



CUSTOM MVP MAINTENANCE MANUAL

406-512 MHz RECEIVER

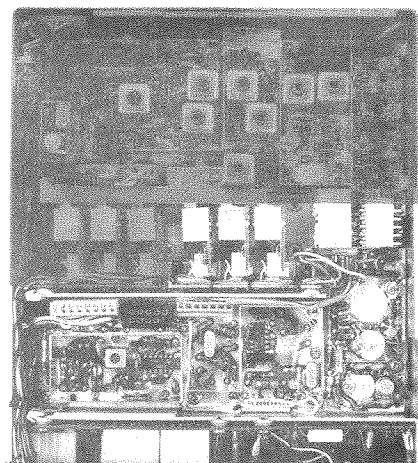
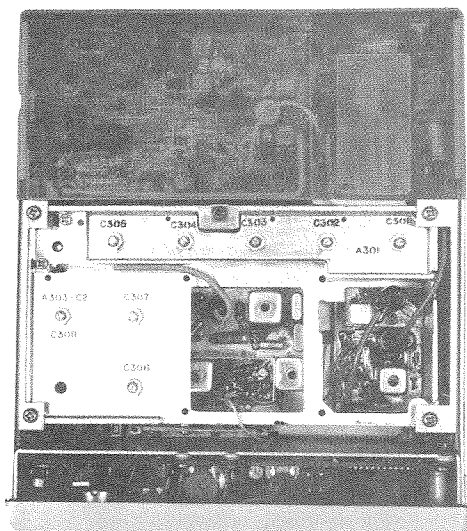


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| RF ASSEMBLY AND IF FILTER BOARD | LBI30032 (DF1107) |
| OSCILLATOR-MULTIPLIER BOARD | LBI30147 (DF1106) |
| IF-DETECTOR BOARD | LBI30049 (DF1105) |

SPECIFICATIONS*

| | | |
|-----------------------------------|---|---------------------------------|
| AUDIO OUTPUT (to 3.2-ohm speaker) | 3 Watts at less than 5% distortion | |
| SENSITIVITY | Standard Receiver | Ultra-High Sensitivity Receiver |
| 12-dB SINAD (EIA Method) | 0.35 V | 0.20 V |
| 20-dB Quieting Method | 0.50 V | 0.25 V |
| SELECTIVITY | | |
| EIA Two-Signal Method | -85 dB | -85 dB |
| SPURIOUS RESPONSE | -100 dB | -90 dB |
| INTERMODULATION (EIA) | -80 dB | -75 dB |
| SQUELCH SENSITIVITY | | |
| Fixed Squelch | 6 dB SINAD | |
| FREQUENCY STABILITY | | |
| Crystal Module | 0.0005% | |
| MODULATION ACCEPTANCE | ±7 kHz | |
| MAXIMUM FREQUENCY SEPARATION | Full Specifications | 3 dB Degradation |
| 406-470 MHz | 1.60 MHz | 2.0 MHz |
| 470-494 MHz | 1.80 MHz | 2.3 MHz |
| 494-512 MHz | 1.50 MHz | 2.0 MHz |
| FREQUENCY RESPONSE | Within +1 and -8 dB of a standard 6-dB per octave de-emphasis curve from 300 to 3000 Hz (1000-Hz reference) | |
| RF INPUT IMPEDANCE | 50 ohms | |

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

WARNING

Although the highest DC voltage in the Custom MVP receiver is +12 VDC, high currents may be drawn under short circuit conditions. These currents can possibly heat metal objects such as tools, rings, watchbands, etc., enough to cause burns. Be careful when working near energized circuits!

High-level RF energy in the transmitter Power Amplifier assembly can cause RF burns upon contact. Keep away from these circuits when the transmitter is energized!

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