GENERAL ELECTRIC

TITLE: LINEAR TAPER TEST SPECIFICATIONS

FIRST MADE FOR STANDARD LINE

68A993308 CONT ON SHEET FL. SH NO. 1

ELEMENTARY IC3600ALTC1 SHEET 3.0 AND IC3600ALTD1 SHEET 3.0
POWER INPUT   PIN 24   +50 VOLTS
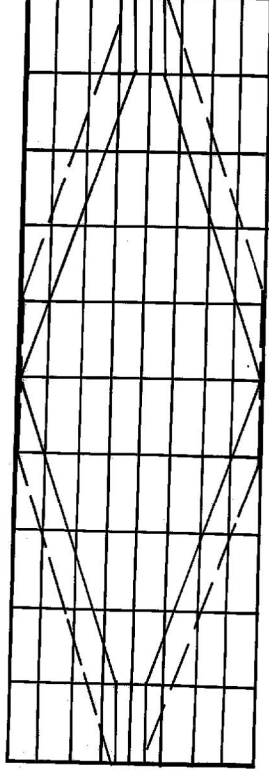   PINS 2 AND 50 COMMON
              PIN 30   -50 VOLTS

INPUT RESISTOR - 100K 1% TO PIN 20

CHECK TRIMPOT ADJUSTMENT RANGE - CONNECT INPUT RESISTOR TO COMMON. TURN TRIMPOT R26 ALL THE WAY COUNTER-CLOCKWISE. VOLTAGE ON PIN 46 MUST BE AT LEAST 25 VOLTS. TURN R26 ALL THE WAY CLOCKWISE. VOLTAGE ON PIN 46 MUST REDUCE TO 16 VOLTS OR LESS.

SET R26 FOR +25 VOLTS ON PIN 46, THEN SET R25 FOR -25 VOLTS ON PIN 38. NEXT READJUST R26 FOR +16 VOLTS ON PIN 46. VOLTAGE ON PIN 38 MUST BE - 15.5 TO 16.5 VOLTS. RESET R26 FOR 20V ON EACH OUTPUT.

CHECK SHAPE OF TAPER FUNCTION- APPLY 15 VOLTS, 60 CYCLES TO INPUT PIN 6. USE DUAL CHANNEL SCOPE TO LOOK AT OUTPUT PINS 46 AND 38. DRIVE HORIZONTAL SWEEP FROM 60 CYCLE SOURCE. SCOPE PICTURE SHOULD BE AS SHOWN BELOW. (SOLID LINES). ADJUST R30 TO OBTAIN DESIRED SCOPE DISPLAY.

CONNECT 5K LOAD RESISTOR TO TERMINALS 46 AND 38. SCOPE PICTURE SHOULD NOT CHANGE MORE THAN .5V ON VERTICAL SCALE.

CHECK CLAMP (IC3600ALTD1 ONLY) JUMPER PIN 18 TO PIN 20 AND CHECK SHAPE OF TAPER FUNCTION AS OUTLINED ABOVE. ADJUST TRIMPOTS R27 AND R28 TO OBTAIN SCOPE PICTURE AS SHOWN BY DASHED LINES ABOVE.

CHECK LOAD REGULATION WITH INPUT RESISTOR CONNECTED TO COMMON CONNECT 5K LOAD FROM PIN 46 TO PIN 38. VOLTAGE ON PINS 38 AND 46 MUST NOT CHANGE MORE THAN .5V WHEN LOAD IS APPLIED. APPLY SUFFICIENT VOLTAGE TO 100K INPUT SO VOLTAGE ON PIN 46 IS 5 VOLTS. CONNECT 15K RESISTOR FROM +50 VOLTS TO PIN 44 (VOLTAGE ON PIN 44 MUST BE WITHIN 5 TO 5.5 RANGE). REMOVE LOAD. VOLTAGE ON PIN 38 MUST BE -5 VOLTS ±.5 VOLTS. CONNECT 15K RESISTOR FROM -50 VOLTS TO PIN 40. VOLTAGE ON PIN 40 SHOULD BE WITHIN .5 VOLTS OF VALUE MEASURED PREVIOUSLY ON PIN 38.

CHECK NOISE ON OUTPUT - CONNECT 100K INPUT TO COMMON. PEAK TO PEAK NOISE ON PINS 38 AND 46 MUST NOT EXCEED 10MV PEAK TO PEAK.