TITLE TEST INSTRUCTIONS FOR SETPOINT CONTROL 68A944914 CONT ON SHEET SH NO. FIRST MADE FOR SPEEDTRONIC ELEMENTARY DIAGRAM - IC3GOOSSLD1 SH..3.0,.3.1 TEST EQUIPMENT ±12V POWER SUPPLY, 50MA +5V POWER SUPPLY, 0.3A +28V POWER SUPPLY, 20MA 1 VOLTMETER PRECISION, 1MV TO ±10V f.S. 1 VOLTMETER TO ALSO READ MA 1 MICROAMMETER 1 SCOPE. 1 WAVETEK SIGNAL GENERATOR 1 VARIABLE DC POWER SUPPLY, OV TO ±10V (PRECISION) 1 CONNECT PER FIG. 1. (SW1, 2, 3 OPEN) FIGURE 1 +57 PS1_ POWER SUPPLY COM VARIABLE DC SUPPLY OV TO ±10V -12V (PRECISION) 731 VAR!ABLE DC SUPPLY 1/2W- 1% 1. VISUALLY CHECK THE FOLLOWING COMPONENTS. CHECK THAT THE POLARITY OF DIODES IS CORRECT. CR11, CR12 > R71 = 100~ R71 thru R73 - 100 Ohm) R21 - 10K RTZR73 = 121 12 (ACCORDING TO R45 - 825 Ohm 2. ATTACH 8-20KHZ LOADS TO EACH OF THE FOLLOWING TERMINALS (15), (17), (23), (22), (21), (30), (16), (33) 3. APPLY POWER TO THE CARD PER FIGURE 1. INPUT GATE LEAKAGE - CONNECT IN TURN THE FOLLOWING PINS TO 2.5V THRU A MICROAMMETER. MEASURE THE FOLLOWING CURRENTS. PINS / MAX CURRENT MICROAMP (3), (4), (5), (6), (7), (36), (25), 40 EACH (24), (31), MADE BY APPROVALS S. HILL DRIVE SYSTEMS

SALEM, VA

TEST INSTRUCTIONS FOR SETPOINT CONTROL

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CONT ON SHEET 4 . SH NO. 3

FIRST MADE FOR SPEEDTRONIC

- D. REMOVE CONNECTION BETWEEN PINS (44) AND (50). CLOSE SW3. ADJUST PS2 TO OBTAIN +7MV to +10MV ON PIN (44). CHECK PIN (39) TO BE +5V ± 0.5V. SLOWLY TURN POT FRA CCW MONITORING PIN (39) UNTIL VOLTAGE SWITCHES TO OV±0.4V. TURN POT R4 BACK JUST SO PIN (39) SWITCHES TO +5V ± 0.5V. (Meter return to 51)
- E. ADJUST PS2 TO OBTAIN -7MV to -10MV ON RIN (44). CHECK PIN (37) TO BE +5V ±0.5V. SLOWLY TURN POT R3 CW MONITORING PIN (37) UNTIL VOLTAGE SWITCHES TO 0V±0.4V TURN POT R3 BACK JUST SO PIN (37) SWITCHES TO +5V ± 0.5V.

OPEN SWI AND REMOVE BEN A FROM COMM. CLOSE SWI

- 94. ADJUST PS2 TO +5±0.005V AS MONITORED ON PIN (40). ADJUST POT R1 SO THAT THE VOLTAGE AT PIN (44) AS 0±0.001V. CHECK THAT THE VOLTAGE AT PINS (37) AND (39) ARE OV ± 0.4V. REMOVE 5W8 PIN (46) FROM PIN (50). CLOSE 5W2.
- B ADJUST PS1 FOR -10+0.005V ON PIN (46). ADJUST PS2 TO +1+0.005V ON PIN (40). ADJUST R2 S0 THAT THE VOLTAGE AT PIN (44) IS 0+0.001V. CHECK THAT THE VOLTAGE AT PINS (37) AND (39) IS OV + 0.4V.
- C. ADJUST PS2 TO +1.020±0.005V. CHECK THAT THE VOLTAGE AT PIN (39) IS 5±0.5V AND AT PIN (37) IT IS 0±0.5V. READJUST PS2 TO 2.980±0.005V AND READJUST PS1 TO -5V ±0.005V ON PIN (46). CHECK THAT THE VOLTAGE AT PIN (39) IS 0±0.5V AND THE VOLTAGE AT PIN (37) IS 5±0.5V. OPEN SW2. SW3. AND SW4.
- 10. CHECK THE TRUTH TABLE FOR THE INPUT SEQUENCE INDICATED. A LOGIC "O" MUST BE LESS THAN 0.4V, A LOGIC "1" MUST BE GREATER THAN 3.5V. PERFORM THE TEST SEQUENTIALLY STEP BY STEP, from top to bottom, checking the output states at each step. If a card is plugged into a prewired fixture in Step 3, Pin 32 must be opened then regrounded for each card.

INPUT READ dowN

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DRIVE SYSTEMS

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SALEM, VA

LOCATION CONT ON SHEET 4

SHIP

FF803 WF (1-72) PRINCIO IN U.S.A.

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