TITLE TEST SPECIFICATIONS FOR VIBRATION CALIBRATOR

FIRST MADE FOR IC3600SVD01

REVISIONS

1. VISUALLY VERIFY THE FOLLOWING: (This step must be done)

   R5 = 560Ω ; C9 = 50 MFD 12V; C15, C16 50 MFD 60V; METER IS ZEROED MECHANICALLY. CR11-CR14 ARE IN CORRECTLY. R30, R31 = 1 MEG Ω. ; R12 IS 3.3K; R13 IS 1.8K. VERIFY THAT THE POINTERS ON THE CHANNEL SELECT AND LEVEL CONTROLS INDICATE CORRECTLY. CR31 IS IN CORRECTLY.

2. DIODE CHECK (Setup meter reversing switch on test desk)

   A. WITH SIMPSON METER ON RX10,000Ω, CONNECT (+) LEAD TO RESET PIN (11). TOUCH NEG (-) LEAD TO PIN (3), (4), (8), (9), (10) IN TURN. VERIFY DIODES CR1-CR5 CONDUCT FORWARD DIRECTION. REVERSE METER LEADS AND VERIFY ALL DIODES BLOCK IN REVERSE DIRECTION.

   B. CONNECT (-) LEAD TO CLEAR PIN (17). TOUCH POS(+) TO PINS (12), (13), (14), (15), (16). VERIFY CR6-CR10 CONDUCT. REVERSE LEADS AND VERIFY ALL DIODES BLOCK IN THE REVERSE DIRECTION.

   C. CONNECT (-) LEAD TO INHIBIT PIN (23). TOUCH POS(+) TO PINS (18), (19), (20), (21), (22). VERIFY CR25-CR29 ALL CONDUCT. REVERSE LEADS AND VERIFY ALL DIODES BLOCK.

2A. A. Setup for the following tests.

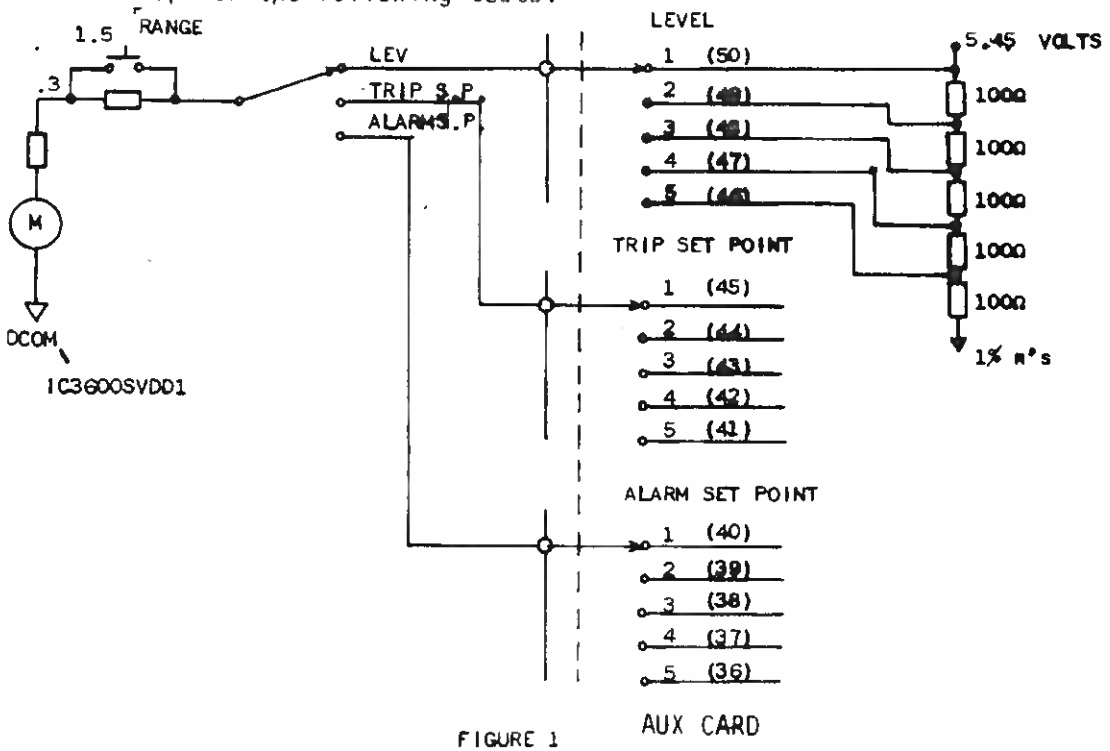

FIGURE 1

B. On card: Apply +28V to (26), +12V to (27), and DCOM to (1).
On Aux. card: Apply +5.45V +- 0.01V to Aux. card.

1 REM 6-6-73
2) BU945XG CGL 11/16/78

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3. SWITCH AND METER CHECK

A. Connect circuit per Fig. 1. (open trip set "0" on meter)
Set meter switch to "LEV" and SW3 to Pos. 1.

Set channel select to 1	verifty meter reads 1.0"/sec.	5%
Set channel select to 2	verify meter reads .8"/sec.	5%
Set channel select to 3	verify meter reads .6"/sec.	5%
Set channel select to 4	verify meter reads .4"/sec.	5%
Set channel select to 5	verify meter reads .2"/sec.	5%

Monentarily push range pushbutton, verify meter reads .2 on lower scale.

Set meter switch to trip S.P. verify meter reads 0
Set meter switch to alarm S.P. verify meter reads 0.

B. Move inputs of Fig. 1 from LEV to Trip Set Point (SW3 Pos. 2). Verify when meter switch is on Trip S.P. meter reads properly as channel select is varied from 1 to 5 (Meter reads as before in step A)

C. Move inputs to Alarm Set Point (SW3 Pos. 3). Verify when meter switch is on Alarm S.P. meter reads properly as channel select is varied from 1 to 5 (Meter reads as before).

4. OSCILLATOR TEST

A. (deleted)

B. With ohmeter from pin 29 to pin 30, push calibrate button and verify relay K1 picks up and ohmeter reads 0 to 0.2 ohms. Release button, verify relay drops out and ohmeter reads infinity. (Greater than 10 MΩ.

C. Set channel select to 1. Connect a 7.5KΩ resistor from ACOM to pin 35. Push calibrate button, turn R56 (test signal) full C.W. (SW1 DOWN) With scope verify a 1.7 volt ± .3 volt P-P (0.6 VRMS ± 0.1 VRMS) sine wave of frequency 105 CPS ± 15% appears across 7.5KΩ at pins (35) and (28). (8.1 - 11 ms)

WAVEFORM IS DELAYED 1-2 SEC AFTER PUSH CAL

SCOPE GND TO COM (1)

CIRCUIT HAS 1-2 SEC TIME CONSTANT (DELAY)

D. Move scope and 7.5KΩ load resistor to pins (34),(33),(32),(31) in turn. Set channel select switch to 2,3,4, and 5 (SW2 POS. 2 3 4 5). Verify that when proper channel is selected, the 1.7 volt sine wave appears across the 7.5KΩ load. (Push calibrate button or tie (24) to COM).

E. Set test signal pot to .5. Push Calibrate and verify .37 volts ± .2 volts P.P. appears across the 7.5K resistor. Realign knob if necessary. (Switch both switches to 2; to 3; to 4; to 5).

Set test signal to	0	verifv 0 - 0.1 VRMS.
Set test signal to	1.5	verify 0.23 - 0.33 VRMS.

F. Push and release Calibrate button while watching sine wave. Verify that approximately 1.3 to 1.9 sec. elapse before sine wave appears. Remove 7.5KΩ from (28) or equivalent to COM. (SET SCOPE TO 1SEC/DIV)

G. Put 7.5K load resistor from (25) to COM (SW2 POS 6), R56 full C.W. Push calibrate button and measure signal at (25), 0.6 VRMS ± 0.1 VRMS. (TEST SIGNAL) 1.7 v P-P Release calibrate button and signal goes to 0 - 0.1 VRMS. Remove 7.5K resistor.

REVISIONS

2) RU945XB CGL 11/16/78
3) 23JUL86 JMT
4) 27 AUG 86 JMT

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REV NO.

68A999561
CONT ON SHEET 4 SH NO. 3

TITLE Test Specifications For VIBRATION CALIBRATOR

FIRST MADE FOR IC3600SVDD1

REVISIONS

5. TIMING CHECK

Connect 120Ω 2 watt resistor from pin 17 to P12 volts (clear). Connect 27KΩ from pin 23 (inhibit) to P12 volts. Connect 27KΩ from pin 11 to COM. (reset). Tie (24) to COM (1,51). Verify timing given in Fig. 2. (ON AUX CARD)

1) 27AUG86 JMT

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MADE BY Carol Lucado

ISSUED 11/20/78

APPROVALS 11-29-78

Industry Control DIV OR DEPT.

Salem, Virginia LOCATION

CODE IDENT NO.

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GENERAL ELECTRIC

68A999561
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REV NO. A	TITLE
68A999561	VIBRATION CALIBRATOR
CONT ON SHEET FL. SH NO. 4	FIRST MADE FOR IC3600SVDD1

REVISIONS

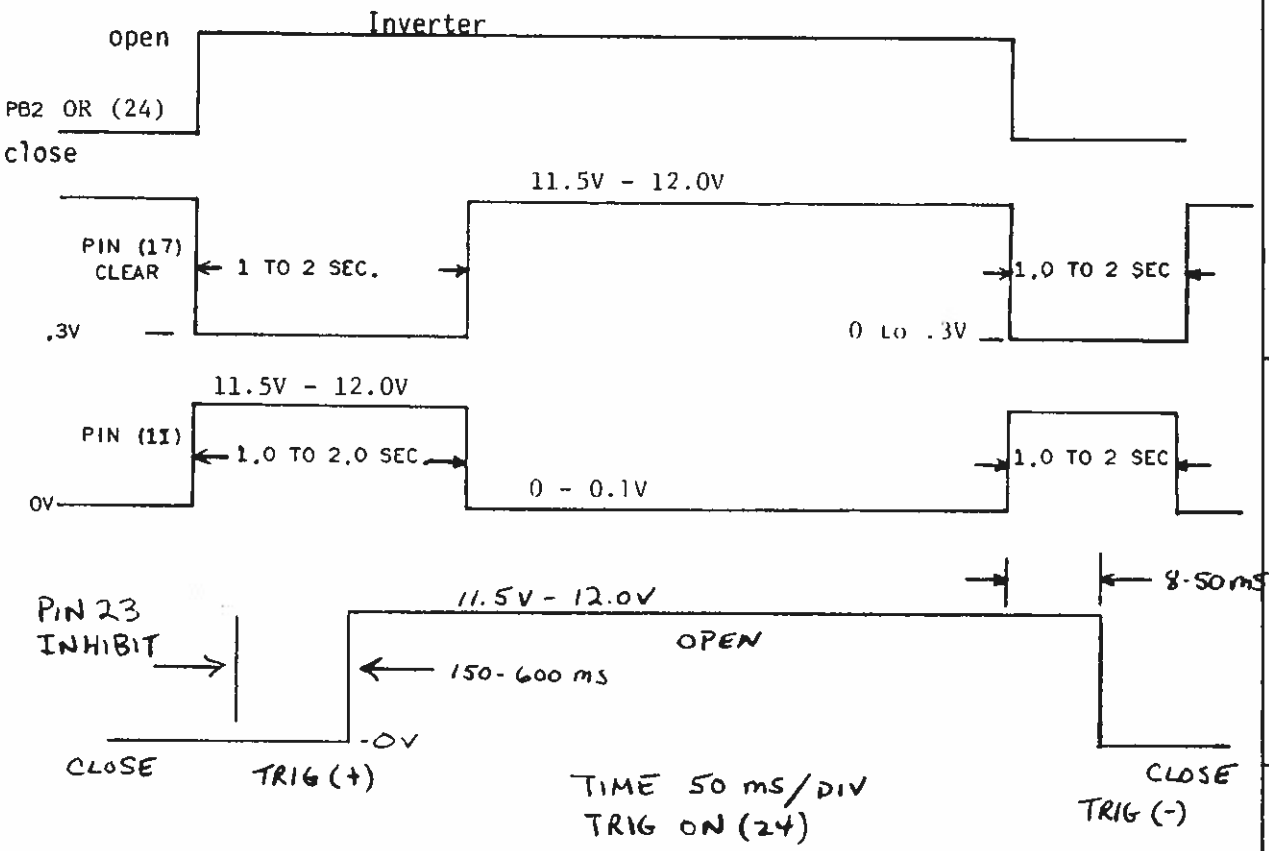

FIGURE 2

1) BU945XG CCL 11/16/78
2) 14MAY86 JMT
3) 27AUG86 JMT

D422

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