REV NO.	TITLE	CONT ON SHEET	SH NO.
68A999416	Test Specifications SRV DRIVE	2	1
CONT ON SHEET 2 SH NO. 1	FIRST MADE FOR IC3600SSVD1		

1. Visually check the following components:

C7, C8	0.1MFD
C4, C6	0.01MFD
C13	0.22MFD
C15	4.7MFD (Check Polarity)
C17, C19	10MFD (Check Polarity)
R7, R9	390 Ohms
CR1, CR2, CR3, CR27	

2. Make the following resistance checks:

OUT (22) to SCA (13) 440 to 500 Ohms
OUT (22) to SCB (19) 440 to 500 Ohms
TPE (40) to LC (41) 2.6K to 3.1K Ohms (TC R97 CCW)
HG (33) to SJA (34) 69K to 79K Ohms
LC (41) to TPE (40) 50K to 60K Ohms (TC R97 CW)

3. Attach the following loads:

FLT (6)	7 - 20 KC Loads
OFLT (10)	7 - 20 KC Loads
1000 Ohm Resistor	SCA (13) to ACOM.
1000 Ohm Resistor	SCB (19) to ACOM.

Connect a 6.81K resistor from NHP (35) to P12V.
Connect a 330K resistor from TPE (40) to SJA (34).
Turn R97 (T.C.) fully CW and R90 (STAB LOWER) fully CCW.
Connect ACOM (2) to DCOM (STAB-LO) (1).
Apply +12 Volts to (27) and -12 Volts to (29). Connect COMMONS to (2,50),(1,51).

4. Short INH (4) to +12V through an ammeter and check that current is less than 1μA.
Short INH (4) to COM. through an ammeter and check that current is 0.2 to 0.4MA.
Check that the voltage on SR (38) is 5 to 6V.
Check that the voltage on TPD (45) is 0 ± 0.2 Volts. For Rev. D and earlier.
+.8 ± .2 Volts. For Rev. E and later.

REVISION
REV-4 BUG68AV 8-2-78 REH
REV-5 BU941EP 5/16/79
REV.6 30APR86 JMT

2520
DL22

PRINTS TO

MADE BY	APPROVALS		
RE Hannah 780801	E. Gew	DRIVE SYSTEMS (DIV OR DEPT.)	68A999416
ISSUED 8-3-78		Salem, VA. U.S.A. (LOCATION)	CONT ON SHEET 2 SH NO. 1

RE

FF-803 WF (7-77)
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CODE IDENT NO. CARS

REV NO.	TITLE
68A999416	Test Specifications SRV DRIVE
CONT ON SHEET 2.1 SH NO. 2	FIRST MADE FOR IC3600SSVD1

4. (Continued)

Short SR (38) to COM. through an ammeter and check that current is 0.9 to 1.5MA.

5. Connect a signal generator, 3000 HZ Sine Wave to SA (31) and SC (21). Set it to +10V (P to P) and check that the voltage at TPC (12, 44) is correct for the following conditions:

POSITION FBK VOLTAGE TPC (12, 44)	CONDITIONS
-10 to -11.5	(ZERO) R95 CW, (GAIN) R92 CW
-10 → -11.5	(ZERO) R95 CCW, (GAIN) R92 CW
-1 → -3	(ZERO) R95 CCW, (GAIN) R92 CCW

Turn R92 (GAIN) fully CW and adjust the signal generator amplitude to give -2V at TPC (12,44).

(SW1 ON AUX. CARD)
Short INH (4) thru 3 external diodes to COM and verify that FLT (6) is 0 to 0.4V, OFLT (10) is 5 to 7V and Lamp LT1 is OFF.

Slowly adjust the voltage on TPC (12, 44) toward Zero via sig. gen. until the lamp comes On. Check that FLT (6) is 5 to 7V, OFLT is 0 to 0.4V, and TPC is between -1V and -1.6V.

Set TPC (12, 44) to -2V again and verify that LT1 goes Out. Adjust the voltage on TPC (44) more Negative until LT1 comes on again. Check that the voltage on TPC (12, 44) is -2.5 to -3V.

Connect ADJ1 to ADJ2 and turn REF R89 fully CW. Set TPC(12,44) to -2V again and verify that LT1 goes out. Adjust the voltage on TPC (44) move negative until LT1 comes on again. Check that the voltage on TPC (12,44) is -2.5V to -3.0V volts. Turn R89 fully CCW and set TPC (12,44) to -1.8V ± 50MV and verify that LT1 goes out. Adjust the voltage on TPC (44) move negative until LT1 comes on again. Check that the voltage on TPC (12,44) is -2.0V to -2.4V. Remove the short from ADJ1 to ADJ2.

(SW1 ON AUX CARD)
Remove the short from INH (4) to COM. Adjust the voltage on TPC (12,44) to -10V and verify that LT1 remains off.

REVISIONS

REV-4 BU96PAV 8-2-78 REN
REV-5 BU94IEP 1/26/79 SBM
REV-6 BU9411JG 12/4/81 CWF
REV. 7 30APR86 JMT

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PRINTS TO

MADE BY	APPROVALS		
RE Hannah 780801	G4W	DRIVE SYSTEMS (DIV OR DEPT)	68A999416
ISSUED 8-3-78		Salem, VA. U.S.A. (LOCATION)	CONT ON SHEET 2.1 SH NO. 2

REV NO.	TITLE	CONT ON SHEET 3	SH NO. 2.1
68A999416	Test Specifications SRV DRIVE		
CONT ON SHEET 3 SH NO. 2.1	FIRST MADE FOR IC3600SSVD1		

REVISIONS

6. Short Pin (45) to COMMON.
Short D (46) to TPC (44), connect VCE (49) to a 5 ± 0.1 volt source. Jumper J1 to J2 on the card front. Turn R92 (GAIN) fully CCW. Adjust the voltage on TPC (12) so that OUT (22) is 0 ± 1 Volt. Check that the voltage on TPC (12) (Hp-7.8V p-p) is -5 ± 0.1 volts. Remove short from 45 to COMMON.

7. Leave D (46) shorted to TPC (44). Leave VCE (49) connected to 5 Volt source and then jumper J1 to J2. Connect C (3) to SCA (13). Check that output FLT (6) is a 0 (0-.47V) and OFLT (10) is a 1 (5-7V) 6.2V, and that Lamp LED is Off. (Input INH (4) should be floating).

NOTE: SW1 off
R92 gain CCW
R89 ref CCW
R95 zero CCW
R97 tc CW
R90 stab lo CCW

OK to continue to next page of test.

1) 27AUG86 JMT

DL22

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PRINTS TO

MADE BY	APPROVALS	DIV OR DEPT.	
RE Hannah 790126	RE Hannah	Drive Systems	68A999416
ISSUED 1/26/79		LOCATION Salem, Va.	CONT ON SHEET 3 SH NO. 2.1

FF-803 WF (11-77)
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CODE IDENT NO.

7. (Continued)

Adjust the voltage on TPC (12,44) (by means of the 3000 NZ signal generator) to -2 Volts. Turn (STAB HI) R98 CW. Check that the voltage on OUT (22) is between -9.0 and 10.1 Volts, and that LT1 is Off.

Adjust the voltage on TPC so that the voltage on OUT (22) is fully Positive. Check that this voltage is between +8 and +9 Volts, and that LT1 is Off.

Remove the jumper from C (3) to SCA (13) and connect C (3) to OUT (22). Adjust the signal generator so that OUT (22) goes fully Positive and check that Lamp LT1 remains Off.

Adjust the signal generator so that OUT (22) goes fully Negative, short SCB (19) to COM, and check that Lamp LT1 comes On.

8. Remove jumper from (19) to COM. Remove jumper from J1 to J2.

Remove the jumper from D (46) to TPC (44), short D (46) to N12 and check that LT1 comes On. Short SR (38) to COM. Connect a variable voltage to input PI (32). For each Step below adjust the variable voltage source to give 2 ± 0.5V at output TPD (45), and check that the voltage on PI (32) is per the the table below.

VOLTAGE PI (32)	CONDITIONS
3 to 5	(SPAN) R93 CW, R96 (OFST) CW, HG (33) shorted to SJA (34)
0.5 to 1.5	(SPAN) R93 CCW, R96 (OFST) CW, HG (33) shorted to SJA (34)
1.5 to 2.5	(SPAN) R93 CCW, R96 (OFST) CCW, HG (33) shorted to SJA (34)
1.0 to 2.2	(SPAN) R93, CCW, R96 (OFST) CCW

With R93 (SPAN) CCW, R96 (OFST) CCW and HG (33) shorted to SJA (34), adjust the voltage source on PI (32) to give 4 ± 1V at output TPD (45). Connect a 5V P-P, (3.54VRMS) 60HZ Sine Wave to input SJAA (34) through a 270K resistor. Turn R97 (TC) CW, R90 (STAB-LO) CCW and check that the AC. voltage at output TPD (45) is 1 ± 0.5V P-P.(0.353-1.06VRMS).

Turn R90 (STAB-LO) CW, readjust the voltage source to give 4V output at TPD (45) and check that the AC voltage at TPD (45) is 4 ± 1V P-P (2.12-3.54VRMS).

REVISIONS
1) ABW BUMPED 1/26/79
2) 30APR86 JMT

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REV NO.	TITLE
68A999416	Test Specifications SRV DRIVE
CONT ON SHEET FL SH NO. 4	FIRST MADE FOR IC3600SSVD1

REVISIONS

1) BUSHED SBW 1/26/79

9. Short SJC (48) to COM. Turn R98 (STAB-HI) full CCW and attach the Sine Wave signal generator thru a 100K, resistor to input SJB (14). Check that the AC voltage on both SCA (13) and SCB (19) is a Sine Wave of amplitude per the table below:

SINGAL GENERATOR	OUTPUT SCA (13) and SCB (19)	CONDITIONS
10 HZ at 2V P-P	4.2V to 5.7V P-P (1.48-2.01RMS)	R (16) shorted to COM
10 HZ at 2V P-P	2.1V to 2.8V P-P (.74 - .99RMS)	R (16) Open
40 HZ at 2V P-P	3.0V to 4.5V P-P (1.06-1.59RMS)	R (16) Open
1KHZ at 2V P-P	7V to 9V P-P (2.47 - 3.18RMS)	R (16) Open

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PRINTS TO