GENERAL ELECTRIC

68A993207 CONT ON SHEET 2 SH NO. 1

REV NO. A

68A993207 CONT ON SHEET 2 SH NO. 1

TITLE

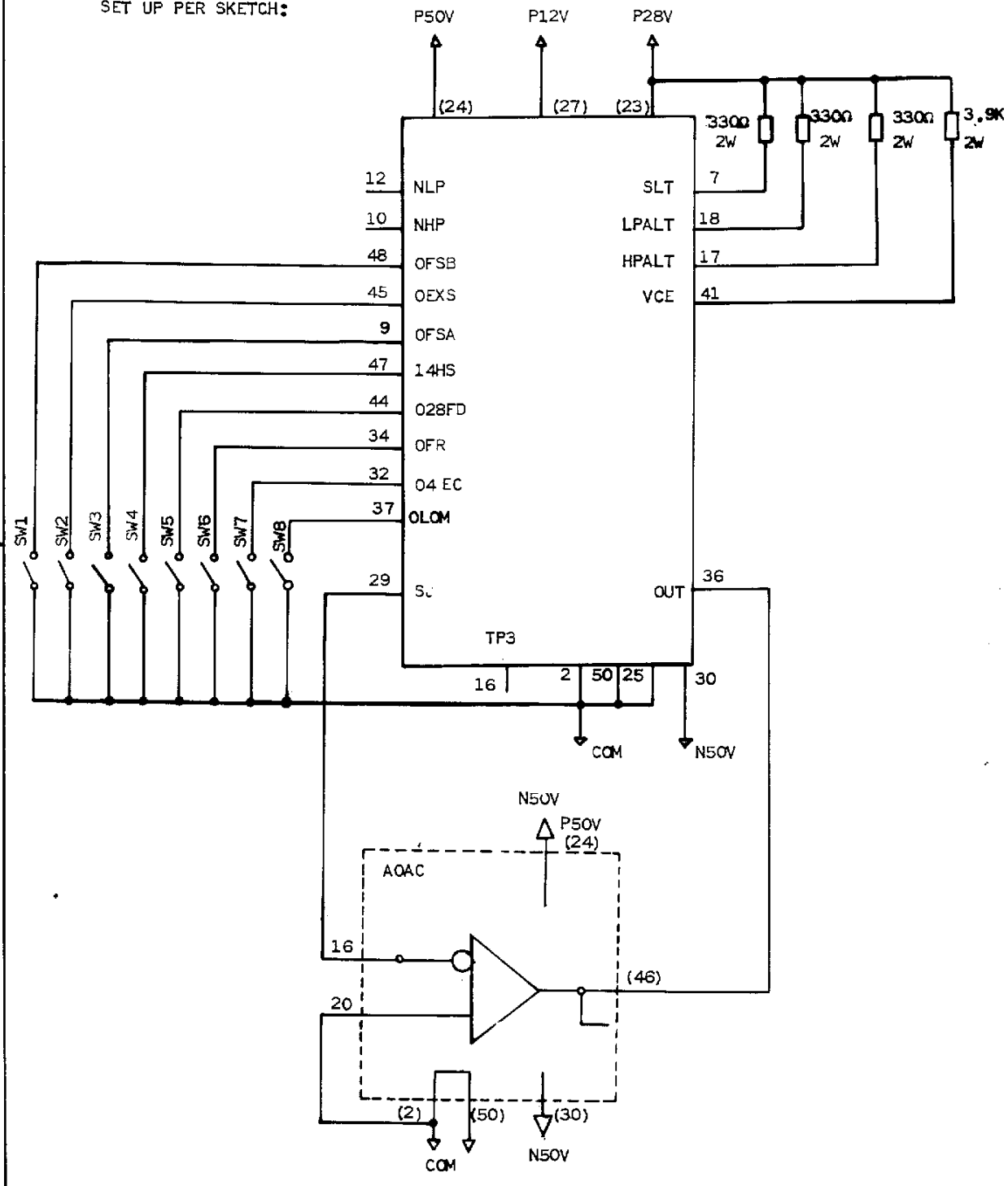
STARTUP CONTROL

TEST INSTRUCTIONS

FIRST MADE FOR IC3600SSKA1

REVISIONS

SET UP PER SKETCH:



REV. 1 9-18-72 PDA

1338

PGA

2528

GVL-1

6V

PRINTS TO

MADE BY J.L.SMITH

ISSUED Aug. 16, 1968

APPROVALS R.K.D.

INDUSTRY CONTROL DIV OR DEPT.

SALEM, VIRGINIA LOCATION

68A993207 CONT ON SHEET 2 SH NO. 1

CODE IDENT NO.

FF803-WF (2-66)
PRINTED IN U.S.A.

TITLE
STARTUP CONTROL
TEST INSTRUCTIONS

FIRST MADE FOR IC3600SSKA1

1. SET R107 (MIN) FULLY CCW. TURN R104 (WU) FULLY CCW. TURN R103 (ACC) FULLY CW.

FOR THE TABLE BELOW CHECK THAT VOLTAGE VCE (41) IS THE PROPER VALUE AND HAS THE ADJUSTMENT RANGE SHOWN. THEN ADJUST VCE TO THE VALUE GIVEN UNDER "NOTES". LIFT ONE SIDE OF C6.

STEP	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8	ADJUST POT	MAX	MIN	NOTES
A	O	O	O	C	O	O	O	O	-	0.4	0	
B	O	O	O	C	O	C	O	O	-	0.4	0	
C	O	O	O	C	O	O	C	O	-	0.4	0	
D	O	O	O	C	O	C	C	O	R105(FIRE)	10-11	5.5-6.5	SET TO 9V. ±.1
E	O	O	O	C	C	C	C	O	R104(WU)	8.1 - 9.5	4.0-4.9	SET TO 7V. ±.1
												10 SEC. DELAY
F	O	C	O	C	C	C	C	O	R103(ACC)	13-15	7-9.5	SET TO 12V

RE-CONNECT CAPACITOR C6.

G OPEN SW2 TO RETURN VCE TO 7V, ±.3V. CLOSE SW2 AND CHECK TIME FOR VCE TO REACH 10V. THIS MUST BE 60 ±15 SEC.

K	C	C	O	C	C	C	C	O	16.5 TO 19V.

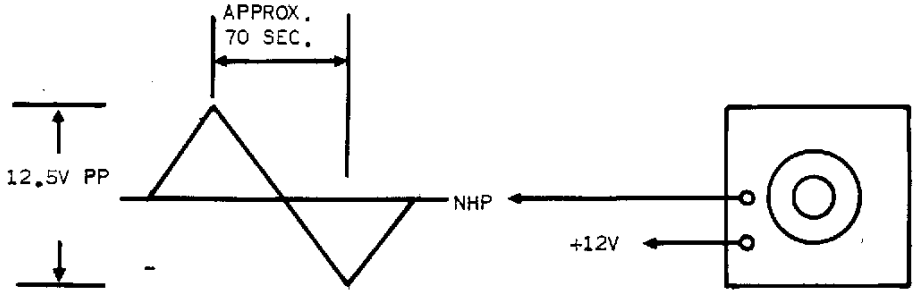
I OPEN SW2 TO RETURN VCE TO 7.2V ± .3. CLOSE SW2 AND CHECK TIME FOR VCE TO REACH 14V. THIS MUST BE 30 ± 10 SEC.

J	O	C	O	O	C	C	C	O	21 - 25V
K	O	C	O	O	C	C	C	O	PUSH MIN. (PB4) ADJ. R107 CCW 4.TO 5V.
L	O	C	O	O	C	C	C	O	ADJ. R107 CW 8 TO 9V.
M	C	O	O	C	O	O	O	O	VCE MIN= 0V SET R107 TO 6V.
N	C	O	O	C	O	O	O	O	17.0V± 1.0V SHORT J1, J2 (FRONT PANEL, JACKS)
O	O	O	O	C	O	O	O	O	17.0V± 1.0V PUSH PB1. (ACC) REMOVE JUMPER J1.J2
P	O	O	O	C	O	O	O	O	7V± .1 PUSH PB3. (WU)
Q	O	O	O	C	O	O	O	O	21-25V PUSH PB3. (MAX)
	O	O	O	O	O	O	O	O	9V ± .1 PUSH PB5. (FIRE)

SEE NOTE BELOW

2. OPEN SW4 AND CLOSE OTHERS. SLT (7) OUTPUT SHOULD BE LESS THAN 0.7V. PUSH PB3 (MAXIMUM). SLT OUTPUT SHOULD GO TO 28V ±2V.

3. CLOSE SWITCHES SW2, SW4, SW5, SW6, SW7. TURN R100 AND R101 FULLY CW. CONNECT A TRIANGULAR WAVE OF FREQUENCY 0.01 CPS, WITH 12.5V P-P OUTPUT TO NHP (10) INPUT PER DIAGRAM BELOW. NOTE THAT COM TERMINAL OF THE GENERATOR GOES TO +12V. UNGROUND THE SIGNAL GENERATOR IF NECESSARY.



SIGNAL GENERATOR

*NOTE: APPROX 2 MIN. TIME DELAY BEFORE STEP M MEASUREMENT.

REVISIONS

REV	
1	4-11-69
2	12-16-69
3	8-15-70. 1-30-71. 8-25-71
4	
5	
6	9-8-72 PER ECO 11/1/89 REV

REV. 3 AC WRIGHT
Rev. 5-G.R.HARRIS

1338

2520

PRINTS TO

WHEN THE TRIANGULAR WAVE SIGNAL IS POSITIVE-GOING, INCREASE THE FREQUENCY SLIGHTLY TO A VALUE THAT WILL HOLD VCE AT 9 VOLTS. THIS FREQUENCY MUST BE BETWEEN .008HZ AND 0.012HZ. WHEN VCE IS LESS THAN 12 VOLTS, (17) HPALT MUST BE LESS THAN 0.7 VOLTS.

REPEAT THE ABOVE TEST FOR THE SIGNAL GENERATOR INPUT ON (12) NLP AND CHECK THAT LPALT(18) GOES TO LESS THAN 0.7V WHEN VCE DROPS BELOW 12V.

CLOSE SW3. WITH THE SIGNAL GENERATOR CONNECTED TO (10)NHP INCREASE THE FREQUENCY SLOWLY TO A VALUE THAT WILL HOLD VCE AT 9 VOLTS. WHEN THE TRIANGULAR WAVE IS POSITIVE-GOING. THIS FREQUENCY MUST BE BETWEEN .016HZ AND .024HZ.

4.1. WITH THE CARD REMOVED, MEASURE THE RESISTANCE BETWEEN (16) TP3 AND (30) N50. THIS MUST BE BETWEEN 500K AND .600K.

4.2. READ OHMS FROM PIN 16 TO PIN 20. SHOULD BE 470K ±5%.

4.3. VISUALLY CHECK THAT R109 IS 470K.

4.4A. READ OHMS FROM PIN 46 TO PIN 24 WITH R106 CW. SHOULD READ 0 OHMS.

4.4B. ADJ. R106 CCW AND READ OHMS PIN 46 TO PIN 24. SHOULD READ 20K ± 5%.

4.4C. CHECK THAT ALL POTS ON CARD ARE ADJUSTABLE FROM FRONT OF CARD.