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FINAL TESTING:

These tests must be made before and after potting.

TEST EQUIPMENT:

- Corp)......1

(Test Jig #03 is similiar to A-10187 but with chokes L505 & L506 removed. Transformer is connected directly to tube plates. TRO-78 under test is used as T502).

TEST SET-UP:

- (1) Connect Test Jig #03 to power supply. (B + voltage should be about 140V D.C.)
- (2) Load output jack J504 of test jig with 68 or 70 ohm resistor.
- (3) Connect the signal generator to input jack J502 of test jig #03.
- (4) Plug TRO-78 into socket on test jig.

TEST PROCEDURE:

A. Balance Test.

- (1) Set generator to 2 megahertz. Keeping meter probe on pin 5 of TRO-78 under test, adjust generator output so that the meter reads 1.00V. Record this as V3 in balance test. Touch pin 7 of TRO-78 under test with meter probe. Voltage should be between 0.90V and 1.10V. Record this as V4 on balance test.
- (2) Repeat part (1) with generator set to 24 megahertz. Record both readings as above. V3 should be 1.00V. V4 should be between 0.90V and 1.10V.
- (3) Repeat part (1) with generator set to 30 megahertz. Record both readings as before. V3 should be 1.00V. V4 should be between 0.90V and 1.10V.

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B. Gain Test.

- (1) Set generator to 2 megahertz and adjust the output so that the voltage measured at J503 (ie:generator output) is 0.50 volts. Record this as V1 in gain test. Measure voltage at J504 (ie:output of TRO-78). It should be 1.82 volts or greater. Record as V2.
- (2) Repeat part (1) with generator set to 4 megahertz. Input from generator should be 0.50 volts. (V1), and output from TRO-78 at J504 should be 1.82 volts or greater. Record both readings.
- (3) Repeat part (1) with generator set to 24 megahertz, but generator output at J503 should be 1.00 volts. (V1) Output at J504 should be 2.20V or greater (V2) Record both readings.
- (4) Repeat part (1) with generator set to 30 megahertz. Generator output at J503 should be 1.00 volts. Output at J504 should be 1.80V or greater. (V2) Record both readings.

NOTES:

- (1) There should be D.C. continuity between pins 5.8.7 and also between pins 1 & 3 of TRO-78.
- (2) Balancing test jig #03. The outputs of two Model 82 signal generators are fed into the input jack. One generator is set for 10.3MHz (no modulation) and the other generator is set for 3.9MHz with 30% modulation at 1kHz.
 - A. GPR receiver is coupled to the output jack of test jig and is tuned to 14.2MHz. Balance pot, R502 is adjusted for minimum output at 14.2MHz.

REFERENCES:

See TMC prints

TRO-78A A10182 S10048 A10187 CK10292

These readings are based on tests performed on a prototype known to be satisfactory.

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BALANCE TEST

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f.	Volts-V3	Volts-V4	f.	Volts-V3	Volts-V4
2.0MHz	1.00	1.10 to 0.90	2. 0 MHz		- Anna Maria and Anna Anna Anna Anna Anna Anna Anna
24.OMHz	1.00	0.90 to 1.10	2 4. 0HMz		
30.0HMz	1.00	0.90 to 1.10	30.OHMz		

GAIN TEST

and the second of the second o	Standard		Tes	Test Results						
f.	Volts-V1	Volts-V2	f.	Volts-Vl	Volts-V2					
2.OMHz	0.5	1.82 or more	2.0HMz							
4.0HMz	0.5	1.82 or more	4.OHMz							
24.OHMz	1.0	2.20 or more	24.0HMz		AND THE PROPERTY AND THE PROPERTY OF THE PROPE					
30.OHMz	1.0	1.80 or more	30.OHMz							

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