GENERAL ELECTRIC

68A9443 95

CONT ON SHEET 2 SH NO. 1

REV NO. A

68A9443 95

CONT ON SHEET 2 SH NO. 1

TITLE

TEST SPECIFICATIONS

OP AMP

FIRST MADE FOR IC3600A0AJ1

* START BY REPLACING ALL CHIPS AND TRANSISTORS BY FOLLOWING COMPONENT LOCATOR A FEW PAGES BACK ←.

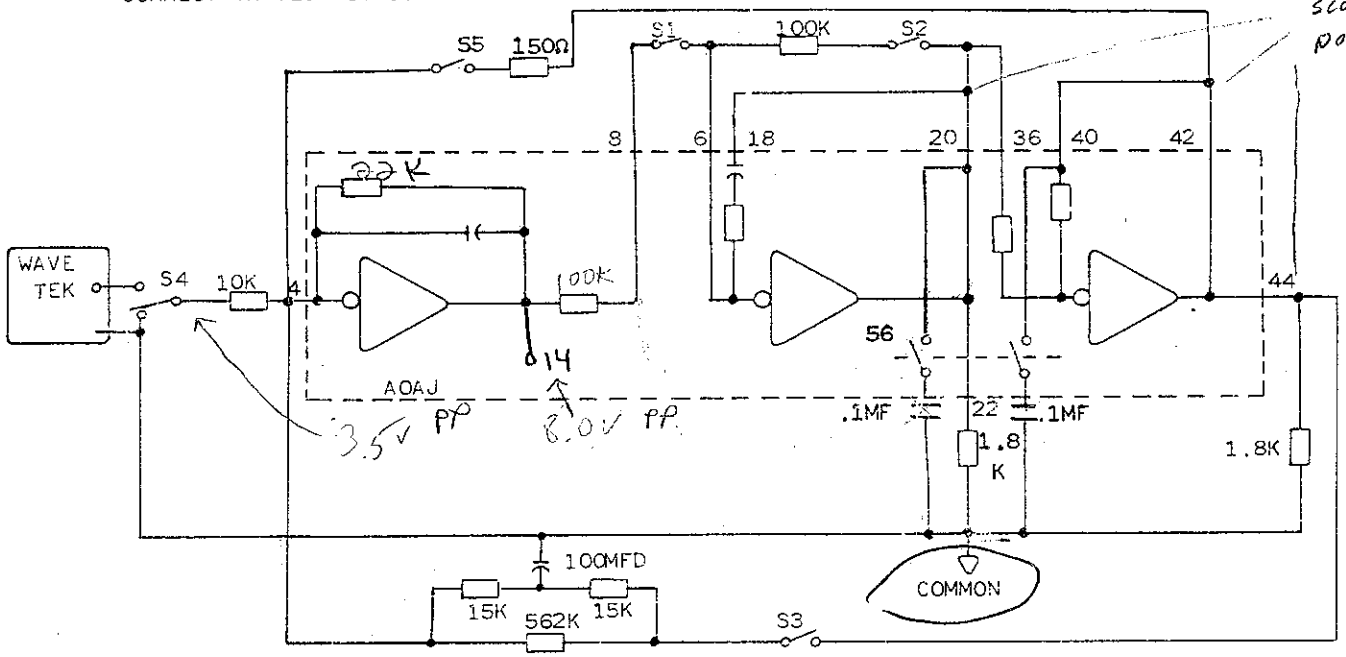
TEST SPECIFICATIONS

POWER SUPPLY - +67V TO PIN 24 (+10%, -25% TOLERANCES) *
-67V TO PIN 30 (+10%, -25% TOLERANCES) *
COMMON TO PINS 2 AND 50. *

you will also need a scope for this test.

LOADS - (2) 1.8K, 2W

CONNECT IN TEST CIRCUIT SHOWN BELOW: ONLY CONNECT THE HIGHLIGHTED TRACES



A. BALANCE AMPLIFIERS -

1. With S1, ~~S5~~, ~~S6~~, and S3 open, S2 closed, and S4 switched to COMMON. Adjust R50 to obtain 0 ± 2 Millivolt at Pin 8. TP1 WITH FLUKE 85

2. CLOSE S1. ADJUST R51 TO OBTAIN 0 ± 5 MILLIVOLTS AT PIN 20. TP2

3. ADJUST R52 TO OBTAIN 0 ± 10 MILLIVOLTS AT PIN 42. TP3

4. CLOSE S3 AND OPEN S2. READJUST R50 TO OBTAIN 0 ± 5 MILLIVOLTS AT PIN 42 TP3

B. CHECK AMPLIFIER RANGE AND GAIN

1. OPEN S2 AND SWITCH S4 TO WAVETEK. ADJUST AMPLITUDE OF WAVETEK OUTPUT TO OBTAIN 60 VOLTS PEAK TO PEAK SINE WAVE (± 2 VOLTS) AT PINS 20 AND 40 TP2 TP3 (WAVETEK FREQUENCY = 10 CYCLES/SEC.)

2. WAVETEK OUTPUT SHOULD BE 3.75 ± .5 VOLTS PEAK TO PEAK SINE WAVE.

REVISIONS

REV 1 JBT 10/30/72
REV. 2 CGL 780804

4QA3
1338
4EA1
2EF1
2520

PRINTS TO

MADE BY KENNEY C. COX
ISSUED 2-21-72
APPROVALS MBJ
DRIVE SYSTEMS DIV OR DEPT.
SALEM, VIRGINIA LOCATION
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CONT ON SHEET 2 SH NO. 1
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GENERAL ELECTRIC

68A9443952 CONT ON SHEET FL. SH NO. 2

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REVISIONS

C. CHECK SLEW RATE

1. APPLY 60 CYCLE, ~~25~~ 20 ± 1 VOLT PEAK TO PEAK SQUARE WAVE FROM WAVETEK. OUTPUTS AT PINS 20 AND 44 SHOULD BE APPROXIMATELY TRIANGULAR WAVE SHAPE AS SHOWN BELOW. TP2 TP3

YOU ARE FINISHED

D. CHECK AMPLIFIER STABILITY

1. SWITCH S4 TO COMMON. JUMPER PIN 42 TO PIN 4 WITH A 150Ω RESISTOR. RIPPLE VOLTAGE AT PIN 22 MUST BE LESS THAN 10 MILLIVOLTS PEAK TO PEAK.

SKIP!

2. REMOVE JUMPER. (OPENS S) CONNECT .1MFD CAPACITOR FROM PIN 20 TO COMMON AND PIN 40 TO COMMON (CLOSE SW 6). RIPPLE AT PINS 20 AND 40 MUST BE LESS THAN 50 MILLIVOLTS PEAK TO PEAK

E. CHECK CONTINUITY THROUGH DIODES

SKIP!

1. REMOVE POWER.
2. USE OHMMETER (SIMPSON ON ΩX10,000 SCALE) TO CHECK CONTINUITY THROUGH DIODES AND RESISTOR (PIN 5 TO PIN 10). CHECK BOTH POLARITIES. RESISTANCE READING SHOULD BE GREATER THAN 10K BUT LESS THAN 50K IN EITHER POLARITY.

1 WEM 10/28/72

4QA3

1338

4EA1

2EF1

2520

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ISSUED 2-21-72

APPROVALS

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SALEM, VIRGINIA LOCATION

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