

REV NO. A
68A993408
CONT ON SHEET 2 SH NO. 1

TITLE
TEST SPECIFICATIONS
SERVOVALVE CONTROL
FIRST MADE FOR IC3600SSVA1

REVISIONS

1. VISUALLY INSPECT THE FOLLOWING COMPONENTS TO ASSURE THEY ARE PROPER:

R58 330K OHMS
R42 100K OHMS

C5 .0027 MFD

C9 .027 MFD

C22 1 MFD
C26 5 MFD
C28 50 MFD

OBSERVE POLARITY

1A. C11 CAPACITOR CHECK (SEE BELOW)

2. MAKE THE FOLLOWING RESISTANCE CHECKS:

FROM	TO	OHMS $\pm 10\%$
FS3 (12)	REF (10)	6.8K
SJB (36)	REF (10)	11.2K
OUTA (3)	SCA (4)	.1K
OUTA (3)	SCB (5)	.1K
OUTB (18)	SCC (7)	12 OHMS
OUTB (18)	SCD (8)	12 OHMS
SRV (35)	SJB (36)	5.6K
SJB (36)	NOZ (9)	220K
SJB (36)	B (37)	10K
SJB (36)	D (39)	0 TO 2 K (R94 FULLY CW)
SJB (36)	D (39)	50K (R94 FULLY CCW)

FOR THE FOLLOWING TESTS, CONNECT POWER TO THE CARD:

P50V (24)
N50V (30)
P25V (23)
A COM (2-50) 50V
D COM (1-31) P28
SHORT SJA (6) TO SJB (36)

1A. TIE SJA (6) TO B(37); AND SJB (36) TO ACOM (2). *WILL SHORT OUT SIGNAL*
NO OTHER POWER ON CARD.
WAVETEK FROM OUTA (3) TO ACOM (2).
SET WAVETEK AT 20 HZ 10V PEAK TO PEAK SINE WAVE.
READ B (37) TO ACOM (2) ON SCOPE. MUST BE .2 TO .4V PEAK TO PEAK.

CHANGED STEP #3
9/11/68 UMC
2/18/69 STEP 3
2-18-69 UMC

3 WH HAND 2-12-70
4 WH HAND 8-8-70
5 AC WRIGHT 8-15-70
6 REHMAN 11/1/72

2520

1EL1

4QA3

1338

PRINTS TO

MADE BY V. M. STOCKTON
ISSUED Aug. 16, 1968

APPROVALS
VER.

INDUSTRY CONTROL
SALEM, VIRGINIA

DIV OR DEPT
LOCATION

68A993408

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CONT ON SHEET FL. SH NO. 2

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LEAVE (6) TO (36)

REMOVE (36) TO (2) AND (6) TO (37)

ZERO

3. CONNECT AN AMMETER BETWEEN SJA (6) AND A COM (2-50). WITH R92 FULLY CW, THE AMMETER MUST INDICATE BETWEEN .14 MA AND .22 MA, AND WITH R92 FULLY CCW MUST INDICATE BETWEEN -.14 MA AND -.22 MA.

SET R92 SO THAT THE AMMETER READS 0 AND LEAVE IT THAT WAY FOR THE FOLLOWING TESTS. PUSH THE PUSHBUTTON ON THE CARD FRONT TO TURN OUT LIGHTS LT1 AND LT2 IF THEY ARE ON.

4. WITH THE AMMETER CONNECTED BETWEEN SJA (6) AND A COM (2-50) AS IN STEP 3, CONNECT A ~~68K~~ RESISTOR BETWEEN THE P50V BUS AND SCE (20). THE AMMETER SHOULD READ BETWEEN 0.01 AND 0.03 MA. LAMP LT1 LABELLED "CURRENT LOOP" ON THE CARD FRONT SHOULD TURN ON, AND OUTPUT ANCO (16) SHOULD BE A 0 (LESS THAN 0.4 VOLTS). DISCONNECT THE ~~68K~~ RESISTOR AND CHECK THAT THE LAMP STAYS ON. PUSH PB1, AND CHECK THAT THE LAMP GOES OUT AND ANCO (16) GOES TO A 1 (GREATER THAN 5 VOLTS).
5. REPEAT STEP 4 EXCEPT THAT THE ~~68K~~ RESISTOR IS CONNECTED BETWEEN P50V AND SCF (13).
6. REPEAT STEP 5 EXCEPT THAT A 1.2K RESISTOR IS CONNECTED BETWEEN P50V AND FPA (15). 1.2K RESISTOR MUST BE 2 WATT.
7. REPEAT STEP 6 EXCEPT THAT A 1.2K RESISTOR IS CONNECTED BETWEEN P50V AND FPB (14). 1.2K RESISTOR MUST BE 2 WATT.
8. LEAVE THE AMMETER BETWEEN SJA (6) AND A COM (2-50) AS IN STEPS 4 THRU 7 ABOVE. CHECK THAT LAMP LT2 "POSITION LOOP" IS OFF AND ANPO (17) IS A 1 (GREATER THAN 5 VOLTS). CONNECT ONE SIDE OF A 20 VOLT P-P, 3000, CYCLE, SINE WAVE TO COM (2-50). CONNECT THE OTHER SIDE SUCCESSIVELY TO INPUTS 45, 46, 47, 48. WITH R90 FULLY CW, THE AMMETER SHOULD READ -2.5 TO -3.2 MA FOR EACH INPUT. WITH R90 FULLY CCW, THE AMMETER SHOULD READ -0.8 TO -1.2 MA FOR EACH INPUT. LAMP LT2 LABELLED "POSITION LOOP" ON THE CARD FRONT SHOULD TURN ON AND OUTPUT ANPO (17) SHOULD GO TO A 0 (LESS THAN 0.4 VOLTS) FOR EACH INPUT. RESET THE LAMP WITH PB1 AFTER EACH TEST. USE A WAVETEK OR H-P 200CD OSCILLATOR
9. CONNECT SVRB (44) TO ACOM (2-50). CONNECT PIN 46 TO +12V. CHECK THAT THE VOLTAGE ON PIN 43 IS -3.5 TO -4.5 VOLTS.

REV

CHANGED STEP 4

3/2-19-69 UMS

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PRI

MADE BY V. M. STOCKTON
ISSUED Aug. 16, 1964

APPROVALS 
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SALEM, VIRGINIA	LOCATION

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