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# Service Bulletin

BKSB-1011  
Issue Date 11-19-01

**Issue:** Limited access to base station power supply fuse.

**Affected Models:** All GBH and GBV Base Stations received prior to November 19, 2001.

**Recommended Action:** If external fuse access is desired install the modification described below, contact your BK Radio Service Center or contact the RELM Wireless Service Department.

**NOTE:** A parts kit for this modification may be obtained from the RELM Wireless Service Department at 1-800-422-6281

## Parts and Equipment Requirements:

- 1 - Fuse holder w/ nut, P/N 2100-00000-003
- 1 - Fuse 5A, P/N 5106-00000-008
- 1 - 1/4" diameter heat shrink, 1/2" length, P/N 3102-30743-603
- 1 - 2' Stranded 18GA wire (Orange), P/N 6018-30392-304
- 1 - 1/8" diameter heats shrink, 1/2", length P/N 3102-00000-004
- 3 - Cable tie 3/8", P/N 6005-50216-803
- 1 - Low wattage soldering iron.
- 1 - Phillips head screwdriver; #0 tip.
- 1 - Torque head screwdriver, #9 Apex
- 1 - Needle nose pliers

## Procedure:

1. Remove the 8 cover screws from GBH/GBV chassis. Set aside wrap and screws. (Fig. 1)
2. Remove the 16 screws holding the chassis shield. Set aside screws and shield. (Fig. 2)

### 3A. If GBH/GBV with LZA2027 Tone Board:

- a. Remove the two screws that hold the top board from main board of tone option. Pull out the board and set aside the board and the two screws. (Fig. 3)
- b. Remove the four screws that hold the main board of the tone panel and the cardboard spacer from the chassis. Set aside the carton spacer and screws. (Fig 4)

**3B. If GBH/GBV without LZA2027:**

Remove the four screws that hold the carton spacer from chassis. Set aside screws and carton spacer. (Fig. 4)

4. Remove the following cable assembly from power supply board. (Fig 5)

- a. Unplug the DC cable assembly from radio.
- b. Unplug the switch cable assembly from power supply board.

5. Remove the four screws that hold the power supply from chassis. Set aside screws and partially pull out the power supply board from chassis. (Fig. 5)

6. Remove the 6.3 Amp fuse from power supply. Pull out fuse using long nose pliers.

7. Remove the fuse holder (two) from power supply. Unsolder holders one at a time. Remove solder form holes.

**Parts Preparation** *(Not required if parts kit was supplied by RELM Wireless)*

1. Cut 2 pieces 1.0 ft long each of 18GA Orange wire. Strip and tin both ends of wire.  
P/N 6018-30392-304

2. Cut 1 piece 1/2" long of 1/4" and 1/8" diameter shrink tubing.  
P/N 3102-30743-603, P/N 3102-00000-004

**Assembly Procedure**

1. Open up the hole at the back of the chassis where the new fuse holder will be installed. (Fig. 6)

2. Install the fuse holder (P/N 2100-00000-003) into the chassis using the nut provided and install the fuse (P/N 5106-00000-008) inside the fuse holder. (Fig. 7)

3. Solder one end of 18GA wire to the inside hole where one of the fuse holder in the power supply board was removed. (Fig. 8)

4. Insert the wire into the 1/4" shrink tubing and solder the other end to the center terminal of new fuse holder. Slide the shrink tubing over the solder connection and heat to shrink. (Fig 7)

5. Solder one end of the second 18GA wire to the outside hole where the fuse holder in the power supply board was removed. (Fig. 8)

6. Insert the second wire into the 1/8" shrink tubing. Solder the other end of the wire to the outside terminal of the new fuse holder. Slide the shrink tubing over the solder connection and heat to shrink. (Fig. 7)

7. Dress the wires together with the "AC cord using the 3 wire ties.
8. Re-install the power supply board to the chassis using four screws.
9. Re-install the switch cable assembly to the power supply.
10. Re-install the DC cable from the power supply to the radio.
11. Re-install the cardboard spacer and the main board tone panel to the chassis.
12. Re-install the top board of the tone panel to tone main board
13. Re-install the wrap.

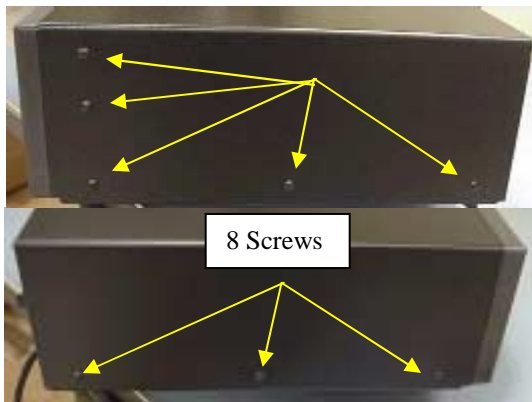


Figure 1

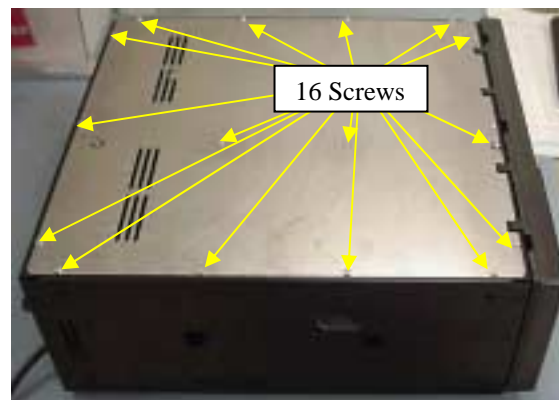


Figure 2

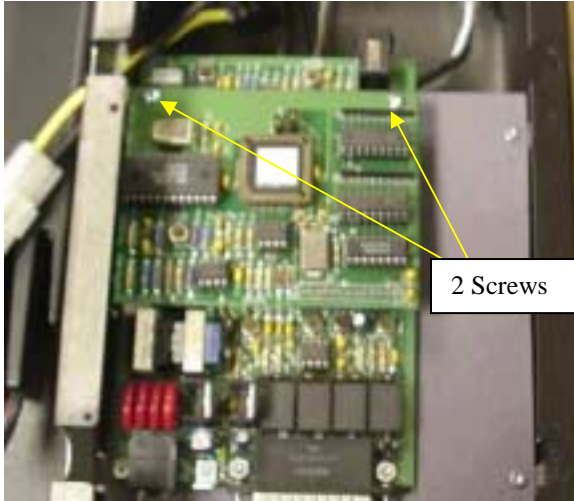


Figure 3

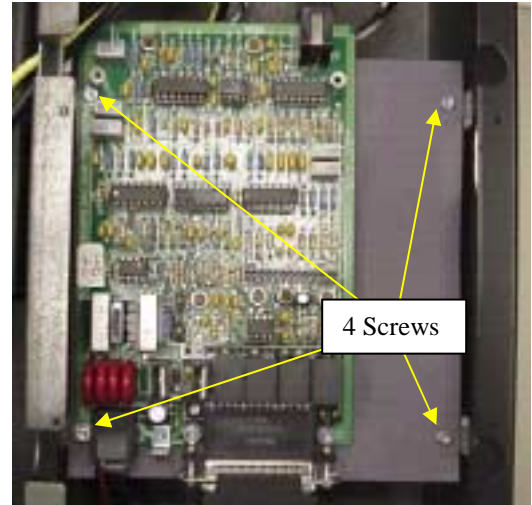


Figure 4

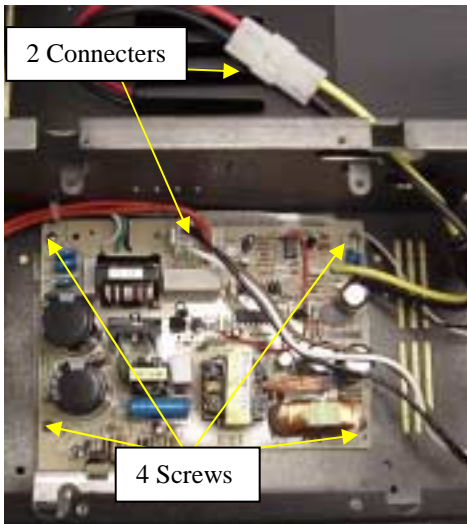


Figure 5



Figure 6

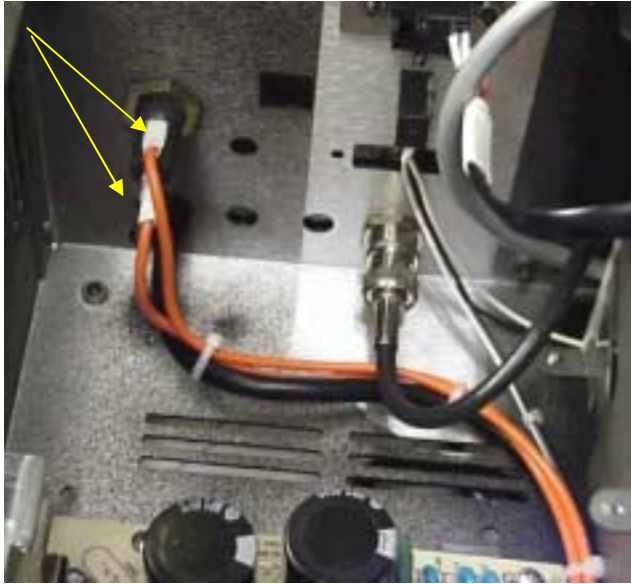


Figure 7

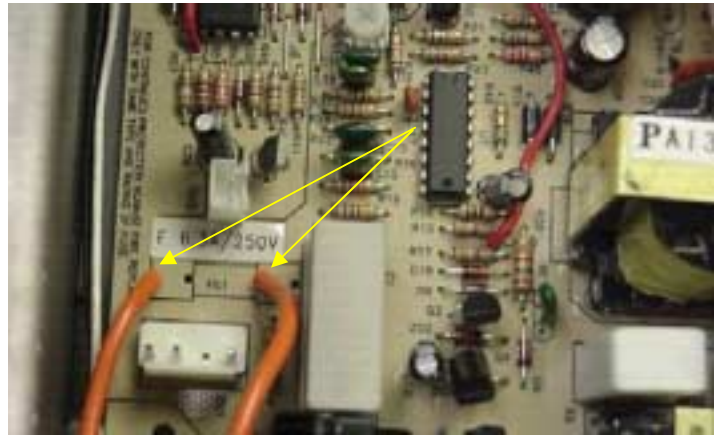


Figure 8