX-10 Boombox Docking Station. To change the Audio Level, perform the following procedure while in the **"Menu Options"** List mode:

```
          Audio Level

       -  ▮▮▮▮▮▯▯▯  +
```

1. Use the Channel Button to highlight the **"Audio Level Options".** Press the Select Button to select.
2. Use the Channel Button to adjust to the desired audio output level. A 10 segment horizontal bar graph is displayed with a "-" sign to the left and a "+" sign to the right. To select and exit this function, press the Select Button.

Memory Options

In this mode, the user can turn the Memory Search Function (S-Seek) ON or OFF. In addition, all 20 Preset Memory Locations can be cleared. To change the Memory Options, use the following procedure while in the **"Menu Options"** List mode:

1. Use the Channel Button to highlight the **"Memory Options".** Press the Select Button to select.

2. Select one of the following Memory Options:
   a. **Automatic Memory Search function** - **On or Off**: Use the Channel Button to select between the 2 options by highlighting the desired selection. Then press the Select Button to enter the option.
   b. **Clear All Memory Locations**: Press and release the Select Button; a prompt display screen appears confirming - **Clear All Memory.** Select **"Yes"** or **"No"** and press the Select Button.

To exit this function, press the Select Button or MENU Button. No button activity for 10 seconds will also exit this function.

Time-Based Features

This Menu Option allows for adjustments of the following items:

Clock	Auto Shutdown
Alarm Clock	Sleep Mode
Program Alert	

To change the Time-Based Features, use the following procedure while in the **"Menu Options"** List mode:

1. Use the Channel Button to highlight the **"Time-Based Features"**. Press the Select Button to select.
2. Use the Channel Button to select one of the following Time-Based Features to adjust:

 a. **Clock:** When entering this menu option, you can set up the clock shown on the default display, based on the format desired, and the time zone in which you reside.

 • **Format:** The Clock Format option allows for either 12 Hour (Default), or 24 Hour display options. Use the Channel Button to select the desired format.

• **Time Zone:** Since the Clock adjusts the time automatically, it is important to specify your proper time zone. Use the Channel Button to select the proper time zone. The following is a list of time zones included:

 (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 (Abbreviated as
 Newfndlnd)

• **Daylight Savings Time (DST) Observance:** Activate this function if your area is subject to DST; press the Channel Button to toggle between DST Observed (default) or DST Not Observed.

b. **Alarm Clock:** When this menu option is highlighted and selected, you will be able to set the unit to turn on at a specific time. The last selected channel prior to shutdown will be present when the Alarm feature is activated. Alarm appears on the first line of

the display followed by the alarm options:

• **Set Alarm:** Use the Channel Button to select "Set Alarm" From the Alarm Clock Menu. Select either "Alarm Off" (Default) or "Alarm On" from the Menu and press the Select Button to set the alarm On or Off.

• **Alarm Time:** Use the Channel Button to select "Alarm Time" from the Alarm Clock Menu. Press the Channel Button to set the time you want the CRSR-10 to activate (Default is 12:00 pm). Press the Select Button to store the Alarm Time.

c. **Program Alert:** When this menu option is highlighted and selected, you will be able to program the unit to switch to a selected channel at a specific time. Press the Select Button to enter the Program Alert Menu, The following adjustment options are available:

• **Program Time/Day:** Pressing the Channel Button toggles between **Time** and **Day**. If **Time** is selected, use the Channel Button to increase or decrease the set time from the default value (12:00 pm). **AM** or **PM** will switch automatically when the **AM** or **PM** threshold has been exceeded.

When the desired time is displayed, press the Select Button. If **Day** is selected, the screen displays a list consisting of **Monday**, **Tuesday**, **Wednesday**, **Thursday**, **Friday**, **Saturday** or **Sunday**. Use the Channel Button to scroll to the desired day. Press the Select button to select the desired day.

• **Channel:** Press the Channel Button to scroll through a listing of all the SIRIUS channels. When the desired channel is highlighted, press the Select Button.

• **Program Alert On/Off** (Factory Default is Off)**:** Press the Channel Button to toggle between **Program Alert On** or **Program Alert Off**. When the desired alert status is highlighted, press the Select Button.

d. **Auto Shutdown:** In this mode, you have the option of programming the unit to automatically shut off after a 1-hour period without any user intervention.

To activate the Auto Shutdown feature, use the Channel Button to select it from the Auto Shutdown Menu, press the Knob to enter the adjustment mode. Once in the Auto Shutdown Menu, use the Channel Button to highlight either "Enable" or "Disable". Press Select to change the Auto Shutdown feature.

• **Cancel Auto Shutdown**: If you want to temporarily deactivate the Auto Shutdown feature once the beep tone sounds, press the Select key. The Auto Shutdown sequence will revert back to 1-hour.

e. **Sleep Mode**: In this mode, you have the capability of programming the unit to shutdown after a selected period of time. The screen displays Sleep Mode on the top line, with optional time settings as follows:

Sleep Off
15 Minutes
30 Minutes
45 Minutes
60 Minutes

Use the Channel Button to select the desired Sleep Time. When the desired time is highlighted, press the Select Button. The Receiver will now turn off after the selected time has expired.

Factory Default
This Menu option is designed to restore all the original factory settings. To activate the Factory Default perform the following procedure while in the **"Menu Options"** List mode:

1. Use the Channel Button to highlight the **"Factory Default"** option. Press the Select Button to select. **"Restore Settings"** will pop up on the CRSR-10's display *(below)*.

```
Restore Settings
     Yes
     No
```
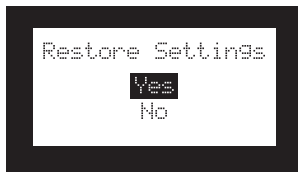
2. Use the Channel Button to highlight "Yes" to restore all the settings or select "No" to return to the **Menu Options** List Mode.

Note: If "Yes" is chosen, the unit reverts to the original factory settings for the following parameters:

All Presets revert to empt
Display Contrast to 50%
FM Transmitter to "On"
Audio Output Level to 50%
Memory Search On
Memory locations will be erased
12 Hour Clock Format
Eastern time zone
Daylight savings time observed
Program Alert Time OFF
Program Alert Day Monday
Program Alert Channel Number (current)
Auto Shutdown Off
Sleep Mode Off

Changing the Removable Faceplates
1. To remove the faceplate, hold both sides of the CRSR-10 with one hand. Locate the indented tab on the bottom of the CRSR-10. Pull on the indented tab of the faceplate with the finger of your other hand and apply gentle pressure. The faceplate should snap off easily.

2. To add a faceplate, hold both sides of the CRSR-10 with one hand. Pick up a faceplate with your other hand and place into position while making sure the indented tab remains on the bottom of the unit. Once lined up, the faceplate should snap on easily with gentle pressure.

SANYO **SANYO**

Troubleshooting

FAULT	PROBABLE CAUSE	REMEDY
CRSR-10 does not turn on	Blown Fuse, power cable not properly connected	Check fuse, check power cable
"ANTENNA NOT DETECTED" message	Satellite antenna not connected	Check satellite connection to CRSR-10
	Antenna or cable is faulty	Contact system installer or vendor
Audio static or loss of clarity	FM modulator frequency contains static	1. Switch to another FM frequency 2. Move CRSR-10 closer to car FM antenna 3. Use FM switching box
	Vehicle antenna not connected to radio	Check vehicle antenna cable
No signal on CRSR-10 display	Check for obstacles over or around antenna or move antenna placement	Change location to eliminate nearby obstacles (bridge, trees, etc.)
No Sound	1. Audio Cables not connected 2. Incorrect FM modulator frequency 3. FM transmitter option not turned on	1. Check cables at CRSR-10 and radio 2. Select another FM frequency 3. Turn on FM transmitter in CRSR-10 menu

Specifications

Audio Output .... 776 mV RMS or 1 v peak to peak)
Total Harmonic Distortion (THD) .... <0.5%
Signal-to-noise (S/N) ....Greater than 83dB
Fuse Requirement .... 3A Slow Blow
Power Supply ....7.6V-24V, Negative Ground, DC
Current Requirement...1A
Operating Temperature...-20 - +70C
CRSR-10 Dimensions .... 101mm(W) x 101mm(H) x 39mm(D)
.... (4" W x 4" H x 1-1/8" D)
CRSR-10 Weight (without adaptor) 240g
CRSR-10 Weight (with adaptor) 253g

Note: Features and Specifications subject to change without notice.

Optional Accessories for your CRSR-10

Add one or all of these accessories to maximize your Sanyo experience.

BMBX-10 Portable Boombox

The BMBX-10 Boombox is a portable docking station and audio system for the Sanyo CRSR-10. The built-in amplifier and speakers delivers rich, powerful sound indoors or outdoors.

Includes the Following:

- Portable Boombox with built-in AM/FM tuner, amplifier, and speakers
- Auxiliary input for other audio devices
- Headphone jack for private listening
- Subwoofer out jack
- Adjustable indoor/outdoor antenna with 21' of cable
- AC adapter
- User Guide

FM Switching Box

The FM Switching Box is an optional accessory if you choose to hard-wire your CRSR-10 to your car's audio system instead of using the built-in wireless FM Transmitter.

Includes the Following:

- FM Switching Box wiring
- Installation instructions

Notes:

SANYO

SANYO

Notes:

Notes:

SANYO

SANYO MOBILE AUDIO
MODEL CRSR-10 LIMITED WARRANTY

OBLIGATIONS

In order to obtain warranty service, the product must be delivered to and picked up from an Authorized Sanyo Factory Service Center at the user's expense, unless specifically stated otherwise in this warranty. The names and addresses of Authorized Sanyo Service Centers may be obtained by calling the toll-free number listed below. **For product operation, authorized service center referral, service assistance or problem resolution, call:**

FACTORY SERVICE 1-800-421-5013

Weekdays 8:00 am - 5:00 pm Pacific Time

THIS WARRANTY IS VALID ONLY ON SANYO PRODUCTS PURCHASED AND USED IN THE UNITED STATES OF AMERICA. THIS WARRANTY APPLIES ONLY TO THE ORIGINAL RETAIL USER, AND DOES NOT APPLY TO PRODUCTS USED FOR ANY INDUSTRIAL, PROFESSIONAL OR COMMERCIAL PURPOSE. THE ORIGINAL DATED BILL OF SALE OR SALES SLIP MUST BE SUBMITTED TO THE AUTHORIZED SANYO SERVICE CENTER AT THE TIME WARRANTY SERVICE IS REQUESTED. Subject to the OBLIGATIONS above and EXCLUSIONS below, SANYO FISHER COMPANY (SFC) warrants this SANYO product against defects in materials and workmanship for the periods specified below. SFC will repair or replace (at its option) the product and any of its parts which fail to conform to this warranty with new or reconditioned products or parts. The warranty period commences on the date the product was first purchased at retail.

LABOR: 1 YEAR   PARTS: 1 YEAR

EXCLUSIONS

This warranty does not cover (A) the adjustment of customer-operated controls as explained in the appropriate model's instruction manual, or (B) the repair of any product whose serial number has been altered, defaced or removed. This warranty shall not apply to the cabinet or cosmetic parts, knobs, batteries or routine maintenance. This warranty does not apply to uncrating, setup, installation, removal of the product for repair or reinstallation of the product after repair. This warranty does not apply to the elimination of car static or motor noise, correction of antenna problems, or damage to compact discs, speakers, accessories or vehicle electrical systems. This warranty does not apply to repairs or replacements necessitated by any cause beyond the control of SFC including, but not limited to, any malfunction, defect or failure caused by or resulting from unauthorized service or parts, improper maintenance, operation contrary to furnished instructions, shipping or transit accidents, modification or repair by the user, abuse, misuse, neglect, accident, incorrect power line voltage, fire, flood or other Acts of God, or normal wear and tear. The foregoing is in lieu of all other express warranties and SFC does not assume or authorize any party to assume for it any other obligation or liability.

THE DURATION OF ANY WARRANTIES WHICH MAY BE IMPLIED BY LAW (INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS) IS LIMITED TO THE TERM OF THIS WARRANTY IN NO EVENT SHALL SFC BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM OWNERSHIP OR USE OF THIS PRODUCT, OR FOR ANY DELAY IN THE PERFORMANCE OF ITS OBLIGATIONS UNDER THIS WARRANTY DUE TO CAUSES BEYOND ITS CONTROL. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS AND/OR DO NOT ALLOW THE EXCLUSION OR LIMITATION OF CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE.

For your protection in the event of theft or loss of this product, please fill in the information below for your own personal records.

Model No._____ Serial No. _____ (Located on back of unit)

Date of Purchase _____ Purchase Price_____

Where Purchased _____

SIRIUS ID (SID): __ __ __ __ __ __ __ __ __ __ __ (Located on back of unit)

SIRIUS Customer Service: 1-888-539-7474