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SIRIUS

Satellite Music for Your Business

Business Equipment Package
Owner's Manual and Installation Instructions

Limited Warranty

Applied Media Technologies Corporation ("AMTC") warrants this product against defective material and workmanship for a period of one year from the date of purchase. Except as specified below, this warranty covers parts and labor. The following are not covered by this warranty:

1. Damage, deterioration, malfunction or failure to meet performance specifications resulting from:
>   a) Accident, acts of nature, misuse, abuse, neglect or unauthorized product modification.
>   b) Improper installation, removal or maintenence, or failure to follow the instructions contained in the manual.
>   c) Repair or attempted repair by anyone other than AMTC.
>   d) Any shipment of this product (claims must be presented to the carrier).
>   e) Any cause other than a product defect.
2. Cleaning, initial setup, check-ups with no defects found, or charges incurred for installation, removal or reinstallation of the product.
3. Any product on which the serial number has been defaced, modified or removed.
4. Accessories, including but not limited to, cables, mounting shelves or stands, detachable power cords, and timer units.
5. Any product purchased outside the U.S.A., its possessions or territories.
6. Compatibility of this product with any particular interface.

This warranty may be enforced only by the original purchaser. In the event this product needs service, contact AMTC at 1.800.741. AMTC (2682). We will advise you of proper procedure. Please do not return the product to AMTC without prior authorization. Whenever warranty service is required, you may be required to present original proof of purchase.

All implied warranties, including warranties of merchantability and fitness for a particular purpose, are limited in duration to the length of this warranty. Liability for any defect is limited to repair or replacement of this product at the option of AMTC. AMTC shall not be liable for damage to other products caused by defects in this product, damages based on inconvenience or loss of use of this product, or any other damages, whether incidental, consequential or otherwise.

Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. This warranty is enforceable only inside the U.S.A., its possessions and territories.

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 authority to operate the equipment if an unauthorized change or modification is made.

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 in a residential installation. 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 unit on and off, the user is encouraged to try to correct the interference by one or more of the following measures:
Reorient or relocate the receiving antenna.
Increase the separation between the equipment and receiver.
Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
Consult AMTC for further technical assistance.

Check Package Contents:

Receiver (Model EQ-SIRRCV) - Box includes:
     Mounting cradle
     120VAC to 7.4VDC 1.2A wall adapter
     6-ft.stereo audio cable with 3.5mm stereo plug and dual RCA plugs
     25cm dual RCA female to single RCA male (stereo to mono) adapter cable
     RCA female to 1/4" male mono adapter
     Earbuds
Commercial antenna (Model EQ-SIRANT)
100 ft. low-loss commercial coaxial antenna cable (Model EQ-SIRCBL)

Placement and Mounting of the Antenna

You will need the following to complete the installation:
• electric drill
• 3/8" drill bit suitable for the construction material used in the exterior walls of your building (e.g.; masonry, metal, wood, etc.)
• (4) 3/16" fasteners suitable for the construction material used in the exterior walls of your building
• driver bit for selected fasteners
• caulk

1. Determine antenna mounting location. The best location for your antenna is on the roof of your building. If this is inconvenient, acceptable reception may often be achieved by mounting the antenna on an exterior sidewall. Due to the unique paths of the SIRIUS satellites, the proper sidewall will depend on where you are located. Please reference the following chart to identify the optimum antenna placement:

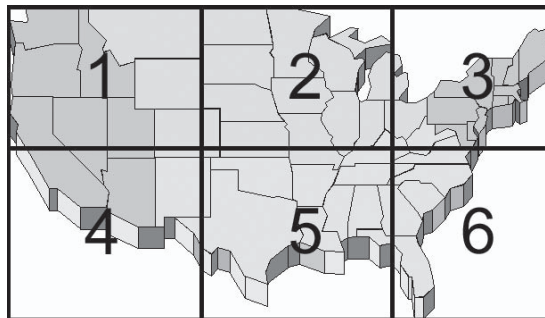Area 1: Place the antenna at an EAST-FACING sidewall.
Area 2: Sidewall mounting not recommended. Antenna should be mounted on roof away from any obstructions.
Area 3: Place the antenna at a WEST-FACING sidewall.
Area 4: Place the antenna at a NORTH or EAST-FACING sidewall.
Area 5: Place the antenna at a NORTH-FACING sidewall.
Area 6: Place the antenna at a WEST or NORTH-FACING sidewall.

Remember that SIRIUS Satellite Radio is a LINE OF SIGHT technology. There must be a clear view from the antenna to the satellite, with no blockage by surrounding buildings, dense trees, etc.

As an alternative to mounting the antenna to a flat surface using fasteners, the antenna is designed to easily mount to an existing 1 3/4" diameter antenna mast. Pole clamps are provided for this purpose.

NOTE: Do not permanently attach your antenna immediately. Because the SIRIUS satellites orbit over the United States, it is possible that an antenna placement that achieves good signal strength at one time of day will not maintain good signal strength at other times of the day. Monitor signal strength for at least one full day before making your antenna placement permanent.

2. Uncoil the 100 ft. low-loss coaxial antenna cable and attach to the connector on the underside of the antenna using the THREADED plug.

3. Drill a hole 3/8" in diameter in the building exterior to allow the antenna cable to be routed into the building. Once the excess cable is pulled inside the building, caulk around the cable to create a water-tight seal.

4. Plug the NON-THREADED plug on the antenna cable into the receptacle labeled ANT on the back of the mounting cradle. If you must increase the distance between the antenna and the receiver, we stock 50-foot amplified extension cables (AMTC P/N EQ-SIR50X) for $39.95 (+ $5.00 S/H). Up to two of these may be daisy-chained together for a total extension of 100 feet.

Positioning the Receiver and Connecting to Your Amplifier

The receiver should typically be positioned as close as possible to the amplifier into which it will be connected. The provided audio cable is 6 feet long. If you prefer to position your receiver further than 6 ft. from your amplifier, we stock inexpensive 25-foot audio extension cables, as well as couplers to "daisy-chain" the extension cables. Our labs have tested daisy-chaining four extension cables, for a length of 100 feet, with no noticeable loss of signal. Call AMTC at 800-741-AMTC(2682) for further information or to order.

Connect the 3.5mm stereo plug on the provided audio cable to the receptacle labeled "AUDIO" on the right side of the mounting cradle.

3.5mm stereo plug

If your amplifier is stereo:
Connect the dual RCA plugs of the provided audio cable into the L and R auxiliary inputs of your amplifier. Do NOT connect to the PHONO input.

dual RCA plugs

If your amplifier is mono:
Connect the dual RCA plugs of the provided cable into the dual jacks of the provided 25cm dual RCA female to single RCA male (stereo to mono) adapter cable:

25cm dual RCA female to single RCA male (stereo to mono) adapter cable

Connect the single RCA plug into the RCA input jack of your amplifier. If your amplifier has a 1/4" input jack, use the provided RCA female to 1/4" male mono adapter:

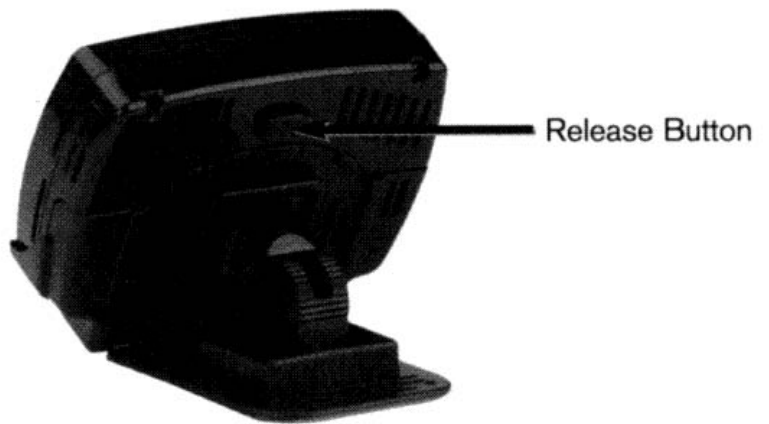RCA female to 1/4" male mono adapter

Connecting Power

A 7.4VDC 1.2A power adapter is provided with the tuner. The adapter should be plugged into the jack labeled "DC7.4V" on the left end of the back of the mounting cradle, and into 110-120 VAC wall power. Avoid using a circuit also powering any heavy equipment or appliances, particularly air conditioners or refrigeration equipment. We highly recommend that you use a quality surge protection device to protect your receiver.

Inserting/Removing the Receiver Into/From the Mounting Cradle

To insert the receiver into the mounting cradle, gently slide the receiver straight down onto the mounting cradle's connector pin until it clicks into place.

To remove the receiver from the mounting cradle, gently press the release button on the back of the receiver and pull the receiver straight up out of the cradle.

Release Button

Receiver Controls

Button	Duration of Press	Function
numbers (0-9)	short	selects preset channel (preset band 1)
		(after selecting preset bands 2 or 3) selects preset channel (in selected band)
		(after selecting direct channel entry mode) selects channel
	Long	sets current channel as preset for pressed button (preset band 1)
		(after selecting preset bands 2 or 3) sets current channel as preset for pressed Button (in Selected band)
mem/s-seek		
menu	short	(when displaying main menu) exits main menu
	short + "1"	sets lock mode
	short + "2"	sets skip mode
	short + "3"	toggles channel and category modes
	long	displays main menu
displ	short	toggles expanded/condensed display
power (blue center dome)	short	(when power off) turns power on
		(when artist/song displayed) displays channel list
		(when menu or list displayed) selects highlighted item
	long	(when power on) turns power off
< > (on sides of power button)	short	scrolls up/down in displayed menu or list
<category>	short	scrolls up/down through channel categories
direct/preset	short	toggles through direct channel select mode and preset channel banks
		input 000 in direct channel select mode to display Sirius ID
		toggle through favorite lists (when favorite lists displayed)
	long	displays favorite list

Activating your SIRIUS Satellite Music for Your Business Subscription

Turn the receiver on by pressing the blue lighted POWER button. If the unit is installed incorrectly, the receiver may read "ANTENNA ERROR". If this happens, unplug power from the unit and double check the antenna cable connections. If the error message continues after verifying good cable connections, this may indicate poor antenna placement. Please revisit "Placement and Mounting of Your Antenna on Page 3. For assistance, call AMTC Technical Support at 800-741-AMTC(2682) between the hours of 9am to 5pm EST. If the unit is installed correctly, the receiver will automatically receive the SIRIUS Satellite Radio signal. You will see on the display "UPDATING STREAMS" (0%, 20%, 40%, 60%, 80%, 100%). During this process, please do not press any buttons. Once the streams are updated, the screen will change to the PREVIEW Channel 184. On this channel, you will see the message "Call 1-888-539-SIRIUS to Subscribe." **DO NOT CALL THIS NUMBER - THIS NUMBER IS NOT FOR BUSINESS SUBSCRIPTIONS! Call AMTC at 800-741-AMTC(2682).** When you call, you will need the SIRIUS ID number of your tuner. This number is available in 3 places:
By directly selecting channel 000 (press "direct/preset" and "000")
OR
On the box the receiver was packaged in (look for a bar code number starting with the letters SID)
OR
On the label on the back of the receiver (look for a bar code number starting with the letters SID).

Basic Operation

Within a few hours from the time you call us to activate your SIRIUS Satellite Music for Your Business subscription, your receiver will be activated via satellite and will then be able to receive any of the 65 commercial-free SIRIUS music channels (or a few less if you have selected the "Restricted" programming option). In order for activation to occur, your receiver must be left ON. Once activated, the main display of the receiver will show the following information:

Category	Preset Bank
Channel # Channel Name	
Artist Name	
Song Title	
Signal Strength Date / Time	

Selecting Channels

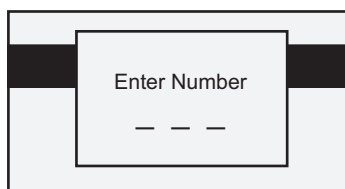You can select SIRIUS channels by the following methods:
1. Use the < > buttons (on each side of the blue power button) to move up or down through the channels.
2. Press the power button to enter CHANNEL VIEW (displays a list of channels). Use the < > buttons to move the highlight bar up or down through the list. Once the channel you wish to select is highlighted, press the power button again to select it. In this mode, you can press the DISPL button to enter ARTIST VIEW (displays a list of the artists currently playing on each channel). Pressing the DISPL button again changes to SONG VIEW (displays a list of the songs currently playing on each channel). Pressing the DISPL button again changes back to CHANNEL VIEW.

Channel View	Srtist View	Song View
001 Channel Name	001 Artist Name	001 Song Name
002 Channel Name	002 Artist Name	002 Song Name
003 Channel Name	003 Artist Name	003 Song Name
004 Channel Name	004 Artist Name	004 Song Name

3. Use the <category> button to move up or down through the channel categories. Once you arrive at the category you desire, use the < > buttons to move the highlight bar up or down through the list of channels. Once the channel you wish to select is highlighted, press the power button again to select it.
4. Press the direct/preset button. The display will show "ENTER CHANNEL NUMBER." At this point, use the 0-9 buttons to enter a channel number. Once entered, the unit will automatically change to that channel 2 seconds after the last digit has been entered.

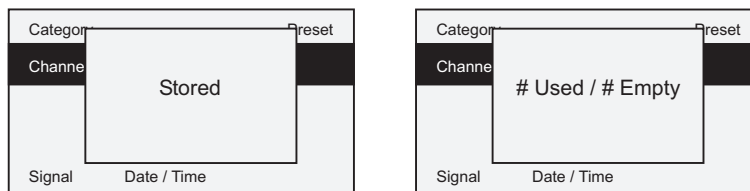| Enter Number |
|---|
| _ _ _ |

Setting Preset Channels

Once you have selected a channel, you can store the channel as a preset. 30 presets total can be stored in the receiver - 10 presets in each of three preset banks (B1, B2, and B3). To access Bank 2 and Bank 3, repeatedly press the **direct/preset** button until you see the desired bank in the top right of the display.

To store a preset channel, press and hold the **0-9 button** where you would like to save the preset. If you store a preset in the 1st preset location of Bank 1, you will see in the top left of the display B1-1.

Favorite Songs (S-Seek Function)

The S-Seek Function allows the user to store and search for 10 favorite songs whenever the receiver is powered on.

When a song is playing that you wish to store as a favorite, press and release the **mem/s-seek** button. This will store that song in memory. The display will confirm that the song has been stored, and will then indicate how many of the 10 available favorite song positions have been used/are available.

Category		Preset
Channel	Stored	
Signal	Date / Time	

Category		Preset
Channel	# Used / # Empty	
Signal	Date / Time	

If you wish to view a list of the stored favorite songs, press and hold the **mem/s-seek** button for 3 seconds. The first song will be displayed on the screen. Use the **< >** buttons to scroll through the list of stored favorite songs.
To delete the song from the favorite song list, press the **power** button. "DELETE" will be highlighted on the display. Press the **power** button again. Use the **< >** buttons to highlight "YES" to delete the favorite song or "NO" to return to the display of the favorite song.
You can activate or deactivate S-SEEK for each of the stored favorite songs. S-SEEK is on by default when you store the song in memory. To turn it off, press the **power** button. "DELETE" will be highlighted on the display. Use the **< >** buttons to highlight "S-SEEK". Press the **power** button again. Use the **< >** buttons to highlight "OFF" to cancel S-SEEK for this song. Select "ON" to re-activate S-SEEK for this song.
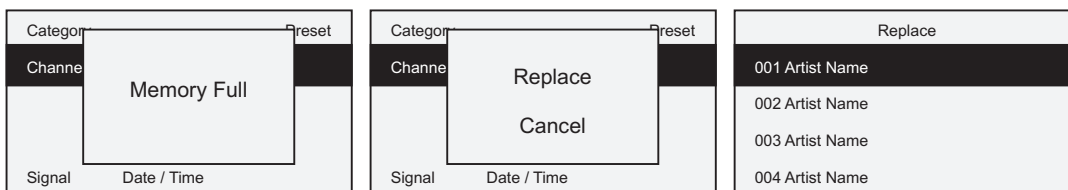
When the receiver is powered on, it will actively search (S-SEEK) for the songs you have stored as favorites while you listen to other channels. If it finds one of the stored favorite songs playing on another channel, you will hear a short alert tone and the display will show the name of the stored favorite song. From here, you can press the OK button to change to that song. If you select nothing, the display will return to normal mode after 10 seconds.

Category		Preset
Channel	S-SEEK Alert	
Signal	Date / Time	

The S-SEEK memory holds 10 songs. If you try to store a song and the memory is full, the display will show MEMORY FULL. The option to "Replace" a song or "Cancel" the store function will appear.
Select "Replace" to store the current song over an older song. The list of store songs will appear. Use the **< >** buttons to select the old song you wish to replace and press the **power** button.

If you do not want to replace any songs, select "Cancel", and the unit will return to normal mode.

Category		Preset
Channel	Memory Full	
Signal	Date / Time	

Category		Preset
Channel	Replace	
	Cancel	
Signal	Date / Time	

Replace
001 Artist Name
002 Artist Name
003 Artist Name
004 Artist Name

Main Menu Options

To enter the main menu, press and hold the **menu** button for 3 seconds. A menu of options will appear. To select an option from the main menu or any sub-menu, use the **< >** buttons to highlight the option, and then press the **power** button. To exit any menu repeatedly press the **menu** button until you are returned to the main screen OR press nothing and the system will return to the main screen after 10 seconds.

The main menu options are as follows:

CHANNEL MODE: This is the default mode for the the **< >** buttons. When this option is selected, the **< >** buttons move through all channels in numerical order, through all categories.

CATEGORY MODE: When this option is selected, the **< >** buttons move through the channels in numerical order only within the selected category.

SETUP PASSWORD: Selecting this option will prompt you to "ENTER CURRENT PASSWORD". The default password is 1379. To change the password, enter the default password using the **0-9 buttons**. You will then be asked to change your password and confirm the change. If you forget your new password, you can reset it by selecting the FACTORY DEFAULT option in the main menu (see below).

FM TRANSMITTER: Allows you to use the built-in FM transmitter to transfer sound into your amplifier using one of the listed frequencies (select a frequency not used by a broadcaster in your area). Choices include: FM OFF, 88.1, 88.3, 88.5, 88.7, 88.9, 106.7, 106.9, 107.1, 107.3, 107.5, 107.7, 107.9. If you are connecting the receiver to the amplifier using the audio cable, this setting must be OFF.

TIME FEATURES: This menu has three sub-menus:

> CLOCK: This menu has three sub-menus:
>
>> FORMAT: Select 12 or 24 hour format for the time of day display.
>>
>> TIME ZONE: Select your time zone to ensure the time of day is correct. NOTE: The receiver clock is automatically updated by the SIRIUS satellite.
>>
>> DST OBSERVANCE: Select ON or OFF based on whether Daylight Savings Time is observed in your area.
>
> AUTO SHUTDOWN: Automatically turns off power to the receiver after 1 hour. Select ENABLE or DISABLE.
>
> SLEEP MODE: Automatically turns the receiver off after a selected amount of time. Select OFF, 15, 30, 45, or 60 minutes.

SYSTEM: This menu has two sub-menus:

> AUDIO LEVEL: Raises or lowers the audio output from the receiver to match your sound system levels.
>
> DISPLAY OPTIONS: This menu has two sub-menus:
>
>> DIMMING CONTROL: Changes the brightness of the display.
>>
>> CONTRAST: Adjusts the contrast of the display.

CLEAR ALL MEMORY: Clears stored favorite songs for the S-Seek function and all 30 manually-stored presets. Select YES to use the feature or NO to return to the main menu.

FACTORY DEFAULT: Restores all menu options to factory default. Select YES to use the feature or NO to return to the main menu.

Feature Shortcuts

Some features can be quickly accessed by using the **menu** button and a **0-9 button** in combination. To access the features, press and release the **menu** button and then press:

1 - to LOCK a channel. You will be asked for your password. Once the channel is locked, you must enter the password before you can reselect the channel. To unlock the channel, select the channel, enter your password, press and release the **menu** button, and press and release **1**.

2 - to SKIP a channel. You will be asked for your password. Once the channel is skipped, you will not see it in the numeric channel order when you use the tuning arrows. It is only selectable via direct channel access. To restore the channel, directly select the channel, press and release the **menu** button, then press and release **1**, then enter your password.

3 - to change from Channel Tuning to Category Tuning. To change back, press and release the **menu** button, then press and release **3**.

Troubleshooting

If there is no power to the unit:

Make sure wall outlet is receiving power (plug in another device). Check power cable connection. Check that receiver is correctly inserted into mounting cradle.

If you've connected your receiver to your amplifier but there is no sound :

Make sure the amplifier input selector is set to the input to which you've connected the receiver.
Connect the provided earphones to the AUDIO jack to confirm that the receiver has output. If there is no output to the earphones, check to ensure that the FM TRANSMITTER setting of the receiver is set to OFF. If there is output to the earphones, recheck the connections of your audio cable. Many people confuse RCA jacks/plugs with 3.5mm mono jacks/plugs. Mismatched jacks/plugs may appear connected, but no audio connection will be made.

IN THE EVENT YOU HAVE QUESTIONS OR PROBLEMS:

Call AMTC's Support Department at 1.800.741.AMTC(2682). If it is necessary that your player be returned for service, a Support Engineer will issue to you a Return Merchandise Authorization ("RMA"). DO NOT ATTEMPT TO RETURN YOUR TUNER WITHOUT AN RMA. IT WILL NOT BE ACCEPTED.