

BKSB-1010A Issue Date 1-4-02

Issue: Insufficient audio output of GPH.

Affected Models: All Pre-Flash BK Radio G-Series portables.

To determine if t your radio has a Flash processor, press and hold the 1 key. Flash units will display the Firmware revision number. Non-Flash units will not.

Recommended Action: To increase the audio output of your GPH Portable, install the necessary modifications listed below.

NOTE: If Step Two or Three is installed Step One <u>MUST</u> be performed. Step One can be performed on all GPH portables. Step Two can be performed on all GPH portables with R61 as a 2.2 Ohm resistor. Step three can only be performed on radios with Rx/Tx board 602-765 Rev. C.

Step #1 Speaker Replacement

Parts and Equipment Requirements:

1- JEMA Speaker; P/N 1301-20034-702.

(JEMA speakers will be marked "JNR-04506N-A1521")

- 1 Low wattage soldering iron suitable for surface mount repair.
- 1 Phillips head screwdriver; #0 tip.

Procedure:

- 1. Turn off radio and remove battery.
- 2. Disassemble radio.
 - a) Remove 4 screws from rear cover of radio. (Fig. 1)
 - b) Pull front radio assembly straight out.
 - c) Check marking on speaker. (JEMA speakers will be marked "JNR-04506N-A1521". If the speaker has this marking modification is not necessary.)
 - d) Remove the five screws holding in the Options board and gently disconnect from keyboard. (Fig. 2)
 - e) Remove screws holding white speaker clip and remove speaker. (Fig. 3)
 - f) Unsolder the wires connected to the speaker.
 - g) Install and solder new speaker. (P/N 1301-20034-702) NOTE: Be sure to re-insulate the connection.)
 - h) Reinstall speaker clip and Options Board.



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Step #2

Options Board Resistor Replacement NOTE: New Speaker (P/N 1301-20034-702) MUST be installed before performing this step.

Parts and Equipment Requirements:

1- 0 Ohm surface mount resistor; P/N 4718-50317-140.

1 - Low wattage soldering iron suitable for surface mount repair.

Procedure:

- 1. Verify value of R61. (Fig. 4)
- 2. If R61 value is 000 continue to the next step.
- 3. If R61 value is 2.2 Ohm, replace with 0 Ohm resistor (P/N 4718-50317-140).

Step #3

Rx/Tx Board Resistor Replacement

NOTE: New Speaker (P/N 1301-20034-702) MUST be installed before performing this step.

Parts and Equipment Requirements:

- 1- 3.3K Ohm surface mount resistor; P/N 4724-00332-233.
- 1 Low wattage soldering iron suitable for surface mount repair.

Procedure:

- 1. Verify value of Revision of Rx/Tx board. (Fig. 5)
- (This step is only valid for 602-765 Rev. C circuit boards.)
- 2. If R104 value is 3.3K Ohm continue to the next step.
- 3. If R104 value is 1.8K Ohm, replace with 3.3K Ohm resistor (P/N 4724-00332-233).

Step #4 Reassemble Unit

Parts and Equipment Requirements:

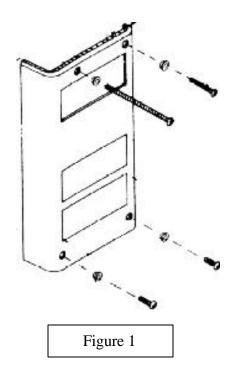
1 - Phillips head screwdriver; #0 tip.

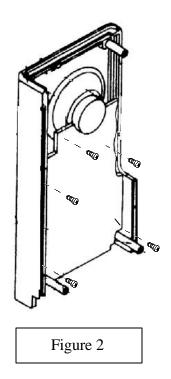
Procedure:

1. Re-install back cover.



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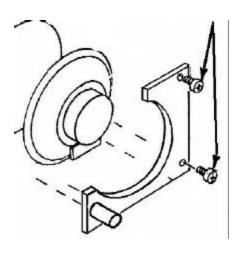
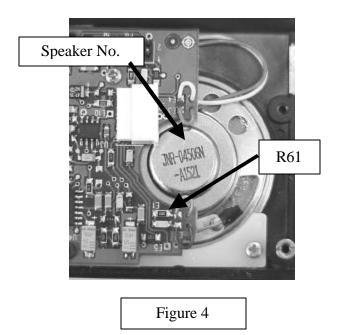
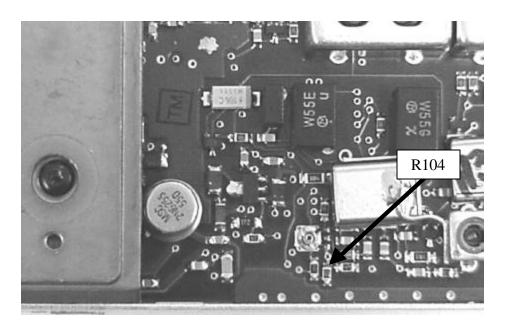


Figure 3





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NOTE: If R104 is not present where shown this step cannot be performed.

Figure 5