278A2051 CONT ON SHEET 1 2 TITLE TEST INSTRUCTIONS 278 A 2 0 5 1 POWER SUPPLY PANEL FIRST MADE FOR 3\$7932MD239A1 CONT ON SHEET REVISIONS I. SCOPE THESE GENERREX POWER SUPPLY PANELS WERE DESIGNED FOR GENERAL USE TO SUPPLY 3 DC VOLTAGES (2 OF WHICH ARE REGULATED) FROM THE 115 VOLT, New 213 HZ INVERTER PANEL SOURCE (3S7932MA333G2). IF THE INVERTER PANEL IS USED AS A SUPPLY IT MUST BE PRETESTED AND ADJUSTED. (SEE TEST 1-17-85 INSTRUCTIONS 278A2O46). IN ADDITION THE PWB'S (\$88A8CF2) REV J.W E-12-87 ALSO BE PRETESTED. II. TEST EQUIPMENT A. DVM - 3% B JUSE ELDGAR MODEL 1203SI SUPPLY AT 110V AT 213HZ (IF INVERTER IS NOT USED, SUPPLY MUST HAVE RECTIFIED AVERAGE VOLTAGE OF 99 VOLTS. IF SINUSOIDAL, RMS SHOULD BE 110 VOLTS). THE USE OF INVERTER PANEL FOR INPUT SUPPLY IS PREFERRED. NOTE: WHEN USING THE INVERTER SET AC INPUT FOR TO 110 (3TB-D TO 2HS HEAT SINK) 122 ±1 VAC AT CKT 111 THE OUTPUT SHOULD BE SET WITH 55" 12" OFF-TIME. ADD NOTE 12/21/93 USE IP ON INVERTER TO ABJUST, 28 NECESSARY. (SEE INVERTER INSTRUCTIONS, IF MECESTARY) 4 C. OSCILLOSCOPE (TEXTRONIX 503 OR EQUIVALENT) D. LOAD RESISTORS 100 W. ADJUSTABLE O TO 30 OHMS E. 0 - 10 AMP DC METER F. DRAWINGS 1. ELEMENTARY 440322030 2, CONNECTOR 44C322031 G. (4) 3 AMP, 250 VOLT DISPOSABLE FUSE (PART * 323A2396P14) 111. TEST PROCEDURE A. SETUP PWB'S FROM THE PANEL 1. REMOVE BOTH 305A2012 2. WIRECHECK PER ELEMENTARY 3. CONNECT 213 HZ SOURCE TO INPUT POINTS PITEL (OR THE AND PITEL (OR 1TB2) B. ELECTRICAL TEST 3EHI

1. APPLY 213 HZ POWER TO PANEL

2. THE VOLTAGE ACROSS 101 SCR AND 102 SCR SHOULD BE 25 TO 30 VOLTS DC.

HADE BY J.J. DVORSCAK 278A2051 DRIVE SYSTEMS SALEM, VA 10/29/79

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COURT ON SHEET

LOCATION

CODE IDENT NO

RINTS TO

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CONT ON SHEET

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REVISION

Rev Z

(17 test. M.)

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Rev. 3

ADDED NO 12/21/93

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TITLE

TEST INSTRUCTIONS POWER SUPPLY PANEL

CONT ON SHEET

3 SH NO. FIRST MADE FOR 357932MD239A1

- REMOVE POWER AND REINSERT PWB'S, SET R200 ON EACH CARD, FULLY COM AND R300 FULLY CW.
- 3A. CARD BERG JUMPER TXT MUST BE ON BC.
- 4. CONNECT LOAD RESISTOR, SET AT APPROXIMATELY 10 OHMS, ACROSS THE +15 VOLT SUPPLY OUTPUT IN SERIES WITH THE 10 AMPS DC METER. POSITIVE OUTPUT POINT IS 102TB9. NEGATIVE IS 102TB10
- 5. APPLY 213 MZ SUPPLY AND ADJUST OUTPUT VOLTAGE TO 15 ± 0.05 VOLTS USING . 104P. THE CURRENT SHOULD BE APPROXIMATELY 1.5 AMPS.
- 6. ADJUST LOAD RESISTOR TO VARY OUTPUT FROM 1 AMP TO 5 AMPS. VARIATION IN OUTPUT VOTLAGE SHOULD BE LESS THAN I VOLT MEASURED AT POWER SUPPLY OUTPUT. RAISE LOAD TO 5.5 AMPS.
- 7. ADJUST FOR 5.5 AMP CURRENT LIMIT BY TURNING R300 CCW UNTIL OUTPUT CURRENT JUST STARTS TO DECREASE. (NOTE TURNING ROOD OW RAISES CURRENT LIMIT)
- 8. MAXIMUM RIPPLE SHOULD BE 100 MV, P-P, USING AN OSCILLOSCOPE ACROSS THE OUTPUT TERMINALS.
- 9. INCREASE LOAD RESISTANCE TO MAXIMUM AND THEN DECREASE UNTIL LOAD CURRENT IS 2.5 AMPERES.
- 10, REMOVE POWER AND REPLACE 101FW WITH THE 3 AMP DISPOSABLE FUSE.
- 11. APPLY POWER AND ADJUST 184P FOR 17.5 VOLTS DC. (SEE NOTE 1 BELOW)
- 12. ADJUST R200 CW TO BLOW THE FUSE AT 17.5 VOLTS DC.
- 13. REMOVE POWER, REPLACE FUSE WITH ANOTHER DISPOSABLE FUSE, TURN 104PIN THE LOWER DIRECTION TO GET BACK TO ABOUT 15 VOLTS.(ABOUT 7 TURNS뗃로
- 14. REAPPLY POWER AND ADJUST 104P TO RAISE OUTPUT VOLTAGE, CHECK THAT FUSE BLOWS WHEN OUTPUT REACHES 17.5 VOLTS # 0, - 0.2 VOLTS.
- 15. REMOVE POWER AND REPLACE 101FM WITH ORIGINAL FUSE. ADJUST 104P COW IN THE LOWER DIRECTION TO GET BACK TO ABOUT 15 VOLTS.
- 16. REAPPLY POWER AND ADJUST OUTPUT VOLTAGE TO 15 ± 0.05 VOLTS DC.
- 17. REPEAT STEPS 4 THROUGH 16 WITH THE -15 VOLTS POWER SUPPLY. T.B. POINTS IN STEP 4 ARE 202TB9 AND 202TB10. THE FUSE IN STEPS 10 AND 15 IS 201FW.
- REMOVE POWER AND RECONNECT AMMETER AND LOAD RESISTOR (SET FOR MAXIMUM RESISTANCE) ACROSS THE 24 VOLTS SUPPLY OUTPUT. (1787 IS POSITIVE, ITBS IS NEGATIVE). ALSO CONNECT SCOPE ACROSS LOAD.
- 19. APPLY POWER AND VARY LOAD FROM 1 AMP TO 5 AMPS WHILE OBSERVING OUTPUT VOLTAGE WITH THE VOLTMETER AND RIPPLE WITH THE SCOPE. THE OUTPUT VOLTAGE SHOULD BE 28 ± 1 VOLT AT 2.5 AMPS OUTPUT, AND NOT DROP BY MORE THAN 5 VOLTS AS LOAD IS INCREASED FROM 1 AMP TO 5 AMPS. AND THE RIPPLE SHOULD NOT EXCEED 100 MV P-P.
- 20. REMOVE POWER AND DISCONNECT LOAD.

NOTELIFUNABLE TO GET UPTO 17.5 VDC ADJUST 'IP'ON THE OR RAISE 213 HE INPUT TO POWER SUPPLY FROM 102TB-1 TO 102TB-10 IS EQUAL TO INVERTER VOLTAGE UNTIL Z3 VOLTS.

MADE BY J.J. DVORSCAK

DRIVE SYSTEMS SALEM, VA

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CONT ON SHEET FL TITLE NEV NO. TEST INSTRUCTIONS 278A2051 POWER SUPPLY PANEL CONT ON SHEET FL SH NO. 3 FIRST MADE FOR 387932MD 239 A 1 REVISIONS SHEET NOT NEEDED FOR TEST Rev.1 IV. TEST DATA A. INPUT SOURCE USED 1. INVERTER YES NO 2. OTHER A. WAVEFORM B. VOLTAGE B. WIRECHECK C. VOLTAGE ACROSS 101SCR VOLTS

VOLTAGE REPOSS 102SCR VOLTS D. +15 VOLT SUPPLY 1. VOLTAGE AT 1 AMP LOAD 1. VOLTAGE AT 5 AMP LOAD

2. VOLTAGE AT 5 AMP LOAD

AMPS 4. CURRENT WITH ZERO LOAD RESISTANCE 5. MAXIMUM RIPPLE _____ MV, P-P 6. FUSE BLOWS AT VOLTS S E. -15 VOLT SUPPLY 1. VOLTAGE AT 1 AMP LOAD _____ 2. VOLTAGE AT 5 AMP LOAD 3. CURRENT LIMIT SETTING _____ 4. CURRENT WITH ZERO LOAD RESISTANCE MV, P-P 5. MAXIMUM RIPPLE VOLTS 6. FUSE BLOWS AT _____ F. 24 VOLT SUPPLY VOLTS 1. OUTPUT VOLTAGE AT 1 AMP _ 2. OUTPUT VOLTAGE AT 2.5 AMPS VOLTS VOLTS 3. OUTPUT VOLTAGE AT 5 AMPS MV. P-P 4. MAXIMUM RIPPLE _____ 3EH I + DEFT. J.J. DVORSCAK DRIVE SYSTEMS 278A2051 SALEM, VA LEGARGE COUT ON SHEET. FL. SH NO. CODE IDENT NO

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