

DATE March, 66

SH. 1 OF 7

COMPILED BY
C.A.

TMC SPECIFICATION NO. S 10100

TITLE: COMPLETE INSTRUCTIONS FOR THE PRODUCTION JOB 028/66

APPROVED

TESTING OF THE MODEL PSP-500

COMPLETE INSTRUCTIONS FOR THE
PRODUCTION TESTING OF THE
MODEL PSP-500

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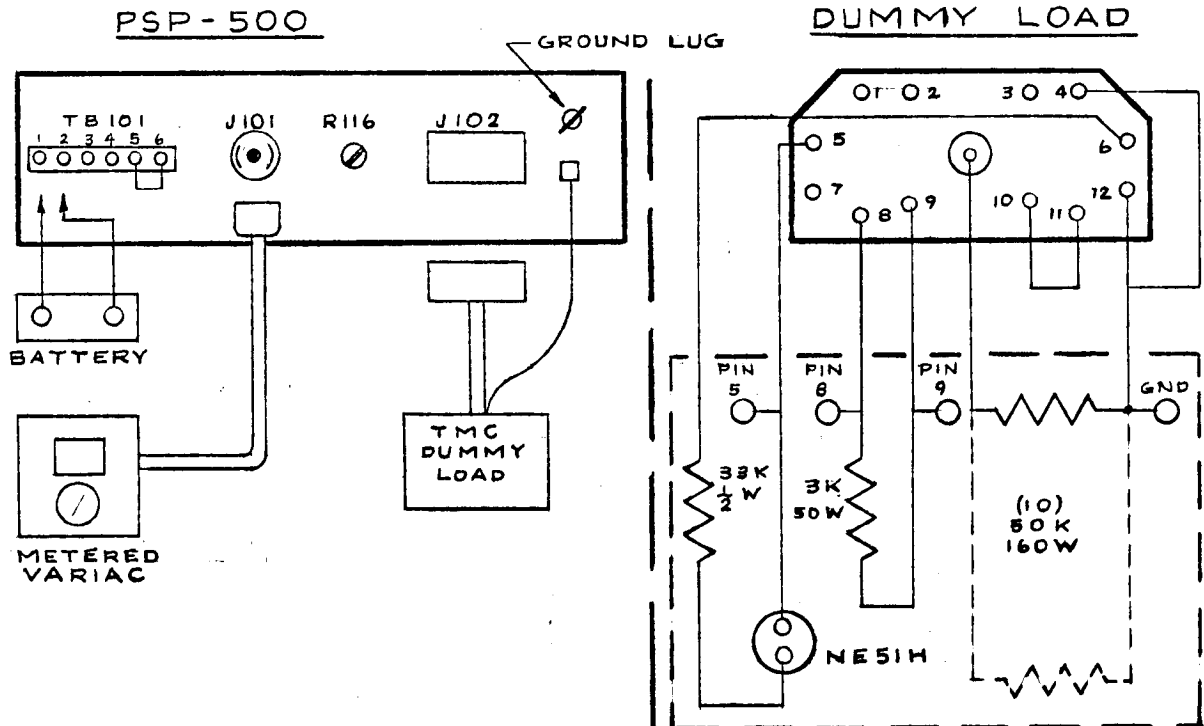
APPROVED

PRODUCTION TESTING OF THE MODEL PSP-500

1. See Instruction Manual
2. TEST EQUIPMENT REQUIRED

- (1) Voltohmeter, Simpson Model 260
- (2) Metered Variac, General Radio Co. Model W10MT3W or equivalent.
- (3) Battery, 20 to 24 VDC, with leads and test prods.
- (4) Power Cord, CA555-3, or equivalent.
- (5) Test Plug and Load Assembly, consisting of:
 - (a) PL160-P
 - (b) Resistor, WW, 3K ohms, 50W
 - (c) 10 each, Resistor, WW, 50K ohms, 160W
 - (d) Lamp Socket, miniature bayonet, TS10007-9-5
 - (e) Lamp, Neon, NE51H
 - (f) Resistor, 33K ohms, 1/2W
 - (g) 4 each, Insulated Binding Posts, (one Black).

3. GENERAL INSTRUMENT LAYOUT



4. TEST INSTRUCTIONS:

- a. Proceed as outlined in Test Sequence and procedure paragraph 5 to follow.
- b. Fill in blanks on report sheet, rejecting these units which do not meet the specifications stated herein.
- c. Sign report sheet and submit it to your supervisor.

5. TEST SEQUENCY AND PROCEDURE:

A. General Inspection

- a. Inspect the unit for obvious mechanical and electrical imperfections.
- b. Inspect the high voltage wiring at J-102, C-106, C-105, C-104, L-104, L-103, T-101, T-102. It must be in accordance with the schematic.
- c. Inspect Values and Tolerances of:
 - R-109, R-110, R-111, R-112, R-113-----20 meg. 5%
 - R-114-----220K 5%.

B. Resistance Check

a.	J-102	to	R lies between the values of
	PIN 1	ground	190K----250K
	2	ground	open
	3	ground	18K---- 22K
	4	ground	50----62 ohms
	5	ground	85K----125K
	6	ground	Short
	7	ground	open
	8	ground	open
	9	ground	open
	10	ground	10----15K (Interlocks pulled OUT)
	11	ground	5K---S103 closed
	12	ground	short
	A-1	ground	80 ---- 140K

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b.

TB-101	to	R
1	ground	open
2	ground	open
2	1	2500 ohms
3	Pin 3 of T-102	short (S103 ON)
4	Pin 1 of T-102	Short
5	N.C.)-Jumper	
6	N.C.) "	

C. Initial Power Check

NOTE: Be certain that the H.V. Breaker (CB102) is OFF.

- (a) (Insert the test plug (with loads) into J102).
- (b) Connect the power, 115 V at 60 cps (or 230 V if the unit is wired for 230 V), to J101.
- (c) Turn on CB101, Main Line, and see if only pilot lamp DS101 lights.
- (d) Pull out plungers of Interlock switches S101 and S102.
- (e) Turn ON S103 (Transmitter Plates). The Interlock Relay K102 must go to the energized position and overload (Breaker OFF) indicator DS103 must light.
- (f) Check S101 by depressing the plunger all the way. Overload indicator DS103 must light.
- (g) Release the plunger of S101, DS103 must go off.
- (h) Pull out the plunger of S101 into the test position and repeat steps h and i but with S102. Then pull out the plunger of S102 into the test position.
- (i) Using metered variac, reduce the input voltage until relay K102 falls out. Fallout point should be less than 75 volts. Return line voltage to 115 V.

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D. Low Voltage Test

- (a) Turn the MAIN LINE switch CB101 to "ON" position. (Leave the high voltage breaker in OFF position).
- (b) Turn TRANSMITTER PLATES switch, S-103 to ON.
- (c) Measure following voltages at J-102.

Pin	to	volts
5	ground	-145 to -155
8	ground	-145 to -155
9	ground	120 to 160
5	8	5 to 6

- (d) With AC VTVM measure pin 9 to ground. RMS voltage must not exceed 0.8 volt.
- (e) Switch TRANSMITTER PLATES switch to STANDBY-REMOTE, Apply 20 to 24 VDC to terminals 1 and 2 of TB101. Lamp on Dummy Load must light.

E. H.V. Test WARNING - Extremely high voltages (up to 3000V) exist. OBSERVE ALL STANDARD SAFETY PROCEDURES

- (a) Set Simpson Model 260 voltmeter on 5000 VDC range and connect it from C106 (+) to ground.
- (b) Set R116 (OVERLOAD ADJUST) to mid range.
- (c) Turn on Transmitter Plate switch.
- (d) Turn H.V. Overload Breaker CB-102 to ON position. The indicator overload "Breaker OFF" I-103 (DS103) must go off.
- (e) The DC voltmeter must now read 1800 to 2300 volts.
- (f) Turn OFF H.V. Overload Breaker and S103. Move positive meter lead to J102, pin 3 or C109 (+).
- (g) Turn ON S103 and the H.V. Overload Breaker. Meter must read + 340 to +380 volts. The indicator Lamp DS104 must light and terminals 3 and 4 of TB101 must have 115 VAC across them.
- (h) Turn OFF all the power.

Units which have met the specifications above are acceptable for shipment. One copy of Test Report Sheet must accompany each Model PSP-500.

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APPROVED _____ TESTING OF THE MODEL PSP-500

TEST REPORT SHEET
MODEL PSP-500

		ACCEPT	REJECT
TEST A	GENERAL INSPECTION	_____	_____
TEST B	RESISTANCE CHECK	_____	_____
TEST C	INITIAL POWER CHECK	_____	_____
TEST D	VOLTAGE TEST	_____	_____
TEST E	H. V. TEST	_____	_____

H.V. _____ VOLTS

MFG NUMBER _____

DATE _____ TESTED BY _____

TMC (CANADA) LIMITED

TEST REPORT SHEET

MODEL PSP-500

ACCEPT

TEST A GENERAL INSPECTION

TEST B RESISTANCE CHECK

TEST C INITIAL POWER CHECK

TEST D VOLTAGE TEST

TEST E H.V. TEST

H.V. _____ VOLTS

CANADIAN MFG. NAMEPLATE

MFG. NO. _____

SERIAL NO. _____

DATE _____

TESTED BY _____