TMC SPECIFICATION

NO. S 1105

REV: Ø

COMPILED: CL | CHECKED: | APPD: | SHEET 1 OF 5

TITLE:

typed by vab 6/7/66

TEST PROCEDURE

FOR THE

TPSG-1

I. INTRODUCTION

The TPSG-1 power supply is used with TMC model TTR-10 Receiver-Transmitter when the TTR-10 is to be operated from a DC power source. The TPSG-1 is designed to operate from nominal DC voltages of +12V, +24V or +32V (ground negative). The TPSG-1 provides all the A , B+, B-, C- voltage for the TTR-10 unit. The power supply is installed in the TTR-10 by sliding it into the main chassis from the rear and is secured with four screws.

II. EQUIPMENT REQUIRED

1. Schematic Diagram CK-1057
2. Power Supply Test Jig (TMC)
3. Simpson 260 multi-meter or equivalent
4. Power Cord
5. Power source (+12VDC, +24VDC, +32VDC @ 25 AMP.)
6. INPUT Voltages programmer (+12V, +24V and +32V)

III. PROCEDURE

1. Check the TPSG-1 for mechanical defects and wiring errors.
2. Check that all fuses are installed and are of the specified value, and see if the programmer strip is in place.
3. Set all the toggle switches on the TEST JIG to the OFF position.
4. Plug the TEST JIG into the TPSG-1 at J1001.
5. Connect the power cord between J1002 on the TPSG-1 and the power source.
6. Set the switch on the power source to ON.
7. Set the S1 switch on the TEST JIG to ON.

8. Connect the Simpson 260 between the LV+ test jack and ground. The meter should read 12.5 volts DC ± 5%. Leave meter connected.

9. KEY-DOWN S2 on the TEST JIG. The meter reading should not vary more than 1 volt. Remove meter.

10. Connect the meter between the MV- test jack and ground. The meter should read -40VDC ± 10%. Leave the meter connected.

11. KEY-DOWN S2 on the TEST JIG. The meter reading should not vary more than 2 volts. Remove meter.

12. Connect the meter between the LV- test jack and ground. The meter should read -12.5VDC ± 5%. Leave the meter connected.

13. KEY-DOWN S2 on the TEST JIG. The meter reading should not vary more than 1 volt. Remove the meter.

14. KEY-DOWN S2 on the TEST JIG. The indicator shoulf light and on the TPSG-1 the ANTENNA RELAY K1003 and HIGH VOLTAGE RELAY K1002 should energize.

15. Set the Simpson 260 to read -DC volts on the 250 Volt Scale, and connect the meter between the C- test jack and ground. The meter should read 105 ± 5% volts. Remove the meter.

16. Set the meter to the 1000 Volt DC Scale and connect to +315 volt test jack. The meter should read +315V DC ± 5%. Remove the meter.

17. Leave the meter in the 1000 Volt DC Scale, and connect to the +280 Volts test jack. The meter should read +280VDC ± 20 volts. Remove the meter.

18. Set the simpson 260 to read +DC 1000 Volt Scale, connect to the B+ test jack. The meter should read +800 VDC ±30 volts. Remove meter.

IV. SHUT DOWN

1. Set S2 on the TEST JIG to OFF. The ANTENNA RELAY, HIGH VOLTAGE RELAY, and indicator light should go OFF.

2. Set S1 on TEST JIG to OFF, the main relay K1001 will go OFF.

3. Disconnect the power cord from the TPSG-1, and remove the TEST JIG. This completes testing of the TPSG-1 DC Power Supply.

REVISION SHEET

THE TECHNICAL MATERIEL CORP.
MAMARONECK NEW YORK

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