TITLE TEST SPECIFICATIONS DC/DC POWER SUPPLY 68A944142 INVERTER PRIMARY CONTROL CONT ON SHEET 2 FIRST MADE FOR 103600EPSUL REVISION. IC3600EPSU1 SH. 3.0 - 3.3 **ELEMENTARY** TEST EQUIPMENT: OHMETER, 50V SUPPLY AT 100MA, WAVETEK, OSCILLOSCOPE, PRECISION VOLTMETER, MISC. SWITCHES, RESIS, ETC... PER FIG. 1 NOTE: CURRENT UNLIMITED P51 MAY OVERHEAT TRANSISTORS Q1,Q2 **%**100 ′VDC′ POWER SUPPLY o 2SW AUX CARD P51 + 5%EA1 PIN' 24 15 P1.7 (RED JACK) TEST CARD 600 39 i EB1 2W 41 l ** P5 ' 70 0 680n PRECISION 6SW 17 VM PUL. ISW 68A7373P1 3.9K 3 WAVETEK 27V ACC2 IOW * 2200 1K 2W 27V 5 I ACC1 10W * 1K 13| SCA 31 SCB COM 1 6 45W P51 P100 Ar P125 49¦ CA * ZENERS CB 68A7233P15, 27V, 10W SCOPE 27 TR'IG o P8 PER TEST STEPS 10K | 431 88 GND o + 2520 100 45 UNMARKED DIODES 88 PISA ARE 68A8200P1 1338 OVL-1 FIGURE 1 NOTE: TEST FIXTURE H 188615 IS PER THIS DRAWING WIRED 6-15-06 DAL PRINTS TO HADE BY KENNEY C. COX DRIVE SYSTEMS 6-8 A 9 4 4 1 4 2 5-10-71 SALEM, VIRGINIA LOCATION CONT ON BHEET FF-003-WF (0-00 PRINTED IN U.S.A.

GENERAL & ELECTRIC

68A944142

6 8 A 9 4 4 1 4 2

CONT ON SHEET

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TITLE Test Specifications
DC/DC POWER SUPPLY
INVERTER PRIMARY CONTROL

COST ON SHEET 3 SH NO.

FIRST MADE FOR

IC3600EPSU1

REVISIONS

5) 22 SEP86 JMT

BUSCOAR WAN TOLOGO BANGOYAK 3/179 MAC

M W

DL22

2520

TEST STEPS

SH NO.

1. Ohmmeter test before plugging in card.

All of the following must read within 5% of each other (absolute value, approx. 6.6K, not important).

Terms 15 to 19

19 to 21

21 to 25

39 to 33

33 to 35

35 to 37

2. Power Supply Check

A. Wavetek switched off; 1SW closed; 2SW, 3SW to wavetek; 4SW, 5SW to P51; 6SW open.

Apply 51V - power only after card plugged in. Use 2 100VDC power supply. Adjust for P51 VDC at pin 11. (See Fig. 1).

B. With voltmeter read following busses:

P8, terms 27 to 1, 8 to 8.5V

N8, terms 29 to 1, 8.0V to 8.7V

P5, term 41 to 1, 5.1V to 5.7V

C. Scope on ACC2, term 3, 5V/DIV, 50 microsec/DIV, internal trigger. Picture per Figure 2.

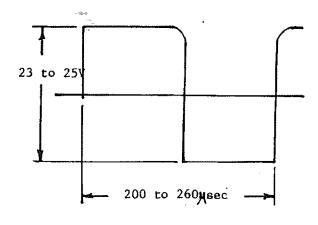


Figure 2

PRINTS TO

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II-1-78

DRIVE SYSTEMS
ON OR DEPT. 6 8 A 9 4 4 1 4 2

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RASILIPIE: Salem, VA. U.S.A. LOCATION CONT ON SHEET 3 SH NO. 2

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FF-803 WF (1-77) PRINTED IN U.S.A. MADE

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GENERAL & ELECTRIC

68A944142

CONT ON SHEET 4 SH 80. 3 TITLE Test Specifications REV NO. DC/DC POWER SUPPLY 68A944142 INVERTER PRIMARY CONTROL FIRST MADE FOR 1C3600EPSU1 3 SH NO. CONT ON SHEET REVISIONS

TEST STEPS (Continued)

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- Current Limit Setting (Wavetek still switched off)
 - Close 6SW. Close 4SW and 5SW to COM. 2.00 v on IPvension
 - Set 1.7 bus (Red jack on aux card) at 1.70 volts + .005V with precision voltmeter.

Scope on OCL, term 23, 2V/CM, free running still 50µsec/DIV. ADI RTO TO SEE WAVE TOXAL Scope picture may be erratic but is about +5V.

D. Open 6SW. Change 2SW to Pl.7. Turn R70 on card until scope picture is about half time at OV and half time at +5V or in between and chattering (turn intensity on scope up so that all chatter may be seen). Note, CW on R70 makes scope +5V, CCW makes scope OV. This sets point of current limit Channel A.

E. Reverse 2SW and 3SW (3SW now on Pl.7). Adjust Pl.7 to get same or approx. as pictured in 3D. Measure P1.7 Volts, must be 1.65 to 1.77 Volts. This checks current limit Channel B. 1.96 TO 2.06 VOLTS ON IP UERSION

- F. Seal Pot R70 with RTV.
- G. Close 6SW. Increase Pl.7 until picture of 3D reappears. Pl.7 to be 2.9 to 3:4 Volts.

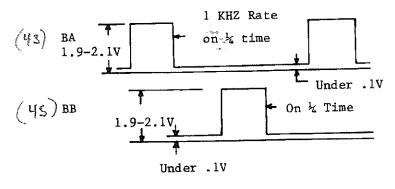


FIGURE 3

DIV OR R.E. Hannah Drive Systems 68A944142 790703 RE TASUED LOCATION CONT ON SHEET 4 вн но. З Salem, Va. 7-6-79 CODE IDENT NO.

FF-803 WF (5-78)

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4) BUILLO3 QA LAC ECCOQ 3C

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REM CGL 2 - 8496 860 3-80945ZH

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PRINTS TO

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REVISIONS

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SH #0.

CONT ON SHEET

Test Specifications
DC/DC POWER SUPPLY
INVERTER PRIMARY CONTROL

FIRST MADE FOR IC3600EPSU1

4. Base Drivers and Logic

TITLE

- A. ISW and 6SW closed; 2SW and 3SW on wavetek; 4SW and 5SW on COM.
- B. Scope CHAN A on wavetek, 2V/DIV, 100 psec/DIV. Set wavetek for 9V peak to peak, 2KC square wave.
- C. Move CHAN A to BA (Term 43), 1V/DIV. CHAN B to BB (Term 45), 1V/DIV. Synch on channel A. Check per Figure 3.
- D. Change scope to 50 millisec/DIV and external trigger on P8 (Term 27). Open and close ISW, scope to trigger on closing ISW.
- E. Check power applied reset per Figure 4 as 1SW is closed.

Like Figure 3 Condensed

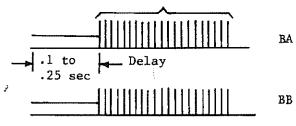
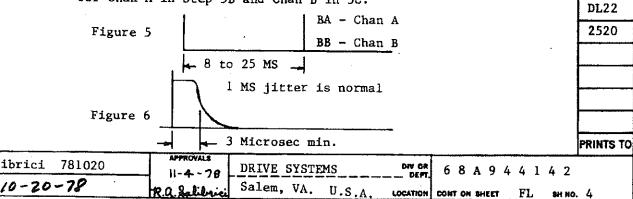


Figure 4

5. Protective Circuits

- A. 1SW and 6SW closed; 2SW and 3SW on wavetek; 4SW and 5SW to COM; scope probes on BA (Chan A) and BB (Chan B).
- B. Scope Chan A only, 5MS/DIV, internal Pos. trigger. 4SW to P51.

 Light emitting diode CR25 must turn On. Check per Figure 5.
- C. Scope Chan B only. 4SW to COM. Light goes Out. 5SW to P51. CR25 On. Scope like Figure 5.
- D. Scope 5 microsec/DIV. Pulse of Figure 5 becomes like Figure 6, for Chan A in Step 5B and Chan B in 5C.



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