



68A944197

CONT ON SHEET 2 SH NO. 1

88A944197

CONT ON INDEX 2 EN NO. 1

TITLE	TEST SPECIFICATIONS INVERTER SEC. CONTR.
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FIRST MADE FOR IC3600EP3V1

REVISIONS

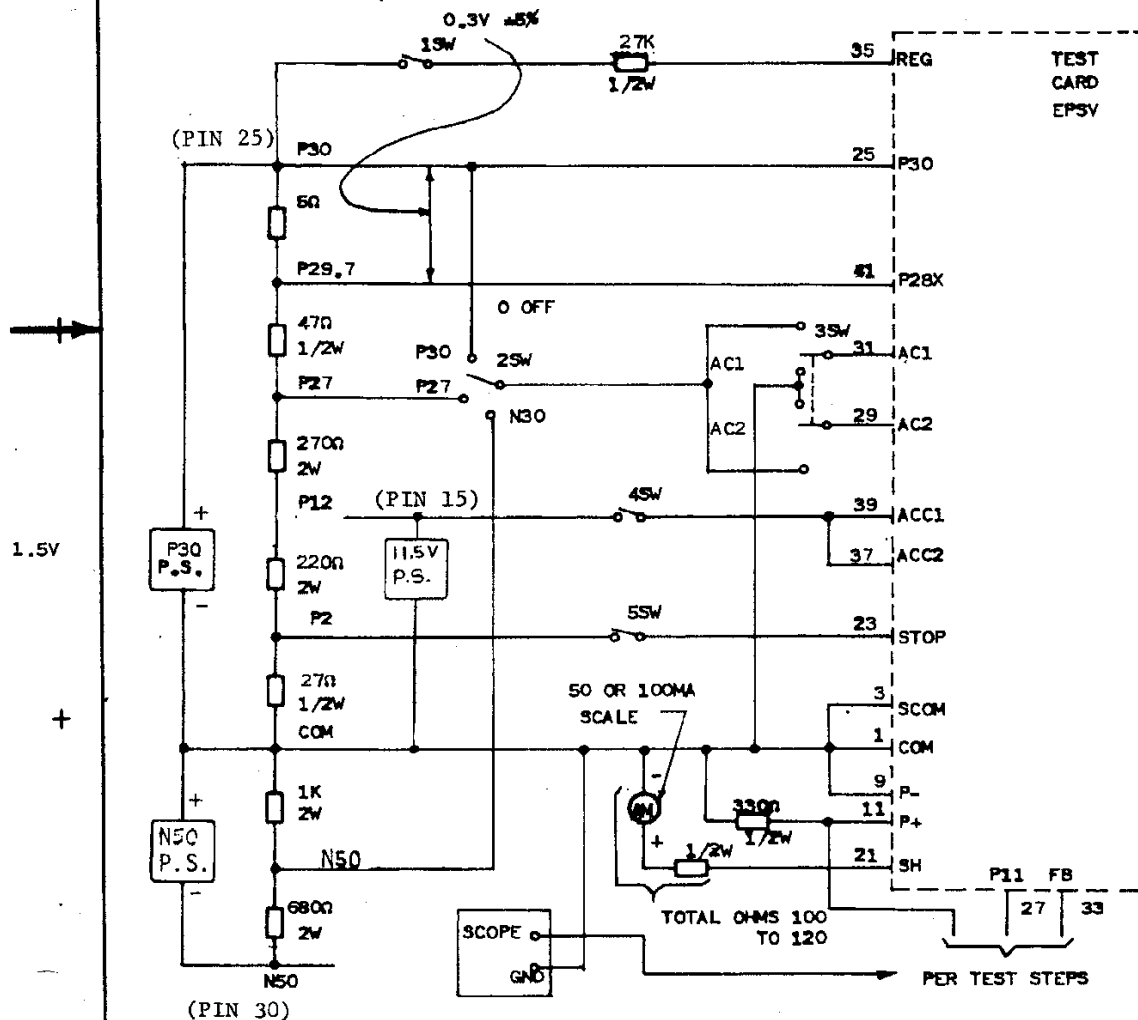
ELEMENTARY IC3600EPSV1 SH, 3.0, 3.1, 3.2

TEST EQUIPMENT

- A. 450V POWER SUPPLIES 100MA
B. VOLT OHM METER
C. OSCILLOSCOPE
D. MISC. SWITCHES, RESISTORS, ETC PER FIG. 1

FIGURE 1

(OTHER VOLTAGES $\pm 10\%$)



TEST
CARD
EPSV

1. BAB 9/7/72
2. JMT 11/23/76
3. JMT 18/APR/86



133E

2520

154

PRINTS TO

MADE BY
M A CONNER

INDEXED April 16, 1971

APPROVALS

D. J. Madry

INDUSTRY CONTROL

SALEM, VIRGINIA

DIV OR
DEPT

LOCATION

68A944197

CONT ON SHEET 2 SH NO. 1

77-0000-WF (10-000)
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GENERAL  ELECTRIC

6 8 A 9 4 4 1 9 7

REV
NO.

TITLE

TEST SPECIFICATIONS
INVERTER SEC. CONTR.

CONT ON SHEET

3

SH NO.

2

6 8 A 9 4 4 1 9 7

CONT ON SHEET

3

SH NO.

2

FIRST MADE FOR IC3600EPSV1

REVISIONS

TEST STEPS

1. OHMMETER CHECK OF DIODES NOT OPERATIONALLY CHECKED.
OHMMETER ON X1 AND READS BETWEEN 7 AND 15 OHMS (adrox. 600 ohms on Fluke).

POS LEAD

49 TO
49 TO
49 TO
1 TO
1 TO
ACC1 (39) TO
ACC2 (37) TO

NEG LEAD

43 (CR56)
45 (CR55)
47 (CR54)
39 (CR3)
37 (CR9)
27 (CR1)
27 (CR2)

2. C20 CAPACITOR CHECK

- A. VISUALLY CHECK THAT C20 IS 1MFD.
B. OHMMETER ON 10K RESISTANCE SCALE. APPLY TO TERMINALS 1 AND 5 EITHER POLARITY. NOW TOUCH THESE TERMS WITH OPPOSITE POLARITY AND WATCH FOR KICK ON METER SHOWING THERE IS A CAPACITOR IN THE CIRCUIT.

3. P11 BUSS AND C1 (addly power)

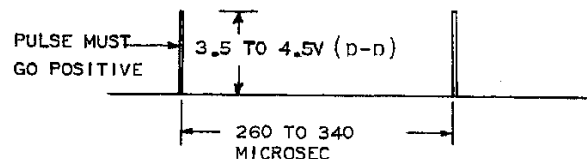
- A. 1SW, 2SW, 5SW, OPEN; 3SW TO AC1; 4SW CLOSED;
B. DVM & scope on term 27(P11); 20 ms/cm; normal.
C. SCOPE TO READ 11 TO 11.5V (OR .5 TO 1 VOLT LESS THAN THE VOLTAGE APPLIED AS P12).
D. OPEN 4SW WHILE WATCHING SCOPE. BUSS TO DECAY TO HALF VOLTAGE IN ROUGHLY ONE SWEEP OF SCOPE (.02 SEC \pm 50%)
E. CLOSE 4SW.

4. OUTPUT PULSE LOGIC

(NOTE: 1SW, 2SW, 5SW, ARE OPEN; 4SW IS CLOSED; 3SW ON AC1)

- A. SCOPE ON TERM 11 (P+); 1V/CM, 50 MICRO-SEC/CM.
B. CLOSE 5SW AND PULSES SHOULD APPEAR. SYNCH SCOPE ON INTERNAL POSITIVE. SCOPE PICTURE LIKE FIG. 2 (TIME DETERMINED BY SUM OF THE TWO SINGLE SHOTS).

FIGURE 2



- C. CHANGE SCOPE TO 5 MICROSEC/CM. PICTURE LIKE FIG.3.

1) 18 APR 86 JMT
2) 07 JUL 86 JMT

PG#

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April 16, 1971

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CONT ON SHEET

3

SH NO. 2

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CODE IDENT NO

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CONT ON SHEET FL SH NO. 3

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TEST SPECIFICATIONS
INVERTER SEC CONTR.

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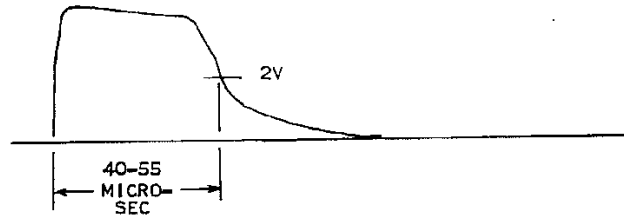


FIGURE 3

LOGIC

- D. CHANGE SCOPE TO 2 MILLISEC/CM. SHOULD BE 50 TO 100 PULSES ON SCREEN.
- E. SYNCH IS 1 E. TURN 2SW TO P30. THERE SHOULD BE TWO TO FOUR PULSES AND THEY ARE SPACED 6 TO 18 MS. (THIS FREQUENCY IS SET BY UNIJUNCTION Q18)
- F. STOP IS 1 F. OPEN 5SW. PULSES SHOULD DISAPPEAR.
- G. STOP IS 0 G. CLOSE 5SW. TWO TO FOUR PULSES.
- H. SYNCH IS 0 H. TURN 2SW TO P27. NOW HAVE 100 PULSES AGAIN.
- J. SYNCH IS 0 J. TURN 3SW TO AC2. STILL HAVE 100 PULSES.
- K. STOP IS 1 K. OPEN, THEN CLOSE 5SW. PULSES DISAPPEAR WHEN OPEN.
- L. SYNCH IS 1 L. TURN 2SW TO P30. HAVE 2 TO 4 PULSES.
- M. COARSE IS 0 M. TURN 2SW TO N30. HAVE 2 TO 4 PULSES.
- N. COARSE IS 0 N. CLOSE 1SW. HAVE 100 PULSES.
5. FB AND C3
- A. MOVE SCOPE TO TERM 33 (FB). 1V/CM, 2 ms/cm, free running.
- B. NOTE: 1SW, 4SW, 5SW ARE CLOSED; 2SW ON N30; 3SW ON AC2.
- C. SCOPE PICTURE STRAIGHT LINE AT 2.0 TO 4.0 VOLTS.
- D. OPEN 1SW SCOPE PICTURE STRAIGHT LINE AT 5.5 TO 7.0 VOLTS.
- E. CHANGE 3SW TO AC1. NO CHANGE IN SCOPE.
- F. TURN 2SW OFF N30 WHILE WATCHING SCOPE. DECAYS TO HALF VOLTAGE IN ROUGHLY ONE SWEEP OF SCREEN (.002 SEC \pm 50%).
6. SHUNT REGULATOR
- A. TURN POT R80 ALL CW. CONNECT VOLTOHMMETER AS 100MA METER PER FIG. 1.
- B. AMMETER TO READ 14 TO 18 MA. 14.58 14.28
- C. TURN R80 CCW UNTIL AMMETER STARTS TO DECREASE.
- D. TURN R80 (ccw) until ammeter reads 8 to 10 ma.

REVISIONS

1. BAB 9/17/72

2. WEM 10/28/72

3. JVG 2/28/78

4. OJUL 86 JMT

5) OSFEB 87

4QA3

1338

2520

1EL1

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D. J. McLoey

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