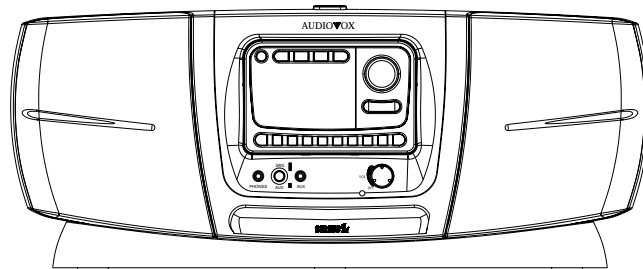




AUDIOVOX®
ELECTRONICS CORP.

SIRIUS 

SHUTTLE BOOM BOX SIR-BB1 User Guide



128-6945

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Congratulations

You are one step closer to experiencing Sirius Satellite Radio. Sirius will revolutionize your in-home, vehicle, and family outing entertainment such as camping trips and beach excursions. Sirius entertainment will revolutionize your listening enjoyment with:

- 100 streams of original programming, including –
 - 60 streams of completely commercial-free music – guaranteed.
 - 40 streams of news, sports and entertainment
- Coast-to-Coast reception and Digital-quality sound

All music content is selected and developed in-house by Sirius' team of Master Music Programmers – talented and seasoned professionals who love the music as much as the listeners. World-class partners such as ESPN, ABC, CNBC, Bloomberg, Discovery and Radio Disney are developing news, sports and entertainment programming.

Your Audiovox Boom Box must be used with Shuttle Receiver Model SIR-PNP1 or SIR-PNP2 (sold separately). Optional kits are available at retailers where Audiovox main units are sold.

Audiovox Home Kit: SIR-HK1

Audiovox Vehicle Kit: SIR-CK1 (With FM Modulator)

Audiovox Vehicle Kit: SIR-CK2 (Without FM Modulator)



FCC Regulations

This unit complies with the interference limits relative to a Class B digital device, applicable under Part 15 of the FCC Rules regarding installation in a residential environment. If the unit is not installed in accordance with these instructions, it could cause harmful interference to audio or television reception.

If this condition persists after corrective action, consult your dealer or experienced installation facility.

Cautions and Warnings

1. Within the home, do not install the Shuttle Boom Box in a position that obstructs viewing of any home entertainment component, such as Television, or stereo system indicators and displays.
2. Do not install or use the SIR-BB1 in locations exposed to direct sunlight, or in areas subject to extreme temperatures; do not operate the unit in moist areas, in rain, or in areas adjacent to water such as pools, hot tubs, etc.
3. When outdoors, position the SIR-BB1 and antenna where there are no obvious satellite signal obstructions such as high terrain, trees, overhangs, etc.
4. When installed indoors, unplug the AC Power Adapter from the wall outlet when the SIR-BB1 is not to be used for an extended period of time. If batteries are installed, set the Power On/Off-VOL control to the Off position to prevent unintentional battery discharge, or remove the batteries.
5. To avoid possible damage to the Shuttle Boom Box caused by battery leakage, it is recommended that the batteries be removed when the Boom Box is not being used for an extended period of time.
6. Do not install or place the SIR-BB1 on an inclined or unstable surface.
7. By adhering to these warnings and safety considerations, serious accidents and/or personal injury can be avoided.

Contents SIR-BB1

User/Install Manual

P/N 1286945



1 pc.

Antenna

(P/N 118C1125)



1 pc.

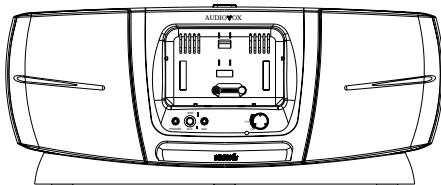


AC/DC Power Adapter
(P/N 136C3585)

AC Power Cord

1 pc.

Boom Box
(P/N SIR-BB1)



1 pc.

Installation/Wiring Precautions

1. If using the adapter, make sure the adapter cable is not connected to an AC wall outlet until all interconnections have been made and verified. The adapter power cable should be connected last.
2. Incorrect installation may cause damage to the system.
3. During antenna placement/installation, refer to the Antenna Aiming procedure outlined in the Shuttle User Guides, SIR-PNP1(1286812) or SIR-PNP2 (1286901).

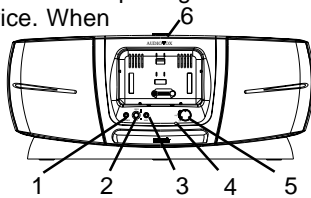
Setting Up and Installing Your Kit

NOTE: The SIRIUS® signal can be received and processed virtually anywhere as long as there are no obvious satellite signal obstructions such as high terrain, trees, overhangs, etc. However, signal reception depends mainly on where you are, geographically, and where this place is with respect to the orbital paths of the Sirius satellites. In placing the antenna, therefore, these factors must be taken into account .

Boom Box SIR-BB1 Controls

The Audiovox Sirius® Boom Box SIR-BB1 provides two control buttons, a Power On/Off -Volume control, and a pushbutton to toggle between Satellite Radio or an auxiliary audio input signal. A power-on LED is also located on the front panel.

1. **PHONES Jack:** Accepts a stereo headphone jack to provide private listening capability for the Boom Box.
2. **SRS/AUX Selector Pushbutton:** Pushbutton toggles between Satellite Radio and an external audio input signal (MP3, CD, etc.) present at the AUX input jack.
3. **AUX Jack:** Accepts an audio input signal from an external audio device. When using the AUX audio input, turn the Shuttle off to preserve battery power. Adjust the volume level of the external audio device to obtain an audio output from the SIR-BB1. The volume control on the external audio device should be set to mid-range.

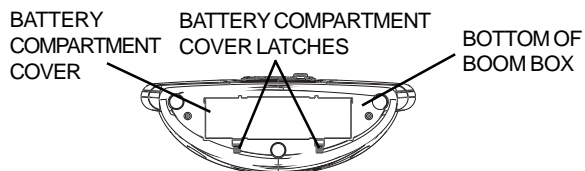


4. **Power On/Low Battery LED:** The LED lights green when the Power On/Off Switch-VOL control is rotated clockwise (CW) to the On position. In addition, the LED will light red to alert the user that the batteries are nearly discharged. This condition may cause degraded performance of the SIR-BB1.
5. **Power On/Off Switch-VOL Control:** Applies power to the Boom Box when rotated clockwise (CW) from the Off position. When in On position, increases or decreases the volume of the audio output signal from the SIR-BB1. To increase the volume level, rotate the control CW. To decrease the volume level, rotate the control counterclockwise (CCW).
6. **Release Button:** Press this button to release and remove the Shuttle from the SIR-BB1 cradle.

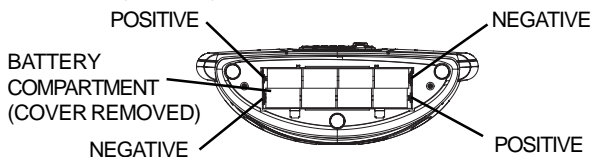
1. Battery Installation

Your Boom Box can operate independently of AC power by installing 8 D-Cell batteries as follows:

NOTE: The batteries are bypassed automatically whenever the supplied AC Adapter is plugged into the DC 12V jack on the back panel.



1. Turn the Boom Box upside down to access the battery compartment.
2. Push the battery cover latches forward and flip up the battery compartment cover to the open position.
3. Insert eight (8) D-Cell batteries observing battery polarity as shown; then close the cover.



2. Cabling Interconnections

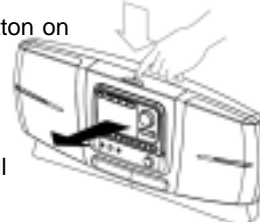
You can begin to enjoy Sirius® Satellite Radio as soon as the Shuttle and Boom Box Kit installation are complete. Set up your Audiovox SIR-BB1 by following the interconnect diagram.

3. Installing the Shuttle in the SIR-BB1

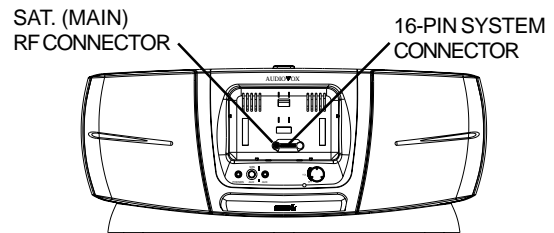
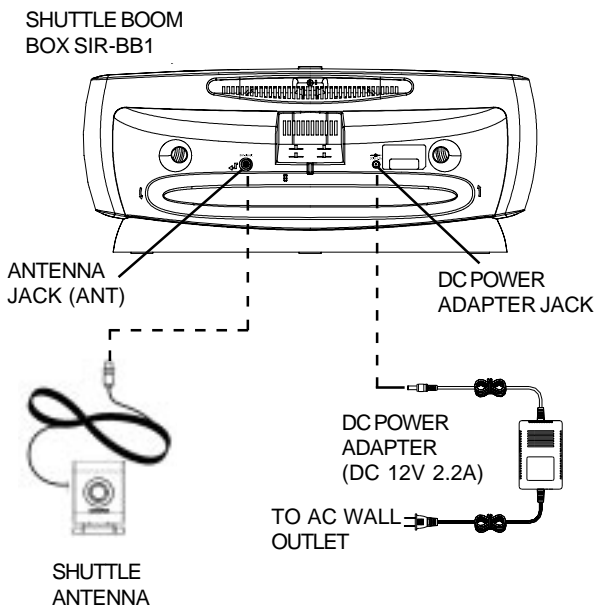
Place the Shuttle in the cradle so that the Shuttle guides are lined up with the SIR-BB1 cradle. Then push the Shuttle forward to engage the connectors. The Shuttle will snap into place. Apply power to the SIR-BB1 by rotating the VOL control clockwise from the off position; the LED indicator lights green. If the Shuttle does not turn on at the same time, press the red Power On/Off button in the upper left corner of the Shuttle front panel.

4. Removing the Shuttle From the SIR-BB1

Press and hold the eject button on top of the Boom Box; the Shuttle will partially eject forward. Using your thumb and forefinger, grasp the Shuttle on the sides and pull forward to disengage.



Interconnect Diagram



5. Installing/Positioning the Antenna

For best reception, the supplied antenna should be placed near a window if in the house or, if outdoors, in an open area and as high as possible; some repositioning may be required to achieve optimum results. The following guidelines are recommended:

- a. In a major city, where Sirius ground repeaters are present, you can usually place the antenna away from a window and still achieve the desired results.
- b. You can also place the antenna outside (on the roof structure), provided it is clear of any overhead obstructions. Because of the orbiting characteristics of the Sirius Satellites, the strength of the received signal may change over

time. In most cases however, the signal should be available continuously. If you experience a loss of signal or audio, reposition the antenna inside the home or outside as necessary.

6. Antenna Placement Considerations

The antenna should be placed on a relatively flat surface whenever possible. When outdoors, the antenna may be left in its mount atop the Boom Box provided no overhead obstructions are present.

To mount the antenna:

- a. Plug the antenna into the ANT connector on the back of the SIR-BB1.
- b. Leave the antenna in place on the Boom Box, or remove the antenna from its mount, uncoil the antenna lead, and place it at the preferred location inside or outside the home. If no audio is heard, move the antenna to different positions on the surface until an audio output is heard. This is the desired antenna position and, if indoors, should be marked.
- c. After determining the optimum position, turn off SIR-BB1 and Shuttle power. Disconnect the power adapter from the wall outlet receptacle (if indoors) and disconnect the antenna cable.
- d. Plan the routing of the antenna cable to the SIR-BB1 ANT input when indoors. Make sure you avoid any obstructions that could crimp, kink or twist the cable; use protective grommets wherever rough openings are encountered. If the antenna is mounted outside, route the cable from the antenna position to the interior of the home, working the cable through the basement, under a window sill, etc.; make adjustments and take up slack whenever necessary.
- e. If outdoors, either leave the antenna in place atop the SIR-BB1, or remove the antenna and find a location free from overhead obstructions such as tree branches, or the roof of a tent or other temporary shelter.
- f. Plug the antenna cable into the ANT connector on the back of the SIR-BB1.
- g. If not using battery power as the primary power source, plug the female end of the DC adapter cable into the DC 12V receptacle on the rear of the SIR-BB1.
- h. Plug the other end of the DC adapter cable into a 110-volt receptacle. Apply power to the Boom Box and Shuttle.
- i. You are now ready to enjoy Sirius programming outdoors or within your home.

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Specifications

Nominal Output Power per Channel	5.0 Watts Rms
Total Harmonic Distortion (THD)	0.3% at 1 Watt
Frequency Response	30Hz to 20kHz
Signal-to-Noise Ratio	>65dB Maximum
Speaker Impedance	8 Ohms Nominal
Headphone Output Impedance	32 Ohms
Headphone Output Level	500 mV (Maximum)
Headphone Connector Type	3.5 mm Stereo Jack
Auxiliary Input Impedance	6K-Ohms Nominal
Auxiliary Input Level	2.0 Volts (Maximum)
Auxiliary Connector Type	3.5 mm Stereo Jack
Equalizer Frequency	-6dB Nominal at 2.5kHz
Overall SIR-BB1 Dimensions	19" W x 6.9" D x 7.8" H 484.9mmW x 175.68mmD x 198.36mmH
Overall AC Adapter Dimensions	3.5" L x 1.3" H x 2.36" W 90mmL x 33.5mmH x 60mmW
SIR-BB1 Weight	5.88 Lbs. (2670 Grams)

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Maintenance

Periodic Inspection

The SIR-BB1 Boom Box should be inspected periodically for external damage. At least once every 30 days of use, perform the following checks:

1. Inspect the 16-pin Shuttle connector for loose, bent or broken pins, misalignment, etc.; make sure the SAT connector is intact and exhibits no apparent damage.
2. Check the VOL control for freedom of motion without binding of any kind.
3. Check that the SRS/AUX Selector pushbutton operates correctly in that it toggles between the Satellite Radio output and the AUX input.
4. Make sure the antenna connector at the rear of the unit is free from damage of any kind and that the antenna lead plug mates correctly and securely.
5. Make sure the DC 12V connector at the rear of the unit is also free from damage of any kind and that the AC Adapter plug mates correctly and securely.
6. Check the antenna for any physical damage; make sure the antenna lead is secure and not nicked or frayed.
7. Inspect the overall Boom Box case and speaker grilles for damage such as nicks, scratches punctures, etc.

Cleaning the SIR-BB1 Boom Box

When cleaning the Boom Box, make sure the AC Adapter is unplugged from the power source. Do not use liquid cleaners or aerosol cleaners. Use a lint-free cloth lightly dampened with water for cleaning the exterior of the Boom Box only.

Troubleshooting

FAULT	PROBABLE CAUSE	REMEDY
System does not turn on	Shuttle power is set to off	Turn Shuttle power on using the Shuttle Power on/off button
	Batteries not installed or installed incorrectly	Install batteries observing correct polarity
SIR-BB1 does not operate using batteries	As long as the AC power connector is attached to the rear panel of the SIR-BB1, battery operation is disabled	Remove power connector from rear panel of SIR-BB1
Intermittent operation	Low battery level	Replace batteries
ANTENNA ERROR message	Satellite antenna not connected to SIR-BB1 rear panel	Connect satellite antenna to SIR-BB1 rear panel
	Shuttle not firmly seated in cradle	Press the Shuttle lower left and right sides to ensure that the connectors are firmly mated
ACQUIRING SIGNAL message	Check for obstacles over or around antenna	Change location to eliminate nearby obstacles (bridges, etc.)
No sound from SIR-BB1 speakers	Headphones installed	Remove headphones
	SRS/AUX Selector pushbutton is in incorrect position	Press button for desired audio signal (Satellite Radio (SRS) or AUX input)



12 MONTH LIMITED WARRANTY

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

To obtain repair or replacement within the terms of this Warranty, the product is to be delivered with proof of warranty coverage (e.g. dated bill of sale), specification of defect(s), transportation prepaid, to an approved warranty station or 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 to damage to tapes, compact discs, speakers, accessories, or vehicle electrical systems.

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

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