

REV NO. A
68A999167
CONT ON SHEET 1A SH NO. 1.

TITLE
TEST SPECIFICATIONS
GATE PULSE AMPLIFIER
FIRST MADE FOR IC3600TPAB1

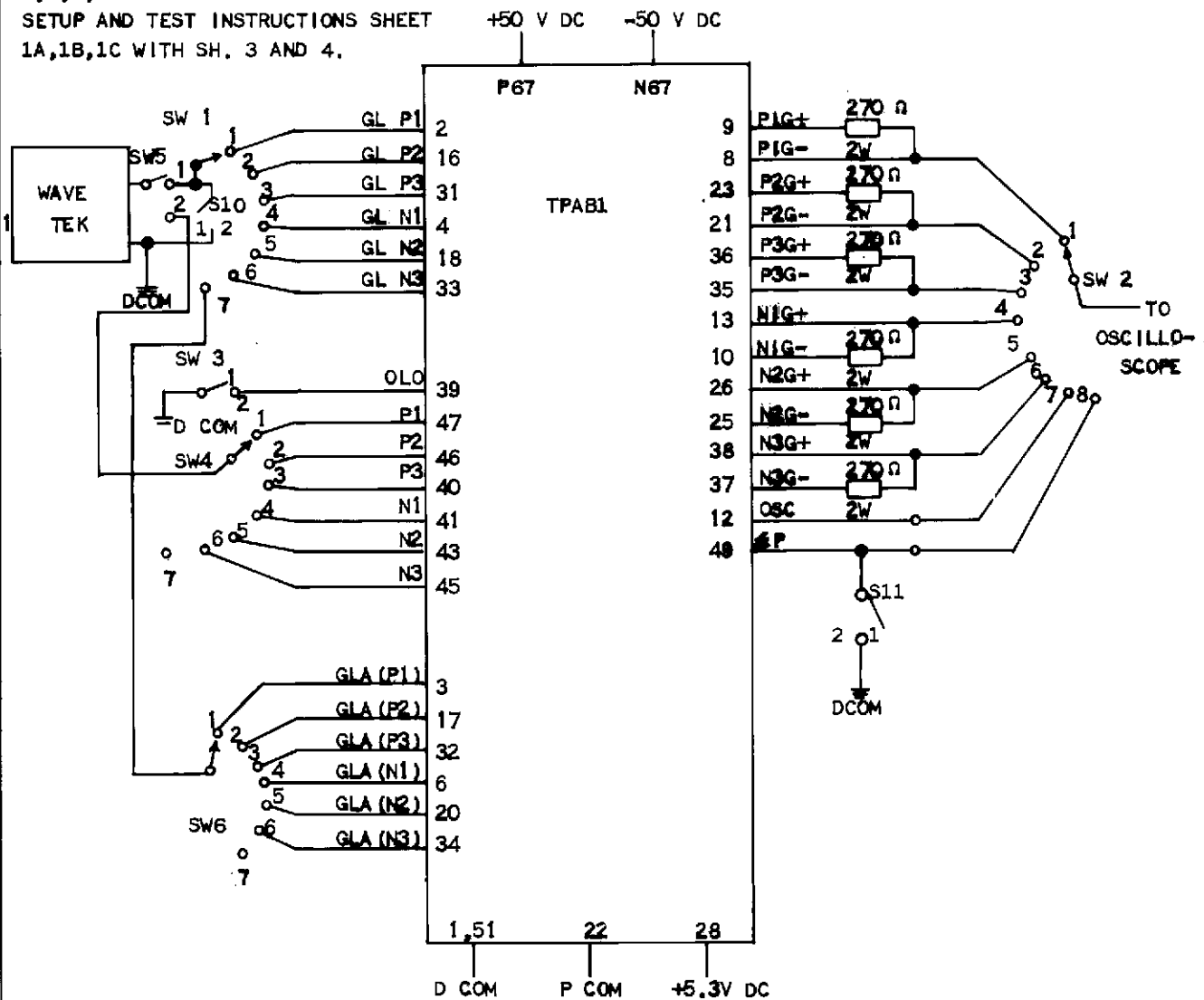
ELEMENTARY - IC3600TPAB1

TEST EQUIPMENT

- 1- +5.3 V DC SUPPLY
- 2- +50V DC 1 AMP
- 3- -50V DC 1 AMP
- 4- WAVE TEK
- 5- OSCILLOSCOPE
- 6- SIX (6) 270Ω, 2W RESISTORS 68A7002P271
- 7- OHMMETER

THE IC3600TPAB MAY BE TESTED BY THIS TEST SET-UP USING SHEET 1,2,3,AND 4 OR BY USING TEST SETUP AND TEST INSTRUCTIONS SHEET 1A,1B,1C WITH SH. 3 AND 4.

FIGURE 1



REVISIONS

| | | | |
|---|--|---|------------|
| 1 | REV 6-13-69 | 2 | ACW 9-5-69 |
| 3 | ADDED SHEETS 1A, 1B, 1C 3 SWH REVISED 8/24/72 | | |

2520
6V
2N
P5A
1338
PRINTS TO

MADE BY
R. E. HANNAH
ISSUED
4-16-69

APPROVALS
D. J. m.

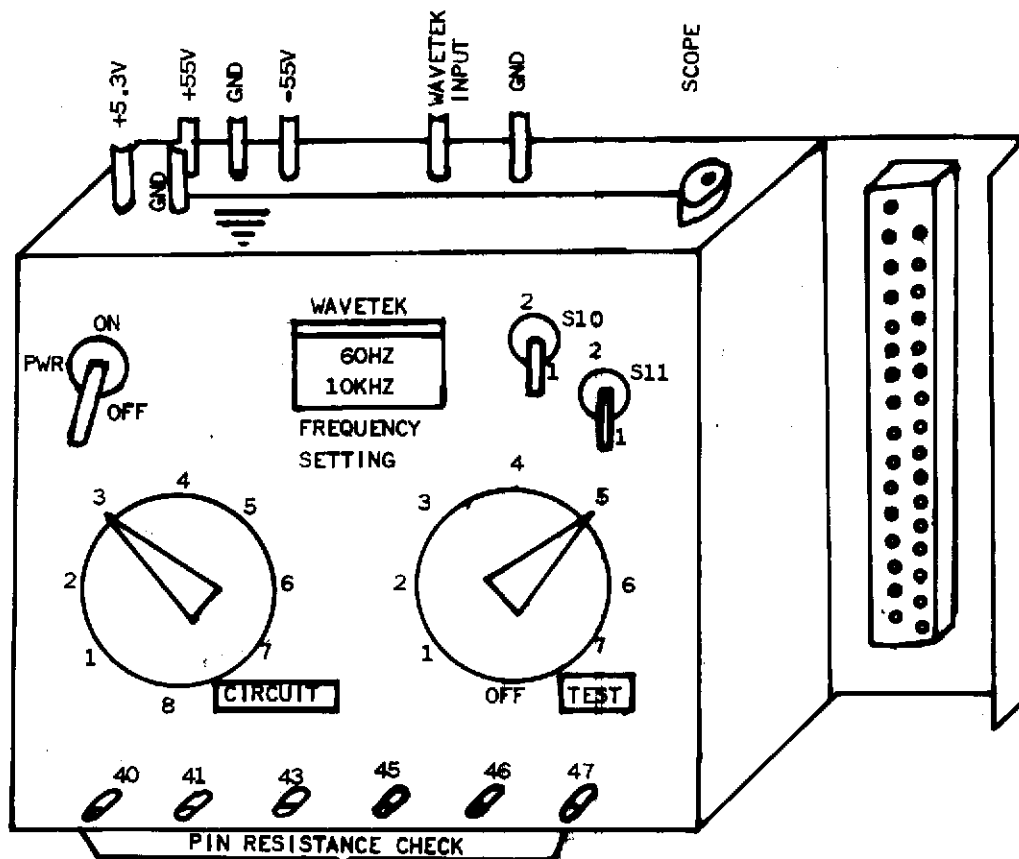
INDUSTRY CONTROL
SALEM, VIRGINIA

DIV OR DEPT.
LOCATION

68A999167
CONT ON SHEET 1A. SH NO. 1.
CODE IDENT NO.

| | |
|------------------|-----------|
| REV NO. A | 68A999167 |
| CONT ON SHEET 1B | SH NO. 1A |

| | |
|--|----------------------------|
| TITLE TEST INSTRUCTIONS FOR GATE PULSE AMPLIFIER | FIRST MADE FOR IC3600TPAB1 |
|--|----------------------------|



OHMMETER MUST SHOW GREATER THAN 200KΩ ON EVERY COMBINATION OF TWO PIN POINTS

PARTS LIST

- 1-BOX
- 1-51 PIN CARD RECEPTICAL WITH MOUNTING SCREWS, ETC.
- 1-3 POLE SINGLE THROW TOGGLE SWITCH.
- 1-OSCILLOSCOPE CABLE RECEPTICAL
- 3-RED INSULATED CONNECTORS FOR POWER SUPPLY LINES
- 3-CHROME GROUND CONNECTORS FOR POWER SUPPLY LINES
- 1-(GREEN, OR OTHER THAN ABOVE COLORS) CONNECTORS FOR POWER SUPPLY LINES
- 6-RECEPTICALS FOR OHMMETER TEST CABLES (FRONT)
- 1-FOUR POLE-EIGHT POSITION GANG SWITCH (OR GREATER)
- 1-THREE POLE-SEVEN POSITION GANG SWITCH (OR GREATER)
- 1-DUEL PANEL INDICATOR LAMP ASSEMBLY WITH 2 #387 BULBS
- 2-1 POLE SINGLE THROW TOGGLE SWITCH

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| ISSUED <i>September 11, 1972</i> | | 68A999167 | CONT ON SHEET 1B SH NO. 1A |

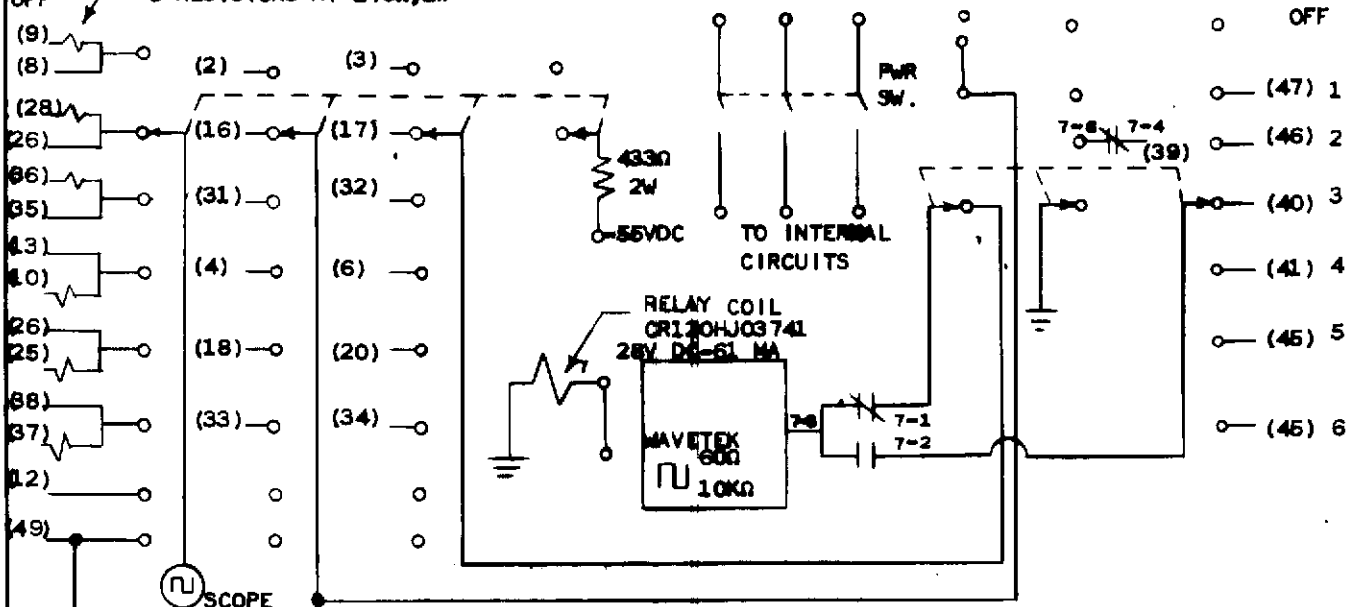
REV. NO. A
68A999167
CONT ON SHEET 1C SH NO. 1B

TITLE
TEST INSTRUCTIONS FOR
GATE PULSE AMPLIFIER
FIRST MADE FOR IC8600TPE1

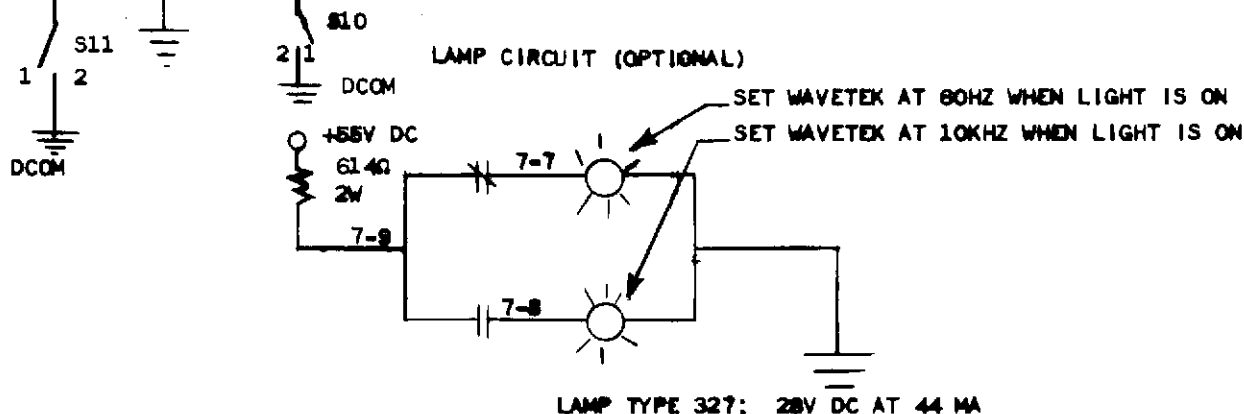
REVISIONS

CIRCUIT POSITION
4 POLE-8 POS. EACH

OFF 6 RESISTORS AT 270Ω, 2W



LAMP CIRCUIT (OPTIONAL)



LAMP TYPE 327: 28V DC AT 44 MA

CIRCUIT NUMBER

TEST POSITIONS REQUIRED

FREQUENCY SETTING

| | | |
|---|-----------------|-------|
| 1 | OFF-1-2-3 | 60HZ |
| 2 | 1-2-3 | 60HZ |
| 3 | 1-2-3 | 60HZ |
| 4 | 1-2-3 | 60HZ |
| 5 | 1-2-3 | 60HZ |
| 6 | 1-2-3 | 60HZ |
| 7 | OFF-1-2-3-4-5-6 | 10KHZ |
| 8 | 1-2-3-4-5-6 | 60KHZ |

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September 11, 1972

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INDUSTRY CONTROL

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68A999167

SALEM, VA

LOCATION

CONT ON SHEET 1C

SH NO. 1B

CODE IDENT NO.

REV. NO. A
 68A999167
 CONT ON SHEET 2 SH NO. 1C

 TITLE
 TEST INSTRUCTIONS FOR
 GATE PULSE AMPLIFIER
 FIRST MADE FOR IC3600TPAB1


 68A999167
 CONT ON SHEET 2 SH NO. 1C


- NOTE PINS 40, 41, 43, 45, 46, 47 ARE BROUGHT OUT TO FRONT JACKS WITH POWER SWITCH OFF, PLUG IN CARD AND CHECK PINS 40, 41, 43, 45, 46, AND 47 WITH OHMMETER. EACH PIN SHOULD READ IN EXCESS OF 200KΩ TO ALL OTHER PINS. AT OHMMETER "-" TO PIN 40 "-" TO PIN 41 THERE "+" TO 41 "-" TO 40, ETC. THERE ARE 30 CHECKS IN ALL.
- REFER TO DRAWINGS 68A999167 SHEETS 3 AND 4 (WHEN TESTING TPAB1)
 REFER TO DRAWINGS 68A944447 SHEETS 3 AND 4 (WHEN TESTING TPAE)
 REFER TO DRAWINGS 68A----- SHEETS 3 AND 4 (WHEN TESTING TPAH)
 AND OBSERVE PROPER WAVEFORM ON SCOPE ACCORDING TO THE FOLLOWING SCHEDULE. FREQUENCY SETTING LIGHTS WILL INDICATE PROPER WAVETEX SETTING FOR EACH TEST. SET WAVETEX AMPL. 4VPP.
 SET S10 AND S11 TO POS 1 FOR ENTIRE TEST OF TPAB
 SET S10 PER TEST STEPS AND S11 TO POS 1 FOR ENTIRE TEST OF TPAE
 SET S10 AND S11 PER TEST STEPS FOR TPAH


REVISIONS


| WAVETEX FREQ. | SHEET 3 OR 4 WAVEFORM NUMBER | REFORM SW POS # | | |
|------------------|------------------------------|------------------------------------|--------------------------------|--------------------------------|
| | | CKT-TEST-S10-S11 | CKT-TEST-S10-S11 | CKT-TEST-S10-S11 |
| 60HZ | 1 | 1 - 1 - 1 - 2 2 - 1 - 1 - 2 | 3 - 1 - 1 - 2 1 - 3 - 2 - 2 | 2 - 3 - 2 - 2 3 - 3 - 2 - 2 |
| 60HZ | 2 | 4 - 1 - 1 - 2 5 - 1 - 1 - 2 | 6 - 1 - 1 - 2 4 - 3 - 2 - 2 | 5 - 3 - 2 - 2 6 - 3 - 2 - 2 |
| 60HZ | 3 (+50V LEVEL) | 1-OFF (0) - 1 - 1 1 - 2 - 1 - 1 | 2 - 2 - 1 - 1 3 - 2 - 1 - 1 | |
| 60HZ | 4 (-50V LEVEL) | 4 - 2 - 1 - 1 | 5 - 2 - 1 - 1 | 6 - 2 - 1 - 1 |
| 10KHZ | 5 | 7-OFF (0) - 1 - 2 | | |
| * (60HZ ON TPAH) | 6 | 7 - 1 - 1 - 1 7 - 2 - 1 - 1 | 7 - 3 - 1 - 1 7 - 4 - 1 - 1 | 7 - 5 - 1 - 1 7 - 6 - 1 - 1 |
| 10KHZ | 7 | 8 - 1 - 1 - 1 8 - 2 - 1 - 1 | 8 - 3 - 1 - 1 8 - 4 - 1 - 1 | 8 - 5 - 1 - 1 8 - 6 - 1 - 1 |


FOR TPAE AND TPAH INCLUDE NEXT


60HZ CHAN A. 

TPAE CHAN B.  -OV

TPAH CHAN B.  -OV

60HZ CHAN A. 

TPAE CHAN B.  -OV

TPAH CHAN B.  -OV

| 2 STEPS (TRIGGER ON CHAN A, CHAN "A" TO WAVETEX CHAN "B" TO TEST FIXTURE) | | |
|---|---------------|---------------|
| 1 - 3 - 2 - 2 | 2 - 3 - 2 - 2 | 3 - 3 - 2 - 2 |
| 4 - 3 - 2 - 2 | 5 - 3 - 2 - 2 | 6 - 3 - 2 - 2 |

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MADE BY

S. B. HILL

APPROVALS

ISSUED

September 11, 1972

INDUSTRY CONTROL

DIV OR DEPT.

SALEM, VIRGINIA

LOCATION

68A999167

CONT ON SHEET 2

SH NO. 1C

CODE IDENT. NO.

REV NO. A
6 8 A 9 9 9 1 6 7
CONT ON SHEET 3 SH NO. 2

TITLE
TEST SPECIFICATIONS
GATE PULSE AMPLIFIER
FIRST MADE FOR IC3600TPAB1

A. FOLLOW CHART - FIRST 7 COLUMNS ARE INPUTS; LAST COLUMN IS OUTPUT TO SCOPE, REFER FIG. 1..

| SW 1 | SW 2 | SW 3 | SW 4 | SW 5 | WAVE TEK | SW 6 | SW2 OUT |
|------|------|------|------|------|-------------|------|---------|
| 7 | 1 | 1 | 7 | 1 | 3 | 7 | 3 |
| 1 | 1 | 1 | 7 | 1 | 1 | 7 | 1 |
| 2 | 2 | 1 | 7 | 1 | 1 | 7 | 1 |
| 3 | 3 | 1 | 7 | 1 | 1 | 7 | 1 |
| 4 | 4 | 1 | 7 | 1 | 1 | 7 | 2 |
| 5 | 5 | 1 | 7 | 1 | 1 | 7 | 2 |
| 6 | 6 | 1 | 7 | 1 | 1 | 7 | 2 |
| 1 | 1 | 2 | 7 | 1 | 1 | 7 | 3 |
| 2 | 2 | 2 | 7 | 1 | 1 | 7 | 3 |
| 3 | 3 | 2 | 7 | 1 | 1 | 7 | 3 |
| 4 | 4 | 2 | 7 | 1 | 1 | 7 | 4 |
| 5 | 5 | 2 | 7 | 1 | 1 | 7 | 4 |
| 6 | 6 | 2 | 7 | 1 | 1 | 7 | 4 |
| 7 | 7 | 1 | 7 | 1 | 1 | 7 | 5 |
| 7 | 7 | 1 | 1 | 2 | 2 | 7 | 6 |
| 7 | 7 | 1 | 2 | 2 | 2 | 7 | 6 |
| 7 | 7 | 1 | 3 | 2 | 2 | 7 | 6 |
| 7 | 7 | 1 | 4 | 2 | 2 | 7 | 6 |
| 7 | 7 | 1 | 5 | 2 | 2 | 7 | 6 |
| 7 | 7 | 1 | 6 | 2 | 2 | 7 | 6 |
| 7 | 8 | 1 | 1 | 2 | 2 | 7 | 7 |
| 7 | 8 | 1 | 2 | 2 | 2 | 7 | 7 |
| 7 | 8 | 1 | 3 | 2 | 2 | 7 | 7 |
| 7 | 8 | 1 | 4 | 2 | 2 | 7 | 7 |
| 7 | 8 | 1 | 5 | 2 | 2 | 7 | 7 |
| 7 | 8 | 1 | 6 | 2 | 2 | 7 | 7 |
| 7 | 1 | 1 | 7 | 1 | 1 | 1 | 1 |
| 7 | 2 | 1 | 7 | 1 | 1 | 2 | 1 |
| 7 | 3 | 1 | 7 | 1 | 1 | 3 | 1 |
| 7 | 4 | 1 | 7 | 1 | 1 | 4 | 2 |
| 7 | 5 | 1 | 7 | 1 | 1 | 5 | 2 |
| 7 | 6 | 1 | 7 | 1 | 1 | 6 | 2 |

REVISIONS

1 REM 6-15-69
2 A.C.W. 9-4-69

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PRINTS TO

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| ISSUED 4-16-69 | | | |
| | | 6 8 A 9 9 9 1 6 7 | |
| | | CONT ON SHEET 3 SH NO. 2 | |

REV NO. A

TITLE

TEST SPECIFICATIONS

GATE PULSE AMPLIFIER

FIRST MADE FOR IC3600TPAB1

6 8 A 9 9 9 1 6 7

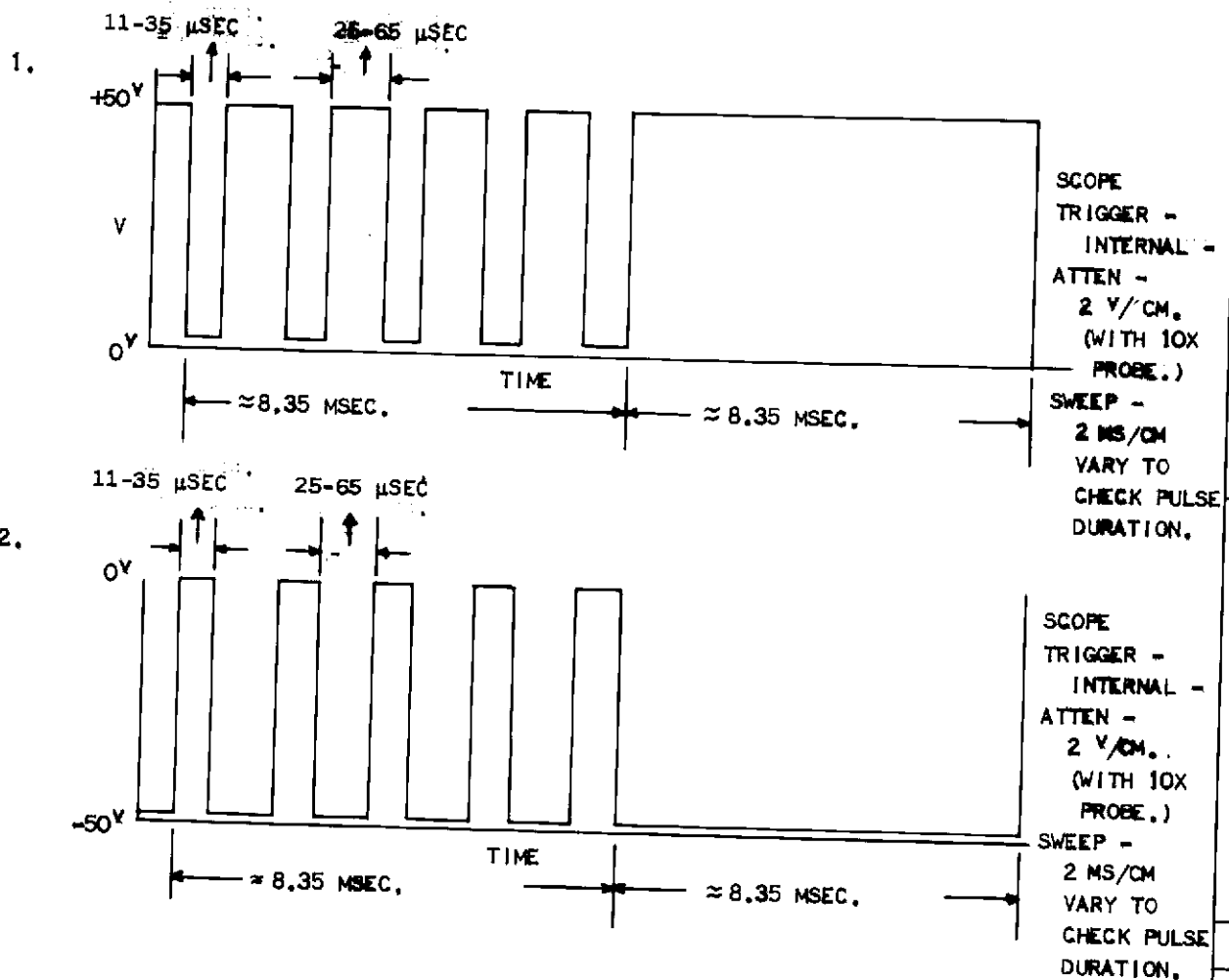
CONT ON SHEET 4.

SH NO. 3.

WAVE TEK

1. FREQUENCY 60 HZ SQUAREWAVE, AMPLITUDE $\pm 4V$.
2. FREQUENCY 10K HZ SQUAREWAVE, AMPLITUDE $\pm 4V$.
3. OFF.

SW 2 - OUT - OSCILLOSCOPE PICTURES



3. +50V DC LEVEL

4. -50V DC LEVEL

REVISIONS

A.C.W. 9-4-69
A.C.W. 4-29-71

1
2
3 SBH REVISED 8/24/72

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4-16-69

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D. J. M.

INDUSTRY CONTROL

SALEM, VIRGINIA

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LOCATION

6 8 A 9 9 9 1 6 7

CONT ON SHEET 4.

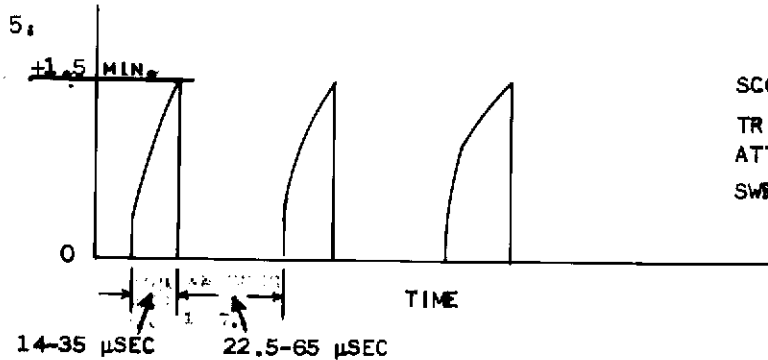
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CODE IDENT NO.

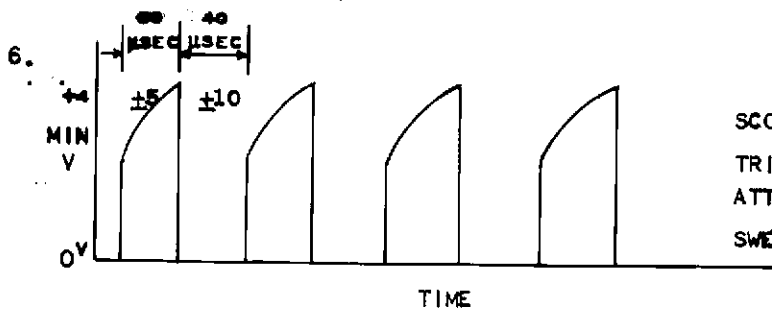
REV NO. A
68A999167
CONT ON SHEET FL. SH NO. 4.

TITLE
TEST SPECIFICATIONS
GATE PULSE AMPLIFIER
FIRST MADE FOR IC3600TPAB1

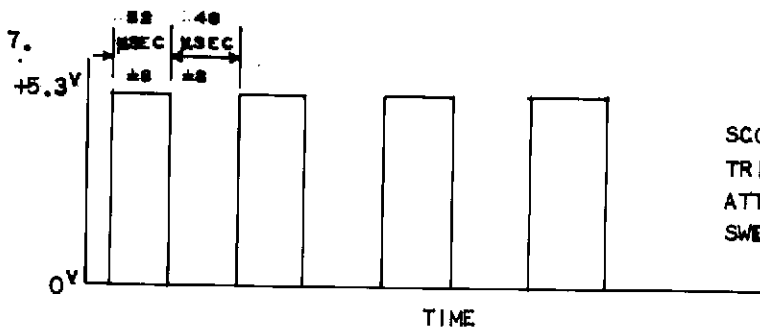
REVISIONS



SCOPE
TRIGGER - INTERNAL +
ATTEN - .5 V/CM (WITH 10X PROBE)
SWEEP - .1 MS/CM
VARY TO CHECK PULSE DURATION



SCOPE
TRIGGER - INTERNAL -
ATTEN - 2 V/CM (WITH 10X PROBE)
SWEEP - .1 MS/CM



SCOPE
TRIGGER - INTERNAL +
ATTEN - .5 V/CM (WITH 10X PROBE)
SWEEP - .1 MS/CM

B. WITH OHMMETER, CHECK THAT PINS 47, 46, 40, 41, 43, 45 EACH READ A RESISTANCE IN EXCESS OF 200KΩ TO ALL OTHERS. (47, 46, 40, 41, 43, 45.)

NOTE: REMOVE ±67V POWER AND AC REFERENCER BEFORE INSERTING OR REMOVING CARD FROM TEST FIXTURE.

| | | | |
|--------------------------------|---------------------------------|--|----------------------------------|
| MADE BY R. E. HANNAH | APPROVALS <i>[Signature]</i> | INDUSTRY CONTROL SALEM, VIRGINIA | DIV OR DEPT. 68A999167 |
| ISSUED 4-16-69 | | LOCATION SALEM, VIRGINIA | CONT ON SHEET FL. SH NO. 4. |

REVISIONS
1 REN 6-13-69
2 ACW 9-4-69

3 REN 8-3-70
4 SBH REVISED 8/24/72

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PRINTS TO