

DATE <u>5/20/58</u>	TMC / SPECIFICATION NO. S-373	E
SH. <u>1</u> OF <u>7</u>		
COMPILED BY O. P.	TITLE:	JOB

APPROVED *[Signature]*

COMPLETE INSTRUCTIONS FOR THE
PRODUCTION TESTING OF THE
MODEL PSP-350 , PSP-350A & PSP-350B

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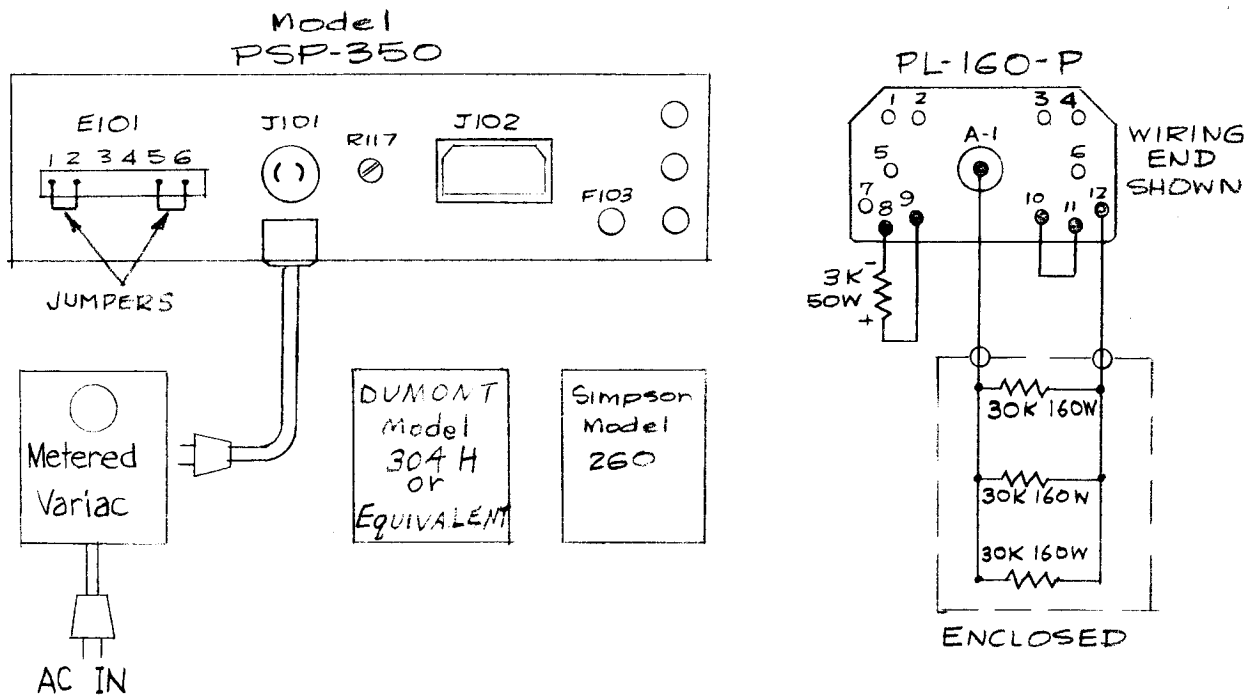
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A

TESTING OF THE MODEL PSP-350 , PSP-350A & PSP-350B

1. SEE INSTRUCTION MANUAL FOR GENERAL DESCRIPTION:
2. TEST EQUIPMENT REQUIRED
 - (1.) Voltohmmeter, Simpson Model 260
 - (2.) Oscilloscope DUMONT Model 304 H or equivalent.
 - (3.) Test plug and load assembly (See general instrument layout)
 - (4.) Metered Variac. General Radio Co. Model #W10MT3W or equivalent.
 - (5.) LOAD, CONSISTING OF:
 - a. PL-160-P
 - b. 3 each. Resistors wirewound 30K, 160 Watt
 - c. Metal enclosure (for protection
 - (6.) Resistor, Wirewound, 3000 ohm, 50 watt
3. GENERAL INSTRUMENT LAYOUT:



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4. TEST INSTRUCTIONS:

- a. Proceed as outlined in Test Sequence and procedure paragraph 5 to follow.
- b. Fill in blanks on report sheet, rejecting those 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 total 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, V-103, V-104, T-102. It must be in accordance with the schematic CK-358, for PSP350 ; CK697 for PSP350A, or CK967 for PSP-350B.
- c. Inspect Values And Tolerances Of:

R-109, R-110, R-111, R-112, R-113-----20 meg. 5%
R-114-----220K 10%

B. Resistance Check

a. J-102	to	R lies between the values of
1	ground	190K---250K
2	ground	open
3	ground	85K----115K
3	ground	410K----530K (with V105 removed)
4	ground	50----62 ohms
5	ground	95K----125K
6	ground	open
7	ground	open
8	ground	open
9	ground	open
10	ground	open (S-103 in stand-by remote)
10	ground	short (S-103 in "on"
11	Pin8 of K101	8.5K----11.5K (K104, S101, S102 closed)
11	ground	open
12	ground	short
A-1	ground	140K----180K

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b. E-101 (TB101)	to	R
1	ground	open (S-103 in stand-by remote)
1	ground	short (S-103 in "ON")
2	ground	short
3	Pin 3 of T-102	short
4	I-102	short
5	N. C.	
6	N. C.	

C. Initial Power Check

A. NOTE: Be sure the H.V. Breaker (CB102) is OFF.

- a. Connect the Power 115 V. at 60 cps. (or 230 V if the unit is wired for 230 V) to J-101.
- b. Turn on CB101, main power, and observe if pilot light (DS101) "Main Power" is on. Voltage regulator V-102 operates, and H.V. rectifiers filaments operate.
- c. Turn off the Main Power.
- d. Insert the test plug (with loads)
- e. Throw TRANSMITTER PLATES switch S-103 to ON position.
- f. Pull out plungers of interlock switches S101, S102.
- g. Turn ON the Main Power to approximately 60 seconds. The transmitter plates relay K-102 must go to energize position, and transmitter plates indicator I-104 (DS104) and overload "breaker OFF" indicator I103 (DS103) must light.
- h. Throw transmitter plates switch S-103 to "stand-by remote" position. I103 (DS103) and I104 (DS104) must go OFF. Return S103 to ON position.
- i. Check S-101, by depressing the plunger all the way. The I-103 (DS103) and I104 (DS104) must light.
- j. Release the plunger of S101, the I-103 (DS103) and I104 (DS104) must go OFF.
- k. Pull out the plunger of S101 into the test position and repeat steps i and j, but with S102. Then pull out the plunger of S102 & throw S103 to "stand-by remote".
- l. Using metered Variac, reduce input voltage until relay K104 (K103 in PSP350A) falls out. Fallout point should be less than 75 volts.

D. Voltage

NOTE: When testing the high voltage, do not connect and disconnect instruments while voltage is on and do not touch anything except main front panel switches. Do not allow anyone to stand by in the vicinity.

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SWP A B

TESTING OF THE MODEL PSP-350 , PSP-350A & PSP-350B

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

pin	to	volts
5	ground	-145 to -155
8	ground	-145 to -155
9	ground	120 to 180
5	8	5 to 6

- c. With AC VTVM measure pin 9 to ground. RMS voltage must not exceed 0.3 volt.
 - d. Turn TRANSMITTER PLATES switch, S-103, to OFF.
- E. H.V. Test
- a. Set Simpson model 260 voltmeter on 5000 VDC range and connect it across H:V. load.
 - b. Place scope between junction of R105 and R107 and ground.
 - c. Remove V105.
 - d. Turn transmitter plates switch S-103 to ON position.
 - e. Turn H.V. overload breaker CB-102 to ON position. The indicator overload "breaker OFF" I-103 (DS103) must go off.
 - f. The DC voltmeter must now read 1800 to 2300 volts.
 - g. The scope must now read AC ripple voltage of not more than 25 V peak to peak.
 - h. Turn OFF all the power.
 - i. Replace V105 and disconnect all the equipment.

Units which have met the specifications above are acceptable for shipment.

One copy of Test Report Sheet must accompany each Model PSP-350, PSP350A or PSP-350B.

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TESTING OF THE MODEL PSP-350, PSP350A & PSP-350B

TEST REPORT SHEET

MODEL PSP-350, PSP-350A,
AND
PSP-350B

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

SERIAL NUMBER _____

DATE _____

TESTED BY _____

