TMC SPECIFICATION

NO. S 950

REV: 0 A

COMPILED: AD | CHECKED: AD | APPD: [signature] MMK 4/23/65 | SHEET 1 OF 5

TITLE:

typed by vab 4/22/65

TEST PROCEDURE FOR TPC-1 AND TPCK-1

A. EQUIPMENT REQUIRED:

1. Simpson 260 VOM

B. TESTING TPC-1:

1. Set up the telephone as follows:

   (a) Handset on its hanger.
   (b) PTT released.
   (c) All push buttons released or in the up position.
   (d) Volume control maximum CCW.

2. Connect the (-) VOM lead to pin P on the telephone cable connector.

3. Connect the (+) lead to pin N. You should read infinate resistance.

4. Push the Channel 4 button in. You should read "0" ohms.

5. Connect the (+) VOM lead to pin M. You should read infinate ohms.

6. Press the Channel 3 button. You should read "0" ohms.

7. Connect the (+) VOM lead pin to L. You should read infinate ohms.

8. Press Channel 2 button. You should read "0" ohms.

9. Connect the (+) VOM lead pin K. You should read infinate ohms.

10. Press Channel 1 button. You should read "0" ohms.

11. Connect the (+) VOM lead pin to R. You should read approximately 300 ohms.

12. Press Channel 2 button. You should read the same.

13. Press Channel 3 button. You should read the same.

14. Press Channel 4 button. You should read the same.

15. Release all the buttons.

16. Press the LSB buttom. You should read the same as in steps 12-14.

17. Pr ss the USB button. You should r ad the same.

18. Move the (-) VOM lead to pin J. You should read "0" ohms.

19. Pr ss the LSB button you should r ad "0" ohms.

20. Move the (-) lead to pin D. You shold read infinate resistance.

21. Press the PTT switch. You should read "0" ohms.

22. Move the (+) VOM lead to pin A and the (-) VOM lead to pin E. You should read approximately 10 ohms.

23. Move the (+) VOM lead to pin C and the (-) lead to pin H. You should read infinate resistance.

24. Press the PTT switch. You should read approximately 175 ohms.

25. Move the (+) lead to pin B and the (-) lead pin to F. With the handset still in the cradle you should read approximately 4 ohms.

26. Lift the handset off the cradle. you should read 3.3 ohms.

THIS COMPLETES THE PRELIMINARY TESTING OF THE TPC-1. IT IS NOW READY FOR TESTING THE TPCK-1 AS A SYSTEM.

C. TESTING TPCK-1

1. Setting of controls:

   (a) Unit unplugged.
   (b) On off switch in the off position.

2. You should read continuity between the following pins on J101 and J102.

   (a) Continuity from:

pin B (J101)	to	pin B	(J102)
pin A (J101)	to	pin A	(J102)
pin F (J101)	to	pin F	(J102)
pin E (J101)	to	pin E	(J102)
pin H (J101)	to	pin H	(J102)
pin C (J101)	to	pin C	(J102)
pin D (J101)	to	pin D	(J102)
pin J (J101)	to	pin J	(J102)

3. There should be continuity from pin R on J102 to ground & pin R, J101 to ground.
4. Connect the (+) VOM lead to ground and the (-) VOM lead to pin P on J102 (0-250 V scale)

5. Plug the unit in and turn the power switch on. You should have approximately 50 VDC here. (40-60 VDC)

6. Connect the (-) l ad to pin P on J101. You should hav approximately (90-110 VDC)

THIS COMPLETES THE PRELIMINARY TESTING OF TPCK-1. IT IS NOW READY FOR TESTING WITH THE TPC-1 AS A SYSTEM.

D. TESTING THE TPC-1 AND TPCK-1 AS A SYSTEM.

1. Connect the plug on the TPC-1 cable to J102 on the TPCK-1. (The TPCK-1 should be off when doing this.)

2. Connect the (+) meter lead to the TPCK-1 chassis and the (-) lead to pin N on J101. (Set the meter to read DCV on the 250 V scale.)

NOTE: AS EACH CHANNEL BUTTON IS PUSHED YOU SHOULD HEAR THE LEDEX STEPPING.

3. Press the Channel 4 button and turn the unit on. You should get the same 90-110 VDC reading you got in step 6 of the TPCK-1 preliminary test. The Channel 4 button should light up.

4. Move the (-) meter lead to pin M on J101 and press the Channel 3 button. The button should light up and the same voltage be at this pin as was in step 3.

5. Move the (-) meter lead to pin L on J101 and press the Channel 2 button. The button should light and the same voltage be at this pin as was in step 3.

6. Move the (-) meter lead pin to (K) of J101 and press Channel 1 button. The button should light and the same voltage present at this pin as was in step 3.

7. By pressing the USB and LSB buttons they should light up.

NOTE: THE LEDEX DOES NOT STEP WHEN YOU PUSH THE LSB AND USB BUTTONS.

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TITLE: TEST PROCEDURE FOR TPC-1 AND TPCK-1

typed by vab 4/23/54

CHECK SHEET

	( )	COMMENTS
TPC-1 PRELIMINARY CHECK	___	_____
TPCK-1 PRELIMINARY CHECK	___	_____

VOLTAGE AT PIN P ON J102 _____

VOLTAGE AT PIN P ON J101 _____

SYSTEM CHECK

VOLTAGE AT PIN N ON J101 _____

VOLTAGE AT PIN M OM J101 _____

VOLTAGE AT PIN L ON J101 _____

VOLTAGE AT PIN K ON J101 _____

REVISION SHEET	THE TECHNICAL MATERIEL CORP. MAMARONECK NEW YORK	S-950 Ø LIST NO.

DATE	REV.	SHEET	EMN #	DESCRIPTION	APP.
4/26/65		1 of 5		O=ORIGINAL RELEASE FOR PRODUCTION.	
1/25/66	A	3,4,5	15658	Revised per EMN	WR