68 A 9 4 4 5 5 3

CONT ON SHEET 2 SH NO. 1

REVISIONS

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TITLE TEST INSTRUCTIONS

BUFFER AMPLIFIER

CONT ON SHEET 2 SH NO.

FIRST MADE FOR 103600TBAA1

I. EQUIPMENT REQUIRED FOR TEST

- A. TEST FIXTURE AS SHOWN IN FIGURE 1 SHEET 3 THIS FIXTURE IS THE SAME AS THAT OUTLINED IN TEST INSTRUCTIONS FOR THE ... 600TPGE1 GATE PULSE GENERATOR WHICH CAN BE REFERRED TO FOR SETTING UP THE TBAAL TEST FIXTURE.
- B. +15VDC (LA AVERAGE; 6A PEAK) THIS SUPPLY MUST BE TURNED ON LAST AND TURNED OFF FIRST. PIN 8

+15VDC + 0.01% 50 MA PIN 3

- 6 4.70 2 WATT RESISTORS 5%
- 6 INSOGL DIODE OR EQUIVALENT
- 6 N.C. PUSH BUTTON
- 1 N.O. PUSHBUTTON
- 1 4.7K 1/2 WATT RESISTOR 5% OSCILLOSCOPE

II. OUTPUT PULSE TEST

A. PROCEDURE

- 1. CONNECT THE SCOPE TRIGGER TO PIN 5.
- 2. CONNECT THE SCOPE PROBE TO PIN 5.
- 3. UNCALIBRATE THE TIME BASE SUCH THAT THERE IS 1 DIVISION SEPARATION BETWEEN THE TWO PULSES WHICH APPEAR AND POSITION THE LEADING EDGE OF THE FIRST PULSE ON THE ZERO TIME MARK. THE WAVEFORM SHOULD APPEAR AS SHOWN IN FIGURE 2A SHEET 4.
- 4. MOVE THE SCOPE PROBE TO PIN 40, 17, 11, 31, AND 26 IN SUCCESSION AND VERIFY THE APPEARANCE OF WAVEFORMS AS SHOWN IN FIGURE 2B, C, D, E AND F RESPECTIVELY.
- 5. MOVE THE SCOPE PROBE TO PIN 44 AND VERIFY THAT THE WAVEFORM WHICH APPEARS IS AS SHOWN IN FIGURE 1 SHEET4.
- 6. CALIBRATE THE TIME BASE AND CONNECT THE SCOPE PROBE AT PIN 5, 40, 17, 11, 31, AND 26 IN SUCCESSION AND VERIFY THAT EACH PULSE OBSERVED HAS A WIDTH OF 150 TO 230 MICROSECONDS AND AN AMPLITUDE OF 6.0V * 1 VOLT (POSITIVE AMPLITUDE) RISE TIME IS ONE MICROSECONDS MAXIMUM.
- 7. MOVE THE SCOPE PROBE TO PIN 44. PULSES MUST BE PER FIG. 1

III. PULSE SUPPRESSION TEST

A. PROCEDURE

- 1. CONNECT THE SCOPE TRIGGER TO PIN 5 OR 40.
- VERIFY THE FOLLOWING TABLE BY PERFORMING THE REQUIRED SWITCHING AND OBSERVING THE APPROPRIATE OUTPUT WITH THE OSCILLOSCOPE.

STEP	S1	S2	S3	S4	S5	56	5	40	17	11	31	26
1	С	0	С	0	С	С	NP	Р	NΡ	Р	NP	P
2	С	С	С	0	С	C	Р	Ρ	Р	Р	P	Р
3	С	0	C	С	С	С	Ρ	P	Р	Ρ	Р	Ρ
4	0	С	0	С	С	С	P	NP	Ρ	NP	P	NP
5	С	С	0	C	С	С	Ρ	Р	Р	Р	Р	P
6	0	С	С	С	С	С	P	Р	P	Р	P	Ρ
7	0	0	•	^			MD	NO	NID	MD	MD	MO

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REVISIONS

CONT ON SHEET 3 . SH NO. 2 TITLE TEST INSTRUCTIONS 68 A 9 4 4 5 5 3 BUFFER AMPLIFIER CONT ON SHEET 3 SH NO. 2 FIRST MADE FOR IC3600TBAA1

MOTE: C = CLOSED; O = OPEN; P = PULSES; NP = NO PULSES

- 3. RETURN SWITCHES SI THROUGH S6 TO THE CLOSED STATE.
- 4. CLOSE SWITCH S7

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- 5. OPEN SWITCH S6
- 6. CONNECT THE OSCILLOSCOPE TO PIN 5 AND VERIFY THE ABSENCE OF PULSES. DECREASE THE +15V SUPPLY TO THE TBAA CARD TO ZERO AND VERIFY THAT THE PULSES REMAIN SUPPRESSED. RETURN THE POWER SUPPLY TO +15V.
- 7. REPEAT STEP 6 FOR PINS 40, 17, 11, 31, AND 26.
- 8. CLOSE SWITCH S6
- 9. OPEN SWITCH ST
- 10. PIN 37 SHOULD READ +15V \pm 1V. CLOSE S5 SWITCH, PIN 37 IS OV \pm 1V.
- 11. OPEN S5 SWITCH

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PRINTS TO

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FF-803 WF (1-72) PRINTED IN U.S.A

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