

MASTR[®] II MAINTENANCE MANUAL

**BASE STATION TONE REMOTE CONTROL SHELF USED WITH
AUXILIARY RECEIVER OPTIONS 9633-9640**

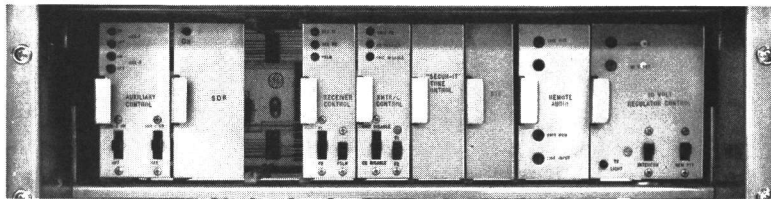


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DESCRIPTION & MAINTENANCE	LBI30730 (DF4098)
10-VOLT REGULATOR/CONTROL BOARD (19D417401G1)	LBI30704 (DF4098)
AUDIO BOARDS (19A129924G1-G3)	LBI30705 (DF4098)
SECUR-IT TONE BOARD (19D424051G1)	LBI30708 (DF4098)
TRANSMITTER CONTROL BOARDS (19D416660G1-G4)	LBI30709 (DF4098)
TRANSMITTER CONTROL BOARD (19D429082G1)	LBI30710 (DF4098)
RECEIVER CONTROL BOARD (19D429100G1)	LBI30712 (DF4098)
AUXILIARY CONTROL BOARDS (19D416702G1-G6)	LBI30713 (DF4098)
CHANNEL GUARD FILTER & ATTENUATOR (19C328028G1&G3) ...	LBI30715 (DF4098)
MULTIPLE RECEIVER POWER SUPPLY (19E501707)	LBI30731 (DF9034)

SPECIFICATIONS*

LINE TERMINATING IMPEDANCE	600 Ohms
AUDIO LINE OUTPUT	-20 dBm to +11 dBm
FREQUENCY RESPONSE	±3 dB from 300 to 3000 Hz
NOTCH FILTER RESPONSE	2175 Hz
NOTCH DEPTH (MINIMUM, TONE LEVEL IS 20 dB BELOW VOICE LEVEL)	-45 dB
TEMPERATURE RANGE	-30°C to +60°C (-22°F to +140°F)
DISTORTION	Less than 3%

* These specifications are intended primarily for the use of the serviceman. Refer to the appropriate Specification Sheet for the complete specifications.

— WARNING —

No one should be permitted to handle any portion of the equipment that is supplied with high voltage; or to connect any external apparatus to the units while the units are supplied with power. KEEP AWAY FROM LIVE CIRCUITS.

High-level RF energy in the transmitter Power Amplifier assembly can cause RF burns. KEEP AWAY FROM THESE CIRCUITS WHEN THE TRANSMITTER IS ENERGIZED!

ADDENDUM TO LBI30718, LBI30721, LBI30729

To prevent the tone control modules from falsing on noise when the PTT switch is operated at the remote control unit, the following action has been taken:

1. Four new groups of the Transmitter Control Board have been issued. The 19D416660G1 board has been replaced by a G5 board; the 19D416660G2 board has been replaced by a G6 board; the G3 board has been replaced by a G7 board; the G4 board has been replaced by a G8 board. The new boards (G5-G8) have the collector of Q15 disconnected from the LIMITED AUDIO path and connected to terminal D4.
2. The Secur-it Tone Board has a jumper connected from terminal D4 to pin 10 of U1-C in the WINDOW ONE-SHOT. This is Revision B of the 19D424051G1 Secur-it Tone Board.
3. A jumper has been added to the Control Shelf Mother Board from J1209-D4 to J1208-D4. This is Revision D of the 19D417214G1 & G2 Mother Boards.

These changes allow Q15 to immediately reset the WINDOW ONE-SHOT after the 1950 or 1850 Hertz transmit function tones are detected killing the LIMITED AUDIO long before voice audio is present.