DATE 12-23-60 SH. 1 OF 6	-	TMC	SPECIFICATION
COMPILED BY	TITLE:	TEST PROCE	DURE, P.S4

JOB 4

NO. S⁻⁵²⁶

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NOTE: SEE S580 FOR PS4A TEST PROCEDURE.

A. INTRODUCTION

The P.S.-4 is a low voltage power supply used with the PAL-IK, SBT-IK and other transmitter systems. The main purpose of the P.S.-4 is to supply blower, A,C-, and some B voltages to the RFD-1. In addition, the P.S.-4 provides the primary voltages for the rectifier filaments and high voltage transformers on HIGH VOLTAGE POWER SUPPLY P.S.-5 also makes available external connections for interlocks, remote Keying, relay voltages and blower voltages.

B. TEST PROCEDURE

- 1. Equipment Required
 - 1. Multimeter, Simpson 260.
 - 2. P.S.-4 test jig, complete with interconnecting cables.
 - 3. A.C. input cable.

II. Ohmmeter Continuity Checks

 An ohmmeter placed across the points noted in columns 1 and 2 should result in a reading as noted in column 3. The FINAL VOLTAGE, TRANSMITTER VOLTAGES and MAIN POWER switches should be in the ON position for all ohmmeter readings.

(Continued on next page.)

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TITLE:

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	2	3	4	5	6
FROM	TO	OHMS	ACCEPT	REJECT	INSPECTORS INITIALS
AC INPUT TERMINALS OF J-301	GROUND				
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PIN C, J303	GROUND	10K	etekstelendusjeer in optivis sing et	Page Maria Peri Con Miller and reverse and consequent Supplied	The second secon
PIN d, J303	PIN e, J303	6K			Service residence in the contract of the contr
PIN e, J303	GROUND		Meridian St. Miller usper over president engage.	A Transfer of the Control of the Con	Section of the sectio
PIN A, J303	GROUND	О	Militaria en el 10 de la como que en comparto de la comparto del comparto de la comparto del comparto de la comparto del la comparto del la comparto del la comparto del la comparto de la comparto de la comparto de la comparto de la comparto del la comp	and the second s	Anna e e e e e e e despende ano, a lingua e e e e e e e e e
PIN B, J303	GROUND		томотинсь — педовия видента эколе	And the state of the supplemental property of the state of the supplemental state of the state o	Control of the contro
PIN U, J302	GROUND	0	Professional Control of the State of the Sta		e at Comment and the

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III. VOLTAGE CHECKS USING THE P.S.-4 TEST JIG

- 1. Set FINAL VOLTAGES and MAIN POWER switches to OFF and the TRANSMITTER VOLTAGES switch to STANDBY.
- 2. Connect an AC input cable to J301 of the P.S.-4.
- 3. Connect the cables supplied with the test jig to J302, J303 and E302 of the P.S.-4.
- 4. Connect the COMMON (-) jack of the Simpson meter to J104 on the test jig. (BLACK).
- 5. Connect the (+) jack of the meter to J103 on the test jig. (RED)
- 6. Set the Simpson meter's small selector switch to the -D.C. position and the large selector switch to the 250V position.
- 7. Set the test jig TEST POINT SELECTOR to the BIAS LINE position.
- 8. Set the MAIN POWER breaker on the P.S.-4 to the ON position.

 Adjust LINE VOLTAGE to 115V.
- 9. The following results should be obtained:
 - a. Meter should read 150 volts with the PUSH TO READ METER switch depressed.
 - b. The WHITE lamp marked EXT. 115VA.C. should light.
 - c. The GREEN lamp marked HV RECT. FIL. should light.
 - d. The AMBER lamp marked BLOWER ON should light. Record results on chart on last page.
- 10. Set the TEST POINT SELECTOR switch to the P.A. BIAS position.
- 11. By using the P.A. BIAS ADJ. rheostat located on the P.S.-4 chassis, the voltage on the meter can be varied from 100 to 150 volts. Record results on chart.
- 12. Set the large selector switch on the multimeter to 1000V position and the small selector switch to the +D.C. position.

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- 13. Set the TEST POINT SELECTOR switch to the EXTERNAL 600V D.C. position.
- 14. Depress the PUSH TO READ METER switch. The meter should read between 590 and 620 volts. Record results on chart.
- 15. Set the TEST POINT SELECTOR switch to the IPA PLATE VOLTAGE position and set the TRANSMITTER VOLTAGES switch on the P.S.-4 to the ON position. The red indicator lamp on P.S.-4 should light.
- 16. Depress the PUSH TO READ METER switch. The meter should read 580 to 600 volts.
- 17. Set the TEST POINT SELECTOR switch to the IPA SCREEN and 1st AMPL. VOLTAGES position.
- 18. Depress the PUSH TO READ METER switch. The meter should read 250 volts.
- 19. Set the large selector switch on the multimeter to the 10V.

 position and the small selector switch to the A.C. position.
- 20. Set the TEST POINT SELECTOR to the P.A. FIL. VOLTAGE position.
- 21. Depress the PUSH TO READ METER switch. The meter should read NOT LESS THAN 6 VOLTS.
- 22. Set the TEST POINT SELECTOR switch to the FIL. VOLTAGES position.
- 23. Depress the PUSH TO READ METER switch. The meter should read 6.3 volts minimum.
- 24. Set the large selector switch on the meter to the 1000V. position and the small selector to the + D.C. position.
- 25. Set the TEST POINT SELECTOR to the P.A. SCREEN VOLTAGE position.

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- 26. Set the FINAL VOLTAGES switch on the P.S.-4 to the ON position.
- 27. The following reaults should be obtained:
 - a. The red indicator lamp in the P.S.-4 should light.
 - b. The red indicator lamp in the test jig marked HV XFMR should light.
 - c. The blue lamp marked 115V ANT. RELAY should light.
- 28. Depress the PUSH TO READ METER switch. The meter should read at least 520 volts.
- 29. Set the TRANSMITTER VOLTAGES switch on P.S.-4 to STANDBY position. The red indicator lamps on the P.S.-4 should go out. The red and blue indicators on the test jig should go out.
- 30. Set the TEST POINT SELECTOR to the OFF position.
- 31. Depress the REMOTE XMTR PLATE SWITCH; the two red indicators on the P.S.-4 and the red and blue indicators on the test jig should light. Release switch.
- 32. Disconnect A.C. input cable and interconnecting cables to the P.S.-4. Be sure the chart is filled out.
- 33. This completes testing of the P.S.-4 unit.

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P.S.-4 VOLTAGE TEST CHART

ITEM	CIRCUIT	REQUI RED VOLTAGE	ACCEPT	REJECT	Inspector's Initials
1	BIAS LINE	-150		agest (1998) (1982) in 122 et stellen by 2994 between van bewick (1925).	And the second section of the first section in the second section in the section in the second section in the second section in the second section in the section in the second section in the section i
2	115V AC	WHITE LAMP	Miller State of the Section of the S	набликовом, том ба от на органдуру штараган _{се се се}	a de estra 1986 de Sectionale en di Palación consideramento a constituir a en en en la
3	HV RECT. FIL.	GREEN LAMP	anche harpero, este a septembre especial	PBF cols — 11300 risates (40 Autorative) activity	englatura (plantic or hinderen in professionen englate (plantic or englate) or et al.
4	BLOWER ON	AMBER LAMP	and the state of t		Fit Thinks the land state of the All Thinks the surgery of the second of
5	PA BIAS	-100 to 150	describe allegates pays and	e samely profession and the second of the second of	den kilonin kilongen penganahan pengan pengan pengan pengan
6	EXTERNAL 600V DC	590 to 620	k trokennes garrin i kilo	The state of the s	enter and course and the North Community and the company of the community and the co
7	IPA PLATE VOLTAGE	580 to 600	Petronous authensite and compa	ويورونيون ويورونيون والمراوي المراوي	Mentina is a company of a consequence of a
8 ************************************	IPA SCREEN & 1st AMPL. VOLTAGES	250	ودوير دويوند معاد ده د	er som a er en er er en	80 оборба (1844 годинация) — посторо п
9	P.A. FIL. VOLTAGE	6.0 VAC	nen er	kathantan ka na arab yann sadara kasar na giban na gapaga	Politica est e serialmeti <mark>nad</mark> est es es e iligia e es e inspire
10	FIL. VOLTAGE	MINIUMUM 6.3 VAC	ай дангоо у андыракован (Ульнучу нь <u>в</u> . у	(S) - or in A A A A A A A A A A A A A A A A A A	etalisan (st. vinc.) entietannen er erennigisten statuur Naste. S.
11	HV XFMR	RED LAMP		e de la companya de	ti dalam terminan dan kalanggan kanggang sebagai penganggan dan kemenan dan kelanggan beranggan
12	115V ANT. RELAY	BLUE LAMP	right the end of the second	te fra frank trek i i i variga i vaza i j	State of the state
13	P.A. SCREEN VOLTAGE	520 MIN.	the Control of the co	An electric appropriate	ents the device implication as as well, g
14.	P.S4 indicator lamps	المجاهدة ال المجاهدة المجاهدة ال	#\$V##\$# (BJO) het rangelen en en dy bid om en	terinettiin oli valta käätäjä kähtosiinen aassoo ovakaja ka	A the stands of the endowed the fifther in complete and an included in the second
15	REMOTE XMTR PLATE	The Properties (Africa Inc.) in Agency Considerate (Inc.)	Militar Sentuc, est milet rivez esse , e e	vii võis kiriste Mint etakki viinuu enviensi ai va suoteeta	der i version eta principal mendela provincia del cardinal del la servizión de la servizión de la servizión de
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