

TITLE TEST SPECIFICATIONS FOR SERVO VALVE DRIVE 68A944846 FIRST MADE FOR CONT ON SHEET 3 SH NO. 1C360055YG1 + REVISIONS TEST STEPS 1. RESISTOR MEASUREMENTS with test circuit disconnected. (set gain pot R90 all cw) FROM TO OHMS UNDER 1 **REF (17)** J1 (CARD FRONT) VCE (22) (CARD FRONT) UNDER 1 J2 OUT 2 UNDER 1 (CARD FRONT) OUT2 (19) OUT 1 (CARD FRONT) OUT1 (18) UNDER 1 SJ (37) REF (17) 68.1K ± 2% + SJ (37) $68.1K \pm 2\%$ FB (41) **TEST (36)** STAB (39) 22_1K ± 2% G1 (45) G2 (47) 12_1K ± 2% P1 (33) P3 (32) 66Ω ± 10% 22Ω ± 10% P1 (33) PA (3) $220 \pm 10\%$ P2 (34) PA (3) P2 (34) $660 \pm 10\%$ P4 (23) +ST1 (20) -OUT1 (18) 5 TO 75Ω (DIODE DROP - MAY VARY WITH METER) +ST2 (21) -OUT2 (19) 5 TO 75Ω GND (5) CARD FRONT UNDER 10 BIAS (40) 15K ± 10% N1.2 (29) la. Tie (40) to com.(close sw9 up). GAIN AND SATURATION WITH 74 OHM LOADS (connect test circuit, R90 full cw)(SWS OFF) A. TIE PA (3), P3 (32), AND P4 (23) TOGETHER (CLOSE SWZ) B. TIE P1 (33), TO OUT 1 (18). TIE P2 (34) TO OUT2 (19) (CLOSE SW3) C. TIE THE 74 OHM LOADS TO OUT1 (18) AND OUT2 (19) (SWI UP) D. OUTPUT VM ON OUT1 (18). Wavetek off. 780211 E. APPLY DC INPUT OF +0.10V to REF (17), VM reads -3 to -4V and no ripple on F. MOVE VM TO OUT2 (19). READS WITHIN 10% OF VALUE IN E. scope. G. INCREASE INPUT UNTIL VM SATURATES, MUST BE OVER -4.4V. CHANGE INPUT TO -1V. VM MUST BE OVER +4.7V. READ TEST (36). MUST BE +2.85 TO +3.10V. 10/26/73 K. REMOVE all jumpers and loads. A. TIE 1K LOADS TO OUT1 (18) AND OUT2 (19) (SWI DOWN) B. OUTPUT VM STILL ON OUT2 (19), WAVETEK OFF C. APPLY DC INPUT OF +0.20V to REF (17), VM reads -3.2 to -4.2V and no ripple on S D. MOVE VM TO OUTL (18). READS WITHIN 10% OF VALUE IN C. scope. + E. INCREASE INPUT TO +1V. OUTPUT VM READS OVER -5.5V ~ N F. SET INPUT AT -1V. OUTPUT VM READS OVER +5.5V G. TURN GAIN POT R90 ALL CCW. OUTPUT VM READS +3.2 TO +4V. H. SHORT GI (45) TO G2 (47). CHANGE INPUT TO -.5V. (CLOSE SW4) OUTPUT VM READS +4.6 TO 5.4V. DL22 J. REMOVE GI (45) TO G2 (47) JUMPER. (OPEN SW4) 2520 K. JUMPER STAB (39) AND LAG (43). SET DC INPUT AT ZERO. (SET SW5 TO POS1) L. WAYETEK ON SINE WAYE AT 3 HZ. SET MAGNITUDE SO OUTPUT (CHANNEL B) IS BY PEAK TO PEAK. INPUT (CHANNEL A) IS TO BE 6 TO BY PEAK TO PEAK. M. MOVE JUMPER IN LAG (43) TO C1 (44), STAB TO C1 IS NOW JUMPERED. (SWS TO POS.2) N. WAVETEK AT 80 HZ. SET OUTPUT TO 8V PEAK TO PEAK + INPUT TO BE .6 TO .BV PEAK TO PEAK PRINTS TO MADE BY APPROVALS R. DEMPSEY 68 A 9 4 4 8 4 6 INDUSTRY CONTROL Cheuse ISSUED January 2,1973 SALEM, VIRGINIA LOCATION CONT ON SHEET 3 SH NO.

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