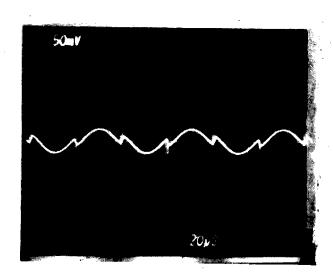
- 9.0 TEST SPECIFICATIONS
- 9.0.1 INPUT VOLATGE AND CONNECTIONS (CB1 MUST BE "OFF").
- 9.0.1.1 CONNECT TB2-6 TO TB2-7. CONNECT TB2-3 TO TB2-5 AND TB2-4 TO TB2-5. CONNECT TB1-4,5,6 TOGETHER.
- 9.0.1.2 CONNECT A O TO 132 VRMS AC INPUT, 47-63 HZ, RATED AT SAMPS BETWEEN TB1-1 AND TB1-2. ADJUST TO ZERO VOLTS.
- 9.0.1.3 CONNECT RESISTIVE LOADS PER THE FOLLOWING TABLE:

<u>VOLTS</u>	RESISTOR	CONNECT RESISTOR(S) BETWEEN
+5	.660, 37.5W,3 TACH	ONE RESISTOR BETWEEN
		J1-5 TO J1-6, J1-9 TO J1-7 AND
		J2=5 TO <b>J2-6.</b>
+28	280, 28W	J1-8 AND J1-6
+15	7. <b>5</b> Ω <b>, 30</b> ₩	J2-10 AND J2-12
<b>-</b> 15	7. <b>5</b> Ω, <b>30</b> ₩	J1-11 AND J1-12

- 9.0.1.4 CONNECT R5H (J1-3) TO ONE OF THE P5 LOAD RESISTORS.
- 4 9.0.1.5 ON THE NPSC CONTROL, CARD, CONNECT +15VDC BETWEEN TA-1 AND TA-24 (COM)

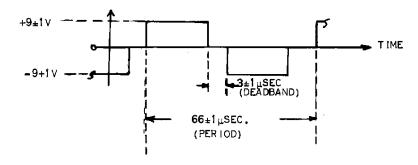
  AND +15VDC BETWEEN TA-2 AND TA-24 (COM), CONNECT NEGATIVE SUPPLY FIRST, EACH SUPPLY
  - 9.0.1.6 RATED AT 200 M.A. MIN. 9.0.1.6 HAVE AVAILABLE A 1K, ±5 % 1/2W RESISTOR.
  - 9.0.2.2 POWER TEST
  - 9.0.2.1 DO NOT APPLY POWER (CB1 MUST BE OFF).
  - 9.0.2.2 WITH AN OCILLOSCOPE, OBSERVE THE VOLTAGE FROM TRE-7 TO JUS (LOCATED ON THE NPDA CARD) IT SHOULD BE AS SHOWN BELOW. THE AMPLITUDE MUST BE LESS THAN 200HV P-P AND THE SHAPE OFTHE WAVE FORM MUST BE AS DEPICTED.



MN. 10EU FORD W. 1 C	DKW	Total many 14/1/17	SENERAL ELECTRIC	TEST SPECIFICATION	s
/0//3/77	2520	POST MADE FOR MIQ.	<del>-</del>	<del></del>	
S. BROWN	DL119	I.C. NO.	SALEM. VA. U.S.A.	CONT. ON SH. 9BA	9AA
				u.	

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9.0.2.3 TURN ON CB1, WHILE OBSERVING THE OSCILLOSCOPE, INCREASE THE VOLTAGE OF THE O TO 132 VAC POWER SUPPLY TO 30V RMS.



- 9.0.2.4 LOOK AT THE WAVEFORM ON THE OSCILLOSCOPE. THE PEROID SHOULD READ TO  $66\pm~1\mu$  SEC THE DEADBAND (SEE DIAGRAM) READS TO SE  $1\mu$  SEC.
- 9.0.2.5 REMOVE THE +15 AND -15VDC POWER SUPPLIES CONNECTED TO TA-1, TA-2 AND TA-24 ON THE CONTROL CARD. CONTINUE TO OBSERVE THE WAVEFORM PER 9.0.2.3 AND INCREASE THE 0 TO 132VAC INPUT TO SOVERS.
- 9.0.2.6 MEASURE THE FOLLOWING OUTPUT VOLTAGES AND ADJUST POTS ON THE NPSC CONTROL CARD PER THE TABLE BELOW:

VOLTAGE	FROM	<u> 70</u>	ADJUSTMENT POT
+5.1 ±.1VDC	TP2	TP3	R1
+15.1 ±.1VDC	TP4	TP6	R9
* 27.25 ±.75VDC	TP1	TP3	R <b>8</b>
-15.1 ±.1VDC	TP5	TP6	RIO

- 9.0.2.7 OBSERVE THAT STATUS LIGHT GLOWS ON THE NPSC CONTROL CARD.
- 9.0.2.8 MEASURE THE OUTPUT RIPPLE PER THE FOLLOWING TABLE:

FROM TO SUPPLY	RIPPLE VOLTS (MAX)	SPIKES P-P (MAX)
J1-5 J1-6 P5	50MV P≈P	150MV
J1 <b>-8</b> J1 <b>-6 P28</b>	15 <b>0</b> MV P-P	6 <b>00</b> MV
J2-10 J2-12 P15	¹5′OMV P⊢P	180MV
J1=11 J1=12 N15	<b>50</b> MV P-P	180MV
RIPPLE	VERIFY VOLTAGES ARE PRESEN	NT ON FOLLOWING OUTPUTS.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	P5V J2-5	J <b>2-</b> 6
	<b>P28</b> V J <b>2</b> -8	J <b>2-</b> 6
	P15V J1-10	J <b>1-12</b>
	N15V J2-11	J <b>2-12</b>
* 2 SET AS CLOSE TO +27VDC AS POSSIBLE		

3 OFE 11-28-74					
REV. 1 0 EQ FORD REV. 2 6/22/78 FORD 8-29	OFB BXW	MPROVALS ON STEWART	GENERAL ELECTRIC	TEST SPECIFICATI	ONS
155460 10/13/77	PRINTS TO 2520	PARST MADE GOT INCO.		D S 3 8 2 0 P S 3	SM. NO.
MADE BY M. SMITH	DL119	I.C. <b>но</b> ,	SALEM, VA. U.S.A.	PUSH, 9CA	9BA
				7 👄	

9.0.2.9 INCREASE THE ACTINPUT VOLTAGE TO 132 VRMS AND ASCERTAIN THAT THE CHANGES IN OUTPUT VOLTAGES PER THE FOLLOWING TABLE ARE MAINTAINED, AND THE ± EXCURSIONS OF THE WAVEFORM SHOWN IN 9.0.2.3 ARE WITHIN ±10 VOLTS OF EACH OTHER.

MAX. CHANGE IN OUTPUT

VOLTS F	ROM . 80 TO 1324RMS	FROM	<u>T0</u>	
(+5)	50MV MAX	T <b>P2</b>	TP <b>3</b>	
(+15)	150MV MAX	TP4	TP <b>6</b>	
(+28)	280MV MAX	TP1	TP3	
(-15)	150MV MAX	TP5	TP <b>6</b>	

( ) = VOLTAGE TO BE MEASURED.

- 9.0.2.10 TURN CB1 "OFF".
- 9.0.2.11 REMOVE THE JUMPERS FROM TB2-3 TO TB2-5 AND TB2-4 TO TB2-5.
- 9.0.2.12 WAIT 5 SECONDS. TURN CB1 "ON". VOLTAGES MUST BE BER 9.0.2.6. ADJUST THE AC INPUT VOLTAGE TO 80 VRMS.
- 9.0.3 SHORT CIRCUIT TEST
- 9.0.3.1 JUMPERS J1=5 TO J1=6. THE POWER SUPPLY MUST SHUT DOWN. REMOVE THE JUMPER FROM J1=5 TO J1=6.TURN CB1 OFF AND WAIT 15 SECONS.
- 9.0.3.2 TURN CB-1 ON. JUMPER J1-8 TO J1-6. THE POWER SUPPLY: MUST SHUT DOWN, REMOVE THE JUMPER FROM J1-8 TO J1-6, TURN CB1 OFF AND WAIT 16 SECONDS.
- 9.0.3.3 TURN CB1 ON, JUMPER J2-10 TO J2-12. POWER SUPPLY MUST SHUT DOWN.

  REMOVE THE JUMPER FROM J2-10 TO J2-12. TURN CB1 OFF AND WAIT 36 SECONDS.
- 9.0.3.4 TURN CB-1 ON. JUMPER J1-11 TO J1-12. POWER SUPPLY MUST SHUT DOWN.
  REMOVE THE JUMPER FROM J1-11 TO J1-12. TURN CB1 OFF AND WAIT 35 SECONDS.
- 9.0.4 OVERVOLTAGE TRIP LEVELS
- 9.0.4.1 REMOVE JI AND J2. TURN CBI ON.
- 9.0.4.2 OBSERVE THE VOLTAGE FROM TP2 TO TP3 WHILE ADJUSTING R1 CW (ON THE CONTROL CARD). THE POWER SUPPLY MUST SHUT DOWN BEFORE THE VOLTAGE BETWEEN TP2 AND TP3 EQUALS + 7VDC. TURN CB1 OFF.
- 9.0.4.3 WALT 30 SECONDS, ADJUST RI COW TWO TURNS. TURN CBI ON.
- 9.0.4.4 OBSERVE THE VOLTAGE FROM TP4 TO TP6. ADJUST R9 CW (ON THE CONTROL CARD)
  UNTIL THE "POWER" SUPPLY SHUTS DOWN. THE VOLTAGE BETWEEN TP4 AND TP6 MAST BE LESS
  THAN +18VDC. TURN CB1 OFF.

REV. T PJR 3-9-13 10 EO FORD REV. 2 OF6
6/2-478 FORD 8-28-79 REV. 10 EO BKW ELECTRIC TEST SPECIFICATIONS GENERAL PRINTS TO FARST MABÉ FOR MEQ. 10/13/77 SH. NO. D S 3 8 2 0 P S 3 MADE BY SALEM, VA. U.S.A. CONT. ON SH. 9DA . M. SMITH I.C. NO. 9CA

- 9.0.4.5 WAIT 30 SECONDS, ADJUST R9 CCW ONE TURN. TURN CB1 ON...
- 9.0.4.6 OBSERVE THE VOLTAGE BETWEEN TP5 AND TP6. ADJUST RIO CW UNTIL THE POWER SUPPLY SHUTS DOWN, THE VOLTAGE BETWEEN TP5 AND TP6 MUST BE LESS THAN -18VDC. TURN CB1 OFF.
- 9.0.4.7 WAIT 30 SECONDS, ADJUST RIO TWO TURNS COW AND RECONNECT JI AND JZ. TURN CBI ON.
- 9.0.5 RESET OUTPUT VOLTAGE PER STEP 9.0.2.6, MEASURE THE AC INPUT CURRENT, 1T MUST BE LESS THAN 6 AMPS RMS.
- 9.0.6. <u>UNDER VOLTAGE SENSOR</u>
- 9.0.6.1 ADJUST R1 SLOWLY CCW UNTIL THE STATUS LIGHT GOES OUT. MEASURE THE VOLTAGE FROM TP2 TO TP3. IT: MUST BE +4.75 ±.05VDC. MEASURE THE VOLTAGE FORM J1=1 TO TB1=5.IT MUST BE .1 ±.1VDC. CONNECT A 1K RESOSTOR FROM J1=5 TO J1=2. MEASURE THE VOLTAGE FROM J1=2.742=2.TO TB1=5437T MUST BE 4.75± .5VDC.
- 9.0.6.2 READJUST R1 FOR + 5.1  $\pm$ .1VDC BETWEEN TP2 AND TP3. MEASURE THE VOLTAGE BETWEEN J2=1, J1=1 TO) TB1=5.IT MUST BE + 4.6  $\pm$ .4VDC. MEASURE THE VOLTAGE FROM J1=2,72=2 TO TB1=5. IT MUST BE +,1  $\pm$ .1VDC.
- 9.0.7 D.C. INPUT WOLTS OPERATION

  REMOVE THE AC INPUT VOLTAGE CONNECTED BETWEEN TB1-1 AND TB1-2. REMOVE JUMPER FROM TB2-6 TO TB2-7 AND CONNECT TB2-7 TO TB2-8. CONNECT O-140VDC AT 6 AMPS BETWEEN TB1-1 AND TB1-2 (POS. TO TB1-1). MONITOR THE VOLTAGE BETWEEN TP2 AND TP3

  (ON THE NPSC) AS THE D.C. INPUT VOLTAGE IS INCREASED FROM ZERO TO +140VDC.

  THE VOLTAGE FROM TP2 TO TP3 MUST BE +5 ±.1VDC FOR D.C. INPUT VOLTAGES GREATER THAN +70VDC AND LESS THAN +140VDC.
- \$.0.8 REMOVE JUMPERS FROM TB1-4,5,6.
- 9.0.9 END TEST.

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