BTR-700 Transmit Alignment

1. Terminate the transmitter into a Modulation/Signal Analyzer.

2. Connect an audio source to pins 1 (ground) and 2 (audio in) of the headset connector. Set the level to 15 mV RMS and the frequency to 1.0 KHz.

3. Apply AC Power to the BTR-700.

4. Adjust the Mic Gain control to maximum.

5. Press the talk button once so that Talk/Overmod LED lights.

6. Adjust VR801 for +/- 40 KHz Deviation.

7. Adjust VC901 for the correct Frequency.

8. Check the transmitter Power. 50 mW typical.

Note: No transmit power alignment is necessary. The frequency is generated by a PLL/VCO and the power amplifier is broadband with fixed filters.

Remove AC Power. End.

BTR-700 Active Devices

Designator	Part Number	Function
Q801	VP0610	Switch
Q802	BFG540X	Amplifier
Q803	BFG540X	Amplifier
Q804	MMBT3906	Current Source
Q805	MMUN2112	Switch
Q806	MMUN2212	Switch
Q807	BFG540X	Amplifier
Q808	MMBT3906	Current Source
Q809	BFG540X	Amplifier
U801	TC55RP500	Regulator
U802	TRF2050	Synthesizer
HY801	TBDAO	VCO

END