



## Spiritbox P-SB7 Rev8 Temperature Display ITC Research Radio Instruction Manual

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## OPERATING INSTRUCTIONS

Please read and follow this instruction manual carefully before using the P-SB7 and retain it for future reference.

## SAFETY INSTRUCTIONS

THE IMPORTANT SAFETY INSTRUCTIONS SHALL INCLUDE, IF AND AS APPLICABLE TO THE P-SB7. THE USER OF THIS DEVICE IS ENCOURAGED TO READ EACH ITEMIZED ARTICLE CAREFULLY PRIOR TO USE.

1. Read instructions – All the safety and operating instructions should be read before the P-SB7 is used.
2. Retain instructions – The safety and operating instructions should be retained for future reference.
3. Follow instructions – All Instructions and Warnings pertaining to the P-SB7 should be adhered to.
4. Water and Moisture – To prevent water infiltration, the P-SB7 should not be used near water or in the rain.
5. Heat – The P-SB7 should be situated away from heat sources such as radiators, heat registers, stoves or other appliances (including amplifiers) that produce heat.
6. Power Sources – The P-SB7 should be connected to a power supply only of the type described in the operating instructions or as marked on the device.
7. The P-SB7 can be easily wiped off using a dry soft cloth. Never spray or wet the surface.
8. Telescopic Antenna – Keep the antenna away from all electrical sources, including receptacles, fuse and circuit breaker panels. Do not bend or twist the antenna. Always retract the antenna when not in use.
9. Outdoor Antenna Grounding – If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and any built up static charges.
10. Non use Periods – The P-SB7 batteries should be removed when left unused for a long period of time.
11. Damage Requiring Service – The P-SB7 should be serviced by qualified service personnel when:
  - A. Objects have fallen, or liquid has been spilled on to the device; or
  - B. The P-SB7 has been exposed to rain;

or

**C.** The unit has been dropped, or the enclosure damaged.

12. Servicing – The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to DAS Distribution, Inc. service personnel. Contact via email at [tsales@dasdistribution.com](mailto:tsales@dasdistribution.com)

## **ON PLACEMENT**

Do not use the unit in places which are extremely hot, cold, dusty or humid.

Place the unit on a flat and even surface to prevent it from falling or being dropped.

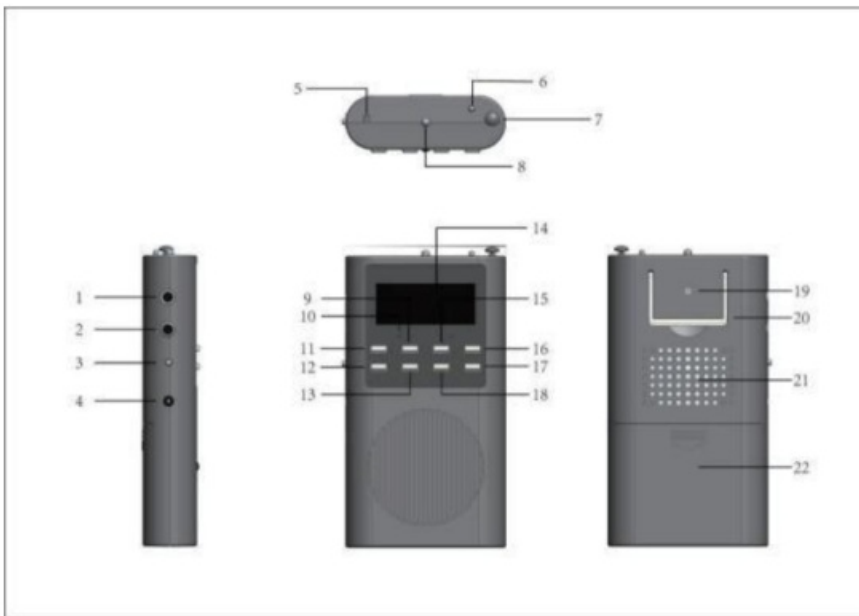
## **ON CONDENSATION**

When left in a heated room where it is warm and damp, water droplets or condensation may form inside the unit. When there is condensation inside the unit, the unit may not function normally.

Let it stand for 1 to 2 hours before turning the power on, or gradually heat the room up and dry the unit before use.

## **FUNCTIONS AND CONTROLS**

1. Earphone Jack
2. Speaker output Jack
3. Temperature reset button(Ambient/Deviation) selection/BT
4. DC 4.5V Jack
5. Safety Lanyard
6. Temperature Sensor
7. Telescopic Antenna
8. Lamp
9. Sweep FWD+
10. Power/BT indicator
11. Sweep rate/Spirit Response Enhancement
12. Backlight on/off/Lamp on/off
13. Sweep REV-
14. LCD display
15. VOL+
16. AM/FM switch/degree C/degree Fs witch
17. Power
18. VOL-
19. Buzzer hole
20. Stand
21. Speaker
22. Battery door



## POWER SOURCE

The P-SB7 operates using 3 X “AAA” (UM-4) size Alkaline batteries (Batteries Not Included). It can also operate using an AC/DC 4.5Vdc adaptor from AC120V/60Hz power supply.

### A. DC POWER OPERATION

1. Open the battery door (#22) located at the back of the P-SB7.
2. Insert 3 X AAA (UM-4) size Alkaline batteries according to the polarity diagram in the battery compartment
3. Close the Battery Door (#22)

#### 4. **IMPORTANT:**

Be sure that the batteries are installed correctly. Wrong polarity may damage the unit. Never mix Alkaline, standard (carbon-zinc) or rechargeable (nickel cadmium) batteries together. If the unit is not to be used for an extended period of time, remove the batteries. Old or leaking batteries can cause damage to the unit and may void the warranty.

### B. AC/DC ADAPTER

1. Connect the 115V AC to DC Adapter (Excluded) to the DC 4.5V Jack (#4) on the side of the unit.
2. Connect the other end of the AC/DC Adapter to a wall outlet with AC120V/60Hz power supply.

## RADIO RECEPTION

1. Press POWER Button (#17) for 2 seconds to turn on the P-SB7. The device will default to the radio band which you set previously.
2. Set the Band Selector (#16) to either “AM” or “FM” for the desired radio band.
3. Adjust the VOL.+ (#15) or VOL – (#18) to obtain the desired sound level.
4. When you wish to turn off the P-SB7, press the POWER Button (#17) for 2 seconds.

## TIPS FOR GOOD RADIO RECEPTION

1. To insure maximum FM tuner sensitivity, the Telescopic Antenna (#7) should be fully extended and rotated to obtain the best possible reception.
2. When tuning in AM reception, be sure to place the unit in a vertical position. To insure the maximum AM sensitivity, try repositioning the unit until the best reception is obtained.

## **SWEEP FUNCTION**

### **SWEEP RATE**

The SWEEP RATE controls how quickly the unit increments through each individual frequency step and the Spirit response enhancement feature.

**The following individual sweep rates shown below, can be selected by the user**

AM-50ms, 100ms, 150ms, 200ms, 250ms, 300ms, 350ms FM-50ms, 100ms, 150ms, 200ms, 250ms, 300ms, 350ms

When using the SWEEP function, press the SWEEP RATE Button

(#11) to select the desired sweep rate. The actual rate is displayed in ms (milli-second) on the LCD display.

### **SWEEP FWD**

Press the SWEEP FWD button (#9) for 3 seconds to begin the sequential sweep of all frequency channels starting from the lowest frequency to the highest frequency.

Press the SWEEP FWD button (#9) again to stop the SWEEP. You can also press the SWEEP FWD button quickly to select an individual frequency.

### **SWEEP REV**

Press the SWEEP REV button (#13) for 3 seconds to begin the sequential sweep of all frequency channels starting from the highest frequency to the lowest frequency.

Press the SWEEP REV button (#13) again to stop the SWEEP.

Press the SWEEP FWD button quickly to select an individual frequency.

### **Note:**

The adjustable, incremental Sweep rate is an important feature of the P-SB7. Utilize this feature to determine the amount of "dwell" time for each frequency step.

## **Bluetooth Connection & Disconnection**

### **Bluetooth Connection**

Press the TEMP RESET/BT button(#3) for 3 seconds and the power led indicator (POWER/BT) (#10) turns from red to blinking blue light, this means it is waiting for Bluetooth connection. When the power led indicator becomes a constant blue light, it means that the Bluetooth connected and paired with other device successfully.

## Important Note:

During the initial (first) pairing of the Bluetooth with your device, there will be a delay of 60 seconds. Once the initial pairing is successful, all subsequent connections with the same device will occur within 10-15 seconds.

## Bluetooth Disconnection

Press the TEMP RESET/BT button(#3) for 3 seconds again, and the power led indicator (POWER/BT) (#10) will turn from blue to a red light. This indicates that the Bluetooth connection with your device has been turned off.

## Temperature Measurement with Digital Display

The P-SB7 can measure and display ambient room temperature variations with user selectable degree C/F. In addition, the P-SB7 also features a unique temperature deviation measurement feature which allows the user to “baseline” at zero and monitor +/-temperature (warm/cool) changes within the environment. Press the TEMP RESET button(#3) located on the left side of the P-SB7 to toggle between the Ambient /Deviation temperature displays.


1. Allow the temperature sensor (located near the antenna) about 2-3 minutes to stabilize within the environment. Be sure not to touch the sensor with your finger to prevent any false readings.
2. Press the AM/FM momentary button(#16) for 2 seconds to switch between degree F to degree C or from degree C to degree F.
3. Press the TEMP RESET momentary button located on the left side of the P-SB7 to baseline (zero) to the environment temperature. The temperature display will now read “0.0”. The P-SB7 will now monitor and track any +/- ambient temperature deviation changes within the environment. Press the TEMP RESET momentary button again to revert back to the ambient temperature display.

**Note:** Keep your hand, fingers and other heat sources away from the bead style temperature sensor located on the top of the P-SB7.

Be aware that subtle temperature changes within the environment caused by air currents or positional changes can cause the temperature display to change, which is normal. When this happens and you suspect that it is not related to your activity, press the TEMP RESET button to baseline and recalibrate.

## Safety Emergency Flashlight

The P-SB7 has a built-in, high intensity mini (white) flashlight which provides easy navigation through hallways,

stairwells and other difficult locations. To activate the Flashlight press the  (#12) for 2 seconds. To deactivate the Flashlight press the same button again for 2 seconds.

The Flashlight circuit is independent of the P-SB7 Spirit Box, and can be turned ON/OFF without the P-SB7 being ON

## Safety Lanyard

To prevent accidental drops, a Safety Lanyard has been added for your convenience.

## USING EARPHONE or HEADPHONE

Inserting the plug of your headphones into the EARPHONE Jack (#1) will enable you to listen to the frequency

sweep in private.

When using headphones, the internal Speaker (#21) will be interrupted.

## **READ THIS IMPORTANT INFORMATION BEFORE USING**

### **YOUR HEADPHONES**

1. Avoid extended play at very high volume as it may impair your hearing.
2. If you experience ringing in your ears, reduce the volume or shut off your unit.
3. Do not use while driving a motorized vehicle. This is dangerous and also illegal in some areas.
4. Keep the volume at a reasonable level even if your headset is an open-air type designed to allow you to hear outside sounds. Please note excessively high volume may still block outside sounds.

### **CARE AND MAINTENANCE**

1. Clean your unit with a damp (never wet) cloth. Solvent or detergent should never be used.
2. Avoid leaving your unit in direct sunlight or in hot, humid, or dusty places.
3. Keep your unit away from heating appliances and sources of electrical noise such as fluorescent lamps or motors.

### **FCC Warning**

FCC STATEMENT This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:


1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna. —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 the dealer or an experienced radio/ TV technician for help.

FCC Radiation Exposure Statement: The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction

### **Documents / Resources**

<div><div>MODEL P-SB7 Spirit Box Rev8</div><div>SPRIT BOX WITH TEMPERATURE</div><div></div><div>OPERATING INSTRUCTIONS</div><div><small>Printed and sold by ITC Research Radio, Inc. All rights reserved. No part of this publication may be reproduced without written permission from ITC Research Radio, Inc.</small></div></div>	<p><a href="#">Spiritbox P-SB7 Rev8 Temperature Display ITC Research Radio</a> [pdf] Instruction Manual P-SB7, P-SB7 Rev8 Temperature Display ITC Research Radio, Rev8 Temperature Display ITC Research Radio, Temperature Display ITC Research Radio, Display ITC Research Radio, ITC Research Radio</p>
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References

- [User Manual](#)

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