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BOSE WAVE® RADIO I, II, III TROUBLE SHOOTING GUIDE

Refer to the Bose Wave Radio service manuals, part numbers 174794, 191911 and 191514, for schematics, PCB layouts and part list. Unit identification: BWR I, 2 AA battery backup, full AM external antenna. BWR II, 3 AA battery backup, no AM external antenna. BWR III, 9V battery backup.

Symptom	Check
Hammer Operation	1. Check for fractured solder joints on AC connector J11. BWR I and II: J11. BWR III: J11. 2. BWR I: Check for fractured solder joints at interconnects between display and main PCB. 3. Check for fractured cold solder joints on CD2 and CD1.
Unit inoperative	1. Check for open fuse F1. 2. Check for open J11. 3. Check for fractured solder joints on AC connector J11. 4. Check R801 for open. Replace with 1 Ohm, 120W fusible resistor, part number 195400-195. See Service Bulletin 191911-02. 5. BWR I and II: Check C4. Replace with part number 140248. See Service Bulletin 191514-05. 6. Fuzzing sound when unplugged. Check transistor Q43. 9V supply for display.
Remote control does not work or does not work in some locations	1. Check IR diode. 2. Reconnect spring interference magnet to the diode. Replace the IR sensor with IR sensor part number 197205. Connect a 1uF capacitor and part number 149945 IRDA across R422. 3. Connect the positive side of the cap to the base of Q43 and the negative side to the ground side of R422. See Service Bulletin 174794-04. 4. Check speaker and antenna cables.
Volume goes to 99 when the customer uses the remote at high volume	BWR I: Place a 1uF capacitor, 149945-TRC1, in parallel with R422. See Service Bulletin 174794-02. BWR II: Place a 2.2uF capacitor, part number 178212-225, in parallel with R13. See Service Bulletin 191514-05.
Floor FM reception when connected to cable	1. Check for fractured solder joint on F connector J109. 2. Remove CD to disconnect the power cord from the front end. The power cord is used as an antenna. When connected to cable, there are two paths for the signal that is fed to the front end. This can cause interference. See Service Bulletin 174794-05.
No or poor FM	1. BWR I and II: Check X101. BWR III: Check X100. 2. BWR I and II: Check C111. 3. Align front end, see service manual for procedures. 4. Use FM antenna. Check voltage at CD25. CD26. Should be 12V on pin 2, 0V on pins 1 and 3.
Floor AM Reception	1. Could be caused by dimmer switch connected to the same circuit. Remove CB for LIS receptors and CD for European versions. See Service Bulletin 191911-01. 2. BWR I and II: In some units the PLL has low stability margin. Replace C131, change R136 to 22 Ohm, change R103 to 3k Ohm. See Service Bulletin 174794-01. 3. BWR I and II: Fractured solder joints on internal AM antenna. 4. BWR I: Fuzzing in 5 Ohm, change R455 to 5 Ohm. F 455B is 1 Ohm. Change R455 to 5 Ohm. This change will only be noticeable at low listening levels. See Service Bulletin 191911-01.
100-megahertz or distortion at low listening levels	BWR I: Check for fracture of cold solder joints on CD2 and CD1. BWR II: R133 might be the wrong value. It should be 33k Ohm. See Service Bulletin 191911-01. BWR III: On display PCB, change C426 to 1000uF/30V. Replace jumper Y313 with a 10 Ohm, 1Watt resistor.
Hum or buzz when the display does not work	1. BWR I: Ensure electrolytic capacitors are the correct value (PCB and batteries are fully charged). 2. BWR I: Check R451 and R103. BWR II: R103. 3. BWR I: Check for going into thermal protection due to the lack of thermal compound on heat sink. Replace U501 if it is a 7918-enc with 1075-enc part number 191911-01.
No output after unit has been on for a period of time	BWR III: Check for -9V or 0V, check for solder bridges on fusible-resistor connector J441.

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