



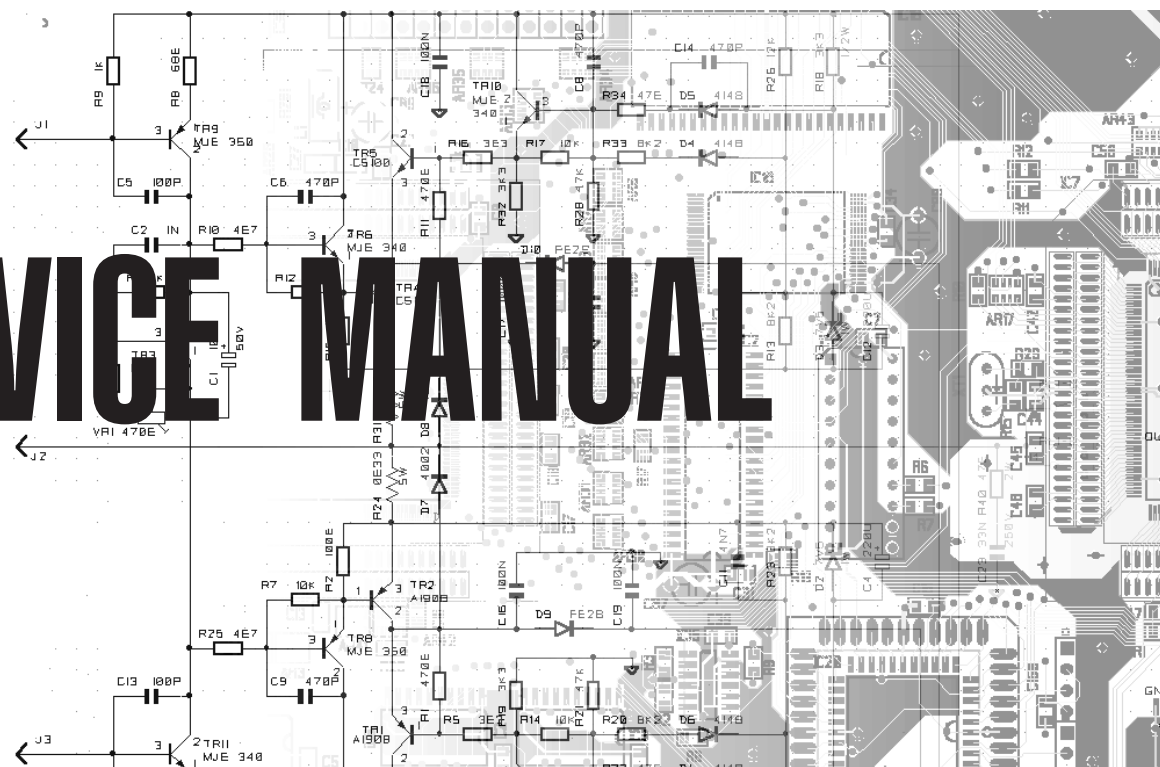
# L3000SD

## SWITCHING DIVERSITY

## UHF WIRELESS SYSTEM

preliminary

# SERVICE MANUAL



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## Warnings



### Notice

Service must be carried out by qualified personnel only. Any tampering carried out by unqualified personnel during the guarantee period will forfeit the right to guarantee.

For a correct operation of the instrument, after having switched off, be careful to wait at least 3 seconds before switching on again.

To improve the device's specifications, the schematic diagrams may be subject to change without prior notice.

All components marked by this symbol have special safety characteristics, when replacing any of these components use only manufacturer's specified parts.

The ( $\mu$ ) micro symbol of capacitance value is substituted by U.

The ( $\Omega$ ) omega symbol of resistance value is substituted by E.

The electrolytic capacitors are 25Vdc rated voltage unless otherwise specified.

All resistors are 1/8W unless otherwise specified.

All switches shown in the "OFF" position. All DC voltages measured to ground with a voltmeter 20KOhm/V.

← Soldering point.

• Male connector.

○ Female connector.

— M/F faston connector.

↑ Supply voltage.

□ Test point.

◊ Flag joined with one or more flags with the same signal name inscribed.

⊥ Logic supply ground.

⊥ Analog supply ground.

⊥ Chassis ground.

⊥ Earth ground.



### ATTENTION

Observe precautions when handling electrostatic sensitive devices.

## Address



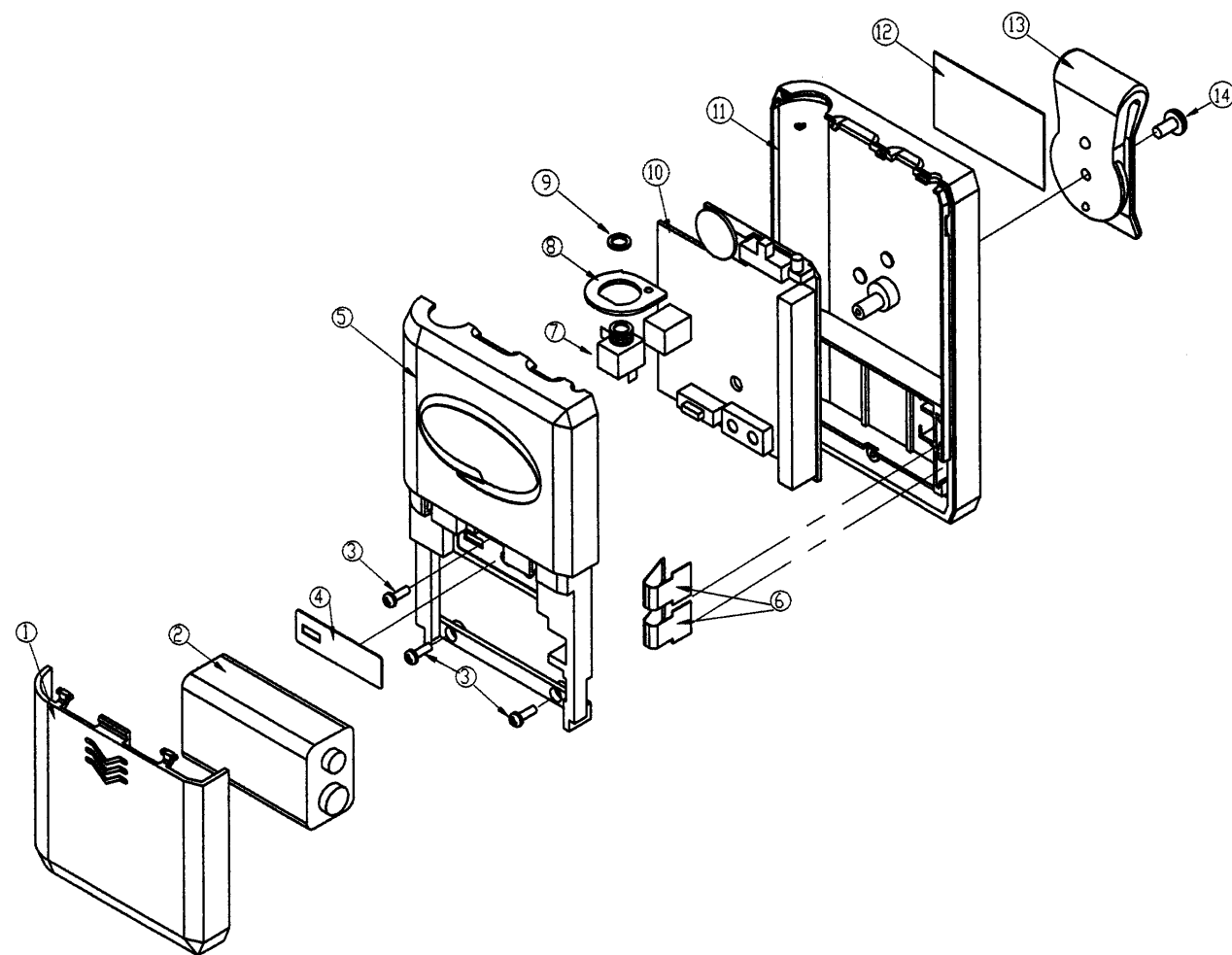
GENERALMUSIC S.p.A. Sales Division: 47842 S.Giovanni in Marignano (RN) ITALY - Via delle Rose, 12



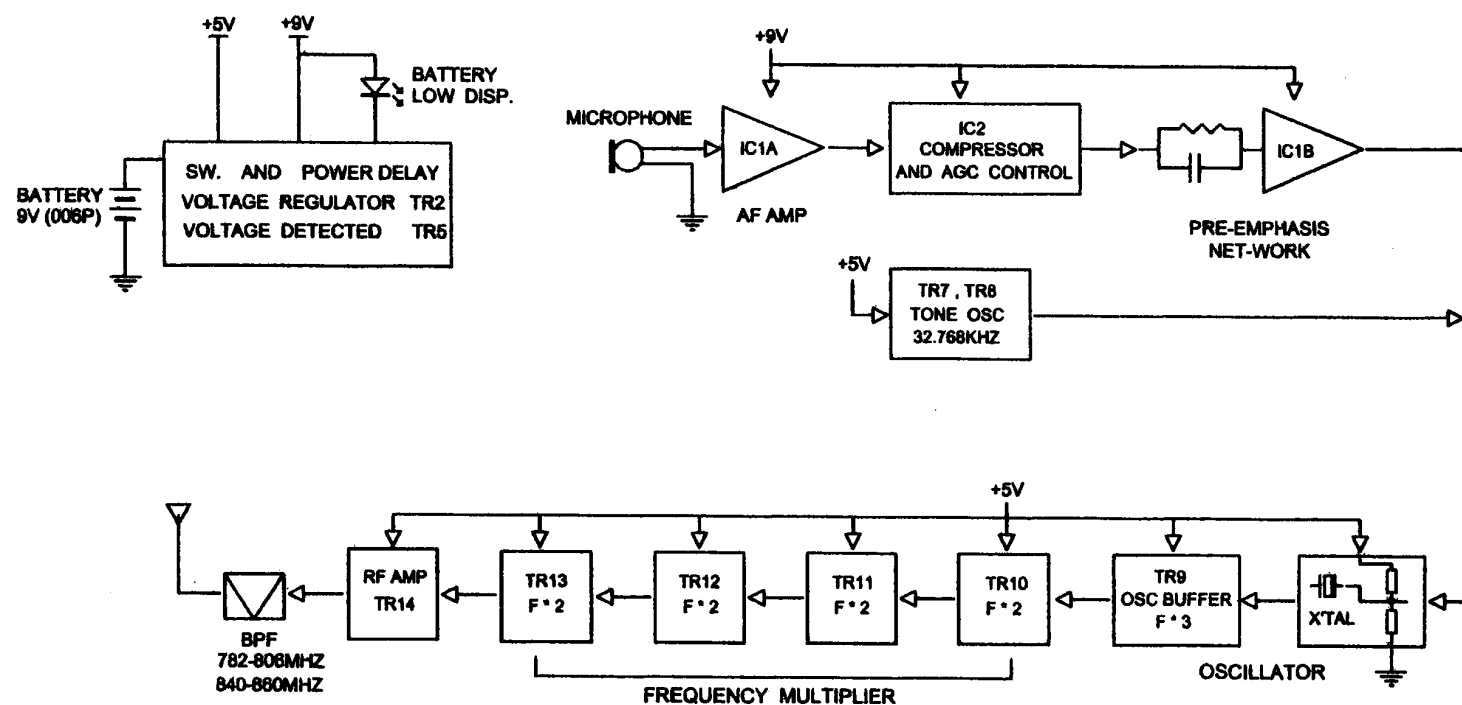
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▶ CODE: 270263 ◀



### L3000-BTX Block Diagram

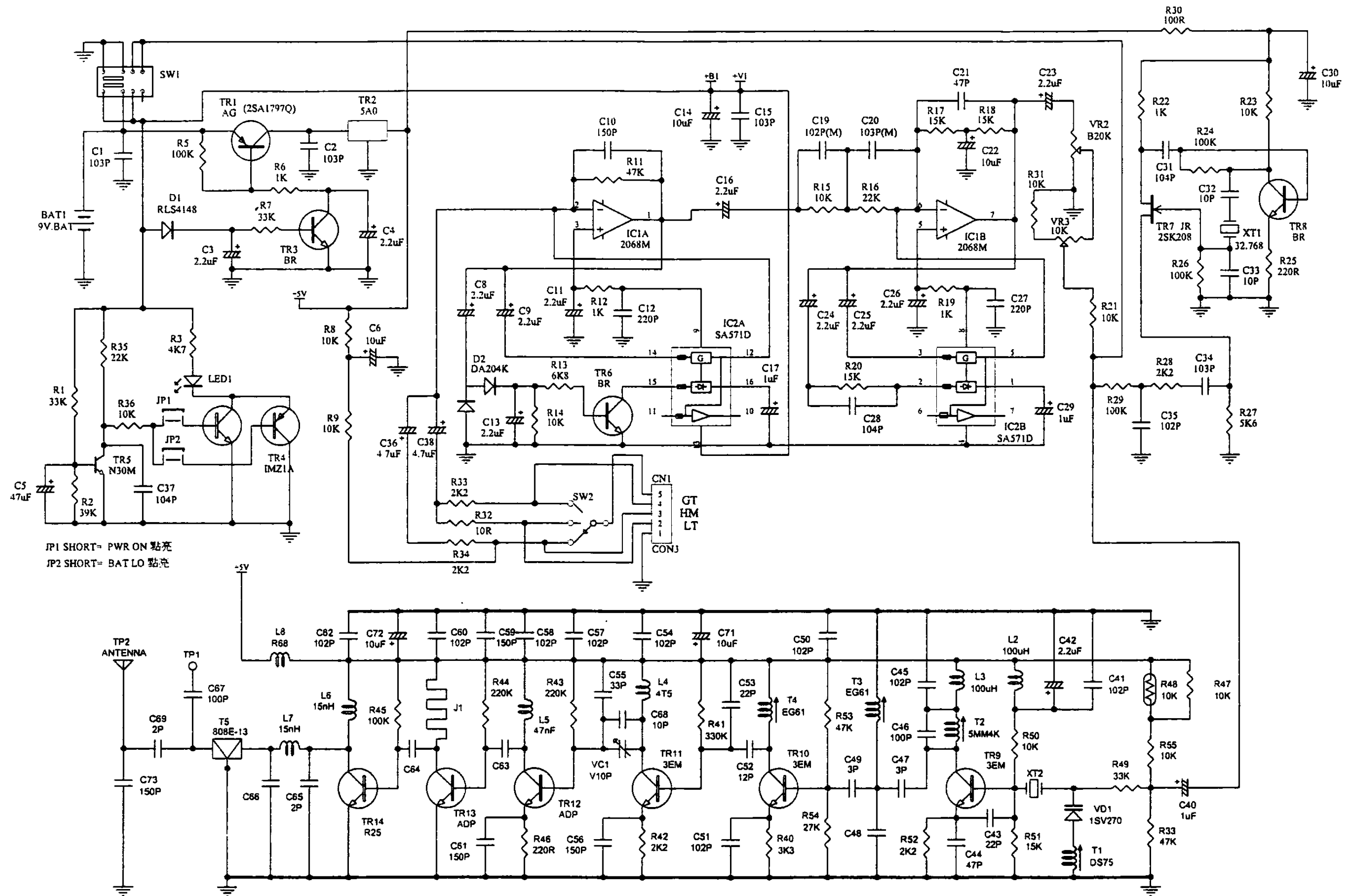


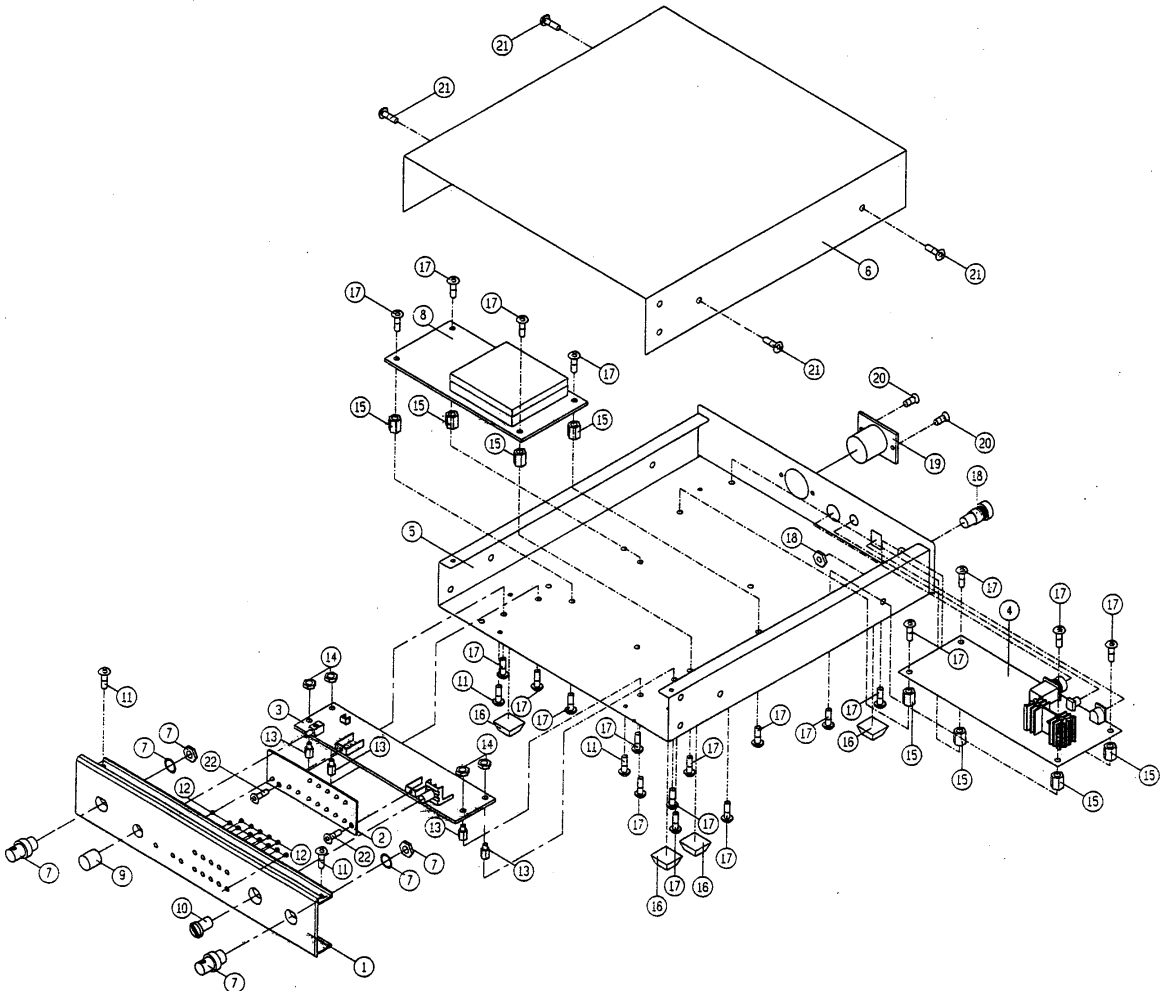
(NOT AVAILABLE)

## L3000-BTX Spare Part List

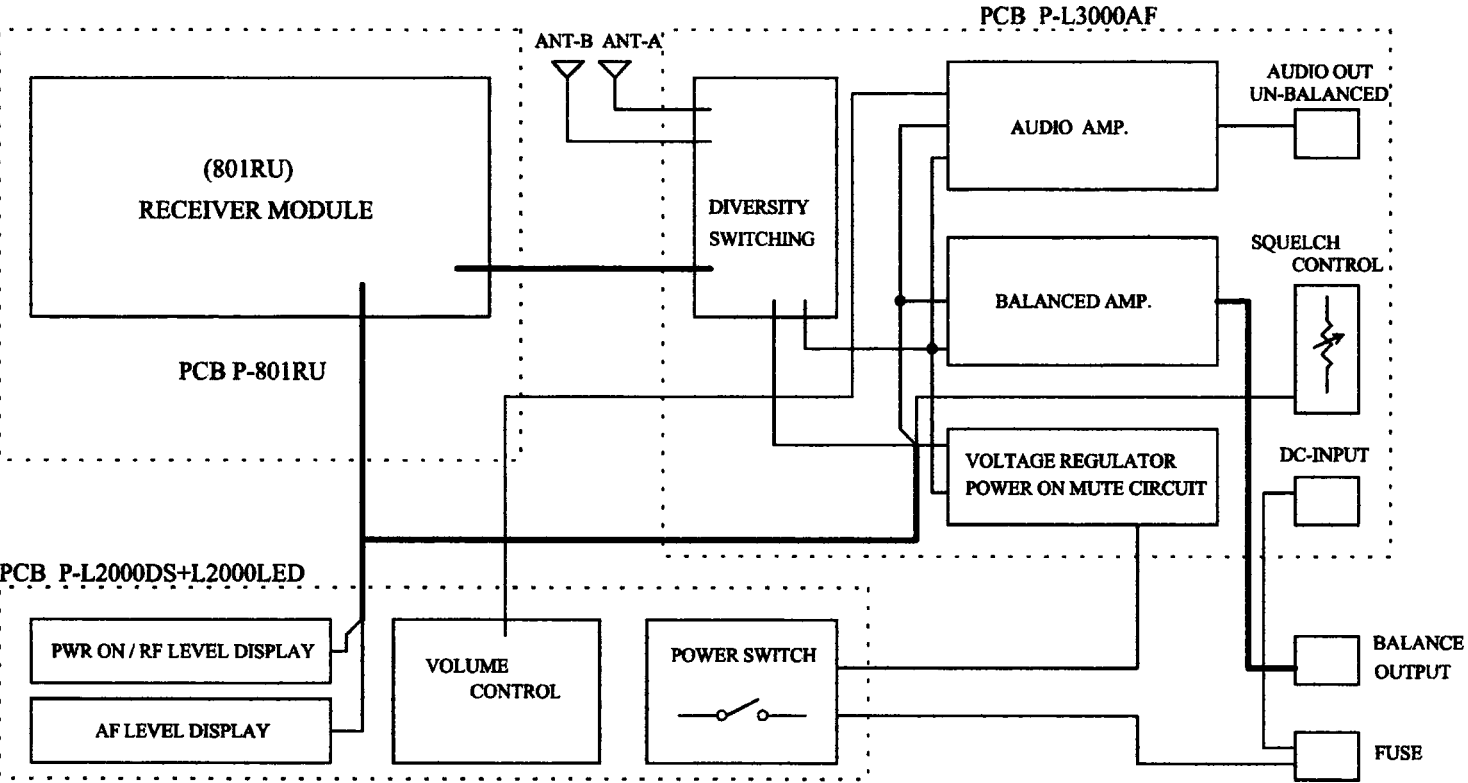
### PARTS AVAILABLE UP TO TODAY (DECEMBER 2001)

110289	9V Alkaline Battery Type 6LR61
SKK888009	L3000-BTX BODYPACK TRANSMITTER
SKK888003	LT-1 LAVALIER MICROPHONE
SKK888028	* LAVALIER PEG SUPPORT FOR LT-1
SKK888024	* FOAM WINDSCREEN FOR LT-1
SKK888004	ST-1 HEADSET MICROPHONE
SKK888026	* HEADSET SUPPORT FOR ST-1
SKK888025	* FOAM WINDSCREEN FOR ST-1
SKK888005	GT-1 INSTRUMENT CABLE
SKK888008	L3000-HTX HANDHELD MICROPHONE
SKK888027	* DYNAMIC CARDIOID MICROPHONE CAPSULE





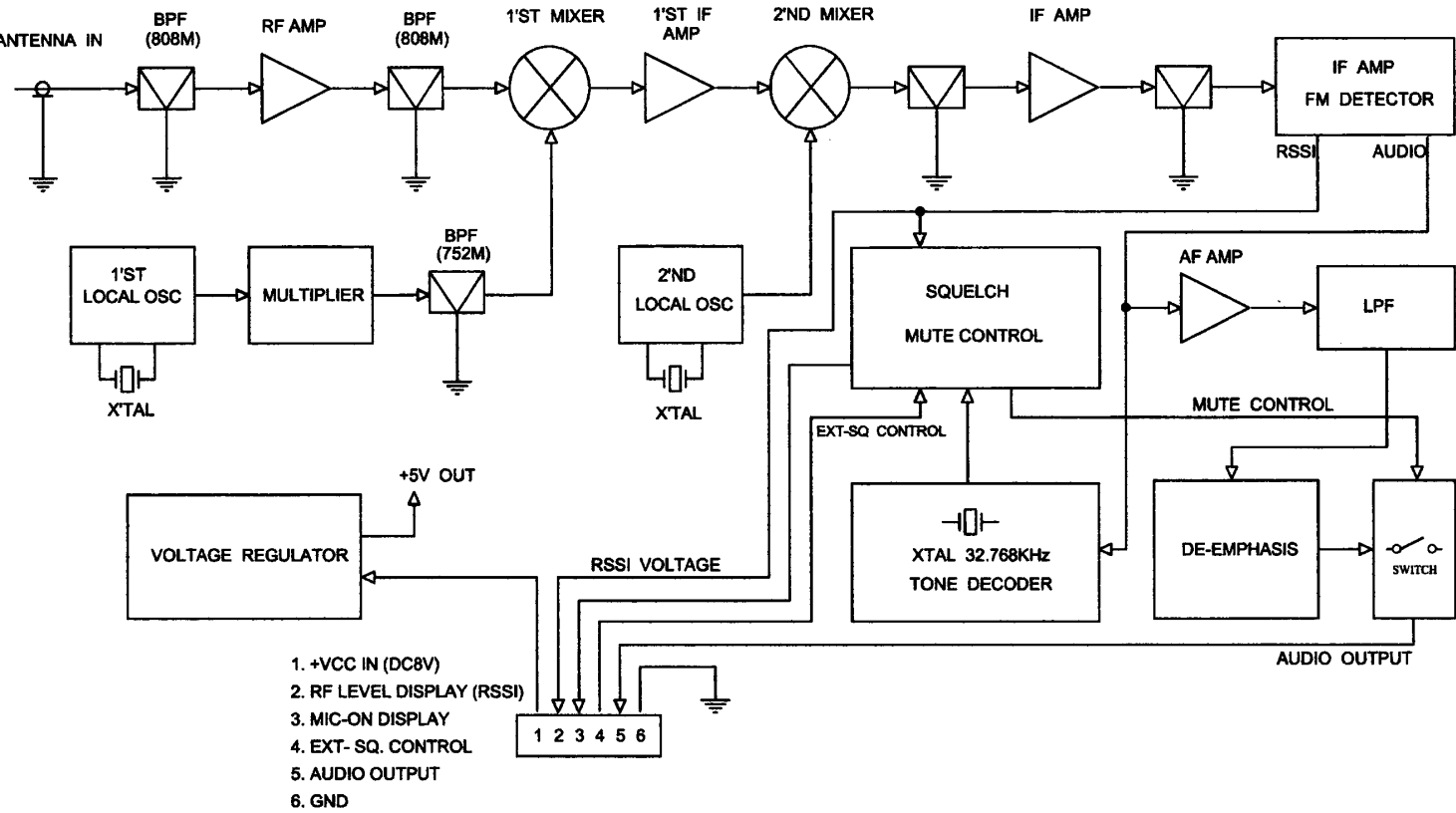
L3000-SD Block Diagram (General)

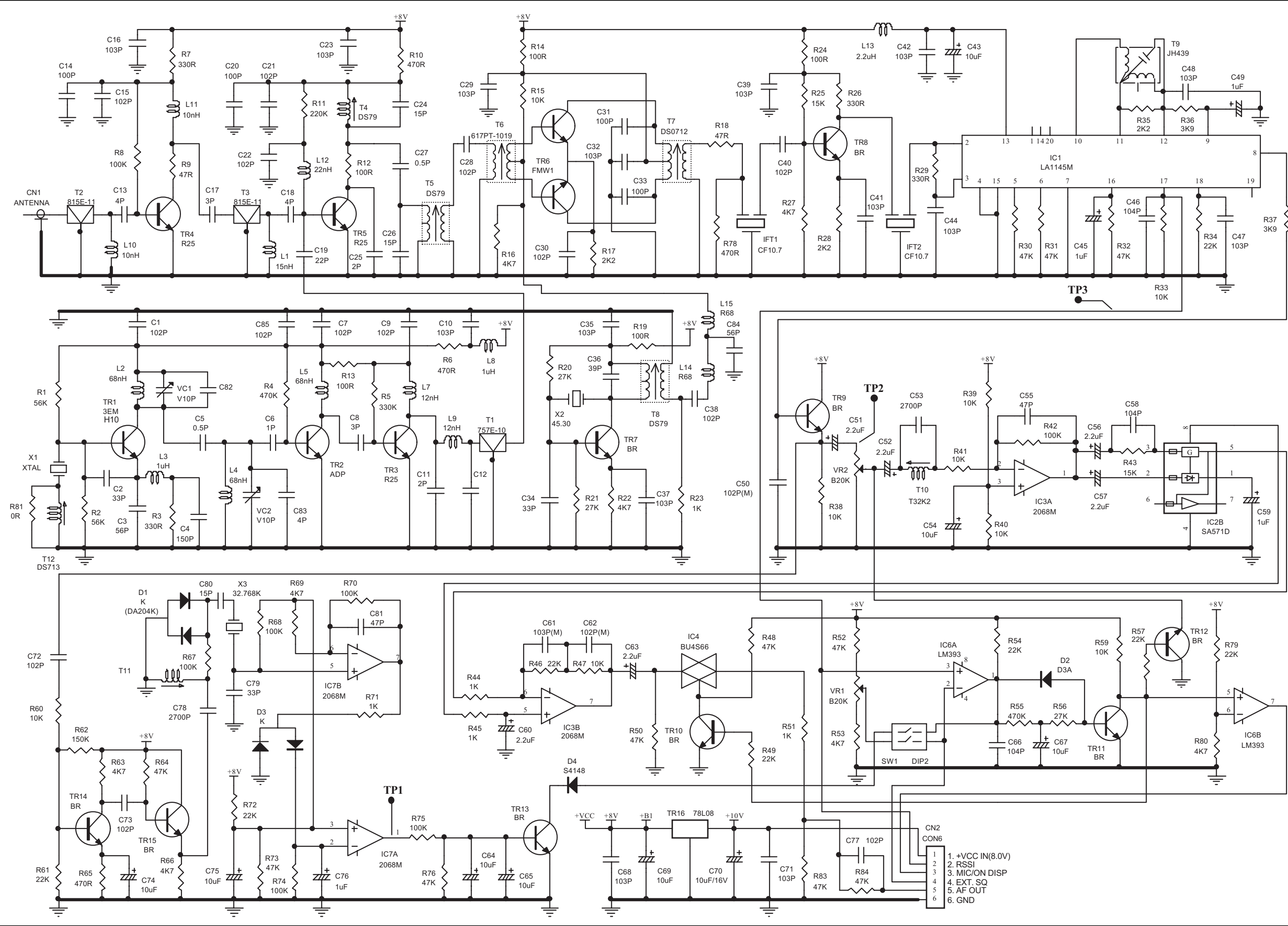


PARTS AVAILABLE UP TO TODAY (DECEMBER 2001)

277355	L3000-SD OWNER'S MANUAL (I-UK)
SKK347000	WIRELESS SYSTEM BAG
SKK888007	L3000SD-RX RECEIVER
SKK888010	MONO JACK-JACK CABLE L=1,5MT
SKK888014	ANTENNA FOR UHF SYSTEM
SKK888012	ADAPTER "D41WI120300-12/1" 230V VOUT=12VDC 300MA
SKK888013	ADAPTER "D41WI120300-12/1" 115V VOUT=12VDC 300MA

L3000-SD Block Diagram (Receiver Module)





The diagram illustrates a receiver board with the following components and connections:

- RF-LEVEL:** Features a BA6124 IC (IC2) with five LEDs (LED9 to LED13) connected to pins 6, 4, 3, 2, and 1. The circuit includes a +VCC supply, a 470R resistor (R9), a 10uF capacitor (C1), a 10K resistor (R5), and a C1815 transistor (TR1).
- AF-LEVEL:** Features a BA6124 IC (IC1) with five LEDs (LED4 to LED8) connected to pins 6, 4, 3, 2, and 1. The circuit includes a 1N4148 diode (D1), a 103P capacitor (C3), a 10uF capacitor (C4), a 10K resistor (R8), a 100K resistor (R7), a 470R resistor (R6), and a 4.7uF capacitor (C5).
- POWER:** Includes a switch (SW1) and a 470R resistor (R3) connected to the +VCC supply.
- VOLUME:** Includes a potentiometer (VR1, B100K) and a 100R resistor (R12) connected to the volume control input.
- Connectors:**
  - CN1: 3-pin connector for VOLUME control (pins 1, 2, 3).
  - CN2: 6-pin connector for +VCC IN (+10V), RF LEVEL DISP, AF DISP, GND, CH-A LED, and CH-B LED.
  - CN3: 2-pin connector for POWER control (pins 1, 2).
- Other Components:** A 47K resistor (R1), a 47K resistor (R10), a 47K resistor (R11), a 58K resistor (R4), and a 10K resistor (R3) are also shown.