

# GENERAL ELECTRIC

68A993319

CONT ON SHEET FL. SH NO. 1

REV NO. A
68A993319
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TITLE	CURRENT SENSOR AMPLIFIER TEST SPECIFICATIONS
FIRST MADE FOR	IC3600A1AA-B-C-E

ELEMENTARY IC3600A1AA IC3600A1AB, IC3600A1AC IC3600A1AE

POWER INPUT +50V ON PIN 50, COMMON ON PIN 42 (50V SUPPLY MUST BE FLOATING)  
10KC, 10V PEAK TO PEAK SQUARE WAVE TO PINS 36 AND 45. (USE  
IC3600A VIA OR AV:B PIN 30 AND 32) *Graphic on page 2*

## CHECK FLOATING POWER SUPPLY

VOLTAGE FROM PIN 30 (+) TO PIN 28 SHOULD BE 22±2 VOLTS. VOLTAGE FROM PIN 26 (-)  
TO PIN 28 SHOULD BE 22 ± 2 VOLTS.

## ZERO AMPLIFIER

SHORT INPUT PIN (16) TO PIN (18)

R50 CW  
ADJUST R51 FOR ZERO OUTPUT-VOLTAGE ± 5 MV FROM PIN-12 TO PIN 14...

R50 CCW  
ADJUST R51 FOR ZERO OUTPUT-VOLTAGE ± 5 MV FROM PIN 12 TO PIN 14.  
VERIFY PIN 24 TO FCOM (28) IS 2.7K OHMS.

## \* CHECK GAIN RANGE *SEE \* BELOW FOR A1AE*

APPLY A 50 MV DC SIGNAL TO PINS (16) AND (18). ADJUST R50 FROM CCW TO CW. OUTPUT  
VOLTAGE SHOULD VARY AS FOLLOWS. A1AA AND A1AB: 2 TO 15±1V VOLTS. A1AC: 4.4  
± .5V TO 12.5 ± .5V. LEAVE R50 IN MAXIMUM CW POSITION.

## CHECK SATURATION LEVEL

CONNECT 2.2K LOAD FROM PIN 12 TO PIN 14. APPLY A 200 MV DC SIGNAL TO PINS 16 AND 18.  
OUTPUT MUST BE AT LEAST 20 VOLTS. REVERSE INPUT SIGNAL. OUTPUT MUST BE AT LEAST  
20V WITH OPPOSITE POLARITY.

## GAIN LINEARITY

- ADJUST GAIN POT R50 FULL CW.
- APPLY JUMPER BETWEEN PINS 16 AND 18.
- ADJUST NULL POT R51 FOR 0.00V± 1MV AT OUTPUT PINS 6 AND 8. REMOVE JUMPER PINS 16 TO 18.
- APPLY POSITIVE MILLIVOLT SOURCE PIN 18 TO 16 AND ADJUST FOR OUTPUT OF ±15.00 VOLTS ±10MV AT PINS 12 TO 14.
- REVERSE POLARITY OF MILLIVOLT SOURCE AND NOTE THAT VALUE OF OUTPUT IS -15.00 VOLTS ±50MV FROM PIN 12 TO PIN 14.

## TRIMPOT SUPPORT

ASSURE THAT BEAD OF PC-22 POLYURETHANE HAS BEEN APPLIED TO BASE OF TRIMPOT  
FOR MECHANICAL SUPPORT.

ON IC3600A1AE CHECK GAIN RANGE AS FOLLOWS:

APPLY A 100MV DC SIGNAL TO PINS (16) AND (18).  
ADJUST R50 FROM CCW TO CW. OUTPUT VOLTAGE SHOULD VARY AS FOLLOWS:  
14VOLTS TO 22.5 VOLTS. LEAVE R50 IN MAXIMUM CW POSITION.

## REVISIONS

11	TYPING CLG 8/6/74	A1	RCH. 9/12/68
12			

10	JBT 10/30/72	RE HANNAH 8/23/69
9	8/15/71	AC WRIGHT 11/14/70
8	8/15/71	AC WRIGHT 8/10/71
7	8/15/71	AC WRIGHT 8/10/71
6	8/15/71	AC WRIGHT 8/10/71
5	8/15/71	AC WRIGHT 8/10/71
4	8/15/71	AC WRIGHT 8/10/71
3	8/15/71	AC WRIGHT 8/10/71
2	8/15/71	AC WRIGHT 8/10/71
1	8/15/71	AC WRIGHT 8/10/71

15	6/28/78 PJR	REV. A8	AC WRIGHT 11/14/70
14	BUS45GR	REV. A7	AC WRIGHT 8/10/71
13	BUS38AFM	REV. A6	AC WRIGHT 8/10/71
12	PDA 6-9-76	REV. A5	AC WRIGHT 8/10/71
11	JVG 2/24/76 TYPING	REV. A4	AC WRIGHT 8/10/71
10	CVF 12/12/75	REV. A3	AC WRIGHT 8/10/71
9		REV. A2	AC WRIGHT 8/10/71
8		REV. A1	AC WRIGHT 8/10/71

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12	PDA 6-9-76	REV. A5	AC WRIGHT 8/10/71
11	JVG 2/24/76 TYPING	REV. A4	AC WRIGHT 8/10/71
10	CVF 12/12/75	REV. A3	AC WRIGHT 8/10/71
9		REV. A2	AC WRIGHT 8/10/71
8		REV. A1	AC WRIGHT 8/10/71

MADE BY	J. H. SMITH	APPROVALS	DRIVE SYSTEMS	DRY OR DEPT	68A993319
ISSUED	September 27-1967	ETC.	SALOM, VIRGINIA	LOCATION	CONT ON SHEET FL. SH NO. 1

