MESSENGER 125 TEST PROCEDURE

<u>O PERATION</u>	
10	Coil slugs preset from top of coil forms as follows:
11	L3 slug 3/16 inch.
12	IA slug 1/2 inch.
13	T3 slug 1/16 inch.
14	T8 slug 1/8 inch.
15	T9 slug 1/8 inch.
101	Key transmitter and adjust L4 for peak R.F. output on channels 1, 11, and 23. If output is between 2.8° and 3.8 watts and on frequency (\pm .004%) go to step 102.
102	Check for starting on frequency on channel 1.
103	Switch to channel 11 and peak T9. If output is above 3.8 watts detune L3 to 3.8 watts.
104	Check modulation with 3:1 VSWR (all phase angles) across antenna. Minimum of 70% modulation with 25 mV of audio at terminal 5 of Z7. Tune out distortion with T8, T9 - Do not detune L3, L4.
105	Check for operation at 11 volts, modulating with microphone.
201	Adjust T3 for starting on all channels.
202	Peak Tl, T2, T4, and T5 and check audio gain on channel 11, + 2 db minimum. R2 may be changed from 100 ohm up to 270 ohm maximum, as necessary, if noisy or regenerative. Plus 10 db maximum gain.
203	Check $S + N/N$ at 0 db reference, 8 db minimum. If less to to 202.
204	Check AVC at ± 10 db reference, 20 db ± 10 db from 1000 microvolts to 1 microvolt.
205	Check to see that you can squelch 30 microvolts and tight squelch must open at less than 1000 microvolts.
300	Heat run unit in cabinet for 15 minutes with a 30 second duty cycle.
301	Check two-way operation.