GENERAL ELECTRIC

68A9445532 CONT ON SHEET 2 SH NO. 1

REV NO.	TITLE
68A9445532	TEST INSTRUCTIONS
CONT ON SHEET 2 SH NO. 1	BUFFER AMPLIFIER
	FIRST MADE FOR IC3600TBAA1

REVISIONS

4 TYPING CLG 5/2/75

1 Retyped MAC 7-31-75
2 JMT 3/19/73
3 CWF 2/19/75

DL32

2520

PRINTS TO

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 IC3600TPGE1 GATE PULSE GENERATOR WHICH CAN BE REFERRED TO FOR SETTING UP THE TBAA1 TEST FIXTURE.

B. +15VDC (1A AVERAGE; 6A PEAK) THIS SUPPLY MUST BE TURNED ON LAST AND TURNED OFF FIRST. PIN 8
+15VDC ± 0.01% 50 MA PIN 3
6 - 4.7Ω 2 WATT RESISTORS 5%
6 - IN5061 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 SHEET 4.
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.
2. VERIFY THE FOLLOWING TABLE BY PERFORMING THE REQUIRED SWITCHING AND OBSERVING THE APPROPRIATE OUTPUT WITH THE OSCILLOSCOPE.

STEP	S1	S2	S3	S4	S5	S6	5	40	17	11	31	26
1	C	O	C	O	C	C	NP	P	NP	P	NP	P
2	C	C	C	O	C	C	P	P	P	P	P	P
3	C	O	C	C	C	C	P	P	P	P	P	P
4	O	C	O	C	C	C	P	NP	P	NP	P	NP
5	C	C	O	C	C	C	P	P	P	P	P	P
6	O	C	C	C	C	C	P	P	P	P	P	P
7	O	O	O	O	C	C	NP	NP	NP	NP	NP	NP

MADE BY	APPROVALS		68A9445532
J. CHRISTIAN	MH MAC	INDUSTRY CONTROL DIV OR DEPT.	
ISSUED July 31, 1972		SALEM, VA LOCATION	CONT ON SHEET 2 SH NO. 1

CODE IDENT NO.

FF-803 WF (1-72)
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REV NO. 68A9445553
CONT ON SHEET 3 . SH NO. 2

TITLE TEST INSTRUCTIONS
BUFFER AMPLIFIER
FIRST MADE FOR IC3600TBAA1

REVISIONS
1) [redacted]5HE JVG 7/28/76

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

3. RETURN SWITCHES S1 THROUGH S6 TO THE CLOSED STATE.
4. CLOSE SWITCH S7
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 S7
10. PIN 37 SHOULD READ +15V ± 1V. CLOSE S5 SWITCH, PIN 37 IS 0V ± 1V.
11. OPEN S5 SWITCH

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GENERAL ELECTRIC

68A9445533

CONT ON SHEET 4 SH NO. 3

REV NO.

68A9445533

CONT ON SHEET 4 SH NO. 3

TITLE

TEST SPECIFICATIONS
BUFFER AMPLIFIER

FIRST MADE FOR IC3600TBAA1

REVISIONS

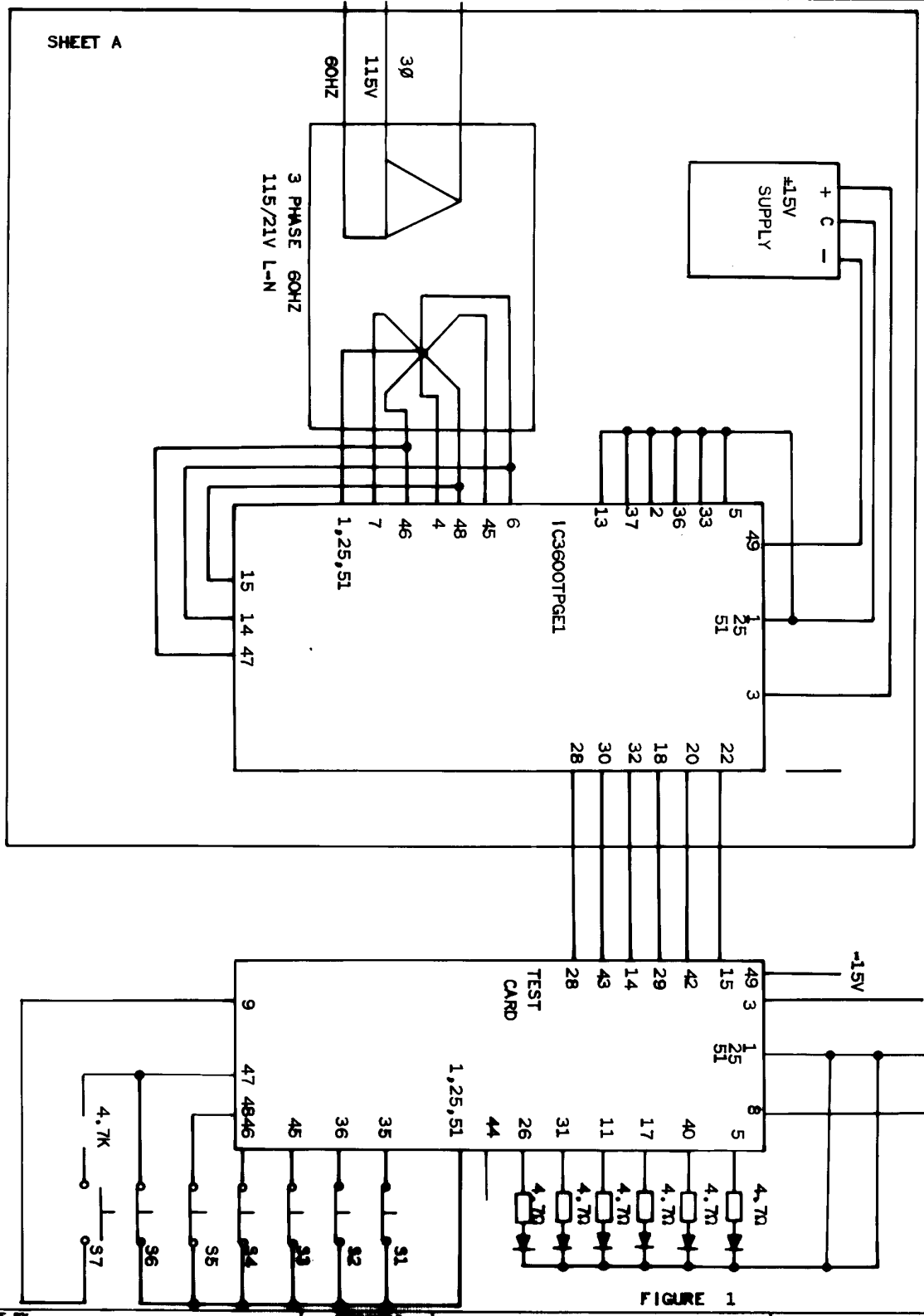

FIGURE 1

REV. 1 JWF 3/18/75
5/2/75

3 TYPING DLG 5/2/75

DL32

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MADE BY M. A. CRIMMER

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68A9445533

CONT ON SHEET 4 SH NO. 3

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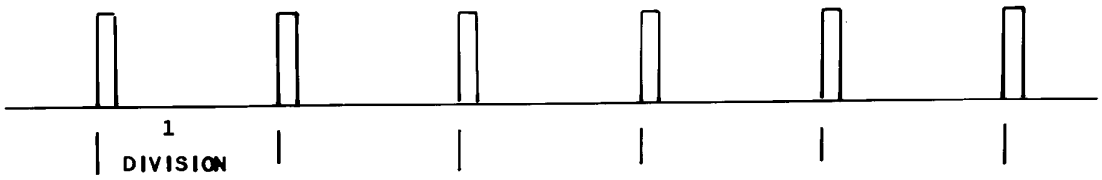

FIGURE 1

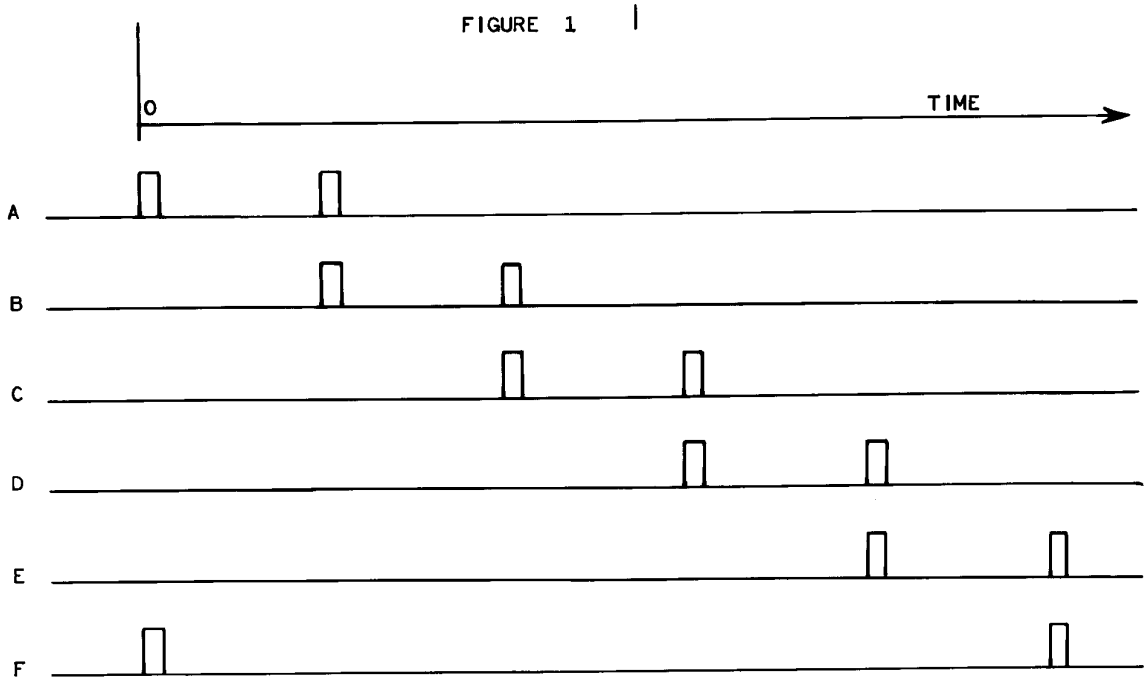

FIGURE 2

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PRINTS TO