R. E. VANDERPOOL

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7-18-83

FE BO3-WF 131-82 MD

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COLE 10L

PRINTS To

VII. ELECTRICAL TEST

				GENER	AL B ELECTRIC	304A8473	2
) FF	(V.)		ни		STRUCTION	COME ON SHITT 3 211 NO.	-
c		A8473 _{нгет} 3 зы вы но: 2	? FIRS	T MADE FOR	304A8471		REVISION
		THIS TEST WE BETWEEN A COUTPUTS. TOR TRANSIST CONNECTED I	HANGE IN HE OUTPU ORS ON O N PREPAR	AN INPE TS IN CH THER PWE ATION FO	SUREMENTS OF A TIME IT TO THE PWB AND S HE ACTUAL SYSTEM WI BYS. THE SIMULATED OR THESE TESTS.	LL DRIVE RELAYS LOADS WILL BE	
-	*	CHANGES TO VARIABLE VO CHANGES. I ACCURACY OF	A SPECIF DLTAGE SU THESE TIME: +/5	PPLY TO E INTERN SECONDS		TPUT VOLTAGE SURED WITHIN AN	
	*	UNLESS OTHE	ERWISE IN	DICATED.			
	*	WUST NOT B	E ALLOWED	TO EXC	Y THAT WILL BE APPL EED +/- 15 VDC.		1
	*	U +/- 1 VD	C. AND A	MEASURE	S. A MEASUREMENT OF MENT OF P24 EQUALS	+23 1/- 1 1001	
}	*				"BKHTRP" REFERS TO		
/	1.				SECTIONS IV. AND		
	2.	THE THE PARTY TO T	NS 11.12 ACOM. I	CAN DE	SUPPLY BETWEEN ACC ADJUSTED TO A NEGAT Y SET THE SJPPLY SO	THAT PINS 11.12	
	Α.	POT RAGGE	CHECKS AN	D SETTI		DAL	
	1.	VERIFY THE FULLY SEL RI	CM CM	75 + -3.5 +	#ITH RI) SET AS FOLI /25 VDC /5 VDC /1 VDC	LOMS:	29
+	2.	VERIFY THE FULLY FULLY SET R2	CCW CM	AT 5TP -2.75 -8.0 +	WITH R2 SET AS FOL +/25 VDC /5 VDC /3 VDC	LOWS:	3EL DL1
	***	r* ON THE FO	LLOWING S	STEPS US REMENTS	E A IX SHIELDED PR ON 7TP, 8TP, OR 9T	()BE WHEN **** P. *******	
- 00 C	٦٥)	VERIEY THE	FREQUENC T SHOULD CCW CW	CY AT 91 BE A LO 450-70 20-28. 125 +/	TP WITH R3 SET AS F OGIC SQUARE WAVE.) OO HZ (2.2-1.4 MILL 6 HZ (50-35 MILLIS - 2 HZ (8.0 +/1	OLLOWS: ISECONDS) ECONDS)	PRINTS
٠	MADE BY	R. E. VANDERE 7-18-83	200L	APPROVALS REJ 7/26/83	GENERAL ELECTRIC CO. SALEM, VA.	1 .	SH NO. 2

				GEN	FERAL	My FIF	CIRIC		304A	3473 ₄		2
MO.			11111	<u> </u>		<u></u>			CONT ON SH	rr t 4	\$H NO.	3
304A	8473			TEST	INSTRUC	CTION						
CONT ON	SHFET 4	_{вн но.} 3	FIRST	MADE F	OR 304	A8471						
	V. E. D. T. E. V.	700 50				DI DI	ELAY					REVISI
4.		THE FRUTPUT S							WS:			
	FU	LLY CCW		450-	700 HZ	(2.2-	1.4 M	ILLISEC			15	
		LLY CW I R4 FO						LISECON		NDS)		E
Ľ.	MENTER	TUE ED				TRIP	DEL	AY				
5.		THE FR UTPUT S							M2:			
		TTA CM						AILLISE ISECOND)		
		i R5 FO								NDS)		
В.	OFFLIN	⊢. DC R	EGULATO	R REC	QUESTEL	TEST	S					
							-					
1.		INS 13.										
		(CONNEC						ASURES	RFIME	EN O		
	51	, 22 24 , 24 P2	4COM									
	25	• 56 P	24									
		.28 24 LARM# 01								3		
		RTRP#0										
2.		E VARIA									DR .	
		S AT 6TA ASURES A										
	-15 VIX	C). THE	TIME	BETWE	EN THE	INPUT	r volt	AGE CH	ANGE A	ND WHE		
	"ALARM"	' AND "E	3KR FRP#	TURN	I ON SH	OULD F	BE 2.0	+/- 5. %	5 SEC.			
3.		THE FOL		. ,								
	23.	24 +.	FCOM .4 +/-	.2 VD	C . 49	L						
	25,	26 +. 28 +1	4 +/-	.2 VD	IC .49	L						
								_				
4.	ADJUST AND -1.	THE VAR	ND NOT	VOLTA E "AI	GE SUP ARM" A	PLY SO ND "BK	THAT	GO OU	S BETW T IMME	EEN O DIATFI	_Y _	
		RIFY 21					*		-183		•	3EL
5.		THE CON										DL1
	11,12	ND VERI	FY "AL	ARMH	AND "B	KRTRP"	TURN	ON.	FLAT 3	SEC.		<u> </u>
6.		23,24										<u> </u>
	AMMETER	MEASUR	ES 40	+/- 6	MILLI.	AMPS.	ГНЕМ	REMOVE	THE A	MMETER	2. 니로기	
7.	CONNECT	25,26	TO P24	THRO	UGH A I	DC AMM	ETER .	AND VEI	RIFY (HE 40.	<u> </u>	
	MME i En	MEASUR	E5 4U	- /- 6	MILL.I	AMPS.	THEN	REMOVE	THE A	MWEIEH	(• e _[2.0	PRINT
ADE BY	R. E. VAN	DEBRUOI		PROVALS	CENEDA	L ELECT	TRIC CO	DIY OR	30/-4			<u> </u>
SSUED		PERT OOL	- RE	V 26/83	SALEM,		TUTO 70	_	CONT ON SH		SH NO	3
	7-18 - 83		1 . , , ,	-, 0-	1 SALEM,	VA.		LOCATION	CONT ON SH			OCE ICE

FF 803-WF (11-82-M) FRINTED IN 1154

	GENERAL SA ELECTRIC	304A8473	4
PFV NU.	nnt	- Court me sure.	
304A8473	TEST INSTRUCTION		
CONT ON SHIET 3H NO	FIRST MADE FOR 304A8471		REVISION
C. OFFLINE, AC REGU	LATOR REQUESTED TEST		
INITIALLY SEL SO 15.16 TO P24. OP MEASURES P24 AND	LE VOLTAGE SUPPLY TO 11.12 WI THAT 6TP IS BETWEEN O AND -1 EN OR VERIFY 13.14 ARE OPEN. THAT "ALARM" AND "BKRTRP" AR	THEN VERIFY 21.22	
BETWEEN O AND -1 SO THAT STP MEAS	E VOLTAGE SUPPLY STILL SET SO .5 VDC. QUICKLY ADJUST THE VA URES MORE NEGATIVE THAN -2.5 THE TIME BETWEEN THE INPUT AND "BKRTRP" TURN ON SHOULD	VDC (BUT DO NOT VOLTAGE CHANGE	
3. /ERIFY THAT 21.2	22 MEASURES 24COM.		
4. ADJUST THE VARIA BETWEEL O AND -1 ON AND 21,22 MEA	ABLE VOLTAGE SUPPLY SO THAT 67 1.5 VDC. VERIFY "ALARM" AND ' ASURES 24COM.		
5. REMOVE THE CONNE	ECTION FROM 15.16 TO P24 AND V AND 21.22 STILL MEASURES 24CO	VERIFY "ALARM" AND DM.	
D. WANUAL RESET BUT	TTON TEST		
1. CONNECT 15.16 TO AT 11.12 SO THAT (BUT DO NOT EXC TO TURN ON.	O P24 AND ADJUST THE VARIABLE T 6TP MEASURES MORE NEGATIVE EED -15 VDC) THEN MAIT FOR "A	SUPPLY CONNECTED THAN -2.5 VDC LARM" AND "BKRTRP"	
2. ADJUST THE VARI BETWEEN O AND - REMAIN ON.	ABLE VOLTAGE SUPPLY SO THAT 6 1.5 VDC AND VERIFY "ALARM" AN	TP MEASURES DI*BKRTRP"	
3. PRESS THE RESET	PUSHBUTTON ON THE PWB AND VE AND VERIFY 21.22 MEASURES P2	RIFY "ALARM" AND	
	ECTION BETWEEN 15.16 AND P24.		DL13
E. ON LINE, DO REC	GULATOR REQUESTED TEST	É	
1. CONNECT PIN 1. CONNECT A VARIA SET SO THAT 6TH	ABLE VOLTAGE SUPPLY TO 11.12 P P MEASURES BETWEEN O AND -6.5 RE OPEN. THEN VERIFY 21.22 ME KRTRP" ARE OFF.	VITH IT'S OUTPUT VDC. OPEN OR ASURES 24COM AND	
ALARM RED DI			PRIN

R. E. VANDERPOOL GENERAL ELECTRIC CO. DIV OR 304A8473 5 APPROVALS REV 7/26/83 SH NO. 4 LOCATION CONT ON SHEET 7-18-83 SALEM, VA

FF 803-WF (II-82-M)

						G	ENE	RAL	(3) (LEC	TRIC			304A	8473	6		5
PEV NO.					111	ιF							c	ONT ON SH	urct '	,	SH NO.	,
						TES	ST IN	STRUCT	NOL									
304	A8473	6	SH NO.	5	FIR	ST MAI	DE FOR	304	4A847	1								
CONT OIL	3.72.7		311.10.		1 1 22		22.011											REVISI
2.	AEAS SUPF JO N	SURH PLY VOI	SO I	TWEE HAI ED -	N 0 6TP 15 V	AND MEAS DC).	-6.5 SURES Th	HE II S WOR S ANC	ME	JICK EGAT BETW	LY A IVE EEN	DJUS THAN THE	T T -7 INP	T 6TP HE VA .5 VO UT VO I SEC	RIAB C (B LTAG	UT		
3.	THEN U AN	(A.) (D. −	JUST	VDC.	VAH	TABL	E SU		\$0	THA	ТбТ	P ME	ASU	FOR B RES B OFF			S	
4.	JETW THAT EXCE	IEE.。 こるI EED RM**	0 A P ME -15	ND - ASUR VDC)	6.5 ES M . VE	VDC. ORE RIFY	QUI NEGA THE	CKLY TIVE TIM	AD. THA	NTER' NO -	THE 7.5 VAL	VAR VDC BETWI	IABI (BU) EEN	ASURE LE SU I DO THE IS S	PPLY NOT INST	ANT		
5.		IEE.,												ASURE PTRP"		N		
6.	AS # SUPP ∀ERI	TIV ALA LY FY	E TH RM" BACK "ALA	AN - TUHNS TO A	7.5 5 ON WHER TURN	VDC • QU F 6[S OF	(BUT ICKL P ME F AN	Y HE ASUR	NOT ADJU ES E EN M	EXCI IST BETWI IAIT	EED THE EEN AT	-15 \ VARI/ O ANI	VDC ABLE D -0	ASURE). A E VOL 5.5 V) SEC	S 500 TAGE DC A1	NC		
7.		EEN	O A	E VAI ND -	١.5	VDC.		GE SI	UPPL	.Y S0) TH	AT 61	TP A	MEASJ	RES			
F.	ON L							STED	TES	T								
										-								
1.	SUPP STP	LY MEA:	TO 1 SURE:	1,12 S BET	(MEE	TH V N O	AR[A AND	BLE S	SU PP VDC	LY (RIG THE	INALL N VER	Y S	ABLE SET SE "AL	O THA	١T	D	3EL
2.	NEGA OBSE	TIVI RVI: U. S U.	E TH. NG TH N. TH (WAI)	AN -7 HE VO HE VO	7.5)LTA()LTA(VDC GE A' GE A'	(BUT T 21 T 21	DO 1	TOP TA UOHE	EXCE THE LD C	ED -	-15 V ME WH GE FR	/DC) HEN ROM	P24 1	LE RM" TO			

APPROVALS MADE BY GENERAL ELECTRIC CO. DIV OR 304A8473 REV 7/26/83 <u>sн но.</u> 5 LOCATION CONT ON SHEET 7-18-83 SALEM, VA. CODE ICENT

PRINTS T

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	••	304A8473	
EV (f)	mr	CONT ON SHITT FL. SHIN	o, 6
20/40/72	TEST INSTRUCTION		
304A8473 CONT ON SHEET FL. SH NO. 6	FIRST MADE FOR 304A8471		
Econ, on social PL, anno.	princt parce (or		RE'
G. POWER UP KESET	TEST		
THAT 6TP MEASUR 24COM VDC) AND	ABLE VOLTAGE SUPPLY (CONNECTED ES LESS NEGATIVE THAN -6.5 (BU VERIFY "ALARM" AND "BKRTRP" ST	T DO NOT EXCEED	
SHOULD MEASURE	24COA.		
2. TURN OFF P24. P	15. AND NIS SUPPLIES FOR A FEW	SECONDS.	
3 FIED DOM DIE	AND NIS SUPPLIES BACK ON AND V	EDIEV KED IS	
	5.5 VDC AND 24COM. "ALARM" AND		
	15. AND N15 SUPPLIES AND THEN SO THAT 6TP MEASURES MORE NEGA		
	EXCEED -15 VDC).	in the second second	
5. IURN 224. P15. /	AND NIS SUPPLIES BACK ON AND "	AT ADMM SHOULD	
	+/- 1 SECONDS. AS SOON AS "A		-
	ABLE VOLTAGE SUPPLY SO THAT 6T		- [
	1.5 VDC"ALARM" SHOULD STAY (S AND VERIFY "BKRTRP" DOES NOT		
ELAST TO SECURDS	S AND VEHIEL "BURILDES NOT	IONN ON.	
	ECTION BETWEEN 15.16 AND P24 A	ND VERIFY "ALARM"	
TURMS OFF.			
H. FINAL POT SETTIN	16S		
ON DELAY			
(15.0 +/I MIL	AT THE FREQUENCY AT 7TP IS 66. LISECOND PERIOD)	7 +/2 HZ.	
TRIP DELA 2. ADJUST R5 SO THA	Y AT THE FREQUENCY AT 8TP IS 50.0) +/= .2 H7.	
(10.0 +/1 MIL	LISECOND PERIOD)		
END OF TEST		į	1
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LOCATION CONT ON SHEET FL. SH NO. 6