	Book 5	GENER	AL 🚳 ELECTRIC	P3K-AL-	-0445-A01
	REV NO.	TITLE	,	CONT ON SHEET	2 sh No. 1
jr - 2	P3K-AL-0445-A01 cont on sheet 2 sh no. 1	TEST INSTRUCT VALVE CIRCUIT FIRST MADE FOR	IONS FOR STANDBY O BOARDS EHC MARK II	CONTROL AND INTER	CEPT
if	SCOPE				REVISIO
	This test procedure det IV CONT. (Assembly 125	tailed below cove 5D4325) (Schemati	ers the checkout o	of circuit board	SB CV
	EQUIPMENT REQUIRED				
+	Equipment Type	2	uantity		
	1. DC Power Supply (0-	·25V)	3		
	2. Digital Voltmeter (DVM)			
	3. Ohmmeter		1 ACTIVE	the Control of the Co	Serve Centra Galactic Property and
				B Tell B Business Madages	Constitution and section of the constitution o
	PROCEDURE		LBY.	DATE:	T. OCLUMENTS
	A. Internal Power Supp	ly	The state of the s		Access representation and communications of the communications of
	1. Connect terminal	l 39 to high qua	lity ground.		
<u>(' '</u>			002 VDC relativ	ve to terminal 20	
1			.002 VDC relativ		
			TP11 with DVM. I		•
	+15.7 ± 1.0 VDC.	,	TITE WICH DVM. 1	t must be	
	5. Measure voltage -15.7 ± 1.0 VDC.	between TP2 and	TP11 with DVM. I	t must be	
	6. Leave +22 VDC, - during rest of t	22 VDC and high ests.	quality ground co	nnected as above	
	B. IC1				
ŀ	1. Connect a 4.5K r	esistor load fro	m terminal 10 +-	torminal 20	
	connect terminal	s Z and 3 togethe	er. Connect TP6	and TD5 +a	
	adjust VR50 for	null (0.000 VDC)	e between TP3 and Tolerance + 1 i	TP11 with DVM,	273-2
	2. Connect TP5 to te	erminal 39 and co	onnect TP6 to -10		273-12
	cerminal 39. Con	nnect terminals ?	2 and 3 together.		273-71*
	Measuring voltage full clockwise ar	between TP3 and	TP11 with DVM, a	djust VR4 first	273-138
	adjustable between set to +10.20 VDC	en +6.0 and +11.(VDC. If range i	s acceptable,	273-221 273- 2 27
القروسية	360 00 T10.20 VDC	· .			PRINTS TO
	J.Polacek Sept. 26, 1977	Steam	Turbine	DIV OR P3K-AL-04	45-A01
ļ	FF-602-WA (B-747)	Schen	ectady, N.Y. Loc	•	2 sh no. 1
	rmared in U.S.A,			TRTO	CODE IDENT NO.

GENERAL (%) ELECTRIC P3K-AL-0445-A01 TITLE CONT ON SHEET 3 SH NO. 2 TEST INSTRUCTIONS FOR STANDBY CONTROL AND INTERCEPT P3K-AL-0445-A01 VALVE CIRCUIT BOARDS CONT ON SHEET 3 sh No. 2 FIRST MADE FOR REVISIONS PROCEDURE (continued) В. (continued) Connect TP5 to terminal 39. Connect TP6 to -1.00 VDC relative to terminal 39. Measure voltage between TP3 and TP11 with DVM. It must be $+2.00 \pm .04$ VDC. Connect TP6 to terminal 39 and connect TP5 to -1.00 VDC relative to terminal 39. Measure voltage between TP3 and TP11 with DVM. It must be $+1.00 \pm .02$ VDC. C. IC2 Connect TP6, TP5 and TP3 to terminal 39. Measuring voltage between TP7 and TP11 with DVM, adjust VR51 for null (0.000 VDC). Tolerance Remove TP3 from com Connect TP6 to terminal 39 and connect TP5 to -1.00 VDC relative to terminal 39. Measure voltage between TP7 and TP11 with DVM. It must be +1.00 + .02 VDC. D. IC3 To Marrie - An entry of the with the second states of the Connect terminal 27 to terminal 39. Measuring voltage between TP8 and TP11 with DVM, adjust VR52 for null (0.000 VDC). Tolerance Connect terminal 27 to +10.00 VDC relative to terminal 39. Measure voltage between TP8 and TP11 with DVM. It must be +10.000 VDC. Tolerance \pm 1 mv. E. Voltage References Measuring voltage with DVM between terminal 26 and terminal 39. Connect terminal 5 to terminal 6. Connect 6.0K load from terminal 26 to terminal 39. Adjust VRI first full clockwise and then full counterclockwise. Range must vary between $+11.65V \pm 0.1$ and +7.20V \pm 0.2 VDC. Set it to \pm 10.00 VDC. 2. Measure voltage with DVM between terminal 36 and terminal 39. Voltage must be $+10.2 \pm .2$ VDC. 3. Measure voltage with DVM between terminal 31 and terminal 39. Voltage must be $-0.91 \pm .02$ VDC. Connect a 1000 OHM resistor across terminals 11 and 39. Measure voltage between terminal 11 and TP11 with DVM as VR5 is rotated

 $-3.69V \pm .31V$ to $-21.9V \pm .102V$. J.Polacek Sept. 26, 1977 SEP 26 1977

APPROVALS Steam Turbine

from full clockwise to full counterclockwise. Voltage must vary from

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P3K-AL-0445-A01

Schenectady, N.Y.

LOCATION CONT ON SHEET

sh No. 2

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PRINTS TO

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P3K-AL-0445-A01 CONT ON SHEET SH NO.

TEST INSTRUCTIONS FOR STANDBY CONTROL AND INTERCEPT VALVE CIRCUIT BOARDS FIRST MADE FOR

PROCEDURE (continued)

REVISION:

(continued)

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5. Connect a 1000 OHM resistor across terminals 12 and 39. Measure voltage between terminal 12 and TP11 with DVM as VR2 is rotated from full clockwise to full counterclockwise. Voltage must vary from $+2.02 \pm .19V$ to $+21.9V \pm .102V$.

F. Resistance Tests

- Measure, resistance between terminals 32 and 35 with ohmmeter as VR3is rotated from full clockwise to full counterclockwise. Resistance must vary between 20,000 \pm 10% and 0 ohms.
- Measure resistance between terminals 23 and 25 with ohmmeter as VR6is rotated from full clockwise to full counterclockwise. Resistance must vary between 0 and 20,000 ohms \pm 10%.
- Measure resistance between terminals 2 and 3 with ohmmeter as VR10is rotated from full clockwise to full counterclockwise. Resistance must vary between 0 and 500 OHMS \pm 10%.
- Measure resistance between terminals ${\bf 5}$ and ${\bf 6}$ with ohmmeter as VR11 is rotated from full clockwise to full counterclockwise. Resistance must vary between 0 and 500 OHMS ± 10%.

Continuity Tests

Measure resistance between the terminals indicated with the ohmmeter to verify continuity:

Terminal 1 Terminal 17 Terminal 19 Terminal 20 Terminal 21 Terminal 24 Terminal 27 Terminal 28 Terminal 29 Terminal 34 TP3	and	Terminal 39 Terminal 20 Terminal 21 Terminal 22 Terminal 39 Terminal 39 Terminal 28 Terminal 29 Terminal 30 Terminal 39 Terminal 39 Terminal 39

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