SXM-100 Commercial SiriusXM® Satellite Radio
Owner’s Manual
Welcome! ................................................................. 6
Installing SXM-100 ...................................................... 6
  Parts List ............................................................. 6
  Connections ................................................................ 7
  Positioning the Antenna ............................................. 8
Optimizing Signal Strength ............................................ 9
Activating the SXM-100 ................................................. 10
Operating the SXM-100 .................................................. 11
  Display and Indicators .............................................. 11
  Tuning Modes .......................................................... 13
  Changing Channels ................................................... 13
  Changing Categories .................................................. 15
  Setting and Recalling Presets ..................................... 16
  Powering On and Off ................................................ 16
  Parental Control ....................................................... 17
Setting Options Via Menus ............................................ 19
  Navigating Setup Menus ........................................... 19
  Signal Quality ......................................................... 21
  Scroll Speed ........................................................... 21
  Line Level ............................................................... 22
  Front Lock ............................................................... 22
  Time Zone ............................................................... 23
  Daylight Savings Time ............................................. 23
Channel Locking ......................................................... 23
  Lock Single Channels ............................................... 24
  Lock All Channels ................................................... 25
  Unlock All Channels ................................................ 26
  Lock All Skipped Channels ....................................... 27
Channel Skipping ....................................................... 27
  Skip Single Channels .............................................. 28
  Skip All Channels ................................................... 29
  Unskip All Channels ............................................... 30
  Skip All Locked Channels ......................................... 30
Forced Tuning ........................................................... 31
Software Version ......................................................... 36
<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Passcode Menu</td>
<td>36</td>
</tr>
<tr>
<td>Restricted Mode</td>
<td>37</td>
</tr>
<tr>
<td>Change Passcode</td>
<td>38</td>
</tr>
<tr>
<td>Restore to Defaults</td>
<td>40</td>
</tr>
<tr>
<td>Display Advisories</td>
<td>40</td>
</tr>
<tr>
<td>DB9 Aux Data Connector -Integration with Distributed Audio</td>
<td>44</td>
</tr>
<tr>
<td>Control Systems</td>
<td></td>
</tr>
<tr>
<td>Technical Assistance</td>
<td>44</td>
</tr>
<tr>
<td>12 Month Limited Warranty</td>
<td>45</td>
</tr>
</tbody>
</table>
Antex Electronics Corporation  
19160 Van Ness Avenue  
Torrance, California 90501  
www.antex.com

Copyright © 2015 Antex Electronics Corporation. All Rights Reserved. No portion of this manual may be reproduced without prior written consent from Antex Electronics. Part number 9000-2495-7006 Rev A.

Sirius, XM and all related marks and logos are trademarks of Sirius XM Radio Inc. All rights reserved.

FCC Compliance Statement for United States Customers
This equipment has been tested and found to comply with the limits for a Class B device, pursuant to Part 15 of the FCC Rules. In order to maintain compliance with FCC regulations, shielded cables must be used with this equipment. Operation with non-approved equipment or unshielded cables is likely to result in interference to radio and TV reception. Changes or modifications made to this equipment not expressly approved by Antex Electronics could void the user’s authority to operate the equipment.

IMPORTANT SAFETY INSTRUCTIONS
• Read Instructions – Read all Safety Instructions before operating equipment.
• Retain Instructions – Save these instructions for future reference.
• Heed Warnings – All warnings and these instructions should be adhered to.
• Follow Instructions – All operating and use instructions should be followed.
• Cleaning – Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
• Attachments – Do not use attachments not recommended by the manufacturer as they may cause hazards.
• Water and Moisture – Do not use this product near water – for example near a bathtub, wash bowl, kitchen sink or a room where moisture is likely to occur.
• Accessories – Do not place on an unstable surface (cart table or tripod) where tipping is a possibility.
• Ventilation – Install unit in well ventilated area where self generated heat may escape. Bookcases or cabinets should have proper venting to allow heat to escape.
• Power outlet – A properly grounded wall outlet must be used. Do not use a plug adapter that bypasses the three-terminal ground plug.
• Power Cord Protection – Route your power cords out of traffic's way so as not to be walked on or traveled over by cart wheels. Do not place items on top of or against the cord so as to pinch the cord.
• Outdoor Antenna Grounding – The antenna and coaxial cable connecting to the unit must be properly grounded to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of
antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

- **Power Lines** – An outside antenna system should not be located in the vicinity of overhead power lines or electric light or power circuits, or where they can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

- **Overloading** – Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electrical shock.

- **Object and Liquid Entry** – Never push objects of any kind into this product through openings as they may short-out parts that could cause a fire. Never spill liquid of any kind on the product.

- **Servicing** – Do not attempt to service this product yourself; there are no customer serviceable parts inside. Refer all servicing to qualified service personnel.

- **A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.**

- **Damage Requiring Service** – Unplug this product from the wall outlet and refer servicing to a qualified service person under the following conditions:

  a) When the power-supply cord or plug is damaged.
  b) If liquid has been spilled, or objects have fallen into the product.
  c) If product has been exposed to rain or water.
  d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
  e) If the product has been dropped or damaged in any way.
  f) When the product exhibits a distinct change in performance – this indicates a need for service.

- **Replacement Parts** – When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, shock, or other hazards.

- **Safety Check** – Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

- **Heat** – The product shall be situated away from sources such as radiators, heat resistors, heat registers, stoves, or amplifiers that produce heat.

- **Technology** - It is prohibited to copy, decompile, disassemble, reverse engineer, or manipulate any technology incorporated in receivers compatible with the SiriusXM Satellite Radio system. Furthermore, the AMBE (R) voice compression software included in this product is protected by intellectual property rights including patent rights, copyrights, and trade secrets of Digital Voice Systems, Inc. The user of this or any other software contained in a SiriusXM Satellite Radio is explicitly prohibited from attempting to copy, decompile, reverse engineer, or disassemble the object code, or in any other way convert the object code into human-readable form. The software is licensed solely for use within this product.
Welcome!

Thank you for choosing the world’s finest high-fidelity, commercial SiriusXM Satellite Radio receiver.

Only SiriusXM brings you more of what you love to listen to, all in one place. Get over 140 channels, including commercial-free music plus the best sports, news, talk, comedy and entertainment. Welcome to the world of satellite radio.

This unit requires a monthly subscription from SiriusXM Satellite Radio. For more information, visit www.siriusxm.com

Installing SXM-100

Antex Electronics recommends that the SXM-100 unit and its antenna be installed by a professional installer. Brief instructions are presented here for reference purposes.

The installation process consists of three steps:

1. connecting the radio to audio equipment
2. positioning the satellite antenna
3. activating the radio

Parts List

Before installing your SXM-100, make sure you have all the parts listed below:

- SXM-100 unit
- Remote control
- Power Adapter
- RCA audio cable

You will also need an antenna which is not included with the SXM-100. Antennas are available at www.shop.siriusxm.com, Antex, and third parties.
Connections

House the SXM-100 unit in a component rack or other suitable location that provides adequate ventilation. **The maximum ambient temperature should never exceed 120 degrees Fahrenheit.** The unit’s front user interface and various connectors on the back of the unit are shown here:

Connect the SXM-100 as follows:

1. Audio output – audio connection may be made to either the RCA outputs or the 3.5mm output jack. These two output connectors are internally wired in parallel, and it is generally not recommended that both outputs be used simultaneously unless it is known that both outputs drive a high impedance load. The maximum level is 2VRMS.

2. Power in – connect only the included AC adapter to a suitable 120VAC power source.

3. Antenna – connect an approved SiriusXM compatible antenna (not supplied) to the RF input jack (F connector) and position as described in the next section. Antenna and cable kits are available from Antex and third party sources.

4. RS232 – an RS232 control port is provided for optional control of the SXM-100 unit from 3rd party control systems.
Antex recommends that this connection be used only by experienced professional installers. See www.antex.com for more information about using the RS232 control port.

Positioning the Antenna

The SiriusXM antenna requires exposure to the south/southeastern sky for proper signal reception. To position your antenna, first connect the SXM-100 to your audio system as described above, then follow these instructions.

1. Power on the receiver, verify the power indicator is illuminated and the display backlight is on. If the message “CHECK ANTENNA” appears, check that the antenna connector is fully engaged, an open circuit does not exist between the receiver and antenna, and that no short circuit exists in the antenna cable. If the antenna does not have a clear path to the satellites, the front panel display will read “NO SIGNAL”.

2. Align the Antenna as follows:

   **For Indoor installation on a flat surface:**
   a) Set antenna on its base on a flat horizontal surface.
   b) Turn the base of the antenna so that the SiriusXM logo is facing to the south if you are in the eastern half of the U.S. and to the south/southeast if you are in the western half of the U.S.
   c) Bring up the signal strength menu by holding down the power button for 4 seconds and optimize signal strength using the instructions in the next section. Exit signal strength Mode by pressing the power button.
   d) If necessary, experiment with different antenna locations near a south-facing window or outside.

   **For Outdoor installation or indoor wall mounting:**
   The antenna can also be attached vertically to an external or internal wall if that is more convenient than placing it on a horizontal surface.
   a) Please follow the manufacturer’s instructions for mounting the antenna.
b) Bring up the signal strength menu by holding down the power button for 4 seconds and optimize signal strength using the instructions in the next section. Tilt the antenna away from the wall/base until the signal strength is optimized. Exit signal strength Mode by pressing the power button.

3. Power on your sound system and turn the amplifier to a low volume.

4. If the system is working, you will hear SXM programming on channel 1 and can proceed to activating the SXM-100.
   
   If there is a problem with the antenna connection, the SXM-100’s front panel display will read “CHECK ANTENNA”. If the antenna does not have a clear path to the satellites, the front panel display will read “NO SIGNAL”. Reposition the antenna until signal strength is optimized and you hear audio.

5. Activate the unit following the “Activating the SXM-100” instructions on page 10.

**Optimizing Signal Strength**

For robust operation, signal strength received from the antenna must be optimized. Optimum alignment of the antenna may be achieved using the signal strength menu. Press and hold the power button for 4 seconds, a display similar to the one below will appear.

SAT indicates the received SXM satellite signal quality. The higher the SAT percentage number the better.

TER indicates the signal quality received from a terrestrial repeater, if there is one. Acceptable values for this number may be anywhere from 100% if a repeater is nearby, to 0% if only the satellite signals are available – higher is better.

Position and rotate the antenna for the optimum balance (highest readings) for SAT. Obstructions such as trees or tall
buildings may interfere with reception of satellite signals and require that the antenna be repositioned.

When complete, press the power button to return the display to its normal operating Mode.

Activating the SXM-100

After the channel 1 audio verification test, you must activate your SXM-100 to access all XM channels. Commercial accounts must sign up for and activate under the terms of SiriusXM’s Commercial Service. **It is not legal to operate this receiver in a place of business, such as a restaurant or fitness club, using a personal subscription.**

To activate the radio you must first obtain the SXM Radio ID number of your unit. Tune the receiver to channel 0 by using the down button on the unit’s front or press 0 on the remote control. The 8 digit SXM Radio ID will be displayed.

Record the 8 character ID in the space below, noting that letters I, O, S and F are not used and that the number zero has a line running diagonally through it.

SXM Radio ID: _________________________

For home subscriptions, in the USA, you can activate online or by calling SiriusXM Listener care:

- Visit [www.siriusxm.com/activatenow](http://www.siriusxm.com/activatenow)
- Call SiriusXM Listener Care at 1-866-635-2349

For Canadian home subscriptions, please contact:

- Visit [www.siriusxm.ca/activatexm](http://www.siriusxm.ca/activatexm)
- Call XM Customer Care at 1-877-438-9677

For business subscriptions, call 1-866-345-7474

As part of the activation process, the SiriusXM satellites will send an activation message to your tuner. When the radio detects that the tuner has received the activation message, your radio will display: “SUBSCRIPTION UPDATED – PRESS UP TO CONTINUE”. Once subscribed, you can tune to channels in
your subscription plan. Note, the activation process usually takes 10 to 15 minutes, but may take up to an hour. Your radio will need to be powered on and receiving the SiriusXM signal to receive the activation message.

**Operating the SXM-100**

SXM-100 provides intuitive control of its various functions via its front panel buttons as shown on the next page, the remote control, and the RS232 port (for local and remote operation). Note that in the event of power loss, the radio will automatically return to its state before power loss.

Basic operation allows the user to:

- Change channels and music categories
- Enter a channel number on the remote to tune to a channel directly
- Set and tune to preset channels via the remote control—10 presets total

You can also use the SETUP menu to set Forced Tune Events, block specific channels, as well as add and skip channels. Instructions for all these features are provided in later sections.

**Display and Indicators**

The default display, as shown below, provides information about the channel currently tuned to. On the top line is the channel number, followed by the channel name and category name. The channel name and category name alternate. On the second line the artist name, song title, and content info scroll by on a continuous basis. The fields are separated by a forward slash “/”. The content info is followed by two spaces before the song title starts the cycle again.
The display backlight is illuminated and text appears after the power button has been pressed, indicating the unit is on.

The SXM-100 has four indicators and four buttons as follows (Modes are described below):

- **Power Indicator** – illuminated whenever power present
- **Setup Indicator** – illuminated when in Setup Mode
- **CHAN Indicator** – illuminated when in Channel Mode. Both CHAN and CAT indicator illuminated in Channel/Category Mode.
- **CAT Indicator** – illuminated when in Category Mode. Both CHAN and CAT indicator illuminated in Channel/Category Mode.
- **Power Button** – turns unit on/off. Hold for signal strength. Press to exit setup menus.
- **Mode Button** – cycles operational Mode of unit through Channel, Category, Channel Category, or Setup. Holding for 4 seconds enters Setup Mode.
- **Up and Down Buttons** – changes channels and is used for menu navigation.
Tuning Modes

The SXM-100 supports three Modes of channel selection: Channel (default), Category and Category/Channel. Examples of categories are Rock, Classical, etc.

Channel Mode allows you to scroll through and select any channel in the entire XM lineup regardless of what category the channel belongs to. Channel Mode is the default Mode at power up. When you switch to Category Mode, the unit will scroll through the different Categories offered by XM. Category/Channel Mode allow the user to scroll through channels only within the current category. This is particularly useful when, for example, you want to listen to and scroll through news channels only.

To cycle through the three tuning Modes, press the MODE button. By default the unit is in Channel Mode and the CHAN LED is illuminated. When you press the MODE button once, the unit will enter Category Mode and the CAT LED is illuminated on the front panel. Press MODE again to enter Category/Channel Mode (both CHAN and CAT LEDS are illuminated) and again to return to CHAN Mode.

When using the remote control, press the CH key to enter Channel Mode and the CAT key to enter Category/Channel Mode. In Category/Channel Mode, use the left and right arrows to change categories.

Changing Channels

You can change channels in either Channel or Category/Channel Mode using three methods:

- Channel up/down buttons
- Direct channel entry using numbered buttons on the remote
- Preset button on the remote to tune to a preset channel

Use the up/down buttons on the front panel or remote to scroll (browse) through channels. You will notice that the channel number and name, artist name, and song title information in the display change to reflect the new channel. The audio will not change until the browsed channel has been selected.
Selection (and audio) of the new channel occurs a couple seconds after you have stopped pressing the up/down buttons.

Note that if you browse to a channel that has been Locked using Parental Controls, the artist name, song title information will be replaced by “RESTRICTED”. This indicates a Locked channel, and you will be required to input a passcode to select this channel. If you do not enter the passcode, the SXM-100 will go back to the channel you were tuned to before you started browsing, not any of the previously browsed channels.

There is also a scanning feature using the up/down buttons. If you press and hold the up or down buttons, after about 2 seconds the channels will begin scanning. After about 10 seconds, the scanning will change to a higher speed.

You can also tune to a specific channel directly simply by inputting its channel number using the NUMERIC buttons on the remote. You may enter one, two, or three digits representing a valid channel number. If you are entering less than three digits, it will take a couple of seconds before the new channel is selected because the SXM-100 is waiting to see if you are going to enter more digits. If the channel number you want only has one or two digits, you can make the selection happen immediately by pressing the SEL key on the remote.

When preset channels have been set, you can access those presets simply by pressing the PRESET button on the remote, then an appropriate numeric button. For example, if preset 0 is set to Rock, preset 1 to Hits, and preset 2 to News, you could jump to the News channel quickly by pressing PRESET-2.

There are several other features of the SXM-100 that affect which channels can be tuned to. Below is a brief description. Please read the individual sections on each subject for more details.

Parental Control – Channel Locking- Restricted Mode: To limit access to channels which may be deemed inappropriate or have mature content, channels may be programmed as locked. If Restricted Mode is turned on, locked channels may only be tuned to if you input a passcode with the remote control. (Parental Control page 17, Channel Locking page 23, Restricted Mode page 37)
Front Panel Locking: This feature disables the buttons on the front panel. The SXM-100 can then only be changed by using the remote control. (see page 22)

Channel Skipping: Channels may be programmed to be skipped. In this case, the channel will not be shown when using the up/down buttons. A skipped channel can only be tuned to by direct tuning using the remote control. (see page 27)

Forced Tune Events: The SXM-100 can be programmed to tune to a specific channel at a specific time using Forced Tune Events. Forced Tune Events can also turn on or off Restricted Mode and Front Panel Locking. (see page 31)

**Changing Categories**

The channels of the SiriusXM service are conveniently organized into categories such as Hits, Rock, News, Sports, etc. If using the front panel, enter Category Mode by pressing the MODE button on the front panel until the CAT LED is illuminated and the CHAN LED is not illuminated. Press the up/down buttons to tune to a different category. Note that the channel number, category name, channel name, artist name, and song title information in the display change to reflect the new category. A channel’s category name and channel name alternate. Once you have found the desired category, press the MODE button until both the CAT and CHAN LEDs are illuminated. You will now stay in that category when pressing the up/down buttons on the front panel.

If using the remote control, Category Mode (CAT LED only illuminated) has no function. Press the CH key to enter Channel Mode and the CAT key to enter Category/Channel Mode. In Category/Channel Mode, use the left and right arrows to change categories.
Setting and Recalling Presets

The SXM-100 can store up to 10 channel presets (numbered 0 to 9). To assign a preset, first tune to a desired channel, in this example 44. Then press and hold the PRESET button on the remote for 4 seconds. The display will change to:

**SAVE 44 TO PRESET NO. ?**

Press the numeric button you wish to assign this channel to and it will be stored.

To recall a stored preset, press (but don’t hold) the PRESET button. The display will indicate “TUNE TO PRESET NO. ?” - simply select the desired numeric button (0-9). If you press the PRESET button by mistake, pressing any non-numeric key will exit from the preset prompt.

Powering On and Off

Before unplugging the SXM-100, it is best to first power down using the POWER button. Wait for the power down to complete, then unplug. No damage will occur if you simply unplug, but parameters that may need to be saved in nonvolatile memory inside the tuner module will not be saved, and it may take longer for the tuner to lock to a signal when powered on the next time.

The SXM-100 always performs a memory check after a cold power cycle (removing AC power). When the memory check is finished, the unit will either turn on or go back into standby, depending on the state it was in before AC power was removed. If there is an AC power failure, the SXM-100 should return to the same state when power is restored. If it was on when power failed, it should turn back on by itself when power is restored and tune to the same channel. If it was off, it should return to the off state when power is restored, after doing the memory check.

🔍 **Note that if Restricted Mode is programmed on, the SXM-100 will power back up in the Restricted Mode, even if Restricted Mode had been temporarily suspended by entering the passcode. In this case, the display will prompt you for the**
passcode if you were tuned to a Locked channel before power was turned off. If the passcode is not entered, the SXM-100 will tune to the Preview channel (channel 1) instead of the channel it was tuned to when power was turned off.

When power is cycled, either warm (using the POWER button) or cold (removing AC power), the SXM-100 will try to tune to the channel it was on before power was turned off. If there is some problem (see Display Advisories, page 40, Channel Unavailable), the unit will tune to channel 1, the Preview channel.

The internal microprocessor is always running, even when the unit appears to be off. If Forced Tune Events are programmed, the unit will be in a stand-by mode when it appears to be off. In this mode, the internal tuner module is powered up and receiving and decoding the signal from the satellite for the time information. This way, the unit will know the correct time so it can execute the next Forced Tune Event to turn on.

Parental Control

Whether using the SXM-100 in the home or business, there may be some channels which you wish to limit access to. They may have profane or graphic language or may simply not be desired or appropriate for your business. Channels which contain language which some people may find offensive have channel names beginning with “xL”. To prevent access to unwanted channels, there is a Restricted Mode function with passcode protection. The passcode is a 4 digit number entered with the remote control. Channels may be individually restricted by using the Channel Locking feature in the Setup menus. When a channel is marked as Locked and Restricted Mode is turned on, you will be prompted to enter the passcode if you try to tune to a locked channel. The channel cannot be tuned to until the correct passcode is entered. If the passcode is not entered within 10 to 15 seconds, the SXM-100 will ignore the channel change request and remain on the previously selected channel. If you enter an incorrect passcode, you will be prompted to try again. If you press any non-numeric key, the passcode entry will be aborted and the SXM-100 will remain on the previously selected channel. Once the passcode is entered, all locked channels will be accessible.
until the unit is powered off or put in standby mode. Restricted Mode may also be temporarily turned on and off at scheduled times using Forced Tune Events. This could be used to allow employees to access all channels after closing time, as an example.

Passcode security and convenience is a delicate balance. A new SXM-100 has the default passcode set to “1234”. You may change the passcode by using the Setup Passcode Menu. Of course, passcode entry is required to access this menu. Antex highly recommends you change the passcode from the default value and have a method of remembering it and keeping it safe. There is a passcode recovery method, in case you should forget the passcode. Antex has developed a system of passcode recovery which preserves the integrity of the passcode protection. Antex can issue a recovery passcode, but the recovery passcode is a cryptographic hash of both the SiriusXM Radio ID and the current date. This means there is NOT a universal “backdoor” password that would compromise the integrity of the whole system.

 Snape The recovery passcode issued by Antex will only work on that particular SXM-100 and only until midnight on the day it was issued and can only be used to change the passcode.

There is a registration process for the SXM-100 as well. We encourage you to register your SXM-100 and specify your passcode recovery restrictions to prevent unauthorized persons from requesting a recovery passcode. (Of course, if an unauthorized person uses a recovery passcode, you will know because they can only change the passcode and the previous passcode will no longer work.) By registering your SXM-100 with Antex, you can make the passcode recovery more secure by requiring the passcode only be sent as a text message to your phone, or only be sent to a certain email address, or by requiring security questions be answered in order to issue the recovery passcode. If an SXM-100 is not registered, Antex will give a recovery passcode to anyone claiming to be the rightful owner. If you wish to prevent this from happening, please register your SXM-100.
Setting Options Via Menus

The SXM-100 SETUP Mode allows you to configure options such as forced tuning, blocking, skipping, etc.

To enter the SETUP Mode, press and hold the MODE button on the front of the unit for 4 seconds or depress the SETUP button on the remote. The Setup indicator illuminates, and the menu shown below appears.

Navigating Setup Menus

The top level structure of the menu system is shown below and indicates which parameters may be configured. In Setup Mode, the channel up/down buttons on the unit or remote control are used to scroll though the menu options. The Mode button or Setup button on the remote is used to descend to a sub-menu, or to exit up to a higher level.

At the top level menu heading shown above, pressing the Mode button on the unit or remote control exits to normal unit operation. You must navigate back to this menu using the up/down keys for the Mode button to exit back to normal operation of the unit.

To exit Setup Mode quickly, (without having to navigate backwards), press the POWER button on the remote or front panel. This will work in all cases except when the second line of the display reads “PWR TOGGLES”. These are special submenus where the POWER button has to be used to toggle between “Y” and “N” because the up/down buttons are being used to change channel numbers.
SETUP MENUS
MODE TO EXIT

SETUP SIGNAL QUAL

SETUP SCROLL SPEED

SETUP LINE LEVEL

SETUP FRONT LOCK

SETUP TIME ZONE

SETUP DLT SAVING

SETUP CH LOCKING

SETUP CH SKIPPING

SETUP FORCE TUNING

SETUP SW VERSION

SETUP PASSCODE MNU

Wraps to beginning
Signal Quality

When Setup – Signal Quality is displayed, pressing the Mode button brings up the following menu:

```
SAT   TER
###%  ###%
```

This menu may also be displayed by holding the power button for 4 seconds when at the main display. Pressing the Mode button returns one menu level. Pressing the power button exits the setup menus to normal operation.

SAT indicates the quality of the satellite signal received from the SiriusXM satellites positioned in the southern sky over the equator. The higher the SAT percent number the better.

TER indicates the quality of the signal received from a terrestrial repeater, if there is one. This number may be as high as 100% if a repeater is nearby, to 0% if only the satellite signals are available.

Position and rotate the antenna for the optimum balance (highest readings) received from one or both signals. Obstructions such as trees or tall buildings may interfere with reception of one or both signals and require the antenna to be repositioned.

Scroll Speed

When “Setup – Scroll Speed” is displayed, pressing the Mode button brings up the following menu:

```
SCROLL SPEED
Press UP or
```

The message “Press UP or DOWN to change/ MODE when done/ POWER to abort” will scroll across the display. Pressing the UP button on the front panel or the up arrow on the remote will speed up the scrolling speed and pressing the DOWN button on the front panel or the down arrow on the remote will slow down the scrolling speed. Press the MODE button on the front panel or the Setup key on the remote when the scrolling speed is to your liking and the setting will
be saved in non volatile memory. If you press the POWER button on the front panel or the remote instead, the operation will be aborted and the scrolling speed will not be saved.

**Line Level**

When Setup – Line Level is displayed, pressing the Mode button brings up the following menu:

```
LINE LEVEL
+9 2.00VRMS
```

This setting adjusts the level of the audio outputs from 0.25VRMS to 2.0VRMS for compatibility with a wide range of commercial amplifiers. The maximum level is indicated on the right side of the display in volts RMS, and a relative number used for forced tuning (see page 31) is on the left side of the display.

The line maximum output level may be adjusted using the up/down buttons.

**Front Lock**

When “Setup – Front Lock” is displayed, pressing the Mode button brings up the following menu:

```
FRONT LOCK?
LOCKED
```

The buttons on the front of the SXM-100 unit may be locked or unlocked using this feature. Use the up/down buttons to switch between locked and unlocked. Locking the unit may be useful if a store manager or parent wishes to ensure the desired channel is not altered. When locked and a button on the unit is pressed, the word “LOCKED” briefly appears and no change is made to the current channel or power state.

Note that the remote control will still continue to operate normally, and therefore it must be secured for this lockout to be useful. The remote is also required to unlock the front panel – press the SETUP key on the remote to enter the Setup Menus allowing the front to be set to unlocked.
**Time Zone**

When “Setup – Time Zone” is displayed, pressing the MODE button brings up the following menu:

```
TIME ZONE
PACIFIC
```

Use the up/down keys to set the proper time zone and press the MODE key to ascend back up one menu level.

SiriusXM’s satellite transmission broadcasts time in Coordinated Universal Time (UTC). For local Forced Tune Events (see page 31) to work properly, the time zone in which the SXM-100 resides must be set so that local time can be derived from the broadcast UTC signal.

**Daylight Savings Time**

When “SETUP – DLT SAVING” is displayed, pressing the Mode button brings up the following menu:

```
SETUP DST
OBSERVE? Y
```

Use the up/down keys to select “Y” or “N” (Yes or No) to set the receiver to observe or not observe daylight savings time. Press the Mode key to go to the next submenu.

These settings are required for Forced Tune Events to function with correct local time.

**Channel Locking**

It is important to note that Channel Locking works in conjunction with Restricted Mode. Channel Locking as described in this section stores a map of which channels are to be locked when Restricted Mode is turned on. You can still tune to a locked channel if Restricted Mode is off by default, or temporarily turned off by entering the passcode. (See the section on Restricted Mode, page 37 and Parental Control, page 17.)
To access the Channel Locking feature, press and hold the MODE button on the front panel for 4 seconds or press the SETUP key on the remote control to enter the Setup menus. Use the UP or DOWN buttons to navigate to:

```
SETUP
CH Locking
```

Press MODE on the front panel or SETUP on the remote. You will be prompted for the passcode.

```
Enter Code:____
```

Enter the passcode with the remote control. You are now in the Channel Locking Submenu. The display should read:

```
CH Lock Menu
Mode to Exit
```

This is the entry and exit point of the submenu. If you press MODE again, you will exit back to the “CH LOCKING” prompt. Use the UP and DOWN buttons to navigate to the Channel Locking submenus. The submenus in the up direction are:

```
Lock Single Channels
Lock All Channels
Unlock All Channels
Lock All Skipped CH
```

**Lock Single Channels**

Lock Single Channels allows you to set the lock on or off for channels on an individual basis, or to scroll through channels...
to see if they are locked or not. The display will begin with the channel you are currently tuned to.

Use the UP and DOWN buttons to navigate to:

LOCK SINGLE CHANNELS

Press the MODE button on the front panel or the SETUP key on the remote control. You should see:

LOCK ###? N
PWR TOGGLES

The “###” will be the number of the channel you were tuned to before entering the Setup Menu. The “N” will be “N” or “Y” to indicate whether the channel is currently locked or not. Pressing the POWER button on the front panel or the remote control will toggle between “N” and “Y”. Your selection is saved automatically; there is not a separate save function.

Pressing the UP or DOWN buttons or using the up and down arrows on the remote control will allow you to move to other channels to review or change their locked status. Using the remote control, if you press and hold the up or down arrows, you can scroll through the channels.

When finished, press the MODE button on the front panel or the SETUP key on the remote control to exit.

**Lock All Channels**

This feature is used if you would like to lock most channels. For example, there may be only a few channels you wish to have in your business establishment which match the environment you want to create. It is much faster to then lock all channels and then use Lock Single Channels to unlock the channels you wish to use.

Use the UP and DOWN buttons to navigate to:

LOCK ALL CHANNELS
Press the MODE button on the front panel or the SETUP key on the remote control. You should see:

LOCK ALL CHANNELS

The UP and DOWN buttons on the front panel or the up and down arrows on the remote control will toggle between “Y” and “N”. If you wish to lock all of the channels, toggle to “Y”, then press the MODE button on the front panel or the SETUP key on the remote control. You will be returned to the previous menu, and all channels will be locked.

Unlock All Channels

This feature is a way to erase all channel locks.

Do not confuse this with turning off Restricted Mode to allow access to locked channels. Unlock All Channels will erase the internal list of locked channels.

Use the UP and DOWN buttons to navigate to:

UNLOCK ALL CHANNELS

Press the MODE button on the front panel or the SETUP key on the remote control. You should see:

UNLOCK ALL CHANNELS? N

The UP and DOWN buttons on the front panel or the up and down arrows on the remote control will toggle between “Y” and “N”. If you wish to unlock all of the channels, toggle to “Y”, then press the MODE button on the front panel or the SETUP key on the remote control. You will be returned to the previous menu.
Lock All Skipped Channels

Locking and Skipping are related functions. If you are skipping and locking most of the same channels, you can use this feature to copy the skipped channels to the locked channels so that you don’t have to enter them twice. Note that this is an additive function. Copying skipped channels to the locked channel map will lock all the channels that are currently flagged as skipped in addition to the channels that are already locked. This operation will not unlock any channels. Also note that this operation takes a snapshot. If you skip additional channels at a later time, you must perform this operation again to lock those additional channels.

Use the UP and DOWN buttons to navigate to:

LOCK ALL
SKIPPED CH

Press the MODE button on the front panel or the SETUP key on the remote control. You should see:

LOCK ALL
SKIPPED CH? N

The UP and DOWN buttons on the front panel or the up and down arrows on the remote control will toggle between “Y” and “N”. If you wish to add to the list of locked channels all of the channels which are currently listed as skipped, toggle to “Y”, then press the MODE button on the front panel or the SETUP key on the remote control. You will be returned to the previous menu.

Channel Skipping

Channel Skipping is different than channel locking. Skipped channels can still be tuned to by using the remote control and entering the channel number. Skipping Channels prevents them from being shown when scrolling up or down through the channels by using the UP or DOWN buttons on the front panel or by using the up or down arrows on the remote control. When scrolling to a locked channel, the artist and song title will not appear and instead there will be the text “RESTRICTED”, indicating the channel is locked. Note that locked channels are not automatically skipped. Channels must be marked as
skipped using this menu function. Channel skipping may also be used as a method of access control. For example, if the remote control is taken away, employees may only access channels which are not skipped using the UP and DOWN buttons on the front panel.

To access the Channel Skipping feature, press and hold the MODE button on the front panel for 4 seconds or press the SETUP key on the remote control to enter the Setup menus. Use the UP or DOWN buttons to navigate to:

```
SETUP
CH SKIPPING
```

Press MODE on the front panel or SETUP on the remote. You should see:

```
CH SKIP MENU
MODE TO EXIT
```

This is the entry and exit point of the submenu. If you press MODE again, you will exit back to the CH SKIPPING prompt. Use the UP and DOWN buttons to navigate to the Channel Skipping submenus. The submenus in the up direction are:

```
SKIP SINGLE CHANNELS
SKIP ALL CHANNELS
UNSKIP ALL CHANNELS
SKIP ALL LOCKED CH
```

**Skip Single Channels**

Skip Single Channels allows you to set the skip on or off for channels on an individual basis, or to scroll through channels
to see if they are skipped or not. The display will begin with the channel you are currently tuned to.

Use the UP and DOWN buttons to navigate to:

```
SKIP SINGLE CHANNELS
```

Press the MODE button on the front panel or the SETUP key on the remote control. You should see:

```
SKIP ###? N
PWR TOGGLES
```

The “###” will be the number of the channel you were tuned to before entering the Setup Menu. The “N” will be “N” or “Y” to indicate whether the channel is currently skipped or not. Pressing the POWER button on the front panel or the remote control will toggle between “N” and “Y”. Your selection is saved automatically; there is not a separate save function.

Pressing the UP or DOWN buttons or using the up and down arrows on the remote control will allow you to move to other channels to review or change their skipped status. Using the remote control, if you press and hold the up or down arrows, you can scroll through the channels.

When finished, press the MODE button on the front panel or the SETUP key on the remote control to exit.

**Skip All Channels**

This feature is used if you would like to skip most channels. For example, there may be only a few channels you wish to have in your business establishment which match the environment you want to create. It is much faster to then skip all channels and then use Skip Single Channels to unskip the channels you wish to use.

Use the UP and DOWN buttons to navigate to:

```
SKIP ALL CHANNELS
```
Press the MODE button on the front panel or the SETUP key on the remote control. You should see:

#### SKIP ALL CHANNELS? N

The UP and DOWN buttons on the front panel or the up and down arrows on the remote control will toggle between “Y” and “N”. If you wish to skip all of the channels, toggle to “Y”, then press the MODE button on the front panel or the SETUP key on the remote control. You will be returned to the previous menu, and all channels will be skipped.

### Unskip All Channels

Unskip All Channels will erase the internal list of skipped channels. All channels, including those channels which are locked, will then be visible when scrolling through the channels (channel browsing).

Use the UP and DOWN buttons to navigate to:

#### UNSKIP ALL CHANNELS

Press the MODE button on the front panel or the SETUP key on the remote control. You should see:

#### UNSKIP ALL CHANNELS? N

The UP and DOWN buttons on the front panel or the up and down arrows on the remote control will toggle between “Y” and “N”. If you wish to unskip all of the channels, toggle to “Y”, then press the MODE button on the front panel or the SETUP key on the remote control. You will be returned to the previous menu.

### Skip All Locked Channels

Locking and Skipping are related functions. If you are locking and skipping most of the same channels, you can use this feature to copy the locked channels to the skipped channels so that you don’t have to enter them twice. Note that this is an additive function. Copying locked channels to the skipped
channel map will skip all the channels that are currently flagged as locked in addition to the channels that are already skipped. This operation will not unskip any channels. Also note that this operation takes a snapshot. If you lock additional channels at a later time, you must perform this operation again to skip those additional channels, or use the Skip Single Channels function to add the additional channels.

Use the UP and DOWN buttons to navigate to:

```
SKIP ALL
LOCKED CH
```

Press the MODE button on the front panel or the SETUP key on the remote control. You should see:

```
SKIP ALL
LOCKED CH? N
```

The UP and DOWN buttons on the front panel or the up and down arrows on the remote control will toggle between “Y” and “N”. If you wish to add to the list of skipped channels all of the channels which are currently listed as locked, toggle to “Y”, then press the MODE button on the front panel or the SETUP key on the remote control. You will be returned to the previous menu.

**Forced Tuning**

Forced Tuning is an advanced feature for the commercial market that allows programmed events to occur throughout the day or week in an unattended manner. These events can program the unit to turn on or off, lock and unlock the front buttons, turn on or off Restricted Mode, change channel, and change volume. Up to 99 events may be programmed in the SXM-100.

† It is important to understand that Forced Tune Events are just that; they are events. The SXM-100 does not “know” what channel it is supposed to be on at any given time. Time is received over the satellite each minute. When this happens, the SXM-100 checks to see if there are any Forced Tune Events scheduled at that time. If so, the Forced Tune Event is executed. If someone is using the Setup Menus, Forced Tune
Events will be missed. Also, if the SXM-100 is not plugged in or the antenna is not connected, Forced Tune Events will not occur. Unless the front panel is locked, the channel can be changed from the Forced Tune channel manually.

It would seem that the whole point of Forced Tune Events is to have automated channel selection and to not allow any manual channel selection. Of course, you can use Forced Tune Events that way. However, you may wish to allow the forced tune channel to be over-ridden by a manual selection, but only at certain times of the day. For example, you may wish to have very strict control over the channel playing during customer business hours, but allow your employees to listen to different channels after closing time, while they are cleaning up. To accomplish this, there are 3 levels of locking with Forced Tune Events. These access levels work in conjunction with the Restricted Mode setting.

Note that the front panel locking changes are then stored in nonvolatile memory and remain in the changed state, even after power cycling. Restricted Mode changes are only temporary and do not change whether Restricted Mode is programmed on or off. Restricted Mode will return to its programmed state after power is cycled.

The locking modes behave as follows:

LK0, Restricted Mode On or Off: With this setting, the front panel is unlocked, and Restricted Mode is turned off (suspended). Using the UP and DOWN buttons on the front panel, the user can tune to any channel which is not marked as skipped. With the remote control, the user may tune to any channel, included those which have been marked as locked. Note that if Restricted Mode is programmed on, it is only temporarily suspended. The SXM-100 will revert back to Restricted Mode active (if programmed on) if the power is cycled (the SXM-100 is turned off and then back on again).

LK1, Restricted Mode On: With this setting, the front panel is unlocked. The user can press the UP and DOWN buttons on the front panel to access any channel which is not marked as skipped and not marked as locked. Using the remote control, the user will be able to tune to any channel that is not locked, and be able to tune to locked channels only if the passcode is entered.

LK1, Restricted Mode Off: With this setting, the front panel is unlocked. The user can press the UP and DOWN buttons on
the front panel to access any channel which is not marked as skipped. Using the remote control, the user will be able to tune to any channel. No passcode will be needed.

LK2, Restricted Mode On: With this setting, the front panel is locked. If you press the UP or DOWN buttons on the front panel, you will receive a “LOCKED” message. Using the remote control, the user will be able to tune to any channel that is not locked, and be able to tune to locked channels if the passcode is entered.

LK2, Restricted Mode Off: With this setting, the front panel is locked. If you press the UP or DOWN buttons on the front panel, you will receive a “LOCKED” message. Using the remote control, the user will be able to tune to any channel. No passcode will be needed.

Another way of looking at it, which may be clearer to some readers:

LK0: Least restrictive – front panel is unlocked, Restricted Mode is temporarily suspended.

LK1: Moderately restrictive – front panel is unlocked, Restricted Mode is left as is.

LK2: Most restrictive – front panel is locked, Restricted Mode is left as is.

Use of the provided remote control is required to review or program Forced Tune events. This functionality cannot be accessed from the front panel.

Programming Forced Tune Events using the remote control is somewhat cumbersome. Antex has a program that runs on a PC to program Forced Tune Events using the RS232 connection. Visit www.antex.com.

💡 Take advantage of the “wildcard” day of the week options, such as “M-F”, “M-Th”, and “All” when possible to avoid having to enter repeat Forced Tune Events on each day of the week. Also, individual days of the week have priority. For example, if you program channel 10 at 4:30PM, “All” days and also have a Forced Tune Event for channel 8 at 4:30PM “Wed”, the SXM-100 will tune to channel 8 on Wednesday and ignore the Forced Tune Event for channel 10 at 4:30PM on “All” days. On the other days except Wednesday, the SXM-100 will tune to channel 10.
When Setup – Forced Tuning is displayed, pressing the Mode button brings up the following sub menu structure:

```
FORCE TUNING
by Day&Time

FORCE TUNING
by Time

FORCE TUNING
by Channel

FORCE TUNING
Add New
```

The up/down arrows of the remote navigate through the first 4 menu selections displayed above. Pressing the SEL key on the remote (in the center of top button cluster) selects the displayed menu option and brings up a sub menu described below. Pressing the Mode button exits out of this function.

💡 Note that this behaves differently than other submenus where the MODE button will select the submenu, not exit out of the function.

The first 3 menu choices - Forced Tuning by Day&Time, Forced Tuning by Time, and Forced Tuning by Channel allow you to review previously set forced tune events sorted for display in 3 different ways. Each display method shows identical and complete information for each Forced Tune Event, only the order of events displayed is different between the 3 options. These options are provided to help manage advanced installations utilizing a large number of Forced Tune Events. Note that while reviewing an event, the various settings associated with the event may be changed or the event may be deleted.

The first display choice, Forced Tuning by Day & Time, displays Forced Tune Events sorted by day of the week first, showing events within each day sorted by time.
The second display choice, Forced Tuning by Time, displays Forced Tune Events sorted by time of day without consideration for what days of the week the event is in effect.

The third display choice, Forced Tuning by Channel, displays Forced Tune Events sorted by channel number without regard to any other parameter.

The final menu, Add New, allows you to add a new Forced Tune Event.

Selecting any of the 4 top level menu choices brings up the following display, with each field described in detail.

The left/right arrows on the remote move the cursor through the fields that can be changed. The settings for each of the fields are selected using the up/down keys on the remote.

The “channel number” field selects the channel number to tune to or one of several options.
Selecting an invalid channel will set the display to “???” and the cursor will not move off this field until a valid channel number is entered.

Selecting “*VOL” allows for a volume change applied to the current audio channel at the programmed time – a feature useful for decreasing the audio volume during slow hours of a restaurant or bar. Three levels of locking access to manual channel changing can be programmed with “*LK0”, “*LK1”, and “*LK2”. These options are explained in more detail above. Turning off the unit at a specified time (*Off) may also be programmed. Note that subsequent to a programmed “Off” period, any valid forced tune event to a channel will turn the unit back “On”. An existing event is deleted by choosing *DEL in this field.

When finished reviewing, adding, or deleting Forced Tune events with this menu, pressing the SEL button on the remote will prompt to save the changes. Selecting either Yes or No will return you to the Edit or Add New screen. Pressing the MODE button will exit and not save any changes.

Software Version

If you press the Mode key when the menu reads “SETUP – SW VERSION”, you should see a submenu similar to the following:

```
VER 7.00.003
```

Pressing the Mode key again will exit the submenu.

Passcode Menu

Certain features of the SXM-100 are protected from unauthorized access by a passcode. By default, as shipped from the factory, the passcode is 1234. To access these features, press and hold the MODE button on the front panel for 4 seconds or press the SETUP key on the remote control to enter the Setup menus. Use the UP or DOWN buttons to navigate to:
Press the MODE button on the front panel or the SETUP key on the remote control. The display should read:

Press the MODE button on the front panel or the SETUP key on the remote control to return to the previous menu, or use the UP and DOWN buttons on the front panel or up and down arrows on the remote control to navigate through the sub menus. In the up direction, they are:

Restricted Mode

Restricted Mode works in conjunction with Channel Locking. In order for a channel to be locked, Restricted Mode must be turned on and the lock for that channel must be set. In other words, the channel locks are set for individual channels, and Restricted Mode globally allows or denies access to all locked channels. When Restricted Mode is turned on, if you try to tune to a locked channel, you will be prompted for a passcode. If the correct passcode is entered, Restricted Mode will be temporarily suspended, and all locked channels will be accessible. Restricted Mode will stay suspended until the next time power is cycled.

⚠️ The unit will always power up or come out of standby with Restricted Mode active (locked channels inaccessible) if Restricted Mode is programmed in the following setup menu.
Use the UP and DOWN buttons to navigate to:

PASSCODE MNU
RESTRICTED M

Press the MODE button on the front panel or the SETUP key on the remote control. The display should read:

ENTER CODE:____

Enter your 4 digit passcode with the remote control. You should now see:

RESTRICTED MODE ON? Y

The “Y” may be an “N”. This is showing you the current status of Restricted Mode. “Y” means a passcode is required to tune to locked channels, an “N” means locked channels may be tuned to without a passcode. The UP and DOWN buttons on the front panel or the up and down arrows on the remote control will toggle between “Y” and “N”. If you wish to require the passcode to access all locked channels, toggle to “Y”. If you want access to the locked channels without a passcode then toggle to “N”. Then press the MODE button on the front panel or the SETUP key on the remote control. You will be returned to the previous menu.

**Change Passcode**

Use this sub menu to change the passcode from the “1234” that is the default to whatever 4 digit code you want. This is the only setup function you can access using a recovery passcode obtained from Antex. Use the UP and DOWN buttons to navigate to:

PASSCODE MNU
CHANGE CODE
Press the MODE button on the front panel or the SETUP key on the remote control. The display should read:

```
ENTER
CODE:____
```

Enter your 4 digit passcode with the remote control. You should now see:

```
Enter your new code using the remote control. If you press any non numeric key on the remote control, the operation will be aborted and you will return to the Change Code prompt. After you enter the new passcode, you will be prompted to confirm the new passcode by re-entering it.

```
```
CONFIRM NEW
CODE:____
```

Re-enter the same passcode again. Pressing any non numeric key will abort the operation. If the passcode entered does not match, you will receive a message:

```
PASSCODES DON’T MATCH
```

After 2 seconds, you will be brought back to the Enter New prompt. If the confirmation is successful, you will return to the Change Code prompt.
**Restore to Defaults**

This option will restore the SXM-100 to the factory default settings. **CAUTION:** This will erase all presets and set them to channel 1, erase all Forced Tune Events, reset the passcode to 1234, erase all channel locks and all channel skip indications. It will set the time zone to eastern time, daylight savings time observed, Restricted Mode off, and front panel unlocked. Use the up and down buttons to navigate to:

```
PASSCODE MNU
RST TO DFLTS
```

Press the MODE button on the front panel or the SETUP key on the remote control. The display should read:

```
ENTER
CODE:____
```

Enter your 4 digit passcode with the remote control. You should now see:

```
RESTORE FCT.
DEFAULTS? N
```

The UP and DOWN buttons on the front panel or the up and down arrows on the remote control will toggle between “Y” and “N”. If you wish to restore the SXM-100 to factory default conditions, toggle to “Y”, then press the MODE button on the front panel or the SETUP key on the remote control. The unit will be restored and you will be returned to the previous menu. If you toggle to “N” and press the MODE button on the front panel or the SETUP key on the remote control, you will be returned to the previous menu without any changes occurring.

**Display Advisories**

When certain conditions arise, you may see some of the following advisory messages on the display.
<table>
<thead>
<tr>
<th>Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHECK ANTENNA</td>
<td>The SXM-100 has detected a fault with the SiriusXM antenna. The antenna cable may be either disconnected or damaged. Verify that the antenna cable is plugged into the back of the SXM-100. Inspect the cable for damage and kinks. Replace the antenna cable if damaged. Check any in-line amplifiers or splitters if used. SiriusXM products are available online at <a href="http://www.shop.siriusxm.com">www.shop.siriusxm.com</a>. This is different from “NO SIGNAL” because the SXM-100 is not detecting the characteristic current draw of a connected antenna.</td>
</tr>
<tr>
<td>NO SIGNAL</td>
<td>The tuner is having difficulty receiving the SiriusXM satellite signal. Verify the placement of the antenna. Move the antenna away from any obstructions. Inspect the antenna cable for damage and kinks. Replace the antenna if the cable is damaged. Check any in-line amplifiers or splitters if used. This is different from “CHECK ANTENNA” because the SXM-100 is detecting the characteristic current draw of a connected antenna, but there is no usable signal. (see “Positioning the Antenna” page 8)</td>
</tr>
<tr>
<td>SUBSCRIPTION UPDATED-</td>
<td>The radio has detected a change in your SiriusXM subscription status. Press the UP button to clear the message. In the U.S.A., visit <a href="http://www.siriusxm.com">www.siriusxm.com</a> or call 1-866-635-2349 if you have questions about your subscription. In Canada, visit <a href="http://www.siriusxm.ca">www.siriusxm.ca</a> or call 1-877-438-9677 if you have questions about your subscription.</td>
</tr>
<tr>
<td>PRESS UP TO CONTINUE</td>
<td></td>
</tr>
<tr>
<td>CHANNEL ### UNAVAILABLE</td>
<td>The channel you have requested is not a valid SiriusXM channel or the channel that you were listening to is no longer available. Visit <a href="http://www.siriusxm.com">www.siriusxm.com</a> for more information about the SiriusXM channel lineup. The SXM-100 will fall back to channel 1 if this occurs on the channel you were listening to.</td>
</tr>
<tr>
<td>CHANNEL ### UNSUBSCRIBED</td>
<td>The channel that you requested is not included in your SiriusXM subscription package or the channel that you were listening to is no longer included in your subscription package. In the U.S.A., visit <a href="http://www.siriusxm.com">www.siriusxm.com</a> or call 1-866-635-2349 if you have questions about your subscription package or would like to subscribe to this channel. In Canada, visit <a href="http://www.siriusxm.ca">www.siriusxm.ca</a> or call 1-877-438-9677. The SXM-100 will fall back to channel 1 if this occurs on the channel you were listening to.</td>
</tr>
<tr>
<td>CHANNEL ### LOCKED</td>
<td>The channel that you have requested is Locked by the radio Parental Control feature. See the section on Parental Control, page 17 for more information on the Parental Control feature and how to access locked channels.</td>
</tr>
</tbody>
</table>
Using the Remote Control

The SXM-100’s remote control provides identical functionality to the buttons on the front panel.

- **CHANNEL (UP/DOWN)**
  - Tune to specific channels.

- **CATEGORY (LEFT/RIGHT)**
  - Tune to specific audio categories such as Country, Rock, Hits, Decades, Jazz, News, and more.

- **MODE**
  - Press number to select operating Mode.

- **NUMERIC**
  - Tune directly to specific channels (punch in the channel number, then press SEL) and to tune to preset channels (10 per zone).

- **PRESET**
  - Press before selecting a NUMERIC button to tune to a preset channel.
  - Hold before selecting a NUMERIC button to set a preset channel.
DB9 Aux Data Connector - Integration with Distributed Audio Control Systems

There is a DB9 connector on the rear of the SXM-100 which can be used to control an external relay, communicate with distributed audio systems, program Forced Tune Events, or update the firmware via connection to a PC.

The SXM-100 has been designed for easy integration into distributed audio systems by professional installers using the RS232 control port. An external relay, which powers on and off with the SXM-100, can be operated via this connector to power on and off other equipment, such as a PA amplifier. This is especially useful if you are using Forced Tune Events. When a Forced Tune Event turns off the SXM-100 at the end of the day, it will turn off the PA amplifier automatically. Antex strongly recommends that the RS232 connection be used only by experienced professional installers.

See www.antex.com for more information about using the RS232 control port, command sets, and available macros for third party control systems.

Technical Assistance

For service inquiries or activation/deactivation information, in the U.S.A., visit www.siriusxm.com or call 1-866-635-2349 and in Canada, visit www.siriusxm.ca or call 1-877-438-9677.

Technical assistance with the radio is available from Antex via:

email: asupport@antex.com
Web: www.antex.com
Phone: (310) 532-3092, ext 17, 8AM to 5PM PDT
12 Month Limited Warranty

Antex Electronics Corporation (the Company), warrants to the original purchaser of this product that should this product or any part thereof, under normal use and conditions, be proven defective in material or workmanship within 12 months of the original date of purchase, such defect(s) will be repaired or replaced with a new product (at the Company’s option) without charge for parts and labor.

To obtain repair or replacement within the terms of this Warranty, the product is to be delivered with proof of warranty coverage (i.e. dated sales receipt), specification of the defect(s), and transportation prepaid to the Company at the address shown below.

This Warranty does not extend to the elimination of externally generated static or noise, to correction of antenna problems, to costs incurred for installation, removal or reinstallation of the product, or damage to other components.

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

This Warranty is in lieu of all other express warranties or liabilities. ANY IMPLIED WARRANTIES, INCLUDING AN IMPLIED WARRANTY OF MERCHANTABILITY, SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. ANY ACTION FOR BREACH OF ANY WARRANTY HEREUNDER INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY MUST BE BROUGHT WITHIN A PERIOD OF 12 MONTHS FROM DATE OF ORIGINAL PURCHASE. IN NO CASE SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WHATSOEVER. No person or representative is authorized to assume for the Company any liability other than expressed herein in connection with the sale of this product.
Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damage so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights and may also have other rights, which vary from state to state.

Antex Electronics Corporation
19160 Van Ness Avenue
Torrance, CA 90501
(310) 532-3092