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TEST PROCEDURE

KIT 321

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	T.M.C. MODEL KIT 321	·	

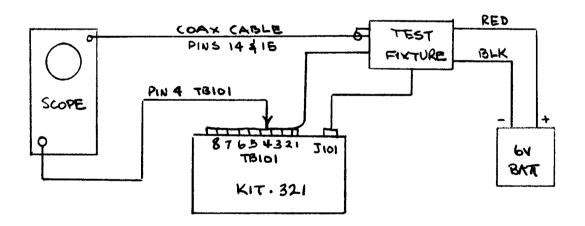
This procedure covers the bench testing of T.M.C. Model Kit-321.

Equipment Required:

- 1. Oscilloscope, Tektronix Model 541A or equivalent.
- 2. VOM, Simpson Model 260 or equivalent.
- 3. 6 volt battery.
- 4. Test Fixture, T.M.C. #6096.

Procedure:

1. Set up the equipment as shown.



2. On the Scope set up the controls as follows;

INPUT to DC

VOLTS c/m to .5

TIME c/m for 10 miles attack time &

20 milsec decay time

2M-8-67-AINS.

TRIGGER SEL to EXT

DC to +attack time and -decay time

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- 3. On the KIT-321 set the mode switch to NORM.
- 4. On the Test Fixture set to KEY and the PTT switch to off.
- 5. With the Power Switch OFF, lamp #1 should be ON and lamps #2, 3, and 4 should be OFF.
- 6. Turn ON the power (Kit 321); lamp #1 should go OFF and lamps #2, 3, and 4 should come ON.
- 7. Set the Kit 321 mode switch to PTT; lamp #1 should come ON and lamps #2, 3, and 4 should go OUT.
- 8. Set the PTT on the Test Fixture to ON; lamp #1 should go OFF and lamps #2,3, and 4 should come ON.
- 9. Check Attack and Delay time on Scope,
 - a. Attack time should be less than 40 milsec.
 - b. Delay time should be less than 300 milsec.
 - c. Record results on Data Sheet.
- 10. Repeat steps 7, 8, and 9 using the CW positions on the Kit 321 and th KEY switch on the Test Fixture.

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TEST PROCEDURE FOR AX-5031
P/O KIT 321

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- A. Test Equipment required:
 - 1. Simpson 260 ohmmeter
 - 2. Test Jig. #
 - 3. Oscilloscope Techtronix, Type 541A
 - 4. 6 Volt DC power supply

B. Procedure:

- 1. Connect Test Jig. cables to J-101 and TB-101 of AX-5031.
- 2. Connect AX-5031 line cord.
- 3. Place mode switch in CW position, also turn on power switch.
- 4. Connect scope to Test Jig as per Fig. #1.
- 5. Set scope controls as follows:

 Mode switch <u>DC</u>, Volts/CM <u>.2</u>, Trigger Mode <u>DC</u>,

 Trigger Slope ±, Time/CM 10 Milli sec.
- 6. Place both Test Jig. switches in Off position, now turn on Test Jig power supply.

NOTE: Lamp #1 should light.

7. Place voltage key switch to On position.

NOTE: Scope display should activate within 40
Milli sec., also lamps #2 - 3 - 4 should
light and lamp #1 should extinguish.

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- 8. Set Scope Time/CM switch to 50 milli sec. position.
- 9. Place voltage key switch to Off position.

NOTE: Scope display should deactivate between 200 and 300 Milli sec. * If decay time is greater than 300 milli sec., adjust R-102 (delay control) in AX-5031 until decay time is within 200 to 300 milli sec.

10. Place AX-5031 mode switch in PTT position.

NOTE: Lamp #1 should light.

- 11. Place Scope Time/CM switch in 10 milli second position.
- 12. Place Test Jig. PTT switch to On position.

NOTE: Scope display should activate within 40 milli sec., also lamps #2 - 3 - 4 should light and lamp #1 should extinguish.

- 13. Place Scope Time/CM switch in 10 milli sec. position.
- 14. Place PTT switch to Off position.

NOTE: Scope display should deactivate within 300 milli seconds, also lamps #2 - 3 - 4 should extinguish and lamp #1 should light.

15. Place AX-5031 mode switch in norm. position.

NOTE: Lamps #2 - 3 - 4 should light and lamp #1 should extinguish.

16. Connect ohmmeter across terminals 6 and 7 of TB-101.

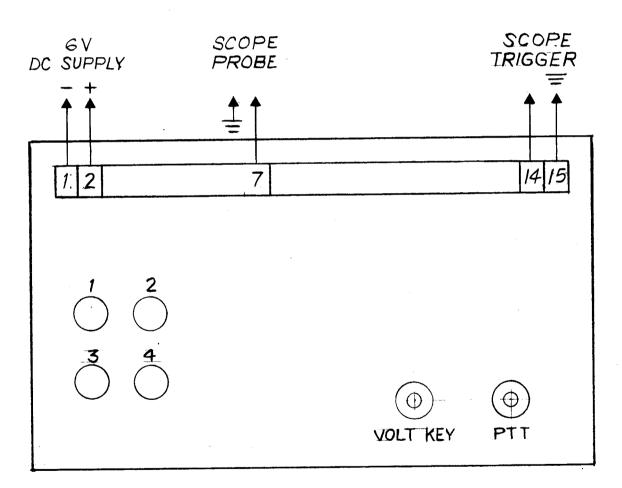
Meter should read zero ohms.

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- 17. Now connect ohmmeter across terminals 7 and 8. Meter should read open.
- 18. This completes test. If all preceding steps have been satisfactorily completed, affix Test Stamp to rear of AX-5031.

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TEST JIG

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