

DATE 12-13-60

SH. 1 OF 2

COMPILED BY

**TMC SPECIFICATION NO. S -519**

**TITLE:** TEST PROCEDURE, APP-4

**JOB**

APPROVED

*Ron Kohn*

**I. INTRODUCTION:**

The APP-4 is an auxiliary power panel supplied with a system such as the SBT-IK series to provide the required AC input power connections. In addition, the APP-4 provides the customer with conveniently located terminals for external wiring as required by the particular installation.

**II. REQUIRED EQUIPMENT:**

APP-4 Test Set #TAPP-4  
Variac. 0-140 volts, 7.5AMPS  
Multimeter, Simpson Model 260 or equivalent

**III. PROCEDURE**

A. Ohmmeter continuity checks can be made as follows on the AC input power circuit:

1. Remove "MAIN POWER" indicator lamp I501.
2. Connect shorting bars from 1 to 2.  
4 to 5.  
7 to 8.
3. With "MAIN POWER" circuit breaker CB501 in "on" position, place ohmmeter across AC output terminals. The ohmmeter should read  $\infty$  ohms.
4. Place ohmmeter across one of the AC output terminals and chassis ground. The ohmmeter should read  $\infty$  ohms. REpeat test from other AC output terminal.
5. Insert "MAIN POWER" indicator lamp I501 and place ohmmeter across AC output terminals. Ohmmeter should read the bulb resistance of 600 ohms.
6. With ohmmeter in same position as in (5) above, change shorting bar connections to:  
2 and 3  
5 and 6  
8 and 9

The ohmmeter should read 5500 ohms.

B. The following continuity check can be made on the utility A.C. input connections.

1. With F-501 and F-502 inserted, an ohmmeter placed across the utility AC input terminals should read  $\infty$  ohms.

C. The following continuity checks can be made on the RF filters, external wiring connections, and main cable.

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FROM	TO	OHMS
Terminals 1,10,12,16, on E501 and 17,21,26,28,30 32, on E502	GND	0
Terminal 2, E501	Pin J, on J509	0
Terminal 6, E501	Terminal 7, E501	0
Terminal 9, E501	Pin G, J509	0
Terminal 11, E501	Pin S, J509	0
Terminal 13, E501	Pin M, J509	0
Terminal 14, E501	Pin L, J509	0
Terminal 15, E501	Pin K, J509	0
Terminal 18, E502	Pin R, J509	0
Terminal 19, E502	Pin P, J509	0
Terminal 20, E502	Pin N, J509	0
Terminal 22, E502	Pin H, J509	0
Terminal 27, E502	Pin F, J509	0
Terminal 29, E502	Pin D, J509	0
Terminal 31, E502	Pin B, J509	0
Pin A, J509	GND	0
Pin X, J509	GND	0

REF: Schematic Diagram, APP-4, CK-467

- D. The following electrical test can be performed using test set TAPP-4.
- Set up test set by connecting the 2 prong line cord to a variac.
  - Short the AC output terminals of the APP-4 with the piece of # 10 wire supplied with the test set.
  - Connect terminals 1 and 2 of the test set across the two outermost AC input terminals of the APP-4.
  - Using the variac, slowly increase the current as seen on the test set meter until the circuit breaker opens. The circuit breaker should open at 20 amps,  $\pm 2$  amps. NOTE: There is a one (1) second time delay before breaker will open. Set variac to zero.
  - Change shorting bar connections to 1 and 2  
4 and 5  
7 and 8
  - Using variac, slowly increase current as seen on the test set meter until the circuit breaker opens. The circuit breaker should open at  $40 \pm 4$  amps.
  - This completes testing of APP-4 unit.