

9S10A

TEST FOR WALKING SWITCH
CORES IN 738 CORE ON 709

A. PURPOSE

This test is to be used on a 709 system with 738 core storage, It attempts to aggravate 5998's which continue to have small plate currents when the grid input is down. This small plate current may "walk" a half select switch core.

B. AREA OF MACHINE REQUIRED

1. Units Card Reader
Main Frame with 738
2. Storage Locations
Program 00000 to 00027
Test area 00030 to 77777

C. PROGRAM CONTROL

1. Deck - one card 9S10A00
Self loading
2. No Sense Switches
3. No Sense Lite

D. ERROR STOPS

- 00007 - Core position about to be tested is not clear. Switch Core "walked"! Address is in accumulator
- 00016 - Core position just tested can not now be cleared. Possible bad switch core. Address is in accumulator.

E. PRINT-OUTS

None

F. COMMENTS

The STORE and subsequent EXECUTE of the CAQ with the decrement indicated causes 76 consecutive "E" cycles to the same address. This will half select other switch cores 76 times and unstable 5998's may then "walk" a switch core. It is possible to marginal test the -220V MSD-DPD bias at -216V#1 to aggravate the 5998's. This control is located below the MSD Reference Voltage Adjust in CSF-1. The MSD-DPD bias may be lowered to -222V as the spec states it to be -220V+/-2V. This procedure increases the reliability of the 5998 tube bias.

00000	-3	00027	0	00003	START	TXL 3,0,23	IOST FOR READ CARD
00001	0060	00	0	00001	ONE	TCOA *	HOLD TILL IN
00002	0622	00	0	00001		STD *-1	MAKE 00001 = 1
00003	-0500	00	0	00022		CAL TEMP-1	SECURE TEST WORD
00004	0602	00	0	00023		SLW TEMP	TEMP STORAGE
00005	0774	00	1	77750	XRA	AXT START-24,1	LOAD INDEX
00006	0520	00	1	00000		ZET 0,1	CHECK TEST LOCATION
00007	0420	00	1	00000		HPR 0,1	FOR ZERO - NO!
00010	0601	00	1	00000		STO 0,1	YES - STORE TEST LOC.
00011	0400	00	0	00001		ADD ONE	INCREASE ADDRESS
00012	0602	00	0	00023		SLW TEMP	SAVE AT TEMP
00013	0522	00	1	00000		XEC 0,1	EXECUTE CAQ WITH 76 }E} CYCLES
00014	0600	00	1	00000		STZ 0,1	CLEAR
00015	0520	00	1	00000		ZET 0,1	TEST ZERO
00016	0420	00	1	00000		HPR 0,1	NO - CANNOT RESTORE
00017	-0500	00	0	00023		CAL TEMP	OKAY
00020	2	00001	1	00006		TIX XRA+1,1,1	NEXT TEST LOCATION
00021	0020	00	0	00003		TRA START+3	REPEAT TEST
00022	-0114	76	0	00030		CAQ *+6,0,62	TEST WORD - 76 E CYCLES
00023	0000	00	0	00000	TEMP	HTR 0	
				00000		END	

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