

TM 9-1220-221-34/2

TECHNICAL MANUAL

DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL

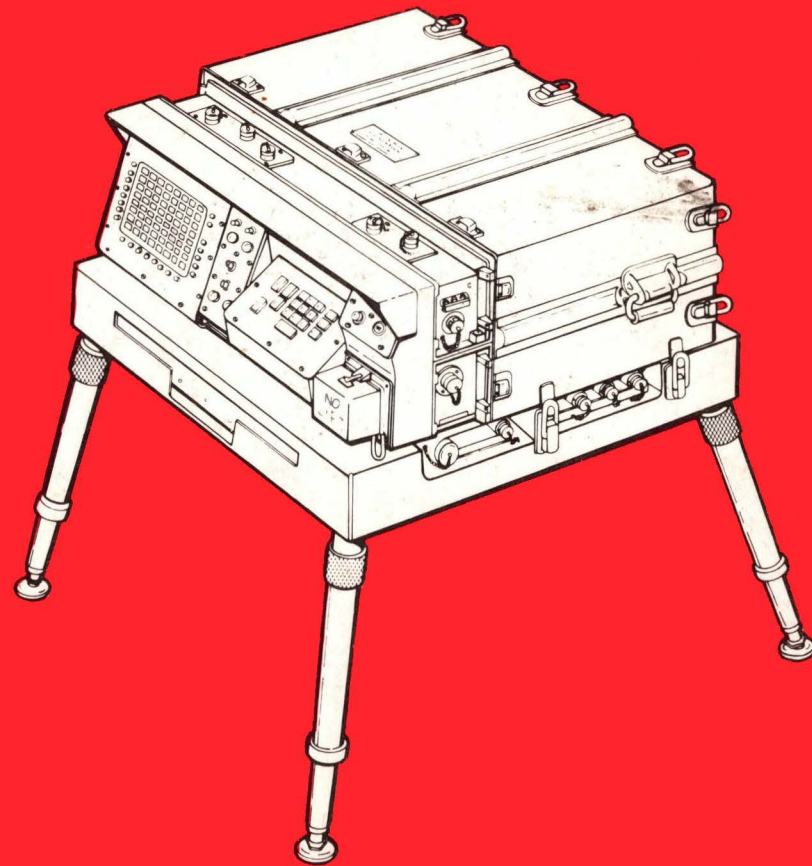
**PROGRAM
PRINTOUT OF
TEST TAPE B
(4931-00-687-8511)**

FOR

**COMPUTER,
GUN DIRECTION,
M18**

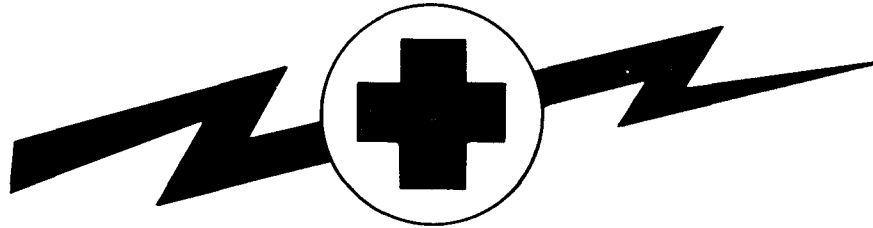
(FADAC)

(1220-00-448-0131)



**HEADQUARTERS , DEPARTMENT OF THE ARMY
JULY 1981**

WARNING



HIGH VOLTAGE

is used in the operation of this equipment.

DEATH ON CONTACT

may result if personnel fail to observe safety precautions.

Never work on electronic equipment unless there is another person nearby who is familiar with the operation and hazards of the equipment and who is competent in administering first aid. When the technician is aided by operators, he must warn them about dangerous areas.

Whenever possible, the power supply to the equipment must be shut off before beginning work on the equipment. Take particular care to ground every capacitor likely to hold a dangerous potential. When working inside the equipment after the power has been turned off, always ground every part before touching it.

Be careful not to contact high-voltage connections of 220-volt ac input connections when installing or operating this equipment.

Whenever the nature of the operation permits, keep one hand away from the equipment to reduce the hazard of current flowing through vital organs of the body.

Do not be misled by the term "low voltage". Potentials as low as 50 volts may cause death.

For artificial respiration, refer to FM 21-11.

Technical Manual)
)
 No. 9-1220-221-34/2)

HEADQUARTERS
 DEPARTMENT OF THE ARMY
 Washington DC, 10 July 1981

DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL
TEST TAPE B PROGRAM PRINTOUT
 (NSN 4931-00-687-8511)
 FOR
COMPUTER, GUN DIRECTION, M18
 (FADAC)
 (NSN 1220-00-448-0131)

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual direct to: Commander, US Army Armament Materiel Readiness Command, ATTN: DRSAR-MAS, Rock Island, IL 61299. A reply will be furnished to you.

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*This manual supersedes TM 9-1220-221-34/2, 7 July 1965, including all changes.

CHAPTER 1

INTRODUCTION

1-1. SCOPE

These instructions provide information and guidance for personnel responsible for direct support and general support maintenance of the gun direction computer M18 (FADAC). These instructions provide the current complete test tape B program printout. This printout corresponds to the information in the associated punched tape used in semiautomatic and manual isolation of malfunctions in the FADAC.

1-2. REFERENCES

- a. For a general description of the FADAC and its operation and maintenance, refer to TM 9-1220-221-10-1, TM 9-1220-221-10-2, TM 9-1220-221-20&P, and TM 9-1220-221-34/1.

1-3. TAPE CARTRIDGE ASSEMBLY

- a. Description and Identification. Punched paper tape is supplied in a tape cartridge 8 inches high, 9 inches wide, and 1-1/2 inches deep. The cartridge is equipped with an adjustable filler to accommodate tapes of various lengths. A number on the cartridge identifies the assembly. The tape is identified by a number printed at the start and finish of the tape.
- b. Nature of Tests. When run in association with the signal data reproducer AN/GSQ-64 (SDR) and the computer logic unit test set AN/GSM-70 (FALT), the tapes provide a test of circuits within the FADAC. The circuits tested are noted in the tape program printout listed in chapter 3.
- c. Assemblies Tested. If the tape stops when running a test and an error indicator flashes on the FALT, the printout should be consulted. The printout indicates the possible malfunctioning assembly or assemblies according to the test number (marker number) being performed when the error occurred.

2-2. ORGANIZATION OF THE PROGRAM PRINTOUT

a. **Glossary of Special Terms and Abbreviations.** Special terms and abbreviations, together with an explanation of their meaning, are listed in chapter 3.

b. **Reading the Program Printout.**

(1) **General instructions.** The printout is organized in 10 columns. The instructions are self-explanatory. The number in a column by itself indicates the marker number. To determine test progress, the **MARKER-INDEX** number is read from the **FALT** display. The marker number is then found in the printout (see chapter 3). All columns are read from left to right up

to the index number displayed. That term in the column so determined is the command, action, or measurement in progress when the tape is stopped. Characters or other information not aligned vertically with the 10 columns are not counted in making a determination.

(2) **Example.** The **ERROR** indicator of the **FALT** flashes and the **MARKER-BOARD #1** reads 345 and the **INDEX-BOARD #2** reads 109. Turn to page 3-43 where marker 345 is. Find marker 345. Find the eleventh row of terms. Follow it over to the ninth term where you will find the term **B2**, which is the command in progress when the tape stopped.

CHAPTER 3

TEST TAPE B PROGRAM PRINTOUT

Section I. INTRODUCTION

3-1. GENERAL

Section III represents the printout of tape-programmed test B. Identification information with possible revision letters or dates is given in the opening lines of the listing, together with connection information and instructions. Check identification information in the printout against identification information on the tape. The printout must correspond to identification information on the start and finish ends of the tape.

3-2. SPECIAL TERMS AND ABBREVIATIONS

- a. The words "tape reader" refer to the SDR.
- b. The words "Manual Entry Unit" refer to the control box C-4020/GSM-70.

- c. Numbers separated by a hyphen (e.g., 015-034) refer to a marker and index number combination.
- d. Symbols followed by a hyphen (e.g., B1-) refer to the complement or inversion of the logic symbol; sometimes referred to in printed text as the prime, or followed by a prime (').
- e. The words "shorting cable" refer to the branched wiring harness. This harness has three plugs marked P10, P16, and P17 which fit corresponding receptacles on the FADAC. The harness is stored in the rear cover and is part of the FALT.

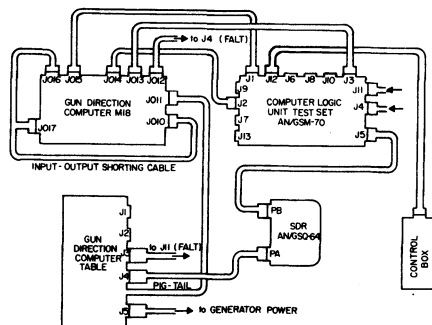
Section II. OPERATOR INSTRUCTIONS

3-3. INITIAL FALT SETUPS FOR FADAC TESTING

- a. CONFIDENCE TEST switch in OFF position.
- b. TEST NORMAL indicator lamp is lit.
- c. DELAY START switch in OFF position.
- d. PROGRAM SKIP A, B, and C switches in OFF position.
- e. WR SW switch in OFF position.
- f. HOMING SELECT switch in BOARD position.
- g. HOMING switch in OFF position.
- h. MARGINAL TEST switch in OFF position.
- i. PRESET STOP switch in NORM position.

3-4. INITIAL FADAC SETUPS FOR FALT TESTING

- a. The memory cable plugs P2 thru P8 are connected to the memory.
- b. The FALT cables shall be connected to FADAC as follows:



- (1) FALT J4 to FADAC J12.
- (2) FALT J3 to FADAC J13.
- (3) FALT J2 to FADAC J14.
- (4) FALT J1 to FADAC J15.

- c. Depress matrix buttons A and 1.
- d. Depress weapon type button 1.
- e. Depress battery button A.
- f. The input-output shorting cable shall be connected between J10, J16, and J17 of FADAC.
- g. Energize the SDR, FALT, and FADAC in that order.
- h. Check both internal and external voltages using the VOLTAGE MONITOR. Ensure that MARGINAL TEST switch on FADAC is in OFF position when checking external voltage with VOLTAGE MONITOR.
- i. If an error occurs, place HOMING switch in the ON position. Place OPERATE switch to RESET position and then to TAPE position. FALT will then read the boards causing the error in MARKER BOARD #1 nixie display and continue until INDEX-BOARD #2 display reads 000. The 000 INDEX-BOARD #2 display indicates that all boards involved in the error have been displayed. Place HOMING switch in the OFF position. Replace indicated bad boards in FADAC and retest. This procedure is good through marker 339.
- j. If no errors occur, the tape will halt at markers 079, 264, 339, and 730.
- k. Start the tape reader.

Section III. TEST TAPE B PROGRAM PRINTOUT

Tape stops	Marker number	
	001	.....OV Boards 101, 240, 432 1SA 1TF D7 CN6 OSA OTF D7 CN6 1V
	002	.....OV Board 239 1SA 1TP LP AC OSA OTF LP AC 1V
	003	.....OV Board 238 1SA 1TF CFS CN5 OSA OTF CFS CN5
	004	.....OV Board 237 1SA 1TF CN4 CPFS OSA OTF CN4 CPFS 1V
	005	.....OV Board 235 1SA 1TF PP D6 OSA OTF PP D6 1V
	006	.....OV Board 234 1SA 1TF CP6 CP2 OSA OTF CP6 CP2 1V
	007	.....OV Board 233 1SA 1TF CL2 CR5 OSA OTF CL2 CR5 1V
	008	.....OV Board 232 1SA 1TF DB4 B1 OSA OTF DB4 B1 1V
	009	.....OV Board 231 1SA 1TF D CR7 OSA OTF D CR7 1V

010	Board 230 1SA 1V	1TF	DA5	DA4	OSA	OTF	DA5	DA4	.0V
011	Boards 101, 229 1SA 1V	1TF	C4	1D	OSA	OTF	C4	ID	.0V
012	Board 228 1SA 1V	1TF	DB6	C5	OSA	OTF	DB6	C5	.0V
013	Board 227 1SA 1V	1TF	C3	CR6	OSA	OTF	C3	CR6	.0V
014	Board 226 1SA 1V	1TF	DB5	B6	OSA	OTF	DB5	B6	.0V
015	Board 224 1SA 1V	1TF	AK	D5	OSA	OTF	AK	D5	.0V
016	Board 223 1SA 1V	1TF	D4	DP2	OSA	OTF	D4	DP2	.0V
017	Board 222 1SA 1V	1TF	D5	D2	OSA	OTF	D6	D2	.0V
018	Board 218 1SA 1V	1TF	LC	CL7	OSA	OTF	LC	CL7	.0V
019	Board 217 1SA 1V	1TF	LX	CR4	OSA	OTF	LX	CR4	.0V

Tape stops	Marker number								
	020	.....							0V
		Board 216							
		1SA	1TF	MC	DX	OSA	OTF	MC	DX
		1V							
	021	.....							0V
		Boards 101, 215							
		1SA	1TF	K	DSH	OSA	OTF	K	DSH
		1V							
	022	.....							0V
		Board 214							
		1SA	1TF	DB3	X1	OSA	OTF	DB3	X1
		1V							
	023	.....							0V
		Board 213							
		1SA	1TF	CP5	DSP	OSA	OTF	CP5	DSP
		1V							
	024	.....							0V
		Board 212							
		1SA	1TF	DC	D8	OSA	OTF	DC	D8
		1V							
	025	.....							0V
		Board 211							
		1SA	1TF	G	DA3	OSA	OTF	G	DA3
		1V							
	026	.....							0V
		Board 210							
		1SA	1TF	MN	TP	OSA	OTF	MN	TP
		1V							
	027	.....							0V
		Board 209							
		1SA	1TF	PE	OB2	OSA	OTF	PE	OB2
		1V							
	028	.....							0V
		Board 208							
		1SA	1TF	B3	IC	OSA	OTF	B3	IC
		1V							

029	.....0V
	Board 207
	1SA 1TF TX C7 OSA OTF TX C7
	1V
030	.....0V
	Board 206
	1SA 1TF XR CR3 OSA OTF XR CR3
	1V
031	.....0V
	Boards 433, 341
	1SA 1TF MP OFLO
	1V
032	.....0V
	Boards 434, 341
	OSA OTF MP OFLO
	1V
033	.....0V
	Board 340
	1SA 1TF B2 DA2 OSA OTF B2 DA2
	1V
034	.....0V
	Board 339
	1SA 1TF T0 CL4 OSA OTF T0 CL4
	1V
035	.....0V
	Board 338
	1SA 1TF CFSW CLC OSA OTF CFSW CLC
	1V
036	.....0V
	Board 337
	1SA 1TF CP7 X2 OSA OTF CP7 X2
	1V
037	.....0V
	Board 336
	1SA 1TF DA8 C2 OSA OTF DA8 C2
	1V
038	.....0V
	Board 335
	1SA 1TF CN7 04 OSA OTF CN7 04
	1V

**Tape
stops** **Marker
number**

039	.....OV
	Board 334
	1SA 1TF QX OP3 OSA OTF QX OP3
	1V
040	.....OV
	Board 333
	1SA 1TF CN2 XD OSA OTF CN2 XD
	1V
041	.....OV
	Board 332
	1SA 1TF TSO CN3 OSA OTF TSO CN3
	1V
042	.....OV
	Boards 433, 331
	1SA 1TF 05 QC
	1V
043	.....OV
	Boards 434, 331
	OSA OTF 05 QC
	1V
044	.....OV
	Board 330
	1SA 1TF CL5 C6 OSA OTF CL5 C6
	1V
045	.....OV
	Board 329
	1SA 1TF PN RX OSA OTF PN RX
	1V
046	.....OV
	Board 328
	1SA 1TF ND CR2 OSA OTF ND CR2
	1V
047	.....OV
	Board 327
	1SA 1TF NX NC OSA OTF NX NC
	1V

048	.....								OV
	Board 326								
	1SA	1TF	RC	DA7	OSA	OTF	RC	DA7	
	1V								
049	.....								OV
	Board 321								
	1SA	1TF	CP4	DA6	OSA	OTF	CP4	DA6	
	1V								
050	.....								OV
	Board 320								
	1SA	1TF	AP	D3	OSA	OTF	AP	D3	
	1V								
051	.....								OV
	Board 319								
	1SA	1TF	CP3	CP76	OSA	OTF	CP3	CP76	
	1V								
052	.....								OV
	Board 318								
	1SA	1TF	O3	OP1	OSA	OTF	O3	OP1	
	1V								
053	.....								OV
	Boards 433, 317								
	1SA	1TF	IP	CL6					
	1V								
054	.....								OV
	Boards 434, 317								
	OSA	OTF	IP	CL6					
	1V								
055	.....								OV
	Board 316								
	1SA	1TF	D1	XC	OSA	OTF	D1	XC	
	1V								
056	.....								OV
	Board 315								
	1SA	1TF	E	AX	OSA	OTF	E	AX	
	1V								
057	.....								OV
	Board 314								
	1SA	1TF	CL3	D2	OSA	OTF	CL3	D2	
	1V								

Tape stops	Marker number								
	058	.....							OV
		Board 441							
		1SA	1TF	B5	FS	OSA	OTF	B5	FS
		1V							
	059	.....							OV
		Boards 433, 440							
		1SA	1TF	B4	DA1				
		1V							
	060	.....							OV
		Boards 434, 440							
		OSA	OTF	B4	DA1				
		1V							
	061	.....							OV
		Board 439							
		1SA	1TF	.	QP	OSA	OTF	.	QP
		1V							
	062	.....							OV
		Board 438							
		1SA	1TF	A32	I32	OSA	OTF	A32	I32
		1V							
	063	.....							OV
		Board 437							
		1SA	1TF	RP	.	OSA	OTF	RP	
		1V							
	064	.....							OV
		Board 436							
		1SA	1TF	XP	NP	OSA	OTF	XP	NP
		1V							
	065	.....							OV
		Board 435							
		1SA	1TF	DP	L32	OSA	OTF	DP	L32
		1V							

NOTE
 Marker 066 will indicate error if WRITE ENABLE switch is in ON position.

066	.....OV
	Board 303
	1SA 1TF S OSA OTF S
	1V
067	.....OV
	Board 304
	1SA 1TF X0 OSA OTF X0
	1V
068	.....OV
	Board 305
	1SA 1TF D0 OSA OTF D0
	1V
069	.....OV
	Board 306
	1SA 1TF R0 OSA OTF R0
	1V
070	.....OV
	Board 307
	1SA 1TF RM OSA OTF RM
	1V
071	.....OV
	Board 308
	1SA 1TF Q0 OSA OTF Q0
	1V
072	.....OV
	Board 309
	1SA 1TF QM OSA OTF QM
	1V
073	.....OV
	Board 310
	1SA 1TF N0 OSA OTF N0
	1V
074	.....OV
	Board 311
	1SA 1TF L0 OSA OTF L0
	1V

Tape stops Marker number

075	.....OV
	Board 312
	1SA 1TF IX OSA OTF IX
	1V
076	.....OV
	Board 313
	1SA 1TF A0 OSA OTF A0
	1V
077	.....OV
	Board 101
	1SA 1TF PS OSA OTF PS
	1V
078	.....OV
	Board 302
	OSA TP 1SA 1TF MMN OSA OTF MMN
	1V
079	.....OV
	Board 301
	OSA TP 1SA 1TF MMP OSA OTF MMP
	1V

CH 079 If a failure occurs between marker 080 and marker 264, initially replace boards called out on board readout. If the board replacement does not correct the failure, refer to special error procedure which follows:

1. If an error occurs between marker 080 and marker 264 with F1 lit and F0 not lit on FALT when the 1TF command is lit, replace board associated with marker giving the error by use of board readout procedure.
2. If F1 and F0 of FALT are both lit when the 1TF command is lit for all markers between A and B, replace board in column C.

Column A	Column B	Column C
080	095	303
096	110	435
111	128	440
129	144	318
145	159	327
160	174	333
175	189	338
190	204	208
205	219	213
220	234	222
235	249	228
250	264	234

3. Start the tape reader.

080OV
 Board 307
 1SA S 1TF RM
 1V

081OV
 Board 311
 1TF L0
 1V

082OV
 Board 304
 1TF X0
 1V

083OV
 Board 305
 1TF D0
 1V

084OV
 Board 306
 1TF R0
 1V

085OV
 Board 435
 1TF DP L32
 1V

Tape
stops

Marker
number

086	.....0V Board 441 1TF B5 FS 1V
087	.....0V Board 319 1TF CP3 CP76 1V
088	.....0V Board 329 1TF PN RX 1V
089	.....0V Board 335 1TF CN7 04 1V
090	.....0V Board 341 1TF MP OFLO 1V
091	.....0V Board 211 1TF G DA3 1V
092	.....0V Board 217 1TF LX CR4 1V
093	.....0V Board 227 1TF C3 CR6 1V
094	.....0V Board 233 1TF CL2 CR5 1V

095	.....	0V
	Board 240	
	1TF D7 CN6	
	1V	
096	.....	0V
	Board 435	
	1SA L32 1TF DP	
	1V	
097	.....	0V
	Board 307	
	1TF RM	
	1V	
098	.....	0V
	Board 308	
	1TF Q0	
	1V	
099	.....	0V
	Board 309	
	1TF QM	
	1V	
100	.....	0V
	Board 310	
	1TF N0	
	1V	
101	.....	0V
	Board 441	
	1TF FS B5	
	1V	
102	.....	0V
	Board 319	
	1TF CP76 CP3	
	1V	
103	.....	0V
	Board 329	
	1TF RX PN	
	1V	
104	.....	0V
	Board 335	
	1TF 04 CN7	
	1V	

Tape stops **Marker number**

105	.....0V Board 341 1TF OFLO MP 1V
106	.....0V Board 211 1TF DA3 G 1V
107	.....0V Board 217 1TF CR4 LX 1V
108	.....0V Board 227 1TF CR6 C3 1V
109	.....0V Board 233 1TF CR5 CL2 1V
110	.....0V Board 240 1TF CN6 D7 1V
111	.....0V Board 440 1SA B4 1TF DA1 1V
112	.....0V Board 441 1TF B5 FS 1V
113	.....0V Board 439 1TF . QP 1V

114	.....				.0V
	Board 438				
	1TF	A32	I32		
	1V				
115	.....				.0V
	Board 437				
	1TF	RP			
	1V				
116	.....				.0V
	Board 436				
	1TF	XP	NP		
	1V				
117	.....				.0V
	Board 311				
	1TF	LO			
	1V				
118	.....				.0V
	Board 312				
	1TF	IX			
	1V				
119	.....				.0V
	Board 313				
	1TF	A0			
	1V				
120	.....				.0V
	Board 318				
	1TF	03	0P1		
	1V				
121	.....				.0V
	Board 328				
	1TF	ND	CR2		
	1V				
122	.....				.0V
	Board 334				
	1TF	QX	0P3		
	1V				
123	.....				.0V
	Board 340				
	1TF	B2	DA2		
	1V				

Tape stops	Marker number	
	124	.....OV Board 210 1TF MN TP 1V
	125	.....OV Board 216 1TF MC DX 1V
	126	.....OV Board 226 1TF OB5 B6 1V
	127	.....OV Board 232 1TF OB4 B1 1V
	128	.....OV Board 239 1TF LP AC 1V
	129	.....OV Board 318 1SA OP1 1TF 03 1V
	130	.....OV Board 319 1TF CP3 CP76 1V
	131	.....OV Board 317 1TF IP CL6 1V
	132	.....OV Board 316 1TF D1 XC 1V

133	.....				.0V
	Board 315				
	1TF	E		AX	
	1V				
134	.....				.0V
	Board 314				
	1TF	CL3		D2	
	1V				
135	.....				.0V
	Board 440				
	1TF	DA1		B4	
	1V				
136	.....				.0V
	Board 101				
	1TF	PS			
	1V				
137	.....				.0V
	Board 328				
	1TF	CR2		ND	
	1V				
138	.....				.0V
	Board 334				
	1TF	OP3		QX	
	1V				
139	.....				.0V
	Board 340				
	1TF	DA2		B2	
	1V				
140	.....				.0V
	Board 210				
	1TF	TP		MN	
	1V				
141	.....				.0V
	Board 216				
	1TF	DX		MC	
	1V				

Tape
stops

Marker
number

142	.....0V
	Board 226
	1TF B6 OB5
	1V
143	.....0V
	Board 232
	1TF B1 OB4
	1V
144	.....0V
	Board 239
	1TF AC Lp
	1V
145	.....0V
	Board 327
	1SA NX 1TF NC
	1V
146	.....0V
	Board 329
	1TF PN RX
	1V
147	.....0V
	Board 328
	1TF ND CR2
	1V
148	.....0V
	Board 326
	1TF RC DA7
	1V
149	.....0V
	Board 321
	1TF CP4 DA6
	1V
150	.....0V
	Board 320
	1TF AP D3
	1V

151	.....				.0V
	Board 439				
	1TF		QP		
	1V				
152	.....				.0V
	Board 317				
	1TF	IP	CL6		
	1V				
153	.....				.0V
	Board 333				
	1TF	CN2	XD		
	1V				
154	.....				.0V
	Board 339				
	1TF	T0	CL4		
	1V				
155	.....				.0V
	Board 209				
	1TF	PE	0B2		
	1V				
156	.....				.0V
	Board 215				
	1TF	K	DSH		
	1V				
157	.....				.0V
	Board 224				
	1TF	AK	D5		
	1V				
158	.....				.0V
	Board 231				
	1TF	D	CR7		
	1V				
159	.....				.0V
	Board 238				
	1TF	CFS	CN5		
	1V				
160	.....				.0V
	Board 333				
	1SA	XD	1TF	CN2	
	1V				

Tape
stops

Marker
number

161	.....OV
	Board 335
	1TF CN7 04
	1V
162	.....OV
	Board 334
	1TF QX OP3
	1V
163	.....OV
	Board 332
	1TF TS0 CN3
	1V
164	.....OV
	Board 331
	1TF 05 QC
	1V
165	.....OV
	Board 330
	1TF CL5 C6
	1V
166	.....OV
	Board 439
	1TF QP
	1V
167	.....OV
	Board 317
	1TF CL6 IP
	1V
168	.....OV
	Board 327
	1TF NC NX
	1V
169	.....OV
	Board 339
	1TF CL4 TO
	1V

170	.....	Board 209	.....	0V
		1TF	OB2 PE	
		1V		
171	.....	Board 215	.....	0V
		1TF	DSH K	
		1V		
172	.....	Board 224	.....	0V
		1TF	D5 AK	
		1V		
173	.....	Board 231	.....	0V
		1TF	CR7 D	
		1V		
174	.....	Board 238	.....	0V
		1TF	CN5 CFS	
		1V		
175	.....	Board 338	.....	0V
		1SA	CFSW 1TF CLC	
		1V		
176	.....	Board 341	.....	0V
		1TF	MP OFLO	
		1V		
177	.....	Board 340	.....	0V
		1TF	B2 DA2	
		1V		
178	.....	Board 339	.....	0V
		1TF	T0 CL4	
		1V		
179	.....	Board 337	.....	0V
		1TF	CP7 X2	
		1V		

Tape
stops

Marker
number

180	.....OV
	Board 336
	1TF DA8 C2
	1V
181	.....OV
	Board 438
	1TF A32 I32
	1V
182	.....OV
	Board 316
	1TF D1 XC
	1V
183	.....OV
	Board 326
	1TF RC DA7
	1V
184	.....OV
	Board 332
	1TF TS0 CN3
	1V
185	.....OV
	Board 208
	1TF B3 IC
	1V
186	.....OV
	Board 214
	1TF 0B3 X1
	1V
187	.....OV
	Board 223
	1TF D4 OP2
	1V
188	.....OV
	Board 230
	1TF DA5 DA4
	1V

189	.....OV
	Board 237
	1TF CN4 CPFS
	1V
190	.....OV
	Board 208
	1SA IC B3
	1V
191	.....OV
	Board 211
	1TF G DA3
	1V
192	.....OV
	Board 210
	1TF MN TP
	1V
193	.....OV
	Board 209
	1TF PE OB2
	1V
194	.....OV
	Board 207
	1TF TX C7
	1V
195	.....OV
	Board 206
	1TF XR CR3
	1V
196	.....OV
	Board 438
	1TF I32 A32
	1V
197	.....OV
	Board 316
	1TF XC D1
	1V
198	.....OV
	Board 326
	1TF DA7 RC
	1V

Tape
stops Marker
 number

199	.....0V Board 332 1TF CN3 TSO 1V
200	.....0V Board 338 1TF CLC CFSW 1V
201	.....0V Board 214 1TF X1 OB3 1V
202	.....0V Board 223 1TF OP2 D4 1V
203	.....0V Board 230 1TF DA4 DA5 1V
204	.....0V Board 237 1TF CPFS CN4 1V
205	.....0V Board 213 1SA CP5 1TF DSP 1V
206	.....0V Board 217 1TF LX CR4 1V
207	.....0V Board 216 1TF MC DX 1V

208	.....				.0V
	Board 215				
	1TF	K		DSH	
	1V				
209	.....				.0V
	Board 214				
	1TF	OB3		X1	
	1V				
210	.....				.0V
	Board 212				
	1TF	DC		D8	
	1V				
211	.....				.0V
	Board 437				
	1TF	RP			
	1V				
212	.....				.0V
	Board 315				
	1TF	E		AX	
	1V				
213	.....				.0V
	Board 321				
	1TF	CP4		DA6	
	1V				
214	.....				.0V
	Board 331				
	1TF	05		QC	
	1V				
215	.....				.0V
	Board 337				
	1TF	CP7		X2	
	1V				
216	.....				.0V
	Board 207				
	1TF	TX		C7	
	1V				
217	.....				.0V
	Board 222				
	1TF	06		02	
	1V				

Tape
stops

Marker
number

218	.....0V
	Board 229
	1TF C4 ID
	1V
219	.....0V
	Board 235
	1TF PP D6
	1V
220	.....0V
	Board 222
	1SA 02 1TF 06
	1V
221	.....0V
	Board 227
	1TF C3 CR6
	1V
222	.....0V
	Board 226
	1TF OB5 B6
	1V
223	.....0V
	Board 224
	1TF AK D5
	1V
224	.....0V
	Board 223
	1TF D4 OP2
	1V
225	.....0V
	Board 218
	1TF LC CL7
	1V
226	.....0V
	Board 437
	1TF . RP
	1V

227	.....0V
	Board 315
	1TF AX E
	1V
228	.....0V
	Board 321
	1TF DA6 CP4
	1V
229	.....0V
	Board 331
	1TF QC O5
	1V
230	.....0V
	Board 337
	1TF X2 CP7
	1V
231	.....0V
	Board 207
	1TF C7 TX
	1V
232	.....0V
	Board 213
	1TF DSP CP5
	1V
233	.....0V
	Board 229
	1TF ID C4
	1V
234	.....0V
	Board 235
	1TF D6 PP
	1V
235	.....0V
	Board 228
	1SA OB6 C5
	1V
236	.....0V
	Board 233
	1TF CL2 CR5
	1V

Tape stops	Marker number				
	237	.....			.0V
		Board 232			
		1TF	OB4	B1	
		1V			
	238	.....			.0V
		Board 231			
		1TF	D	CR7	
		1V			
	239	.....			.0V
		Board 230			
		1TF	DA5	DA4	
		1V			
	240	.....			.0V
		Board 229			
		1TF	C4	ID	
		1V			
	241	.....			.0V
		Board 436			
		1TF	XP	NP	
		1V			
	242	.....			.0V
		Board 314			
		1TF	CL3	D2	
		1V			
	243	.....			.0V
		Board 320			
		1TF	AP	D3	
		1V			
	244	.....			.0V
		Board 330			
		1TF	CL5	C6	
		1V			
	245	.....			.0V
		Board 336			
		1TF	DA8	C2	
		1V			

246	.....	Board 206				.0V
		1TF	XR	CR3		
		1V				
247	.....	Board 212				.0V
		1TF	DC	D8		
		1V				
248	.....	Board 218				.0V
		1TF	LC	CL7		
		1V				
249	.....	Board 234				.0V
		1TF	CP6	CP2		
		1V				
250	.....	Board 234				.0V
		1SA	CP2	1TF	CP6	
		1V				
251	.....	Board 240				.0V
		1TF	D7	CN6		
		1V				
252	.....	Board 239				.0V
		1TF	LP	AC		
		1V				
253	.....	Board 238				.0V
		1TF	CFS	CN5		
		1V				
254	.....	Board 237				.0V
		1TF	CN4	CPFS		
		1V				
255	.....	Board 235				.0V
		1TF	PP	D6		
		1V				

Tape
stops Marker
 number

256	.....	Board 436	.....	.0V
		1TF NP XP		
		1V		
257	.....	Board 314	.....	.0V
		1TF D2 CL3		
		1V		
258	.....	Board 320	.....	.0V
		1TF D3 AP		
		1V		
259	.....	Board 330	.....	.0V
		1TF C6 CL5		
		1V		
260	.....	Board 336	.....	.0V
		1TF C2 DA8		
		1V		
261	.....	Board 206	.....	.0V
		1TF CR3 XR		
		1V		
262	.....	Board 212	.....	.0V
		1TF D8 DC		
		1V		
263	.....	Board 218	.....	.0V
		1TF CL7 LC		
		1V		

264	.....OV
	Board 228
	1TF C5 0B6
	1V
CH 264	From marker 265 to marker 339 replace board called out on board readout. Special error procedure given at marker 079 for errors between markers 080 and 264 does not apply.
	Start tape reader.
265	.....OV
	Board 240
	1SA D7 1TF CN6 1SA CN6 1TF D7
	OSA D7 OTF CN6 OSA CN6 OTF D7
	1V
266	.....OV
	Board 239
	1SA LP 1TF AC 1SA AC 1TF LP
	OSA LP OTF AC OSA AC OTF LP
	1V
267	.....OV
	Board 238
	1SA CFS 1TF CN5 1SA CN5 1TF CFS
	OSA CFS OTF CN5 OSA CN5 OTF CFS
	1V
268	.....OV
	Board 237
	1SA CN4 1TF CPFS 1SA CPFS 1TF CN4
	OSA CN4 OTF CPFS OSA CPFS OTF CN4
	1V
269	.....OV
	Board 235
	1SA PP 1TF D6 1SA D6 1TF PP
	OSA PP OTF D6 OSA D6 OTF PP
	1V
270	.....OV
	Board 234
	1SA CP6 1TF CP2 1SA CP2 1TF CP6
	OSA CP6 OTF CP2 OSA CP2 OTF CP6
	1V

Tape stops	Marker number								
	271	.....OV							
		Board 233							
		1SA	CL2	1TF	CR5	1SA	CR5	1TF	CL2
		OSA	CL2	OTF	CR5	OSA	CR5	OTF	CL2
		1V							
	272	.....OV							
		Board 232							
		1SA	OB4	1TF	B1	1SA	B1	1TF	OB4
		OSA	OB4	OTF	B1	OSA	B1	OTF	OB4
		1V							
	273	.....OV							
		Board 231							
		1SA	D	1TF	CR7	1SA	CR7	1TF	D
		OSA	D	OTF	CR7	OSA	CR7	OTF	D
		1V							
	274	.....OV							
		Board 230							
		1SA	DA5	1TF	DA4	1SA	DA4	1TF	DA5
		OSA	DA5	OTF	DA4	OSA	DA4	OTF	DA5
		1V							
	275	.....OV							
		Board 229							
		1SA	C4	1TF	ID	1SA	ID	1TF	C4
		OSA	C4	OTF	ID	OSA	ID	OTF	C4
		1V							
	276	.....OV							
		Board 228							
		1SA	OB6	1TF	C5	1SA	C5	1TF	OB6
		OSA	OB6	OTF	C5	OSA	C5	OTF	OB6
		1V							
	277	.....OV							
		Board 227							
		1SA	C3	1TF	CR6	1SA	CR6	1TF	C3
		OSA	C3	OTF	CR6	OSA	CR6	OTF	C3
		1V							

278	.....OV							
	Board 226							
	1SA	OB5	1TF	B6	1SA	B6	1TF	OB5
	OSA	OB5	OTF	B6	OSA	B6	OTF	OB5
	1V							
279	.....OV							
	Board 224							
	1SA	AK	1TF	D5	1SA	D5	1TF	AK
	OSA	AK	OTF	D5	OSA	D5	OTF	AK
	1V							
280	.....OV							
	Board 223							
	1SA	D4	1TF	OP2	1SA	OP2	1TF	D4
	OSA	D4	OTF	OP2	OSA	OP2	OTF	D4
	1V							
281	.....OV							
	Board 222							
	1SA	06	1TF	02	1SA	02	1TF	06
	OSA	06	OTF	02	OSA	02	OTF	06
	1V							
282	.....OV							
	Board 218							
	1SA	LC	1TF	CL7	1SA	CL7	1TF	LC
	OSA	LC	OTF	CL7	OSA	CL7	OTF	LC
	1V							
283	.....OV							
	Board 217							
	1SA	LX	1TF	CR4	1SA	CR4	1TF	LX
	OSA	LX	OTF	CR4	OSA	CR4	OTF	LX
	1V							
284	.....OV							
	Board 216							
	1SA	MC	1TF	DX	1SA	DX	1TF	MC
	OSA	MC	OTF	DX	OSA	DX	OTF	MC
	1V							
285	.....OV							
	Board 215							
	1SA	K	1TF	DSH	1SA	DSH	1TF	K
	OSA	K	OTF	DSH	OSA	DSH	OTF	K
	1V							

Tape stops	Marker number							
286	OV
		Board 214						
		1SA	OB3	1TF	X1	1SA	X1	1TF
		OSA	OB3	OTF	X1	OSA	X1	OTF
		1V						OB3
287	OV
		Board 213						
		1SA	CP5	1TF	DSP	1SA	DSP	1TF
		OSA	CP5	OTF	DSP	OSA	DSP	OTF
		1V						CP5
288	OV
		Board 212						
		1SA	DC	1TF	D8	1SA	D8	1TF
		OSA	DC	OTF	D8	OSA	D8	OTF
		1V						DC
289	OV
		Board 211						
		1SA	G	1TF	DA3	1SA	DA3	1TF
		OSA	G	OTF	DA3	OSA	DA3	OTF
		1V						G
290	OV
		Board 210						
		1SA	MN	1TF	TP	1SA	TP	1TF
		OSA	MN	OTF	TP	OSA	TP	OTF
		1V						MN
291	OV
		Board 209						
		1SA	PE	1TF	OB2	1SA	OB2	1TF
		OSA	PE	OTF	OB2	OSA	OB2	OTF
		1V						PE
292	OV
		Board 208						
		1SA	B3	1TF	IC	1SA	IC	1TF
		OSA	B3	OTF	IC	OSA	IC	OTF
		1V						B3

293	.....OV							
	Board 207							
	1SA	TX	1TF	C7	1SA	C7	1TF	TX
	OSA	TX	OTF	C7	OSA	C7	OTF	TX
	1V							
294	.....OV							
	Board 206							
	1SA	XR	1TF	CR3	1SA	CR3	1TF	XR
	OSA	XR	OTF	CR3	OSA	CR3	OTF	XR
	1V							
295	.....OV							
	Board 341							
	1SA	MP	1TF	OFLO	1SA	OFLO	1TF	MP
	OSA	MP	OTF	OFLO	OSA	OFLO	OTF	MP
	1V							
296	.....OV							
	Board 340							
	1SA	B2	1TF	DA2	1SA	DA2	1TF	B2
	OSA	B2	OTF	DA2	OSA	DA2	OTF	B2
	1V							
297	.....OV							
	Board 339							
	1SA	TO	1TF	CL4	1SA	CL4	1TF	TO
	OSA	TO	OTF	CL4	OSA	CL4	OTF	TO
	1V							
298	.....OV							
	Board 338							
	1SA	CFSW	1TF	CLC	1SA	CLC	1TF	CFSW
	OSA	CFSW	OTF	CLC	OSA	CLC	OTF	CFSW
	1V							
299	.....OV							
	Board 337							
	1SA	CP7	1TF	X2	1SA	X2	1TF	CP7
	OSA	CP7	OTF	X2	OSA	X2	OTF	CP7
	1V							
300	.....OV							
	Board 336							
	1SA	DA8	1TF	C2	1SA	C2	1TF	DA8
	OSA	DA8	OTF	C2	OSA	C2	OTF	DA8
	1V							

**Tape
stops** **Marker
number**

301	.....OV							
	Board 329							
	1SA	PN	1TF	RX	1SA	RX	1TF	PN
	OSA	PN	OTF	RX	OSA	RX	OTF	PN
	1V							
302	.....OV							
	Board 328							
	1SA	ND	1TF	CR2	1SA	CR2	1TF	ND
	OSA	ND	OTF	CR2	OSA	CR2	OTF	ND
	1V							
303	.....OV							
	Board 327							
	1SA	NX	1TF	NC	1SA	NC	1TF	NX
	OSA	NX	OTF	NC	OSA	NC	OTF	NX
	1V							
304	.....OV							
	Board 326							
	1SA	RC	1TF	DA7	1SA	DA7	1TF	RC
	OSA	RC	OTF	DA7	OSA	DA7	OTF	RC
	1V							
305	.....OV							
	Board 321							
	1SA	CP4	1TF	DA6	1SA	DA6	1TF	CP4
	OSA	CP4	OTF	DA6	OSA	DA6	OTF	CP4
	1V							
306	.....OV							
	Board 320							
	1SA	AP	1TF	D3	1SA	D3	1TF	AP
	OSA	AP	OTF	D3	OSA	D3	OTF	AP
	1V							
307	.....OV							
	Board 335							
	1SA	CN7	1TF	04	1SA	04	1TF	CN7
	OSA	CN7	OTF	04	OSA	04	OTF	CN7
	1V							

308	.....0V							
	Board 334							
	1SA	QX	1TF	OP3	1SA	OP3	1TF	QX
	OSA	QX	OTF	OP3	OSA	OP3	OTF	QX
	1V							
309	.....0V							
	Board 333							
	1SA	CN2	1TF	XD	1SA	XD	1TF	CN2
	OSA	CN2	OTF	XD	OSA	XD	OTF	CN2
	1V							
310	.....0V							
	Board 332							
	1SA	TSO	1TF	CN3	1SA	CN3	1TF	TSO
	OSA	TSO	OTF	CN3	OSA	CN3	OTF	TSO
	1V							
311	.....0V							
	Board 331							
	1SA	05	1TF	QC	1SA	QC	1TF	05
	OSA	05	OTF	QC	OSA	QC	OTF	05
	1V							
312	.....0V							
	Board 330							
	1SA	CL5	1TF	C6	1SA	C6	1TF	CL5
	OSA	CL5	OTF	C6	OSA	C6	OTF	CL5
	1V							
313	.....0V							
	Board 319							
	1SA	CP3	1TF	CP76	1SA	CP76	1TF	CP3
	OSA	CP3	OTF	CP76	OSA	CP76	OTF	CP3
	1V							
314	.....0V							
	Board 318							
	1SA	03	1TF	OP1	1SA	OP1	1TF	03
	OSA	03	OTF	OP1	OSA	OP1	OTF	03
	1V							
315	.....0V							
	Board 317							
	1SA	IP	1TF	CL6	1SA	CL6	1TF	IP
	OSA	IP	OTF	CL6	OSA	CL6	OTF	IP
	1V							

**Tape
stops** **Marker
number**

316	.....OV							
	Board 316							
	1SA	D1	1TF	XC	1SA	XC	1TF	D1
	OSA	D1	OTF	XC	OSA	XC	OTF	D1
	1V							
317	.....OV							
	Board 315							
	1SA	E	1TF	AX	1SA	AX	1TF	E
	OSA	E	OTF	AX	OSA	AX	OTF	E
	1V							
318	.....OV							
	Board 314							
	1SA	CL3	1TF	D2	1SA	D2	1TF	CL3
	OSA	CL3	OTF	D2	OSA	D2	OTF	CL3
	1V							
319	.....OV							
	Board 441							
	1SA	B5	1TF	FS	1SA	FS	1TF	B5
	OSA	B5	OTF	FS	OSA	FS	OTF	B5
	1V							
320	.....OV							
	Board 440							
	1SA	B4	1TF	DA1	1SA	DA1	1TF	B4
	OSA	B4	OTF	DA1	OSA	DA1	OTF	B4
	1V							
321	.....OV							
	Board 439							
	1SA	.	1TF	QP	1SA	QP		
	OSA	.	OTF	QP	OSA	QP		
	1V							
322	.....OV							
	Board 438							
	1SA	A32	1TF	I32	1SA	I32	1TF	A32
	OSA	A32	OTF	I32	OSA	I32	OTF	A32
	1V							
323	.....OV							
	Board 437							
	1SA	RP	.	.	1SA	.	1TF	RP
	OSA	RP	.	.	OSA	.	OTF	RP
	1V							

324	.....									.0V
	Board 436									
	1SA	XP	1TF	NP	1SA	NP	1TF	XP		
	OSA	XP	OTF	NP	OSA	NP	OTF	XP		
	1V									
325	.....									.0V
	Board 435									
	1SA	DP	1TF	L32	1SA	L32	1TF	DP		
	OSA	DP	OTF	L32	OSA	L32	OTF	DP		
	1V									
326	.....									.0V
	Board 301									
	OSA	MMP	1SA	MMP						
	1V									
327	.....									.0V
	Board 302									
	OSA	MMN	1SA	MMN						
	1V									
328	.....									.0V
	Board 303									
	OSA	S	1SA	S						
	1V									
329	.....									.0V
	Board 304									
	OSA	XO	1SA	XO						
	1V									
330	.....									.0V
	Board 305									
	OSA	DO	1SA	DO						
	1V									
331	.....									.0V
	Board 306									
	OSA	RO	1SA	RO						
	1V									
332	.....									.0V
	Board 307									
	OSA	RM	1SA	RM						
	1V									
333	.....									.0V
	Board 308									
	OSA	QO	1SA	QO						
	1V									

Tape stops Marker number

334	.....OV
	Board 309
	OSA QM 1SA QM
	1V
335	.....OV
	Board 310
	OSA NO 1SA NO
	1V
336	.....OV
	Board 311
	OSA LO 1SA LO
	1V
337	.....OV
	Board 312
	OSA IX 1SA IX
	1V
338	.....OV
	Board 313
	OSA A0 1SA A0
	1V
339	.....OV
	Board 101
	OSA PS 1SA PS
	1V

CH 339 Do not use the error procedure given in part 1 of this tape for the remaining FADAC test tapes C, D, E.

Error procedure: Under each marker number is a list of the FADAC boards and/or associated equipment causing the error. Replace the boards and/or equipment listed and recheck the FADAC computer by rerunning this tape.

A special error procedure for markers 340 thru 347 is provided in section IV.

Start the tape reader.

340	1V	1E18								
	1SA	TX	AK	AX	B5	B3	B1	CFSW	CL6	CL4
	CL2	CP6	CP4	CP2	CN7	CN5	CN3	CR7	CR5	CR3
	C7	C5	C3	DC	DSH	D8	D6	DA8	DA6	DA4
	DA2	D4	D2	D	FS	IC	IP	LC	LX	MN
	NC	CN2	OB6	OB4	OB2	OP3	OP1	O5	O3	PE
	PP	QX	RX	TP	XD	X2	CLC	DP	L32	QP
	XP	DO	LO	RO	QO	S	MMN	1TF	TO	AC
	AP	B6	B4	B2	CFS	CL7	CL5	CL3	CP7	CP5
	CP3	CP76	CN6	CN4	CPFS	CR6	CR4	CR2	C6	C4

341	C2	DX	DSP	D7	D5	DA7	DA5	DA3	DA1	D3
	D1	E	G	ID	K	LP	MC	MP	ND	NX
	OB5	OB3	OFLO	OP2	06	04	02	PN	QC	RC
	TSO	XC	XR	X1	A32	I32	NP	RP	AO	IX
	NO	RM	QM	X0	MMP	.	.	.	.	.

	OSA	TP	.	.	.	.	.	.	1SA	TX
	AC	AX	B6	B3	B2	CFSW	CL7	CL4	CL3	CP6
	CP5	CP2	CP76	CN5	CN4	CR7	CR6	CR3	CR2	C5
	C4	DC	DX	D8	D7	DA8	DA7	DA4	DA3	D4
	D3	D	E	IC	ID	LC	LP	MN	MP	CN2
	NX	OB4	OB3	OP3	OP2	05	04	PE	PN	QX
	RC	TP	XC	X2	X1	DP	I32	QP	RP	D0
	IX	RO	RM	S	X0	1TF	TO	AK	AP	B5
	B4	B1	CFS	CL6	CL5	CL2	CP7	CP4	CP3	CN7
	CN6	CN3	CPFS	CR5	CR4	C7	C6	C3	C2	DSH
	DSP	D6	D5	DA6	DA5	DA2	DA1	D2	D1	FS
	G	IP	K	LX	MC	NC	ND	OB6	OB5	OB2
342	OFLO	OP1	06	03	02	PP	QC	RX	TSO	XD
	XR	CLC	A32	L32	NP	XP	AO	LO	NO	QO
	QM	MMN	MMP	.	.	.	1SA	TX	AC	AK
	AP	B3	B2	B1	CFS	CL4	CL3	CL2	CP7	CP2
	CP76	CN7	CN6	CR7	CR6	CR5	CR4	C5	C4	C3
	C2	D8	D7	D6	D5	DA4	DA3	DA2	DA1	D
	E	FS	G	LC	LP	LX	MC	CN2	NX	OB6
	OB5	OP3	OP2	OP1	06	PE	PN	PP	QC	TP
	XC	XD	XR	DP	I32	L32	NP	DO	IX	LO
	NO	S	X0	MMN	MMP	1TF	TO	AX	B6	B5
	B4	CFSW	CL7	CL6	CL5	CP6	CP5	CP4	CP3	CN5
	CN4	CN3	CPFS	CR3	CR2	C7	C6	DC	DX	DSH
	DSP	DA8	DA7	DA6	DA5	D4	D3	D2	D1	IC
	ID	IP	K	MN	MP	NC	ND	OB4	OB3	OB2
	OFLO	05	04	03	02	QX	RC	RX	TSO	X2
	X1	CLC	A32	QP	RP	XP	AO	RO	RM	QO
343	QM	.	.	.	1SA	TX	AC	AK	AP	AX
	B6	B5	B4	CL4	CL3	CL2	CP7	CP6	CP5	CP4
	CP3	CR7	CR6	CR5	CR4	CR3	CR2	C7	C6	D8
	D7	D6	D5	DA8	DA7	DA6	DA5	D	E	FS
	G	IC	ID	IP	K	CN2	NX	OB6	OB5	OB4
	OB3	OB2	OFLO	PE	PN	PP	QC	QX	RC	RX
	TSO	DP	I32	L32	NP	QP	RP	XP	AO	S
	X0	MMN	MMP	1TF	TO	B3	B2	B1	CFS	CFSW
	CL7	CL6	CL5	CP2	CP76	CN7	CN6	CN5	CN4	CN3
	CPFS	C5	C4	C3	C2	DC	DX	DSH	DSP	DA4
	DA3	DA2	DA1	D4	D3	D2	D1	LC	LP	LX
	MC	MN	MP	NC	ND	OP3	OP2	OP1	06	05
	04	03	02	TP	XC	XD	XR	X2	X1	CLC
	A32	D0	IX	LO	NO	RO	RM	QO	QM	.
	.	.	1SA	TX	AC	AK	AP	AX	B6	B5
	B4	B3	B2	B1	CFS	CFSW	CL7	CL6	CL5	CR7

Tape stops	Marker number										
	344	CR6	CR5	CR4	CR3	CR2	C7	C6	C5	C4	C3
		C2	DC	DX	DSH	DSP	D	E	FS	G	IC
		ID	IP	K	LC	LP	LX	MC	MN	MP	NC
		ND	PE	PN	PP	QC	QX	RC	RX	TSO	TP
		XC	XD	XR	X2	X1	CLC	A32	S	XO	MMN
		MMP	1TF	TO	CL4	CL3	CL2	CP7	CP6	CP5	CP4
		CP3	CP2	CP76	CN7	CN6	CN5	CN4	CN3	CPFS	D8
		D7	D6	D5	DA8	DA7	DA6	DA5	DA4	DA3	DA2
		DA1	D4	D3	D2	D1	CN2	NX	OB6	OB5	OB4
		OB3	OB2	OFLO	OP3	OP2	OP1	O6	O5	O4	O3
		O2	DP	I32	L32	NP	QP	RP	XP	AO	DO
		IX	LO	NO	RO	RM	QO	QM	.	.	.
		1SA	TX	AC	AK	AP	AX	B6	B5	B4	B3
		B2	B1	CFS	CFSW	CL7	CL6	CL5	CL4	CL3	CL2
		CP7	CP6	CP5	CP4	CP3	CP2	CP76	CN7	CN6	CN5
		CN4	CN3	CPFS	D	E	FS	G	IC	ID	IP
	345	K	LC	LP	LX	MC	MN	MP	NC	ND	CN2
		NX	OB6	OB5	OB4	OB3	OB2	OFLO	OP3	OP2	OP1
		O6	O5	O4	O3	O2	S	XO	MMN	MMP	1TF
		TO	CR7	CR6	CR5	CR4	CR3	CR2	C7	C6	C5
		C4	C3	C2	DC	CX	DSH	DSP	D8	D7	D6
		D5	DA8	DA7	DA6	DA5	DA4	DA3	DA2	DA1	D4
		D3	D2	D1	PE	PN	PP	QC	QX	RC	RX
		TSO	TP	XC	XD	XR	X2	X1	CLC	A32	DP
		I32	L32	NP	QP	RP	XP	AO	DO	IX	LO
		NO	RM	RO	QO	QM	.	.	.	1SA	TX
		AC	AK	AP	AX	B6	B5	B4	B3	B2	B1
		CFS	CFSW	CL7	CL6	CL5	CL4	CL3	CL2	CP7	CP6
		CP5	CP4	CP3	CP2	CP76	CN7	CN6	CN5	CN4	CN3
		CPFS	CR7	CR6	CR5	CR4	CR3	CR2	C7	C6	C5
		C4	C3	C2	DC	DX	DSH	DSP	D8	D7	D6
		D5	DA8	DA7	DA6	DA5	DA4	DA3	DA2	DA1	D4
	346	D3	D2	D1	S	XO	MMN	MMP	1TF	TO	D
		E	FS	G	IC	ID	IP	K	LC	LP	LX
		MC	MN	MP	NC	ND	CN2	NX	OB6	OB5	OB4
		OB3	OB2	OFLO	OP3	OP2	OP1	O6	O5	O4	O3
		O2	PE	PN	PP	QC	QX	RC	RX	TSO	TP
		XC	XD	XR	X2	X1	CLC	A32	DP	I32	L32
		NP	QP	RP	XP	AO	DO	IX	LO	NO	RO
		RM	QO	QM	.	.	.	1SA	TO	AC	AP
		B6	B4	B2	CFS	CL7	CL5	CL3	CP7	CP5	CP3
		CP76	CN6	CN4	CPFS	CR6	CR4	CR2	C6	C4	C2
		DX	DSP	D7	D5	DA7	DA5	DA3	DA1	D3	D1

	E	G	ID	K	LP	MC	MP	ND	NX	OB5
	OB3	OFLO	OP2	06	04	02	PN	QC	RC	TSO
	XC	XR	X1	A32	I32	NP	RP	AO	IX	NO
	RM	QM	X0	MMP	1TF	TX	AK	AX	B5	B3
	B1	CFSW	CL6	CL4	CL2	CP6	CP4	CP2	CN7	CN5
347	CN3	CR7	CR5	CR3	C7	C5	C3	DC	DSH	D8
	D6	DA8	DA6	DA4	DA2	D4	D2	D	FS	IC
	IP	LC	LX	MN	NC	CN2	OB6	OB4	OB2	OP3
	OP1	05	03	PE	PP	QX	RX	TP	XD	X2
	CLC	DP	L32	QP	XP	DO	LO	RO	QO	S
	MMN	.	.	.	.	.	.	.	.	.

NOTE

Some of the logic driver circuits in FADAC are connected so that FALT can test them by means of the AP line. This tape tests the logic feeding those addressable logic drivers.

348	Logic for KD1 is on boards 236, 237.									
	OSA	D	1TA	KD1	.	01	.	.	.	.
	1SA	K	1TA	KD1	.	01	.	.	.	.
	1SA	OTA	KD1	.	01	K-	.	.	.	.
	1SA	D	K	OTA	KD1	.	01	D	.	.
349	Logic for KED2 is on boards 218, 219.									
	OSA	E	1TA	KED2	.	01	.	.	.	.
	1SA	D	K	1TA	KED2	.	01	.	.	.
	1SA	D	OTA	KED2	.	01	K-	.	.	.
	1SA	D	E	K	OTA	KED2	.	01	E	.
	1SA	K	OTA	KED2	.	01	D-	.	.	.
350	Logic for KIOA is on boards 217, 219.									
	OSA	AK	OB4	1TA	KIOA	.	01	.	.	.
	1SA	D	E	K	1TA	KIOA	.	01	.	.
	1SA	D	E	OTA	KIOA	.	01	K-	.	.
	1SA	D	K	OTA	KIOA	.	01	E-	.	.
	1SA	E	K	OTA	KIOA	.	01	D-	.	.
	1SA	AK	D	E	K	OTA	KIOA	.	01	AK
	1SA	D	E	K	OB4	OTA	KIOA	.	01	OB4
351	Logic for KTP is on boards 218, 219.									
	OSA	K	TP	1TP	KTP	.	01	.	.	.
	1SA	1TA	KTP	.	01
	1SA	K	OTA	KTP	.	01	K	.	.	.
	1SA	TP	OTA	KTP	.	01	TP	.	.	.

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352	Logic for OCT is on boards 236, 237, 238, 233.										
	OSA	TX	AK	OB4	OB2	05	1TA	OCT	.	01	.
	1SA	B2	D	E	K	OB3	1TA	OCT	.	01	.
	1SA	B2	D	E	OB3	OTA	OCT	.	01	K-	.
	1SA	B2	D	K	OB3	OTA	OCT	.	01	E-	.
	1SA	B2	E	K	OB3	OTA	OCT	.	01	D-	.
	1SA	AK	B2	D	E	K	OB3	OTA		OCT	01
	AK	.	.	.	.	.	.	.	.	.	.
	1SA	B2	D	E	K	OB4	OB3	OTA		OCT	01
	OB4	.	.	.	.	.	.	.	.	.	.
	1SA	B2	D	E	K	OTA	OCT	.	01	OB3-	.
	1SA	B2	D	E	K	OB3	OB2	OTA		OCT	01
	OB2	.	.	.	.	.	.	.	.	.	.
	1SA	B2	D	E	K	OB3	05	OTA		OCT	01
	05	.	.	.	.	.	.	.	.	.	.
	1SA	TX	B2	D	E	K	OB3	OTA		OCT	01
	TX	.	.	.	.	.	.	.	.	.	.
	1SA	D	E	K	OB3	OTA	OCT	.	01	B2-	.
353	Logic for OM is on boards 325, 336.										
	OSA	E	K	05	1TA	OM	.	01	.	.	.
	1SA	06	04	03	1TA	OM	.	01	.	.	.
	1SA	K	06	04	03	OTA	OM	.	01	K	.
	1SA	E	06	04	03	OTA	OM	.	01	E	.
	1SA	04	03	OTA	OM	.	01	06-	.	.	.
	1SA	06	05	04	03	OTA	OM	.	01	05	.
	1SA	06	03	OTA	OM	.	01	04-	.	.	.
	1SA	06	04	OTA	OM	.	01	03-	.	.	.
354	Logic for OX is on boards 207, 208, 219.										
	OSA	E	K	05	04	03	02	1TA		OX	01
	1SA	TX	06	TP	1TA	OX	.	01	.	.	.
	1SA	TX	K	06	TP	OTA	OX	.	01	K	.
	1SA	TX	E	06	TP	OTA	OX	.	01	E	.
	1SA	TX	TP	OTA	OX	.	01	06-	.	.	.
	1SA	TX	06	05	TP	OTA	OX	.	01	05	.
	1SA	TX	06	04	TP	OTA	OX	.	01	04	.
	1SA	TX	06	03	TP	OTA	OX	.	01	03	.
	1SA	TX	06	02	TP	OTA	OX	.	01	02	.
	1SA	06	TP	OTA	OX	.	01	TX-	.	.	.
	1SA	TX	06	OTA	OX	.	01	TP-	.	.	.

355	Logic for SA is on boards 325, 332.									
	OSA	S	1TA	SA	01	.	01	.	.	.
	1SA	1TA	SA	.	.	.	.	.	.	.
	1SA	S	OTA	SA	.	.	01	S	.	.
356	Logic for TOX- is on boards 321, 324.									
	OSA	1TA	TOX-	.	01	.	.	.	.	.
	1SA	TO	TX	1TA	.	TOX-	.	01	.	.
	1SA	TO	OTA	TOX-	.	.	01	TX-	.	.
	1SA	TX	OTA	TOX-	.	.	01	TO-	.	.
357	Logic for TXA- is on boards 318, 324.									
	OSA	1TA	TXA-	.	01	.	.	.	.	.
	1SA	TX	1TA	TXA-	.	.	01	.	.	.
	1SA	OTA	TXA-	.	01	TX-	.	.	.	.
358	Logic for C430 is on boards 325, 327.									
	OSA	1TA	C430	.	01	.	.	.	.	.
	1SA	C4	C3	PS	1TA	C430	.	01	C4-	.
	1SA	C3	PS	OTA	C430	.	01	C3-	.	.
	1SA	C4	OS	OTA	C430	.	01	*WI	PS-	.
	1SA	C4	C3	OTA	C430	.	01			.
359	Logic for C431 is on boards 325, 328.									
	OSA	C3	1TA	C431	.	01	.	.	.	.
	1SA	C4	PS	1TA	C431	.	01	.	.	.
	1SA	PS	OTA	C431	.	01	C4-	.	.	.
	1SA	C4	C3	PS	OTA	C431	.	01	C3	.
	1SA	C4	OTA	C431	1	01	*WI	.	.	.
	OSA	C4	1TA	C432	.	01	.	.	.	.
	1SA	C3	PS	1TA	C432	.	01	.	.	.
	1SA	C4	C3	PS	OTA	C432	.	01	C4	.
	1SA	PS	OTA	C432	.	01	C3-	.	.	.
	1SA	C3	OTA	C432	.	01	*WI	.	.	.
360	Logic for C433 is on boards 325, 327.									
	OSA	C4	C3	1TA	C433	.	01	.	.	.
	1SA	PS	1TA	C433	.	01	.	.	.	.
	1SA	C4	PS	OTA	C433	.	01	C4	.	.
	1SA	C3	PS	OTA	C433	.	01	C3	.	.
	1SA	OTA	C433	.	01	*WI	.	.	.	.
361	Logic for C5A is on boards 325, 326.									
	OSA	C5	1TA	C5A	.	01	.	.	.	.
	1SA	1TA	C5A	.	01	.	.	.	.	.
	1SA	C5	OTA	C5A	.	01	C5	.	.	.

	1SA	D	K	PS	OTA	KOPC	.	01	E-	.	.
	1SA	E	K	PS	OTA	KOPC	.	01	D-	.	.
	1SA	AK	D	E	K	PS	OTA	KOPC	.	01	AK
	1SA	D	E	K	OTA	KOPC	.	01	*WI	.	.
369	Logic for MNA is on boards 219, 223. Logic for MNA- is on boards 219, 223.										
	OSA	MN	1TA	MNA	.	01	.	.	.	.	.
	1SA	1TA	MNA	.	01	.	.	.	.	.	.
	1SA	MN	OTA	MNA	.	01	MN	.	.	.	.
	OSA	1TA	MNA-	.	01	.	.	.	.	.	.
	1SA	MN	1TA	MNA-	.	01	.	.	.	.	.
	1SA	OTA	MNA-	.	01	MN-	.	.	.	.	.
370	Logic for 04A- is on boards 236, 238.										
	OSA	1TA	04A-	.	01	.	.	.	.	.	.
	1SA	04	1TA	04A-	.	01	.	.	.	.	.
	1SA	OTA	04A-	.	01	04-	.	.	.	.	.
371	Logic for 02A is on boards 236, 237.										
	OSA	02	1TA	02A	.	01	.	.	.	.	.
	1SA	1TA	02A	.	01	.	.	.	.	.	.
	1SA	02	OTA	02A	.	01	02	.	.	.	.
372	Logic for TOA is on boards 217, 219.										
	OSA	TO	1TA	TOA	.	01	.	.	.	.	.
	1SA	1TA	TOA	.	01	.	.	.	.	.	.
	1SA	TO	OTA	TOA	.	01	TO	.	.	.	.
373	Logic for TOA- is on boards 317, 324.										
	OSA	1TA	TOA-	.	01	.	.	.	.	.	.
	1SA	TO	1TA	TOA-	.	01	.	.	.	.	.
	1SA	OTA	TOA-	.	01	TO-	.	.	.	.	.
374	Logic for TOB is on boards 216, 219.										
	OSA	TO	1TA	TOB	.	01	.	.	.	.	.
	1SA	1TA	TOB	.	01	.	.	.	.	.	.
	1SA	TO	OTA	TOB	.	01	TO	.	.	.	.
375	Logic for TPA is on boards 236, 440.										
	OSA	TP	1TA	TPA	.	01	.	.	.	.	.
	1SA	1TA	TPA	.	01	.	.	.	.	.	.
	1SA	TP	OTA	TPA	.	01	TP	.	.	.	.
376	Logic for TXC is on boards 318, 324.										
	OSA	TX	1TA	TXC	.	01
	1SA	1TA	TXC	.	01
	1SA	TX	OTA	TXC	.	01	TX

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377	Logic for OMD is on boards 219, 222.									
	OSA	E	K	05	1TA	OMD		01	.	.
	1SA	06	03	1TA	OMD		01	.	.	.
	1SA	K	06	03	OTA	OMD		01	K	.
	1SA	E	06	03	OTA	OMD		01	E	.
	1SA	03	OTA	OMD	.	01	06-	.	.	.
	1SA	06	05	03	OTA	OMD		01	05	.
	1SA	06	OTA	OMD	.	01	03-	.	.	.
378	Logic for TLS is on boards 235, 236.									
	OSA	B6	B4	1TA	TLS		01	.	.	.
	1SA	B5	1TA	TLS		01	.	.	.	.
	1SA	B6	B5	OTA	TLS		01	B6	.	.
	1SA	OTA	TLS	.	01	B5-	.	.	.	.
	1SA	B5	B4	OTA	TLS		01	B4	.	.
379	Logic for TRC is on boards 233, 236.									
	OSA	B5	1TA	TRC	.	01	.	.	.	.
	1SA	B6	1TA	TRC	.	01	.	.	.	.
	1SA	OTA	TRC	.	01	B6-	.	.	.	.
	1SA	B6	B5	OTA	TRC		01	B5	.	.
380	Logic for TRS is on boards 234, 236.									
	OSA	B4	1TA	TRS	.	01	.	.	.	.
	1SA	B6	B5	1TA	TRS		01	.	.	.
	1SA	B5	OTA	TRS	.	01	B6-	.	.	.
	1SA	B6	OTA	TRS	.	01	B5-	.	.	.
	1SA	B6	B5	B4	OTA	TRS		01	B4	.
381	Logic for T32 is on boards 219, 224.									
	OSA	B6	TS0	1TA	T32		01	.	.	.
	1SA	1TA	T32	.	01	.	.	.	.	.
	1SA	B6	OTA	T32	.	01	B6	.	.	.
	1SA	TS0	OTA	T32	.	01	TS0	.	.	.
382	Logic for TSH is on boards 233, 236.									
	OSA	AK	OB2	1TA	TSH		01	.	.	.
	1SA	T0	TX	DSP	D	E	K	OB3	TP	1TA
	TSH	.	01	.	.	.	.	.	.	.
	1SA	T0	TX	DSP	D	E	OB3	TP	OTA	TSH
	.	01	K-	.	.	.	.	.	.	.
	1SA	T0	TX	DSP	D	K	OB3	TP	OTA	TSH
	.	01	E-	.	.	.	.	.	.	.

1SA	TO	TX	DSP	E	K	OB3	TP	OTA	TSH
.	01	D-	.	.	.	.	.	.	.
1SA	TO	TX	AK	DSP	D	E	K	OB3	TP
OTA	TSH	.	01 AK	.	.	.	.	.	.

383 Logic for TSH is on boards 233, 236.

1SA	TO	TX	D	E	K	OB3	TP	OTA	TSH
.	01	DSP-	.	.	.	.	.	.	.
1SA	TO	TX	DSP	D	E	K	TP	TOA	TSH
.	01	OB3-	.	.	.	.	.	.	.
1SA	TO	TX	DSP	D	E	K	OB3	OB2	TP
OTA	TSH	.	01 OB2	.	.	.	.	.	.
1SA	TO	TX	DSP	D	E	K	OB3	OTA	TSH
.	01	TP-	.	.	.	.	.	.	.
1SA	TO	DSP	D	E	K	OB3	TP	OTA	TSH
.	01	TX-	.	.	.	.	.	.	.
1SA	TX	DSP	D	E	K	OB3	TP	OTA	TSH
.	01	TO-	.	.	.	.	.	.	.

NOTE

Some of the primary and gates in FADAC are connected for test by the AP line of FALT.
This tape tests those addressable primaries.

384 Logic for BDX is on boards 237, 317, 404.

OSA	DSP	X2	X1	1TA	BDX	.	01	.	.	.
1SA	DSH	XD	PS	1TA	BDX	.	01	.	.	.
1SA	DSH	XD	X1	PS	OTA	BDX	.	01	X1	.
1SA	DSH	XD	X2	PS	OTA	BDX	.	01	X2	.
1SA	DSH	DSP	XD	PS	OTA	BDX	.	01	NXD	DSP
1SA	XD	PS	OTA	BDX	.	01	NXD	DSH-	.	.
1SA	DSH	XD	OTA	BDX	.	01	NXD	*WI	.	.
1SA	DSH	PS	OTA	BDX	.	01	NXD	XD-	.	.

385 Logic for BL1 is on board 231. Logic for BL2 is on board 231.

OSA	B1	1TA	BL1	.	01	.	.	.	.	.
1SA	B3	B2	1TA	BL1	.	01	.	.	.	.
1SA	B2	OTA	BL1	.	01	B3-	.	.	.	.
1SA	B3	OTA	BL1	.	01	B2-	.	.	.	.
1SA	B3	B2	B1	OTA	BL1	.	01	B1	.	.
OSA	B2	1TA	BL2	.	01	.	.	.	.	.
1SA	B3	B1	1TA	BL2	.	01
1SA	B1	OTA	BL2	.	01	B3-
1SA	B3	B2	B1	OTA	BL2	.	01	B2	.	.
1SA	B3	OTA	BL2	.	01	B1-

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386	Logic for BL3 is on board 230.									
	OSA	B2	B1	1TA	BL3	.	01	.	.	.
	1SA	B3	1TA	BL3	.	01
	1SA	OTA	BL3	.	01	B3-
	1SA	B3	B2	OTA	BL3	.	01	B2	.	.
	1SA	B3	B1	OTA	BL3	.	01	B1	.	.
387	Logic for BL5 is on board 207.									
	OSA	B3	B1	1TA	BL5	.	01	.	.	.
	1SA	B2	1TA	BL5	.	01	.	.	.	.
	1SA	B3	B2	OTA	BL5	.	01	B3	.	.
	1SA	OTA	BL5	.	01	B2-	.	.	.	.
	1SA	B2	B1	OTA	BL5	.	01	B1	.	.
388	Logic for BL6 is on board 230.									
	OSA	B3	B2	1TA	BL6	.	01	.	.	.
	1SA	B1	1TA	BL6	.	01	.	.	.	.
	1SA	B3	B1	OTA	BL6	.	01	B3	.	.
	1SA	B2	B1	OTA	BL6	.	01	B2	.	.
	1SA	OTA	BL6	.	01	B1-	.	.	.	.
389	Logic for B5L4 is on boards 226, 325, 326.									
	OSA	B5	B3	1TA	B5L4	.	01	.	.	.
	1SA	B2	B1	1TA	B5L4	.	01	.	.	.
	1SA	B5	B2	B1	OTA	B5L4	.	01	B5	.
	1SA	B3	B2	B1	OTA	B5L4	.	01	BL4	B3
	1SA	B1	OTA	B5L4	.	01	BL4	B2-	.	.
	1SA	B2	OTA	B5L4	.	01	BL4	B1-	.	.
390	Logic for CNU6 is on boards 325, 328, 331.									
	OSA	C7	C6	1TA	CNU6	.	01	.	.	.
	1SA	C5	1TA	CNU6	.	01	.	.	.	.
	1SA	C7	C5	OTA	CNU6	.	01	C7	.	.
	1SA	C6	C5	OTA	CNU6	.	01	C6	.	.
	1SA	OTA	CNU6	.	01	C5A-	C5-	.	.	.
391	Logic for CR75 is on board 231.									
	OSA	CR7	CR6	1TA	CR75	.	01	.	.	.
	1SA	CR5	1TA	CR75	.	01	.	.	.	.
	1SA	CR7	CR5	OTA	CR75	.	01	CR7	.	.
	1SA	CR6	CR5	OTA	CR75	.	01	CR6	.	.
	1SA	OTA	CR75	.	01	CR5-
	1SA	CR5	K	OTA	CR75	.	01	K	.	.

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397	Logic for EAKO is on boards 229, 235, 236.									
	OSA	1TA	EAKO	.	01
	1SA	AK	E	PE	1TA	EAKO	.	01	.	.
	1SA	AK	PE	OTA	EAKO	.	01	E-	.	.
	1SA	E	PE	OTA	EAKO	.	01	AKA-	AK-	.
	1SA	AK	E	OTA	EAKO	.	01	PE-	.	.
398	Logic for ERR- is on board 231.									
	OSA	1TA	ERR-	.	01	.	.	.	.	.
	1SA	OFLO	PE	1TA	ERR-	.	01	.	.	.
	1SA	PE	OTA	ERR-	.	01	OFLO-	.	.	.
	1SA	OFLO	OTA	ERR-	.	01	PE-	.	.	.
399	Logic for FST is on boards 440, 441.									
	OSA	B6	B5	B3	B2	CL5	IP	1TA	FST	.
	1SA	B1	CL7	CL6	1TA	FST	.	01	.	01
	1SA	B1	CL7	CL6	IP	OTA	FST	.	01	IP
	1SA	B1	CL6	OTA	FST	.	01	CL7-	.	.
	1SA	B1	CL7	OTA	FST	.	01	CL6-	.	.
	1SA	B1	CL7	CL6	CL5	OTA	FST	.	01	CL5
	1SA	B6	B1	CL7	CL6	OTA	FST	.	01	B6
	1SA	B5	B1	CL7	CL6	OTA	FST	.	01	B5
	1SA	B3	B1	CL7	CL6	OTA	FST	.	01	B3
	1SA	B2	B1	CL7	CL6	OTA	FST	.	01	B2
	1SA	CL7	CL6	OTA	FST	.	01	B1-	.	.
400	Logic for ICP is on boards 325, 331, 335.									
	OSA	IC	K	TP	1TA	ICP	.	01	.	.
	1SA	D	1TA	ICP	.	01	.	.	.	.
	1SA	D	K	OTA	ICP	.	01	KDIC	K	.
	1SA	OTA	ICP	.	01	KDIC	D-	.	.	.
	1SA	D	IC	OTA	ICP	.	01	KDIC	IC	.
	1SA	D	TP	OTA	ICP	.	01	TP	.	.
401	Logic for KAK1 is on boards 321, 324, 336.									
	OSA	AK	1TA	KAK1	.	01	.	.	.	.
	1SA	K	1TA	KAK1	.	01	.	.	.	.
	1SA	OTA	KAK1	.	01	KC-	K-	.	.	.
	1SA	AK	K	OTA	KAK1	.	01	AK	.	.
402	Logic for KD3M is on boards 213, 320, 324.									
	OSA	D	K	1TA	KD3M	.	01	.	.	.
	1SA	NC	1TA	KD3M	.	01	.	.	.	.
	1SA	K	NC	OTA	KD3M	.	01	KD3	K	.
	1SA	D	NC	OTA	KD3M	.	01	KD3	D	.
	1SA	OTA	KD3M	.	01	NC-	.	.	.	.

403	Logic for KIOC is on boards 217, 219, 239.									
	OSA	AK	CL7	1TA	KIOC	.	01	.	.	.
	1SA	D	K	1TA	KIOC	.	01	.	.	.
	1SA	D	OTA	KIOC	.	01	KIO	K-	.	.
	1SA	K	OTA	KIOC	.	01	KIO	D-	.	.
	1SA	AK	D	K	OTA	.	KIOC	.	01	KIO
	1SA	CL7	D	K	OTA	.	KIOC	.	01	CL7
404	Logic for KIOP is on boards 209, 217, 219.									
	OSA	AK	IP	1TA	KIOP	.	01	.	.	.
	1SA	D	K	1TA	KIOP	.	01	.	.	.
	1SA	AK	OTA	KIOP	.	01	KIO	.	.	.
	1SA	D	IP	K	OTA	.	KIOP	.	01	IP
405	Logic for KIOX is on boards 216, 218, 219, 232, 236, 324, 325, 333.									
	OSA	TX	E	K	06	03	1TA	KIOX	.	01
	1SA	05	1TA	KIOX	.	01	.	.	.	.
	1SA	K	05	OTA	KIOX	.	01	K06	K	.
	1SA	E	05	OTA	KIOX	.	01	K06	E	.
	1SA	06	05	OTA	KIOX	.	01	K06	06	.
	1SA	OTA	KIOX	.	01	05A-	05-	.	.	.
	1SA	05	03	OTA	KIOX	.	01	03A	03	.
	1SA	TX	05	OTA	KIOX	.	01	TXB	TX	.
406	Logic for KSU0 is on board 336.									
	OSA	E	1TA	KSU0	.	01	.	.	.	.
	1SA	AK	D	K	1TA	KSU0	.	01	.	.
	1SA	AK	E	OTA	KSU0	.	01	KED2	.	.
	1SA	D	K	OTA	KSU0	.	01	AKA-	.	.
407	Logic for KSU1 is on board 229.									
	OSA	AK	E	1TA	KSU1	.	01	.	.	.
	1SA	D	K	1TA	KSU1	.	01	.	.	.
	1SA	E	OTA	KSU1	.	01	KED2	.	.	.
	1SA	AK	D	K	OTA	.	KSU1	.	01	AK
408	Logic for KFST is on boards 320, 324, 337.									
	OSA	B4	K	TSO	1TA	KFST	.	01	.	.
	1SA	FS	1TA	KFST	.	01	.	.	.	.
	1SA	FS	K	OTA	KFST	.	01	KT32	K	.
	1SA	B4	FS	OTA	KFST	.	01	KT32	B4	.
	1SA	FS	TSO	OTA	KFST	.	01	KT32	TSO	.
	1SA	OTA	KFST	.	01	FS-	.	.	.	.
409	Logic for MAX0 is on board 341.									
	OSA	1TA	MAX0	.	01
	1SA	AX	MN	1TA	MAX0	.	01	.	.	.
	1SA	AX	OTA	MAX0	.	01	MN-	.	.	.
	1SA	MN	OTA	MAX0	.	01	AX-	.	.	.

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410	Logic for MAX1 is on board 340. Logic for MAX2 is on board 340. Logic for MAX3 is on board 340.											
	OSA	AX	1TA	MAX1	.	01	.	.	.	.	.	.
	1SA	MN	1TA	MAX1	.	01	.	.	.	.	.	.
	1SA	OTA	MAX1	.	01	MN-	.	.	.	.	.	.
	1SA	AX	MN	OTA	MAX1	.	01	AX	.	.	.	.
	OSA	MN	1TA	MAX2	.	.	01	.	.	.	.	.
	1SA	AX	1TA	MAX2	.	.	01	.	.	.	.	.
	1SA	AX	MN	OTA	MAX2	.	.	01	MN	.	.	.
	1SA	OTA	MAX2	.	01	AX-	.	.	.	.	.	.
	OSA	AX	MN	1TA	MAX3	.	.	01	.	.	.	.
	1SA	1TA	MAX3	.	01	.	.	.	.	.	.	.
	1SA	MN	OTA	MAX3	.	01	MN	.	.	.	.	.
	1SA	AX	OTA	MAX3	.	01	AX	.	.	.	.	.
411	Logic for OBW is on board 332.											
	OSA	K	OB6	1TA	OBW	.	01	.	.	.	.	.
	1SA	OB5	OB3	1TA	OBW	.	01	.	.	.	.	.
	1SA	K	OB5	OB3	OTA	OBW	.	01	K	.	.	.
	1SA	OB6	OB5	OB3	OTA	OBW	.	01	OB6	.	.	.
	1SA	OB3	OTA	OBW	.	01	OB5-	.	.	.	.	.
	1SA	OB5	OTA	OBW	.	01	OB3-	.	.	.	.	.
412	Logic for ODO is on boards 228, 319, 324.											
	OSA	D	E	K	05	04	1TA	ODO	.	01	.	.
	1SA	06	03	1TA	ODO	.	01	.	.	.	.	.
	1SA	K	06	03	OTA	ODO	.	01	OD	K	.	.
	1SA	E	06	03	OTA	ODO	.	01	OD	E	.	.
	1SA	03	OTA	ODO	.	01	OD	06-	.	.	.	.
	1SA	06	05	03	OTA	ODO	.	01	OD	05	.	.
	1SA	06	04	03	OTA	ODO	.	01	OD	04	.	.
	1SA	06	OTA	ODO	.	01	OD	03-	.	.	.	.
	1SA	D	06	03	OTA	ODO	.	01	KD3	.	.	.
413	Logic for OLP is on boards 217, 219, 236, 237, 314, 318, 324, 334, 405.											
	OSA	F	K	05	04	03	1TA	OLP	.	01	.	.
	1SA	06	02	TP	1TA	OLP	.	01	.	.	.	.
	1SA	K	06	02	TP	OTA	OLP	.	01	K06-	K	.
	1SA	E	06	02	TP	OTA	OLP	.	01	K06-	E	.
	1SA	02	TP	OTA	OLP	.	01	K06-	06-	.	.	.
	1SA	06	05	02	TP	OTA	OLP	.	01	05A	05	.
	1SA	06	04	02	TP	OTA	OLP	.	01	04B	04	.
	1SA	06	03	02	TP	OTA	OLP	.	01	03A	.	.
	1SA	06	TP	OTA	OLP	.	01	02-	.	.	.	.
	1SA	06	02	OTA	OLP	.	01	TPA-	TP-	.	.	.

414	Logic for OL4 is on boards 211, 214, 216.									
	OSA	04	1TA	OL4	01	.	.	.	.	.
	1SA	03	02	1TA	OL4	.	01	.	.	.
	1SA	04	03	02	OTA	OL4	.	01	04B	.
	1SA	02	OTA	OL4	.	01	032-	03-	.	.
	1SA	03	OTA	OL4	.	01	032-	02-	.	.
415	Logic for OMDL is on board 339.									
	OSA	E	K	05	1TA	OMDL	.	01	.	.
	1SA	D	06	03	1TA	OMDL	.	01	.	.
	1SA	D	E	K	05	OTA	OMDL	.	01	OMD
	1SA	06	03	OTA	OMDL	.	01	D-	.	.
416	Logic for OMDM is on boards 219, 222, 229.									
	OSA	D	E	K	05	1TA	OMDM	.	01	.
	1SA	NC	06	03	1TA	OMDM	.	01	.	.
	1SA	K	NC	05	OTA	OMDM	.	01	OMD	.
	1SA	E	NC	06	03	OTA	OMDM	.	01	ED3
	1SA	D	NC	06	03	OTA	OMDM	.	01	ED3
	1SA	06	03	OTA	OMDM	.	01	NC-	.	.
417	Logic for OMF is on boards 232, 236, 239.									
	OSA	E	K	05	1TA	OMF	.	01	.	.
	1SA	06	04	1TA	OMF	.	01	.	.	.
	1SA	E	K	04	OTA	OMF	.	01	K06-	.
	1SA	06	05	04	OTA	OMF	.	01	05A	.
	1SA	06	OTA	OMF	.	01	04B-	04-	.	.
418	Logic for OMNF is on boards 325, 336, 337.									
	OSA	E	K	05	1TA	OMNF	.	01	.	.
	1SA	NC	06	04	03	1TA	OMNF	.	01	.
	1SA	E	K	NC	05	OTA	OMNF	.	01	OM
	1SA	06	04	03	OTA	OMNF	.	01	NC	.
419	Logic for OOP is on board 212.									
	OSA	PP	1TA	OOP	.	01	.	.	.	.
	1SA	OB4	05	1TA	OOP	.	01	.	.	.
	1SA	05	OTA	OOP	.	01	OB4-	.	.	.
	1SA	OB4	OTA	OOP	.	01	05A-	.	.	.
	1SA	OB4	05	PP	OTA	OOP	.	01	PP	.

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420	Logic for OTL is on boards 227, 234, 236.									
	OSA	D	E	K	06	05	03	1TA	OTL	01
	1SA	04	1TA	OTL	.	01
	1SA	K	04	OTA	OTL	01	K065	K	.	.
	1SA	E	04	OTA	OTL	01	K065	E	.	.
	1SA	06	04	OTA	OTL	01	K065	06	.	.
	1SA	05	04	OTA	OTL	01	K065	05	.	.
	1SA	OTA	OTL	.	01 04B-	.	.	.	.	.
	1SA	04	03	OTA	OTL	.	01 03A	.	.	.
	1SA	D	04	OTA	OTL	.	01 KD3	.	.	.
421	Logic for OYC5 is on boards 238, 325, 326.									
	OSA	C5	E	K	06	05	04	03	02	1TA
	OYC5	.	01	.	.	.	.	.	.	.
	1SA	1TA	OYC5	.	01	.	.	.	.	.
	1SA	K	OTA	OYC5	.	01 OY	K	.	.	.
	1SA	E	OTA	OYC5	.	01 OY	E	.	.	.
	1SA	06	OTA	OYC5	.	01 OY	06	.	.	.
	1SA	05	OTA	OYC5	.	01 OY	05	.	.	.
	1SA	04	OTA	OYC5	.	01 OY	04	.	.	.
	1SA	03	OTA	OYC5	.	01 OY	03	.	.	.
	1SA	02	OTA	OYC5	.	01 OY	02	.	.	.
	1SA	C5	OTA	OYC5	.	01 C5	.	.	.	.
422	Logic for 04X is on boards 208, 319, 324.									
	OSA	TX	1TA	04X	.	01	.	.	.	.
	1SA	04	1TA	04X	.	01	.	.	.	.
	1SA	OTA	04X	.	01 04B-	.	.	.	.	.
	1SA	TX	04	OTA	04X	.	01 TXA	TX	.	.
423	Logic for T15 is on boards 210, 235, 236.									
	OSA	B6	1TA	T15	.	01	.	.	.	.
	1SA	B4	B3	B2	B1	1TA	T15	.	01	.
	1SA	B6	B3	B2	B1	OTA	T15	.	01	TOP
	1SA	B4	B2	B1	OTA	T15	.	01 BLO	.	B3-
	1SA	B4	B3	B1	OTA	T15	.	01 BLO	.	B2-
	1SA	B4	B3	B2	OTA	T15	.	01 BLO	.	B1-
424	Logic for T19 is on board 209.									
	OSA	B6	B3	1TA	T19	.	01	.	.	.
	1SA	B4	B2	B1	1TA	T19	.	01	.	.
	1SA	B6	B2	B1	OTA	T19	.	01	TOP	.
	1SA	B4	B3	OTA	T19	.	01 BL4	.	.	.

425 Logic for VER is on boards 219, 224, 233, 236, 340.

OSA	AK	04	1TA	VER	01	.	.	.	.	.
1SA	TO	TX	D	K	MC	ND	TP	1TA	VER	.
1SA	TO	TX	D	K	ND	TP	OTA	VER	.	01
MC-1SA	TO	TX	D	K	MC	TP	OTA	VER	.	01
ND-1SA	TO	TX	AK	MC	ND	TP	OTA	VER	.	01
KIO	TO	TX	D	K	MC	ND	OTA	VER	.	01
1SA	TO	TX	D	K	MC	ND	OTA	VER	.	01
TPO-1SA	TP-	.	.	.	.	.	.	.	.	.
TPO-1SA	TO	D	K	MC	ND	TP	OTA	VER	.	01
TPO-1SA	TX-	.	.	.	.	.	.	.	.	.
TPO-1SA	TX	D	K	MC	ND	TP	OTA	VER	.	01
TPO-1SA	TO-	.	.	.	.	.	.	.	.	.
VER	.	01	04A	04	.	.	.	.	OTA	.

426 Logic for XCT is on boards 324, 325, 327, 332, 338.

OSA	TX	DSP	1TA	XCT	.	01	.	.	.	.
1SA	B2	S	1TA	XCT	.	01	.	.	.	.
1SA	B2	DSP	S	OTA	XCT	.	01	DSP	.	.
1SA	B2	OTA	XCT	.	01	SA-	S-	.	.	.
1SA	TX	B2	S	OTA	XCT	.	01	TXF	TX	.
1SA	S	OTA	XCT	.	01	TXF	B2-	.	.	.

427 Logic for CPS4 is on boards 314, 315.

OSA	CP7	CPFS	E6	1TA	CPS4	.	01	.	.	.
1SA	CP6	CP5	E7	E8	1TA	CPS4	.	01	.	.
1SA	CP6	CP5	CPFS	E7	E8	OTA	CPS4	.	01	CPFS
1SA	CP7	CP6	CP5	E7	E8	OTA	CPS4	.	01	CP7
1SA	CP5	E7	E8	OTA	CPS4	.	01	CP6-	.	.
1SA	CP6	E7	E8	OTA	CPS4	.	01	CP5-	.	.
1SA	CP6	CP5	E6	OTA	CPS4	.	01	E6	.	.
OSA	CP7	CP5	CPFS	E4	E8	1TA	CPS5	.	01	.
1SA	CP6	E6	E7	1TA	CPS5	.	01	.	.	.
1SA	CP6	CPFS	E6	E7	OTA	CPS5	.	01	CPFS	.
1SA	CP7	CP6	E6	E7	OTA	CPS5	.	01	CP7	.
1SA	E6	E7	OTA	CPS5	.	01	CP6-	.	.	.
1SA	CP6	CP5	E6	E7	OTA	CPS5	.	01	CP5	.
1SA	CP6	E6	E7	E8	OTA	CPS5	.	01	E8	.

428 Logic for CL34 is on board 215.

OSA	CL3	04	1TA	CL34	.	01
1SA	1TA	CL34
1SA	CL3	OTA	CL34	.	01	CL3
1SA	04	OTA	CL34	.	01	04

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429	Logic for BL7 is on board 440.										
	OSA	B3	B2	B1	1TA	BL7	.	01	.	.	.
	1SA	1TA	BL7	.	01
	1SA	B3	OTA	BL7	.	01	B3
	1SA	B2	OTA	BL7	.	01	B2	.	.	.	.
	1SA	B1	OTA	BL7	.	01	B1	.	.	.	.
430	Logic for KB5 is on boards 318, 325, 330.										
	OSA	B5	K	1TA	KB5	.	01	.	.	.	.
	1SA	1TA	KB5	.	01	.	.	.	.	.	.
	1SA	K	OTA	KB5	.	01	KB	K	.	.	.
	1SA	B5	OTA	KB5	.	01	B5	.	.	.	.
431	Logic for KED3 is on board 212.										
	OSA	D	E	1TA	KED3	.	01	.	.	.	.
	1SA	K	1TA	KED3	.	01	.	.	.	.	.
	1SA	OTA	KED3	.	01	KC-	.	.	.	.	.
	1SA	D	E	K	OTA	KED3	.	01	ED3	.	.
432	Logic for KE0 is on board 441.										
	OSA	1TA	KE0	.	01	.	.	.	.	.	.
	1SA	E	K	1TA	KE0	.	01	.	.	.	.
	1SA	E	OTA	KE0	.	01	KC-	.	.	.	.
	1SA	K	OTA	KE0	.	01	E-	.	.	.	.
433	Logic for KHRS is on boards 325, 330, 331, 341.										
	OSA	B4	D	1TA	KHRS	.	01	.	.	.	.
	1SA	B6	B5	K	1TA	KHRS	.	01	.	.	.
	1SA	B6	B5	OTA	KHRS	.	01	KTRS	K-	.	.
	1SA	B5	K	OTA	KHRS	.	01	KTRS	B6-	.	.
	1SA	B6	K	OTA	KHRS	.	01	KTRS	B5-	.	.
	1SA	B6	B5	B4	K	OTA	KHRS	.	01	KTRS	B4
	1SA	B6	B5	D	K	OTA	KHRS	.	01	D	.
434	Logic for KLC- is on boards 240, 325, 331.										
	OSA	LC	1TA	KLC-	.	01	.	.	.	.	.
	1SA	K	1TA	KLC-	.	01	.	.	.	.	.
	1SA	OTA	KLC-	.	01	KB-	K-	.	.	.	.
	1SA	K	LC	OTA	KLC-	.	01	LC	.	.	.

435	Logic for KW is on boards 325, 326, 333.									
	OSA	AK	MC	1TA	KW	.	01	.	.	.
	1SA	D	K	ND	1TA	KW	.	01	.	.
	1SA	D	ND	OTA	KW	.	01	K-	.	.
	1SA	K	ND	OTA	KW	.	01	D-	.	.
	1SA	AK	D	K	ND	OTA	.	KW	.	01 AKA
	1SA	D	K	MC	ND	OTA	.	KW	.	01 MC
	1SA	D	K	OTA	KW	.	01	ND-	.	.
436	Logic for MMPT is on boards 210, 319, 324.									
	OSA	TP	1TA	MMPT	.	01	.	.	.	.
	1SA	MC	1TA	MMPT	.	01	.	.	.	.
	1SA	OTA	MMPT	.	01	MC-	.	.	.	.
	1SA	MC	TP	OTA	MMPT	.	01	TPB	TP	.
437	Logic for NDX- is on board 227.									
	OSA	TX	1TA	NDX-	.	01	.	.	.	.
	1SA	B2	ND	1TA	NDX-	.	01	.	.	.
	1SA	B2	OTA	NDX-	.	01	ND-	.	.	.
	1SA	TX	ND	OTA	NDX-	.	01	TXF	.	.
438	Logic for OA is on boards 213, 324, 334.									
	OSA	AC	E	K	1TA	OA	.	01	.	.
	1SA	DC	06	03	1TA	OA	.	01	.	.
	1SA	DC	E	K	03	OTA	OA	.	01	K06-
	1SA	DC	06	OTA	OA	.	01	03A-	03-	.
	1SA	AC	DC	06	03	OTA	OA	.	01	AC
	1SA	06	03	OTA	OA	.	01	DC-	.	.
439	Logic for OBN is on boards 215, 218, 219.									
	OSA	OB5	OB4	OB3	OB2	1TA	OBN	.	01	.
	1SA	1TA	OBN	.	01	.	.	.	.	.
	1SA	OB5	OTA	OBN	.	01	OB5	.	.	.
	1SA	OB3	OTA	OBN	.	01	OB3	.	.	.
	1SA	OB4	OTA	OBN	.	01	OB42	OB4	.	.
	1SA	OB2	OTA	OBN	.	01	OB42	OB2	.	.
440	Logic for OCL is on boards 213, 217, 219.									
	OSA	AK	OB4	04	1TA	OCL	.	01	.	.
	1SA	D	E	K	OB3	OB2	1TA	OCL	.	01
	1SA	AK	OB4	OB3	OB2	OTA	OCL	.	01	K10A
	1SA	D	E	K	OB3	OB2	04	OTA	OCL	.
	04B
	1SA	D	E	K	OB2	OTA	OCL	.	01	OB3-
	1SA	D	E	K	OB3	OTA	OCL	.	01	OB2-

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441	Logic for OEL is on board 216.										
	OSA	E	K	06	05	02	1TA	OEL	.	01	.
	1SA	03	1TA	OEL	.	01
	1SA	E	K	06	05	03	OTA	OEL	.	01	K065
	1SA	OTA	OEL	.	01	03A-	.	.	.	.	.
	1SA	03	02	OTA	OEL	.	01	02	.	.	.
442	Logic for OF is on boards 226, 324, 334.										
	OSA	E	K	05	03	1TA	OF	.	01	.	.
	1SA	06	04	TP	1TA	OF	.	01	.	.	.
	1SA	E	K	04	TP	OTA	OF	.	01	K06-	.
	1SA	06	05	04	TP	OTA	OF	.	01	05A	.
	1SA	06	TP	OTA	OF	.	01	04B-	.	.	.
	1SA	06	04	03	TP	OTA	OF	.	01	03A	.
	1SA	06	04	OTA	OF	.	01	TPA-	.	.	.
443	Logic for OGO is on boards 214, 219, 222.										
	OSA	AK	OB3	OB2	1TA	OGO	.	01	.	.	.
	1SA	D	E	K	OB4	PP	1TA	OGO	.	01	.
	1SA	D	E	OB4	PP	OTA	OGO	.	01	KIOS	K-
	1SA	D	K	OB4	PP	OTA	OGO	.	01	KIOS	E-
	1SA	E	K	OB4	PP	OTA	OGO	.	01	KIOS	D-
	1SA	AK	D	E	K	OB4	PP	OTA	OGO	.	01
	KIOS	AK	.	.	.	.	.	.	.	.	.
	1SA	D	E	K	PP	OTA	OGO	.	01	KIOS	OB4-
	1SA	D	E	K	OB4	OB3	PP	OTA	OGO	.	01
	KIOS	OB3	.	.	.	.	.	.	.	.	.
	1SA	D	E	K	OB4	OB2	PP	OTA	OGO	.	01
	OB2	.	.	.	.	.	.	.	.	.	.
	1SA	D	E	K	OB4	OTA	OGO	.	01	PP-	.
444	Logic for OJ is on boards 232, 235, 236.										
	OSA	K	04	1TA	OJ	.	01	.	.	.	.
	1SA	06	05	1TA	OJ	.	01	.	.	.	.
	1SA	K	06	05	OTA	OJ	.	01	KA	K	.
	1SA	05	OTA	OJ	.	01	06-	.	.	.	.
	1SA	06	OTA	OJ	.	01	05A-	.	.	.	.
	1SA	06	05	04	OTA	OJ	.	01	04B	.	.
445	Logic for OLTP is on boards 226, 319, 324.										
	OSA	LC	OB3	05	TP	1TA	OLTP	.	01	.	.
	1SA	1TA	OLTP	.	01	.	.	.	.	.	.
	1SA	05	OTA	OLTP	.	01	05A	.	.	.	.
	1SA	OB3	OTA	OLTP	.	01	OB3	.	.	.	.
	1SA	LC	OTA	OLTP	.	01	LC	.	.	.	.
	1SA	TP	OTA	OLTP	.	01	TPB	.	.	.	.

446 Logic for OLO is on boards 211, 216, 219.
 OSA 1TA OLO 01
 1SA 04 03 02 1TA OLO 01
 1SA 03 02 OTA OLO 01 04B-
 1SA 04 OTA OLO 01 032-

447 Logic for OSAG is on boards 207, 219, 222.
 OSA AK OB3 04 1TA OSAG 01
 1SA D E K OB5 OB4 OB2 1TA OSAG . 01
 1SA AK OB5 OB3 OB2 OTA OSAG 01 KIOS
 1SA D E K OB5 OB4 OB2 OSAG . 01 OB2-
 1SA D E K OB4 OB2 OTA OSAG . 01 OB5-
 1SA D E K OB5 OB4 OB2 04 OTA OSAG
 . 01 04B

448 Logic for OSHB is on boards 208, 219, 223.
 OSA AK OB4 OB2 1TA OSHB 01
 1SA DSP D E K OB3 1TA OSHB . 01
 1SA DSP D E OB3 OTA OSHB . 01 OSH K-
 1SA DSP D K OB3 OTA OSHB . 01 OSH E-
 1SA DSP E K OB3 OTA OSHB . 01 OSH D-
 1SA AK DSP D E K OB3 OTA OSHB
 OSH AK
 1SA D E K OB3 OTA OSHB . 01 OSH DSP-
 1SA DSP D E K OTA OSHB . 01 OSH OB3-
 1SA DSP D E K OB3 OB2 OTA OSHB
 OSH OB2
 1SA DSP D E K OB4 OB3 OTA OSHB
 OB42

449 Logic for OTR is on board 214.
 OSA AK OB3 OB2 PP 1TA OTR . 01
 1SA D E K OB4 1TA OTR . 01
 1SA AK OB3 OTA OTR . 01 KIOS
 1SA D E K OB4 OB2 OTA OTR . . 01 OB2
 1SA D E K OB4 PP OTA OTR . . 01 PP

450 Logic for OTR4 is on boards 212, 213.
 OSA AK OB3 OB2 04 PP 1TA OTR4 . 01
 1SA D E K OB4 X1 1TA OTR4 . 01
 1SA AK OB3 X1 OTA OTR4 . 01 KIOS
 1SA D E K OB4 OB2 X1 OTA OTR4 . . 01
 OB2
 1SA D E K OB4 PP X1 OTA OTR4 . . 01
 PP
 1SA D E K OB4 04 X1 OTA OTR4 . . 01
 04
 1SA D E K OB4 OTA OTR4 . . 01 X1-

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451	Logic for OW is on board 211.									
	OSA	E	K	06	1TA	OW	.	01	.	.
	1SA	05	03	1TA	OW	.	01	.	.	.
	1SA	E	K	06	05	03	OTA	OW	.	01 K06
	1SA	03	OTA	OW	.	01	05A-	.	.	.
	1SA	05	OTA	OW	.	01	03A-	.	.	.
452	Logic for OWT is on board 228.									
	OSA	AK	OB4	OB3	1TA	OWT	.	01	.	.
	1SA	D	E	G	K	OB2	1TA	OWT	.	01
	1SA	AK	G	OB4	OB2	OTA	OWT	OTA	01	KIOA
	1SA	D	E	G	K	OB3	OB2	OTA	OWT	.
	OB3	.	.	.	.	.	.	.	.	.
	1SA	D	E	G	K	OTA	OWT	.	01	OB2-
	1SA	D	E	K	OB2	OTA	OWT	.	01	G-
453	Logic for OYAC is on boards 207, 320, 324.									
	OSA	AC	E	K	06	05	04	03	02	1TA
	OYAC	.	01	.	.	.	.	.	.	.
	1SA	1TA	OYAC	.	01	.	.	.	.	.
	1SA	E	K	06	05	OTA	OYAC	.	01	K065
	1SA	04	OTA	OYAC	.	01	04A	.	.	.
	1SA	03	OTA	OYAC	.	01	032	03	.	.
	1SA	02	OTA	OYAC	.	01	032	02	.	.
	1SA	AC	OTA	OYAC	.	01	AC	.	.	.
454	Logic for OYB is on boards 211, 214.									
	OSA	K	OB6	OB5	OB4	OB3	OB2	1TA	OYB	.
	1SA	1TA	OYB	.	01	.	.	.	.	01
	1SA	K	OTA	OYB	.	01	K	.	.	.
	1SA	OB6	OTA	OYB	.	01	OB6	.	.	.
	1SA	OB5	OTA	OYB	.	01	OB5	.	.	.
	1SA	OB3	OTA	OYB	.	01	OB3	.	.	.
	1SA	OB4	OB2	OTA	OYB	.	01	OB42	.	.
455	Logic for OYR is on board 240.									
	OSA	CR5	CR3	E	K	06	05	04	03	02
	1TA	OYR	.	01	.	.	.	.	.	.
	1SA	1TA	OYR	.	01	.	.	.	.	.
	1SA	E	K	06	05	OTA	OYR	.	01	K065
	1SA	04	OTA	OYR	.	01	04	.	.	.
	1SA	03	02	OTA	OYR	.	01	032	.	.
	1SA	CR5	OTA	OYR	.	01	CR5	.	.	.
	1SA	CR3	OTA	OYR	.	01	CR3	.	.	.

456	Logic for QT1 is on boards 321, 324, 339.										
	OSA	B3	1TA	QT1	01	D	1TA	QT1	.	01	.
	1SA	B6	B4	B2	B1	D	OTA	QT1	01	B64-	B6-
	1SA	B4	B2	B1	D	OTA	QT1	.	01	B64-	B4-
	1SA	B6	B4	B3	D	OTA	QT1	.	01	BL4	.
	1SA	B6	B4	B2	B1	OTA	QT1	.	01	D-	.
463	A32 or test, one side. Logic for one side A32 is on boards 335, 339, 438.										
	OSA	CR4	D	E	K	05	OE18	1SA	1E18	1TF	
	A32	.	01	.	.	.	.	.	.	.
	1SA	TO	TX	AP	OB5	06	03	A32	OE18	1SA	
	1E18	1TF	A32	.	01	.	.	.	.	.
	OSA	CR3	D	E	K	OB5	05	OE18	1SA	1E18	
	1TF	A32	.	02	.	.	.	.	.	.
	1SA	TO	TX	AP	06	03	A32	OE18	1SA	1E18	
	1TF	A32	.	02	.	.	.	.	.	.
	OSA	C4	E	K	05	OE18	1SA	1E18	1TF	A32	
	1SA	02	TO	TX	AP	D	06	03	A32	OE18	1SA
	1E18	1TF	A32	.	03	OE18	1SA	1E18	1TF	A32	.
	OSA	AC	AP	05	03	A32	OE18	1SA	1E18	1TF	A32
	1SA	TO	TX	K	03	A32	OE18	1SA	1E18	1TF	A32
	A32	.	04	.	.	.	.	.	.	.	.
	OSA	AP	K	05	OE18	1SA	1E18	1TF	A32	.	04
	.	.	.	.	.	.	.	.	.	.	05
464	1SA	TO	TX	AC	CR4	CR3	C4	E	03	A32	
	OE18	1SA	1E18	1TF	A32	05	03	OE18	1SA	1E18	1TF
	OSA	AC	AP	K	05	03	OE18	1SA	1E18	1TF	A32
	A32	.	06	.	.	.	.	.	.	.	.
	1SA	TO	TX	06	A32	OE18	1SA	1E18	1TF	A32	
	OSA	06	AC	AP	K	OE18	1SA	1E18	1TF	A32	.
	1SA	TO	TX	05	03	A32	OE18	1SA	1E18	1TF	.
	A32	.	07	.	.	.	.	.	.	.	.
	OSA	AC	C4	D	E	K	06	05	04	03	
	02	TSO	OE18	1SA	1E18	1TF	A32	.	08	.	08
	1SA	TO	C3	A32	OE18	1SA	1E18	1TF	08	A32	.
	OSA	AC	C4	C3	D	E	K	06	05	04	08
	03	02	OE18	1SA	1E18	1TF	A32	.	09	.	.
	1SA	TO	TSO	A32	OE18	1SA	1E18	1TF	A32	.	09
	OSA	AC	C4	E	K	06	05	04	03	02	
	OE18	1SA	1E18	1TF	A32	.	10

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457 Logic for T01C is on board 206.
 OSA 1TA T01C . 01 . . 1TA T01C . 01 .
 1SA TX B6 B4 C3 TP 1TA T01C . 01 .
 1SA TX C3 TP OTA T01C . 01 B64- . .
 1SA TX B6 B4 C3 OTA T01C . 01 TPA- .
 1SA B6 B4 C3 TP OTA T01C . 01 TX- .
 1SA TX B6 B4 TP OTA T01C . 01 C3- .

458 Logic for TXP- is on board 338.
 OSA 1TA TXP- . 01
 1SA TX TP 1TA TXP- . 01 . . .
 1SA TP OTA TXP- . 01 TX- . . .
 1SA TX OTA TXP- . 01 TPA- . . .

Flip-flop logic tests on logic for AX, A32, B6, B5, B4, B3, B2, B1, CL7, CL6, CL5, CL4, CL3, CL2, CP5, and CP4 flip-flops.

459 AX or test, one side. Logic for one side AX is on boards 315, 316.
 OSA AO OE18 1SA 1E18 1TF AX . 01 .
 1SA AX OE18 1SA 1E18 1TF AX . 01 .

NOTE

Marker 460 will indicate error if FALT network E board is defective.

460 AX and test, one side.
 1SA AX AO OE18 1SA 1E18 OTF AX . 01 AO

461 AX or test, zero side. Logic for zero side AX is on boards 314, 315.
 OSA AX OE18 OSA 1E18 OTF AX . 01 .
 1SA AO OE18 OSA 1E18 OTF AX . 01 .

462 AX and test, zero side.
 1SA OE18 OSA 1E18 1TF AX . 01 AO- .

465 1SA TO C3 D TSO A32 OE18 1SA 1E18 1TF
 A32 . 10
 OSA AC D E K 06 05 04 03 02
 AO OE18 1SA 1E18 1TF A32 11 . . .
 1SA TO C3 TSO A32 OE18 1SA 1E18 1TF A32
 . 11
 OSA TO TX OE18 1SA 1E18 1TF A32 . 12 .
 1SA AP CR4 CR3 C4 E 04 02 A32 AO
 OE18 1SA 1E18 1TF A32 . 12 . . .

466	A32 and test, one side.											
	1SA	TO	TX	AC	AP	CR4	OB5	06	03	A32		
	OE18	1SA	1E18	OTF	A32		CR4	.	02	OB5	.	03
	OMDL	D-	.	05	AP	12	TOB	.		.	.	03
	1SA	TO	TX	AC	AP	CR3	06	03	A32	OE18		
	1SA	1E18	OTF	A32		01	OB5-	.	02	CR3	.	03
	D-	.	05	AP	.	12	TOB	.		.	.	.
	1SA	TO	TX	AC	AP	C4	K	OB5	06	06	05	
	04	02	A32	AO	OE18	1SA	1E18	OTF	A32	.	.	01
	OMDO	OMD	.	04	AP	.	05	AP	.	06	AP	07
	.	12	TOB	TO	.	.	.	.	.	.	.	.
	1SA	TO	TX	AC	AP	C4	D	OB5	06	03	.	
	A32	OE18	1SA	1E18	OTF	A32	.	01	OMDO	ED3	.	03
	C4	.	05	AP	.	12	TOB	.	.	.	.	.
467	1SA	TO	TX	AC	AP	C4	E	K	06	05		
	04	02	A32	AO	OE18	1SA	1E18	OTF	AP	A32	.	02
	OMDO	.	04	AP	.	.	06	AP	.	07	AP	12
	TOB	TO	.	.	.	.	.	.	.	.	.	.
	1SA	TO	TX	AC	AP	CR4	CR3	E	.	K	.	06
	05	04	02	A32	AO	OE18	1SA	1E18	AP	OTF	.	A32
	.	03	OMDL	.	04	AP	.	06	AP	.	.	07
	.	12	TOB	TO	.	.	.	.	.	.	.	AP
	1SA	TO	TX	CR4	CR3	C4	E	06	04	03	.	
	02	A32	AO	OE18	1SA	1E18	OTF	A32	.	04	KB-	
	.	05	AC-	03	.	.	.	12	TOB	TO	.	
	1SA	TO	TX	C4	E	05-	02	A32	AO	OE18	.	
	1SA	1E18	OTF	A32	.	06	06-	.	04	KB-	K-	05
	AC-	.	07	05-	.	12	TOB	.	.	.	.	.
468	1SA	TO	AC	K	06	05	A32	OE18	1SA	1E18		
	OTF	A32	.	07	TXA-	.	TOB	.	.	.	.
	1SA	TO	TX	C4	D	12	A32	OE18	1SA	1E18	OTF	
	A32	.	08	C4	.	04	KB-	.	05	AC-	.	06
	.	07	05-	09	C4	10	C4	.	12	TOB	TO	06
	1SA	TO	TX	C3	TSO	04	A32	AO	OE18	1SA	1E18	
	OTF	A32	.	08	TSO	.	KB-	K-	.	05	AC-	06
	06-	.	07	05-	.	09	C3	DA-	D-	.	.	11
	.	12	TOB	TO	.	.	.	.	.	.	.	AO
	1SA	TO	TX	C3	TSO	.	A32	AO	OE18	1SA	1E18	
	OTF	A32	.	10	DA-	.	KB-	K-	.	05	AC-	06
	06-	.	07	05-	.	08	TSO	C3	.	11	AO	12
	TOB	TO	.	.	.	.	.	.	.	.	.	.
	1SA	TO	TX	C4	TSO	.	A32	OE18	1SA	1E18	OTF	
	A32	.	11	CTS	C3-	04	KB-	K-	.	05	AC-	06
	06-	.	07	05-	.	09	C4	TOB	TO	.	.	.

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469	1SA	TO		TX		C4		C3		A32		OE18		1SA		1E18		OTF	
	A32	.	11	CTS		TSO-			04	KB-		K-		TOB	05	AC-		.	06
	06-	.	07	05-		.	08	C4		.	12	TOB		TO		OE18		1SA	
	1SA	TO		TX		C4		C3		D		TSO		A32		OE18		1SA	
	1E18	OTF		A32		.	11	D		.	04	KB-		K-		.	05	AC-	
	.	06-	06	.	07	05-		.	10	C4		.	12	TOB		TO		.	
	1SA	TO		AP		CR4		CR3		C3		E		04	02			TSO	
	A32	OE18		1SA		1E18		OTF		A32		.	11	OYAC		.	12	TOB	
	TO	.		.		.		.		.		.		.				.
	1SA	TO		AP		CR4		CR3		C4		E		04	02			A32	
	AO	OE18		1SA		1E18		OTF		A32		.	12	TOB		.		.	

470 A32 or test, zero side. Logic for zero side A32 is on boards 337, 338, 339, 438.

	OSA	AP		D		E		K		05		A32		OE18		OSA		1E18	
	OTA	A32		.	01	.		.		.		.		.		OSA		1E18	
	1SA	TO		TX		CR4		OB5		06		03		OE18		OSA		1E18	
	OTF	A32		.	01	.		.		.		.		.		OSA		.	
	OSA	AP		D		E		K		OB5		05		A32		OE18		OSA	
	1E18	OTF		A32		.	02	.		.		.		.		OSA		1E18	
	1SA	TO		TX		CR3		06		03		OE18		OSA		1E18		OTF	
	A32	.	02	.		.		.		.		.		.		OSA		1E18	
	OSA	AP		E		K		05		A32		OE18		OSA		1E18		OTF	
	A32	.	03	.		.		.		.		.		.		OSA		1E18	
	1SA	TO		TX		C4		D		06		03		OE18		OSA		1E18	
	OTF	A32		.	03	.		.		.		.		.		OSA		.	
	OSA	AC		05		A32		OE18		OSA		1E18		OTF		A32		.	04
	1SA	TO		TX		AP		K		03		OE18		OSA		1E18		OTF	
	A32	.	04	.		.		.		.		.		.		OSA		1E18	
	OSA	CR4		CR3		C4		K		05		A32		OE18		OSA		1E18	
	OTF	A32		.	05	.		.		.		.		.		OSA		.	

471	1SA	TO		TX		AC		AP		E		03		OE18		OSA		1E18	
	OTF	A32		.	05	.		.		.		.		.		OSA		1E18	
	OSA	AC		K		05		03		A32		OE18		OSA		1E18		OTF	
	A32	.	06	.		.		.		.		.		.		OSA		1E18	
	1SA	TO		TX		AP		06		OE18		OSA		1E18		OTF		A32	
	.	06		.		.		.		.		.		.		.		.
	OSA	AC		K		A32		OE18		OSA		1E18		OTF		A32		.	07
	1SA	TO		TX		AP		05		03		OE18		OSA		1E18		OTF	
	A32	.	07	.		.		.		.		.		.		OSA		1E18	
	OSA	AC		D		E		K		06		05		04		03		02	
	TSO	A32		OE18		OSA		1E18		OTF		A32		.	08	.		.	

	1SA	TO	C4	C3	OE18	OSA	1E18	OTF	A32	.	08
	OSA	AC	C3	D	E	K	06	05	04	03	
	02	A32	OE18	OSA	1E18	OTF	A32		09	.	
	1SA	TO	C4	TSO	OE18	OSA	1E18	OTF	A32	.	09
	OSA	AC	E	K	06	05	04	03	02	A32	
	OE18	OSA	1E18	OTF	A32	.	10	.	.	.	
472	1SA	TO	C4	C3	D	TSO	OE18	OSA	1E18	OTF	
	A32	.	10	.	.	.	.	.	.	.
	OSA	AC	D	E	K	06	05	04	03	02	
	A32	OE18	OSA	1E18	OTF	A32		11	.	.	
	1SA	C3	TSO	A0	OE18	OSA	1E18	OTF	A32	.	11
	OSA	TX	E	K	05	A32	OE18	OSA	1E18	OTF	
	A32	.	12	.	.	.	.	.	.	.
	1SA	06	04	03	OE18	OSA	1E18	OTF	A32	.	12
473	A32 and test, zero side.										
	1SA	TO	TX	AC	CR3	C4	0B5	06	04	03	
	OE18	OSA	1E18	1TF	A32		01	CR4-		02	0B5
	OMDL	D-	.	05	AP-		12	TXC			.
	1SA	TO	TX	AC	CR4		01	C4			0E18
	OSA	1E18	1TF	A32	.	0B5-	02	06		03	OMDL
	D-	.	05	AP-		TX					.
	1SA	TO	TX	AC	CR4	E		K		0B5	06
	02	OE18	OSA	1E18	1TF	A32		01	OMDO		04
	.	05	AP-	06	AP-		07	AP-			05
	1SA	TO	TX	AC	CR3	E		K		06	05
	OE18	OSA	1E18	1TF	A32		02	OMDO		04	AP-
	AP-	.	06	AP-							.
	1SA	TO	TX	AC	CR4	D		0B5		06	04
	OE18	OSA	1E18	1TF	A32		03	C4-		01	OMDO
	D	.	05	AP-		TX					.
474	1SA	TO	TX	AC	C4	E	K	06	05	02	
	OE18	OSA	1E18	1TF	A32		03	OMDL		04	AP-
	AP-	.	06	AP-							.
	1SA	TO	TX	AP	E	06	03	02		0E18	OSA
	1E18	1TF	A32	.	KB-		05	AC-		06	03
	05-	.	.	.	.						.
	1SA	TO	TX	AP	E	02	0E18	OSA	1E18	1TF	
	A32	.	06	06-	KB-	K-		05	AC-	07	05-
	1SA	TX	AC	AP	K	06	05	OE18	OSA	07	1E18
	1TF	A32	.	07	TOX-	.					.
	1SA	TO	TX	AP	D	OE18	OSA	1E18	1TF	A32	
	.	08	C4-	04	KB-		05	AC-		06	06-
	05-	.	09	C4-							.
	1SA	TO	TX	AP	C4	C3	TSO	OE18	OSA	1E18	
	1TF	A32	.	08	TSO	KB-			AC-		06
	06-	.	07	05-	.		10	DA-	D-	11	A0-

481 B5 or test, one side. Logic for one side B5 is on boards 440, 441.
 OSA B4 B3 OE18 1SA 1E18 1TF B5 01
 1SA T0 B5 B2 B1 OE18 1SA 1E18 1TF B5
 . 01

482 B5 and test, one side.
 1SA T0 B5 B4 B2 B1 OE18 1SA 1E18 OTF
 B5 . 01 TBS B4 B1 OE18 1SA 1E18 OTF B5 . 01
 1SA T0 B5 B3 OE18 1SA 1E18 OTF B5 . 01
 BL4
 1SA B5 B2 B1 OE18 1SA 1E18 OTF B5 . 01
 T0-

483 B5 or test, zero side. Logic for zero side B5 is on board 441.
 OSA B5 B3 OE18 OSA 1E18 OTF B5 01 .
 1SA T0 B2 B1 OE18 OSA 1E18 OTF B5 . 01
 OSA T0 B5 B2 B1 OE18 OSA 1E18 OTF B5
 02
 1SA B3 OE18 OSA 1E18 OTF B5 . 02 . .

484 B5 and test, zero side.
 1SA T0 B3 OE18 OSA 1E18 1TF B5 . 01 B5L4
 . 02 TOA T0 OE18 OSA 1E18 1TF B5 . 02 TOA
 1SA T0 B3 OE18 OSA 1E18 1TF B5 . 02 TOA

485 B4 or test, one side. Logic for one side B4 is on board 440.
 OSA B3 OE18 1SA 1E18 1TF B4 01
 1SA T0 B5 B4 B2 B1 OE18 1SA 1E18 1TF
 B4 . 01

486 B4 and test, one side.
 1SA T0 B4 B2 B1 OE18 1SA 1E18 OTF B4
 . 01 B5- B4 B3 OE18 1SA 1E18 OTF B4
 1SA T0 B5 B4 B3 OE18 1SA 1E18 OTF B4
 . 01 BL4
 1SA B5 B4 B2 B1 OE18 1SA 1E18 OTF B4
 . 01 T0-

487 B4 or test, zero side. Logic for zero side B4 is on board 440.
 OSA B5 B4 B3 OE18 OSA 1E18 OTF B4 . 01
 1SA T0 B2 B1 OE18 OSA 1E18 OTF B4 . 01
 OSA T0 B4 B2 B1 OE18 OSA 1E18 OTF B4
 . 02
 1SA B5 B3 OE18 OSA 1E18 OTF B4 . 02 . .

488 B4 and test, zero side.
 1SA T0 B5 B3 OE18 OSA 1E18 1TF B4 . 01
 B5L4 . 02 TOA T0 OE18 OSA 1E18 1TF B4 . 02
 1SA T0 B5 B3 OE18 OSA 1E18 1TF B4 . 02
 TOA

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489		B3 or test, one side. Logic for one side B3 is on boards 207, 208.
		OSA B2 OE18 1SA 1E18 1TF B3 . 01 . .
		1SA TO B3 OE18 1SA 1E18 1TF B3 . 01 .
		OSA TO OE18 1SA 1E18 1TF B3 . 02 . .
		1SA B3 B2 OE18 1SA 1E18 1TF B3 . 02 .
490		B3 and test, one side.
		1SA TO B3 B2 OE18 1SA 1E18 OTF B3 . 01
		B2 . 02 TOA TO
		1SA TO B3 B2 OE18 1SA 1E18 OTF B3 . 02
		TOA . 01 B2
491		B3 or test, zero side. Logic for zero side B3 is on board 208.
		OSA B3 OE18 OSA 1E18 OTF B3 . 01 . .
		1SA TO B2 OE18 OSA 1E18 OTF B3 . 01 .
492		B3 and test, zero side.
		1SA TO OE18 OSA 1E18 1TF B3 . 01 B2-
		1SA B2 OE18 OSA 1E18 1TF B3 . 01 TO-
493		B2 or test, one side. Logic for one side B2 is on board 340.
		OSA B1 OE18 1SA 1E18 1TF B2 . 01 . .
		1SA TO B2 OE18 1SA 1E18 1TF B2 . 01 .
494		B2 and test, one side. No test for 01 B2-.
		1SA TO B2 B1 OE18 1SA 1E18 OTF B2 . 01
		B1
		1SA B2 OE18 1SA 1E18 OTF B2 . 01 TO-
495		B2 or test, zero side. Logic for zero side B2 is on board 340.
		OSA B2 OE18 OSA 1E18 OTF B2 . 01 . .
		1SA TO B1 OE18 OSA 1E18 OTF B2 . 01 .
		OSA TO B2 B1 OE18 OSA 1E18 OTF B2 . 02
		1SA OE18 OSA 1E18 OTF B2 . 02 . .
496		B2 and test, zero side.
		1SA TO OE18 OSA 1E18 1TF B2 . 01 B1-
		TOA TO
		1SA TO OE18 OSA 1E18 1TF B2 . 02 TOA
		B1-
497		B1 or test, one side. Logic for side B1 is on board 232.
		OSA OE18 1SA 1E18 1TF B1 . 01 . .
		1SA TO B3 B1 OE18 1SA 1E18 1TF B1 . 01

498	B1 and test, one side.										
	1SA	TO	B1	OE18	1SA	1E18	OTF	B1	.	01	B3-
	1SA	TO	B5	B3	OE18	BSC	B1	1E18	OTF	.	B1
	.	01	B1-	.	.	.	.	.	.	.	.
	1SA	B3	B1	OE18	1SA	1E18	OTF	B1	.	01	TO-
499	B1 or test, zero side. Logic for zero side B1 is on boards 232, 441.										
	OSA	B4	B1	OE18	OSA	1E18	OTF	B1	.	01	.
	1SA	TO	B5	B3	OE18	OSA	1E18	OTF	B1	.	01
	OSA	B3	B2	B1	OE18	OSA	1E18	OTF	B1	.	02
	1SA	TO	B6	OE18	OSA	1E18	OTF	B1	.	.	02
	OSA	B6	B2	B1	OE18	OSA	1E18	OTF	B1	.	03
	1SA	TO	B4	B3	OE18	OSA	1E18	OTF	B1	.	03
	OSA	TO	B5	B1	OE18	OSA	1E18	OTF	B1	.	04
	1SA	B6	B2	OE18	OSA	1E18	OTF	B1	.	04	.
500	B1 and test, zero side.										
	1SA	TO	B3	OE18	OSA	1E18	1TF	B1	.	01	TBS
	B5-	.	B3	.	03	TOP	B4-	TOA	TO	.	.
	1SA	TO	B5	B2	OE18	OSA	1E18	1TF	B1	.	01
	B3-	.	B2	.	04	TOA	TO	.	.	.	.
	1SA	TO	B5	B3	B1	OE18	BSC	B1	1E18	.	1TF
	B1	.	B1	.	02	B3	.	03	TOP	B4-	04
	TO	.	.	.	.	.	.	.	.	.	.
	1SA	TO	B6	B3	OE18	OSA	1E18	1TF	B1	.	03
	TOP	.	TBS	B5-	.	02	B3	.	04	TOA	TO
	1SA	TO	B5	B4	B3	B2	OE18	OSA	1E18	.	1TF
	B1	.	B2	.	01	TBS	B4	.	04	TOA	TO
	1SA	TO	B6	B3	B2	OE18	OSA	1E18	1TF	B1	.
	.	04	TOA	.	01	TBS	B5-	.	.	.	.

NOTE

Marker 501 will indicate error E4 if matrix is improperly set.

501	CL7 or test, one side. Logic for one side CL7 is on boards 217, 218, 403, 404.										
	OSA	B5	IP	K	OE18	1SA	1E18	1TF	CL7	.	01
	1SA	CL7	OE18	1SA	1E18	1TF	CL7	.	01	.	.
	OSA	B4	K	S	OE18	1SA	1E18	1TF	CL7	.	02
	1SA	B5	CL7	IP	OE18	1SA	1E18	1TF	CL7	.	02
	OSA	B4	IP	K	OE18	1SA	1E18	1TF	CL7	.	03
	1SA	B5	CL7	S	OE18	1SA	1E18	1TF	CL7	.	03
	OSA	TX	AK	D4	D3	D2	OB4	OB2	O5	.	04
	OE18	1SA	1E18	1TF	CL7	.	.	.	.	.	.
	1SA	B2	CL7	D1	D	E	K	OB3	O3	.	02
	OE18	1SA	1E18	1TF	CL7	.	.	.	.	.	.
	OSA	TX	AC	AK	CP4	CP3	OB2	O2	E2	.	OE18
	1SA	1E18	1TF	CL7
	1SA	B2	CL7	CP2	DSP	D	E	K	OB3	.	03
	E1	E3	E4	OE18	1SA	1E18	1TF	CL7	.	05	.

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502	OSA	TX	AC	AK	OB2	03	E1	E3	OE18	1SA	
	1E18	1TF	CL7	06							
	1SA	B2	CL7	CP4	CP3	CP2	DSP	D	E	K	
	OB3	02	E2	OE18	1SA	1E18	1TF	CL7	06	E1	
	OSA	TX	AC	AK	CP4	CP2	OB2	03	02	E1	
	E2	OE18	1SA	1E18	1TF	CL7		07			
	1SA	B2	CL7	CP3	DSP	D	E	K	OB3	E3	
	E4	OE18	1SA	1E18	1TF	CL7		07			
	OSA	TX	AC	AK	CP5	CP4	OB2	E3	OE18	1SA	
	1E18	1TF	CL7	08							
	1SA	B2	CL7	CP3	CP2	DSP	D	E	K	OB3	
	04	03	02	E1	E2	E4	OE18	1SA	1E18	1TF	
	CL7		08								
	OSA	B6	E	TS0	OE18	1SA	1E18	1TF	CL7		09

503	1SA	AK	CL7	D	K	OE18	1SA	1E18	1TF	CL7	
	OSA	09	TX	AK	E	05	OE18	1SA	1E18	1TF	CL7
	1SA	10	CL7	CL2	D	K	NC	04	OE18	1SA	1E18
	1TF	CL7		10	.	.	.	.	.	.	.
504	CL7 and test, one side.										
	1SA	B2	CL7	D1	D	E	IP	OB3	03	02	
	OE18	1SA	1E18	OTF	CL7	.	01	IP	02	TBS	B5-
	1SA	04	OTC	K-	B6	B5	B4	CL7	CP5	D4	D3
	D2	TX	AC	B6	B5	TS0	S	E6	OE18	1SA	1E18
	OTF	OB4	OB2	05	TS0	03	TBS	B4			
	1SA	B5	B2	01	KB5	D1	D	E	IP	OB3	03
	02	S	OE18		1SA	1E18	OTF	CL7		02	S
	IP		04	OCT	K-						03
	1SA	B5	B2	CL7	D1	D	E	OB3	03	02	
	OE18	1SA	1E18	OTF	CL7	.	02	IP-	01	KB5	B5
	1SA	03	S-	04	OCT	K-					
	02	B4	B2	CL7	D1	D	E	IP	OB3	03	
	.	04	1SA	1E18	OTF	CL7	.	02	TBS-	01	IP
	.	OCT	.	K-

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508	1SA OB4 OTF 1SA NC . KED2 1SA K 1SA . 1SA E OE18 K	CL7 B2 CL7 CL7 B2 CPL5 E CL7 B2 1E18 CPL0 B2 K 1SA . 04	CP3 OB3 . CL2 OB3 . CP3 OB4 OTF CP4- CL7 NC 1E18 OL4	DSP O5 07 032 CP4 04 01 KB5 KB CP2 OB3 CL7 . CP5 O4 OTF O4B	D4 O3 . CP3 CP2 CP3 CP3 O3 . 08 . 08 10	D3 E3 KB5 CP2 OE18 K . D4 O2 OLO . CP3 O3 . 08 10	D2 E4 KB DSP 1SA . . D3 E1 . CP2 O2 CP5 K SU1	D OE18 K D 1E18 02- . D2 E2 KB5 . DSP E1 . KED2	E 1SA . E OTF . . D E4 KB D1 E2 KB5 E	K 1E18 . K CL7 KSU1 . E OE18 K . D E4 KB . D 1SA . O4 1SA TBS . D E4 KB . OB3 1E18 . O4 CL7 . D2 CL7 . TSO KB . OB2 . 10
509	1SA E 1E18 OL4 1SA O3 1E18 B4 1SA E OE18 K 1SA O4 OTF 1SA O3 . 08	B2 K OTF O4B B6 B2 OTF . AC K 1SA . TX B2 CL7 CL7 O2 TXF	CL7 NC CL7 O4 B5 O2 CL7 . B2 NC 1E18 OL4 CL7 O3 . CP3 CP2 E1 B2-	CL2 OB3 . . B4 TSO . CL7 OB3 OTF O4B CP3 O2 TXF CP2 E2 . 01	CP4 O4 08 CPL4 O3 CL7 S OSH . CP3 O3 . 08 10 DSP E2 . D OE18 KB	CP3 O3 . 10 CP3 E1 . 01 . CP3 O3 . 08 10 DSP E2 . O1 D OE18 KB	CP2 O2 KB5 K SU1 CP2 E2 KB5 . CP2 O2 AC K SU1 D E4 KB5 E 1SA K	DSP E2 KB KED2 OB2 E4 B5 . DSP E1 . KED2 E OE18 KB K E 1E18 . . D4 1E18 B4 NC . O1 CP5 1SA 1E18 OTF	D1 OE18 K E O5 OE18 . D1 E2 KB5 E K 1SA K OB3 OTF . D3 OTF . O4 KB5 . NC CL7 . D2 CL7 . TSO KB . OB2 . 10	
510	1SA OB4 . 1SA OE18 K 1SA O4 KSU1	TX OB2 KSUO AK 1SA . AC TSO . 09 10 01	AC O5 . B6 1E18 KSU1 B6 S KB5	B5 S KB5 CL7 OTF AK B5 E6 B5	B4 E6 B5 CL2 CL7 . B4 OE18 . 03 09 03	CL7 OE18 . D . . CL7 1SA TBS	CP5 1SA TBS K T32 . CL2 1E18 B4	D4 1E18 B4 NC . O1 CP5 1SA 1E18 OTF	D3 OTF . O4 KB5 . NC CL7 . D2 CL7 . TSO KB . OB2 . 10	

	1SA	CL7	CL2	CP2	DSP	D	K	NC	OB3	05	
	04	03	E1	E3	E4	OE18	1SA	1E18	OTF	CL7	
	.	10	05	01	KB5	KB	K	KSU0	AKA-	AK-	
	1SA	CL7	CP2	DSP	D	K	NC	OB3	04	10	CL2-
	E1	E3	E4	OE18	1SA	1E18	OTF	CL7	.	.	.
	.	01	KB5	KB	K	09	KSU0	AKA-	AK-	.	.
511	1SA	CL7	CL2	CP2	DSP	D	K	OB3	04	03	
	E1	E3	E4	OE18	1SA	1E18	OTF	CL7	.	10	NC-
	.	01	KB5	KB	K	09	KSU0	AKA-	AK	.	.
	1SA	TX	CL7	CL2	D	K	NC	OE18	1SA	09	1E18
	OTF	CL7	.	10	04X	.	01	KB5	KB	.	KSU0
	AKA-	AK-	.	.	.	.	.	.	.	.	.
512	CL7 or test, zero side. Logic for zero side is on board 218.										
	OSA	B5	B4	CL7	K	OE18	OSA	1E18	OTF	CL7	
	.	01	.	.	.	.	.	.	.	.	.
	1SA	IP	TP	OE18	OSA	1E18	OTF	CL7	.	01	.
	OSA	CL7	IP	K	OE18	OSA	1E18	OTF	CL7	.	02
	1SA	B5	B4	TP	OE18	OSA	1E18	OTF	CL7	.	02
	OSA	B4	CL7	IP	TP	OE18	OSA	1E18	OTF	CL7	.
	.	03	.	.	.	.	.	.	.	.	.
	1SA	B5	K	OE18	OSA	1E18	OTF	CL7	.	03	.
513	CL7 and test, zero side.										
	1SA	TP	OE18	OSA	1E18	1TF	CL7	.	01	IP-	02
	B4-	.	03	TPA	.	.	.	.	.	.	.
	1SA	B5	IP	K	TP	OE18	OSA	1E18	1TF	CL7	.
	.	01	KB5	.	03	TPA	TP	OE18	OSA	1E18	1TF
	1SA	B5	B4	K	TPA	TP	OE18	OSA	1E18	1TF	CL7
	.	02	KA	.	03	TPA	TP	OE18	OSA	1E18	1TF
	1SA	B5	K	TP	OE18	OSA	1E18	1TF	CL7	.	03
	TPA	.	.	.	.	.	.	.	.	.	.
514	CL6 or test, one side. Logic for one side CL6 is on boards 316, 317, 403.										
	OSA	B5	CL7	K	OE18	1SA	1E18	1TF	CL6	.	01
	1SA	B1	CL6	OE18	1SA	1E18	1TF	CL6	.	01	.
	OSA	B1	CL7	K	OE18	1SA	1E18	1TF	CL6	.	02
	1SA	B5	CL6	OE18	1SA	1E18	1TF	CL6	.	02	.
	OSA	TX	AK	IP	OB4	OB2	05	E1	E3	OE18	.
	1SA	1E18	1TF	CL6	03	.	.	.	.	.	.
	1SA	B2	CL6	CP5	CP4	CP3	CP2	D	E	K	.
	OB3	04	E2	OE18	1SA	1E18	1TF	CL6	.	03	.
	OSA	TX	AK	CP5	CP3	CP2	OB4	OB2	05	E3	.
	OE18	1SA	1E18	1TF	CL6	.	04	.	.	.	.
	1SA	B2	CL6	CP4	D	E	K	OB3	04	03	.
	02	E1	E2	E4	OE18	1SA	1E18	1TF	CL6	.	04
	OSA	TX	AK	CP4	OB4	OB2	05	03	02	OE18	.
	1SA	1E18	1TF	CL6	.	05

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515	1SA OE18	B2 1SA	CL6 1E18	D 1TF	E CL6	IP .	K 05	OB3 .	04 .	E6 .	
516	CL6 and test, one side.										
	1SA	B2	CL7	CL6	CP5	CP4	CP3	CP2	D	E	
	IP	OB3	04	OE18	1SA	1E18	OTF	CL6	.	01	CL7
	.	02	CL7	.	05	OCT	K-	.	.	.	.
	1SA	TX	AK	B5	B1	CL6	OB4	OB2	05	.	E3
	E6	OE18	1SA	1E18	OTF	CL6	.	01	KB5	02	B1
	1SA	TX	AK	B5	CL6	K	OB4	OB2	05	.	E3
	E6	OE18	1SA	1E18	OTF	CL6	.	02	KA	.	.
	1SA	B2	CL6	CP4	CP3	CP2	D	E	K	03	OB3
	04	E2	OE18	1SA	1E18	OTF	CL6	.	03	CP5-	01
	KB5	KB	K	.	02	KA	K	02	IP-	.	.
	1SA	B2	CL6	CP5	D	E	K	OB3	04	E6	.
	OE18	1SA	1E18	OTF	CL6	.	03	CPL0	.	01	KB5
	K	.	02	KA	K	.	05	IP-	.	.	.
517	1SA	B2	CL6	CP5	CP4	D	E	K	OB3	04	
	03	02	E1	E2	E4	OE18	1SA	1E18	OTF	CL6	
	.	04	CP5	D	KB5	K	.	02	KA	K	
	1SA	B2	CL6	E	K	OB3	.	04	04	03	02
	E3	OE18	1SA	1E18	OTF	CL6	.	04	CPL3	.	01
	KB	K	.	02	KA	K	.	.	.	.	KB5
	1SA	B2	CL6	CP4	D	E	K	OB3	04	04	E1
	E2	E4	OE18	1SA	1E18	OTF	CL6	.	04	032-	.
	KB5	KB	K	.	02	KA	K	05	IP-	.	01
	1SA	B2	CL6	D	E	IP	K	OB3	04	04	03
	E3	E6	OE18	1SA	1E18	OTF	CL6	.	05	032	.
	KB5	KB	K	.	02	KA	K	.	.	.	01
	1SA	TX	AK	B5	B1	CL7	CL6	IP	OB4	.	OB2
	05	04	E6	OE18	1SA	1E18	OTF	CL6	.	05	OCT
518	1SA	B2	CL6	D	E	IP	K	OB3	E6	OE18	
	1SA	1E18	OTF	CL6	.	05	04A-	.	01	KB	
	.	02	KA	K	.	.	.	.	.	.	K
519	CL6 or test, zero side. Logic for zero side CL6 is on boards 316, 317.										
	OSA	CL6	K	OE18	OSA	1E18	OTF	CL6	.	01	.
	1SA	CL7	OE18	OSA	1E18	OTF	CL6	.	01	.	.
	OSA	CL6	OB3	OE18	OSA	1E18	OTF	CL6	.	02	.
	1SA	K	OE18	OSA	1E18	OTF	CL6	.	02	.	.

520	CL6 and test, zero side.											
	1SA	OE18	OSA	1E18	1TF	CL6	.	01	CL7-	.	02	KA-
	K-	.	.	.	.	.	.	.	.	.	.	.
	1SA	CL7	K	OB3	OE18	OSA	1E18	1TF	CL6	.	.	01
	KA	.	02	OB3	.	.	.	.	.	.	.	.
	1SA	OE18	OSA	1E18	1TF	CL6	.	02	KA-	.	01	CL7-
521	CL5 or test, one side. Logic for one side CL5 is on boards 329, 330, 332, 337.											
	OSA	B5	CL6	K	OE18	1SA	1E18	1TF	CL5	.	.	01
	1SA	B1	CL5	OE18	1SA	1E18	1TF	CL5	.	01	.	.
	OSA	B1	CL6	K	OE18	1SA	1E18	1TF	CL5	.	.	02
	1SA	B5	CL5	OE18	1SA	1E18	1TF	CL5	.	.	02	.
	OSA	B4	04	OE18	1SA	1E18	1TF	CL5	.	.	03	.
	1SA	B6	B5	B3	B2	B1	CL5	K	MC	.	.	OE18
	1SA	1E18	1TF	CL5	.	03	.	.	.	.	.	.
	OSA	B3	OE18	1SA	1E18	1TF	CL5	.	04	.	.	OE18
	1SA	B6	B4	B2	B1	CL5	K	MC	04	.	.	OE18
	1SA	1E18	1TF	CL5	.	04	.	.	.	.	.	CL5
	OSA	B4	B2	B1	CL3	OE18	1SA	1E18	1TF	.	.	CL5
	1SA	05	B6	B5	B3	CL5	K	OE18	1SA	1E18	1TF	.
	CL5	.	05	.	.	.	.	.	.	.	.	.
522	CL5 and test, one side.											
	1SA	CL6	CL5	OE18	1SA	1E18	OTF	CL5	.	01	CL6	.
	.	02	CL6	.	.	.	.	.	.	.	.	.
	1SA	B5	B1	CL5	CL3	OE18	1SA	1E18	OTF	.	CL5	.
	.	01	KB5	.	02	B1	.	.	.	.	.	.
	1SA	CL5	CL3	K	OE18	1SA	1E18	OTF	CL5	.	.	02
	KA	.	01	KB5	K	.	.	.	.	.	.	.
	1SA	B6	B5	CL5	CL3	K	MC	OE18	1SA	1E18	.	.
	OTF	CL5	.	03	BL0	.	02	KA	K	.	.	.
	1SA	B6	B5	B3	B2	B1	CL5	K	OE18	1SA	.	.
	1E18	OTF	CL5	.	03	MC-	.	.	.	.	.	.
	1SA	B6	B5	B3	B2	B1	CL5	K	MC	04	.	.
	OE18	1SA	1E18	OTF	CL5	.	03	04A
	1SA	B3	B2	B1	CL6	CL5	MC	OE18	1SA	1E18	.	.
	OTF	CL5	.	03	KTRS	.	01	CL6

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523	1SA	B6	B4	B2	B1	CL6	CL5	MC	04	OE18	
	1SA	1E18	OTF	CL5	.	04 KA-	CL5	01 CL6			
	1SA	B6	B4	B2	B1	CL5	.	04	OE18	1SA	
	1E18	OTF	CL5	.	04 MC-	.	01 KB5	KB	K	.	
	1SA	B6	B4	B2	B1	CL5	.	01 K	MC	OE18	1SA
	1E18	OTF	CL5	.	04 04A-	.	01 KB5	KB	K	.	
	1SA	B2	B1	CL5	K	MC	04	OE18	1SA	1E18	
	OTF	CL5	.	04 T1	B64-	.	01 KB5	KB	K	.	
	1SA	B6	B4	B3	CL5	K	MC	04	OE18	1SA	
	1E18	OTF	CL5	.	04 T1	BL4	.	01 KB5	KB	K	
	1SA	02 KA	K	.	.	.	.	.	.	.
	CL5	B6	B5	B2	CL5	K	OE18	1SA	1E18	OTF	
		.	05 BL3	.	02 KA	K	.	.	.	.
524	1SA	B6	B5	B3	CL5	CL3	K	OE18	1SA	1E18	
	OTF	CL5	.	05 CL3	.	02 KA	K	.	.	.	
	1SA	B3	CL6	CL5	OE18	1SA	1E18	OTF	CL5	.	05
	KTRS	.	01 CL6	.	02 CL6	.	.	.	.	.
525	CL5 or test, zero side. Logic for zero side CL5 is on boards 329, 330, 331.										
	OSA	CL5	K	OE18	OSA	1E18	OTF	CL5	.	01	.
	1SA	TO	CL6	OE18	OSA	1E18	OTF	CL5	.	01	.
	OSA	B4	CL5	LP	OE18	OSA	1E18	OTF	CL5	.	02
	1SA	TO	B6	B5	B3	K	OE18	OSA	1E18	OTF	
	CL5	.	02	.	.	.	.	.	.	.
	OSA	B4	B3	B1	CL5	OE18	OSA	1E18	OTF	CL5	
	.	03	.	.	.	.	.	.	.	.
	1SA	TO	B6	B5	B2	K	OE18	OSA	1E18	OTF	
	CL5	.	03	.	.	.	.	.	.	.
	OSA	TO	B6	B5	B2	CL6	CL5	OE18	OSA	1E18	
	OTF	CL5	.	04	.	.	.	.	.	.
	1SA	B4	B1	LP	OE18	OSA	1E18	OTF	CL5	.	04
526	CL5 and test, zero side.										
	1SA	TO	B6	B5	B3	OE18	OSA	1E18	1TF	CL5	
	.	01 CL6-	.	02 KTRS	K-	.	04 TOA	TO	.	.	
	1SA	TO	B4	B1	CL6	K	LP	OE18	OSA	1E18	
	1TF	CL5	.	01 KA	.	04 TOA	TO	.	.	.	
	1SA	TO	B6	B5	B3	B2	CL6	K	LP	OE18	
	OSA	1E18	1TF	CL5	.	02 LP	.	01 KA	K	.	03
	BL5	B3	.	04 TOA	TO	.	.	.	.	.
	1SA	TO	B6	B5	B3	B2	B1	CL6	CL5	K	
	MC	OE18	BSC	CL5	1E18	1TF	CL5	.	02 CL5	.	01

	KA	K	.	04	TOA	TO	.	.	.	.	.	.	02
	1SA	TO	B4		B3	OE18	OSA	1E18	1TF	CL5	.	.	
	KTRS		CL6-			TOA	TO						
	1SA	TO	B6	01	B5	B1	CL6	K	OE18	OSA	1E18		
	1TF	CL5	.		B3-	.	KA	K	.	TOA	TO		
527	1SA	TO	B6		B5	B3	B1	CL6	K	LP	OE18		
	OSA	1E18	1TF		CL5	.	BL5	.	01	K	K		02
	LP		TOA	04	TO	.							
	1SA	TO	B4		B2	OE18	OSA	1E18	1TF	CL5	.		03
	KTRS		CL6-	01	.	TOA	TO						
	1SA	TO	B4		B1	LP	OE18	OSA	1E18	1TF	CL5		
	.	04	TOA		CL6-	.	.	.	.	.	.
528	CL4 or test, one side. Logic for one side CL4 is on boards 337, 338, 339.												
	OSA	B5	CL5		K	OE18	1SA	1E18	1TF	CL4	.		01
	1SA	B2	B1		CL4	OE18	1SA	1E18	1TF	CL4	.		01
	OSA	B2	B1		CL5	K	OE18	1SA	1E18	1TF	CL4		
	.	02	.		.	.	.	.	.	.	.
	1SA	B5	CL4		OE18	1SA	1E18	1TF	CL4	.	02	.	
	OSA	XO	OE18		1SA	1E18	1TF	CL4	.	03	.	.	
	1SA	CL4	K		OE18	1SA	1E18	1TF	CL4	.	03	.	
529	CL4 and test, one side.												
	1SA	B5	B2		B4	CL4	OE18	1SA	1E18	OTF	CL4		
	.	01	B5		KA-	K-		02	B2	.	.		
	1SA	B5	B1	03	CL4	OE18	1SA	1E18	OTF	CL4	.		02
	B1	.	B5	01	CL4	KA-	K-		.	.	.		
	1SA	CL5	CL4		OE18	1SA	1E18	OTF	CL4	.	02	CL5	
	.	03	KA-		.	.	.	.	.	.	.	.
	1SA	CL2	IP		OE18	BSC	CL4	1E18	OTF	CL4	.		02
	CL4-	.	KA-	03	K-	.	.	.	.	.	.	.
	1SA	B5	CL4		K	XO	OE18	1SA	1E18	OTF	CL4		
	.	02	KA		XO	.	.	.	.	.	.	.
	1SA	B5	B2	03	B1	CL5	CL4	OE18	1SA	1E18	OTF		
	CL4	.	KA-		.	.	.	.	.	.	.
530	CL4 or test, zero side. Logic for zero side CL4 is on boards 337, 339.												
	OSA	CL4	CL2		IP	K	OE18	OSA	1E18	OTF	CL4		
	.	01	.		.	.	.	.	.	.	.
	1SA	B3	B2		B1	CL5	CL3	OE18	OSA	1E18	OTF		
	CL4	.	.	01	.	.	.	.	.	.	.
	OSA	B3	B2		B1	CL5	CL4	CL3	K	OE18	OSA		
	1E18	OTF	CL4		.	.	.	.	.	.	.
	1SA	CL2	IP		OE18	OSA	1E18	OTF	CL4	.	02	.	
	OSA	CL4	OE18		OSA	1E18	OTF	CL4	.	03	.	.	
	1SA	K	XO		OE18	OSA	1E18	OTF	CL4	.	03	.	

535 CL3 and test, one side.

1SA	B6	B3	CL4	CL3	OE18	1SA	1E18	OTF	CL3
. 01	CL4	.	06 KA-	K-	.	XC	OE18	1SA	1E18
1SA	B5	B4	B2	B1	CL3	.	.	.	.
OTF	CL3	.	01 KB5	.	.	LP	OE18	1SA	1E18
1SA	B6	B5	B3	CL3	K	.	.	.	.
OTF	CL3	.	02 CL5-	.	04 LP	.	05 S-	.	06 TRC
B5	.	.	.	.	.	.	.	.	.
1SA	B6	B5	B3	CL5	CL3	K	LP	S	OE18
1SA	1E18	OTF	CL3	.	02 S	.	03 LP	.	05 CL5
. 06	TRC	B5	.	.	.	.	.	.	.
1SA	B6	B5	B3	CL5	CL3	K	OE18	1SA	1E18
OTF	CL3	.	02 LP-	.	03 S-	.	04 CL5	.	06 TRC
B5	.	.	.	.	.	.	.	.	.
1SA	B6	B5	B3	CL3	K	S	OE18	1SA	1E18
OTF	CL3	.	03 CL5-	.	04 S	.	05 LP-	.	06 TRC
B5	.	.	.	.	.	.	.	.	.

536

1SA	B4	B2	B1	CL4	CL3	LP	XC	S	OE18
1SA	1E18	OTF	CL3	.	05 KTRS	.	01 CL4	.	.
1SA	B6	B3	CL4	CL3	OE18	1SA	1E18	OTF	CL3
. 06	KA-	.	01 CL4	.	.	.	.	.	.
1SA	B6	B3	CL5	CL3	K	LP	XC	OE18	1SA
1E18	OTF	CL3	.	06 XC	.	01 KB5	KB	K	.
1SA	B4	B3	CL3	K	OE18	1SA	1E18	OTF	CL3
. 06	TRC	.	01 KB5	KB	K	.	.	.	.
1SA	B6	B2	B1	CL5	CL3	K	LP	OE18	1SA
1E18	OTF	CL3	.	06 BL3	.	01 KB5	KB	K	.

537 CL3 or test, zero side. Logic for zero side CL3 is on board 314.

OSA	CL3	K	OE18	OSA	1E18	OTF	CL3	.	01 .
1SA	T0	CL4	OE18	OSA	1E18	OTF	CL3	.	01 .
OSA	B5	CL3	OE18	OSA	1E18	OTF	CL3	.	02 .
1SA	T0	B6	B3	B2	B1	K	OE18	OSA	1E18
OTF	CL3	.	02 .	.	.	.	.	.	.
OSA	T0	B6	B3	B2	B1	CL4	CL3	OE18	OSA
1E18	OTF	CL3	.	03 1E18
1SA	B5	OE18	OSA	1E18	OTF	CL3	.	03 .	.

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538	CL3 and test, zero side.										
1SA	TO	B6	B3	B2	B1	OE18	OSA	1E18	1TF		
CL3	.	01 CL4-	.	02 KA-	K-	.	03 TOA	TO	.		
1SA	TO	B5	CL4	K	OE18	OSA	1E18	1TF	CL3		
.	01 KA	.	03 TOA	TO	.	.	OSA	1E18	1TF		
1SA	TO	B6	B3	B2	B1	OE18	OSA	1E18	1TF		
CL3	.	02 KA-	.	01 CL4-	.	03 TOA	TO	.	.		
1SA	TO	B5	B3	B2	B1	CL4	K	OE18	OSA		
1E18	1TF	CL3	.	02 TRC	.	01 KA	K	.	03 TOA		
TO	.	.	.	.	.	.	.	.	.
1SA	TO	B6	CL4	K	OE18	OSA	1E18	1TF	CL3		
.	02 BLO	.	01 KA	K	.	03 TOA	TO	.	.		
1SA	TO	B5	OE18	OSA	1E18	1TF	CL3	.	03 TOA		
.	01 CL4-	.	.	.	.	.	.	.	.
539	CL2 or test, one side. Logic for one side CL2 is on boards 230, 233.										
OSA	CL3	K	OE18	1SA	1E18	1TF	CL2	.	01 .		
1SA	CL2	OE18	1SA	1E18	1TF	CL2	.	01 .	1E18		
OSA	TO	AK	CL7	IP	03	02	1E18	1SA	1E18		
1TF	CL2	.	02 K	04	OE18	1SA	1E18	1TF	CL2		
1SA	CL2	D	.	.	.	.	.	.	.
.	02 .	.	.	.	.	.	.	.	.
OSA	TO	AK	CL7	04	OE18	1SA	1E18	1TF	CL2		
.	03 .	.	.	.	.	.	.	.	.
1SA	CL2	D	IP	K	03	02	OE18	1SA	1E18		
1TF	CL2	.	03 .	.	.	.	.	.	.
540	CL2 and test, one side.										
1SA	CL3	CL2	D	03	02	OE18	1SA	1E18	OTF		
CL2	.	01 CL3	.	02 KIOC	KIO	K-	.	03 KIOC	KIO		
K-	.	.	.	.	.	.	.	.	.
1SA	TO	AK	CL7	CL2	IP	K	04	OE18	1SA		
1E18	OTF	CL2	.	01 KA	.	.	.	.	.
1SA	AK	CL7	CL3	CL2	04	OE18	1SA	1E18	OTF		
CL2	.	02 KIOC	.	01 CL3	.	.	.	.	.
1SA	CL2	D	IP	K	04	OE18	1SA	1E18	OTF		
CL2	.	02 IPO	IP	.	01 KA	K	.	.	.		
1SA	TO	CL2	D	K	03	02	OE18	1SA	1E18		
OTF	CL2	.	02 IPO	TO	.	01 KA	K	.	03 TOA		
TO	.	.	.	.	.	.	.	.	.
1SA	AK	CL7	CL3	CL2	IP	03	02	OE18	1SA		
1E18	OTF	CL2	.	03 KIOC	.	01 CL3	.	.	.		
1SA	TO	CL2	D	IP	K	03	02	OE18	1SA		
1E18	OTF	CL2	.	03 TOA	.	01 KA	K	.	.		

541	1SA CL2	CL2 .	D 03 OL4	IP .	K 01 KA	04 K	OE18 .	1SA 02 IPO	1E18 IP	OTF .
542	CL2 or test, zero side. Logic for zero side CL2 is on boards 233, 234.									
	OSA	CL2	K	OE18	OSA	1E18	OTF	CL2	.	01 .
	1SA	CL3	OE18	OSA	1E18	OTF	CL2	.	01 .	1E18
	OSA	AK	CL2	D	04	RC	TP	OE18	OSA	1E18
	OTF	CL2	.	02	.	.	.	.	.	.
	1SA	E	K	OE18	OSA	1E18	OTF	CL2	.	02 .
	OSA	AK	CL2	D	QC	TP	OE18	OSA	1E18	OTF
	CL2	.	03	.	.	.	.	.	.	.
	1SA	E	K	04	OE18	OSA	1E18	OTF	CL2	. 03
	OSA	CL2	E	OE18	OSA	1E18	OTF	CL2	04	1E18
	1SA	AK	D	K	QC	RC	TP	OE18	OSA	1E18
	OTF	CL2	.	04	.	.	.	.	.	.
543	CL2 and test, zero side.									
	1SA	AK	D	OE18	OSA	1E18	1TF	CL2	.	01 CL3-
	.	02 KA-	K-	.	04 KSUO	KED2	K-	.	.	.
	1SA	CL3	E	K	QC	RC	TP	OE18	OSA	1E18
	1TF	CL2	.	01 KA	OSA	1E18	1TF	CL2	.	02 KA- . 01
	1SA	E	OE18	OSA	1E18	1TF	CL2	.	02 KA-	.
	CL3-	.	.	.	RC	OE18	OSA	1E18	1TF	CL2
	1SA	CL3	E	K	04	QC	03 04A-	04-	04-	1E18
	.	02 RC	.	01 KA	K	K	OE18	OSA	03 QC	03 1E18
	1SA	CL3	E	04A	.	01 KA	K	03 1E18	1TF	CL2
	CL2	CL3	02	04A	.	01 KA	TP	OE18	OSA	1E18
	1SA	CL3	E	K	01	TP	OE18	OSA	1E18	1TF
	.	02 TPA	.	01 KA	K	K	.	.	.	.
	1SA	E	04	OE18	OSA	1E18	1TF	CL2	.	03 KA-
	.	01 CL3-	.	.	.	.	.	.	.	.
	1SA	CL3	E	K	RC	OE18	OSA	1E18	1TF	CL2
	.	03 04A-	.	01 KA	K	.	02 RC	.	.	.
544	1SA	CL3	E	K	04	TP	OE18	OSA	1E18	1TF
	CL2	.	03 TPA	.	01 KA	K	.	.	.	.
	1SA	E	QC	RC	TP	OE18	OSA	1E18	1TF	CL2
	.	04 KSUO	.	01 CL3-	.	.	.	.	.	.
545	CP5 or test, one side. Logic for one side CP5 is on boards 213, 214, 404.									
	OSA	B4	CL6	K	TSO	OE18	1SA	1E18	1TF	CP5
	.	01	.	.	.	.	.	.	.	.
	1SA	CP5	FS	OE18	1SA	1E18	1TF	CP5	.	01 .
	OSA	TX	AK	CP4	CP3	CP2	OB4	OB2	05	E1
	E3	OE18	1SA	1E18	1TF	CP5	02	.	.	.
	1SA	B2	CP5	D	E	K	OB3	E2	OE18	1SA
	1E18	1TF	CP5	.	02

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546	CP5 and test, one side.										
	1SA	B2	CL6	CP5	D	E	FS	OB3	E2	OE18	
	1SA	1E18	OTF	CP5	.	01	CL6	.	02	OCT	K-
	1SA	TX	AK	B4	CP5	CP4	CP3	CP2	OB4	OB2	
	05	TSO	E6	OE18	1SA	1E18	OTF	CP5	.	01	KFST
	1SA	B2	D	E	FS	K	OB3	E2	OE18	BSC	
	CP5	1E18	OTF	CP5	.	02	CP5-	.	01	KFST	5
	1SA	B2	CP5	CP4	CP3	CP2	D	E	FS	K	
	OB3	E6	OE18	1SA	1E18	OTF	CP5	.	02	CPL7	.
	KFST	KT32	K	.	CL6	CP5	OB4	OB2	05	TSO	01
	1SA	TX	AK	B4	CL6	CP5	OB4	OB2	05	TSO	
	E2	OE18	1SA	1E18	OTF	CP5	.	02	OCT	.	
547	CP5 or test, zero side. Logic for zero side CP5 is on board 213.										
	OSA	B4	CP5	K	TSO	OE18	OSA	1E18	OTF	CP5	
	.	01	.	.	.	.	.	.	.	.
	1SA	CL6	FS	OE18	OSA	1E18	OTF	CP5	.	01	.
	OSA	CL7	CP5	OE18	OSA	1E18	OTF	CP5	.	02	.
	1SA	K	OE18	OSA	1E18	OTF	CP5	.	02	.	.
548	CP5 and test, zero side.										
	1SA	FS	OE18	OSA	1E18	1TF	CP5	.	01	CL6-	02
	CRS	K-	.	.	.	.	.	.	.	.	.
	1SA	B5	CL7	CL6	K	TSO	OE18	OSA	1E18	1TF	
	CP5	.	01	KFST	.	02	CRS	CL7	.	.	.
549	CP4 or test, one side. Logic for one side CP4 is on boards 321, 403.										
	OSA	B4	CL5	K	TSO	OE18	1SA	1E18	1TF	CP4	
	.	01	.	.	.	.	.	.	.	.
	1SA	CP4	FS	OE18	1SA	1E18	1TF	CP4	.	01	.
	OSA	TX	AK	CP3	CP2	OB4	OB2	05	E3	OE18	
	1SA	1E18	1TF	CP4	.	02	.	.	.	.
	1SA	B2	CP4	D	E	K	OB3	E1	E2	E4	
	OE18	1SA	1E18	1TF	CP4	.	02	.	.	.	
550	CP4 and test, one side.										
	1SA	B2	CL5	CP4	D	E	FS	OB3	E1	E2	
	E4	OE18	1SA	1E18	OTF	CP4	.	01	CL5	.	02
	K-	.	.	.	.	.	.	.	.	.
	1SA	TX	AK	B4	CP4	CP3	CP2	OB4	OB2	05	
	TSO	E3	OE18	1SA	1E18	OTF	CP4	.	01	KFST	.
	1SA	B2	CP4	CP3	CP2	D	E	FS	K	OB3	
	E3	OE18	1SA	1E18	OTF	CP4	.	02	CPL3	.	01
	KT32	K	.	.	.	.	.	.	.	.
	1SA	TX	AK	B4	CL5	CP4	OB4	OB2	05	TSO	
	E1	E2	E4	OE18	1SA	1E18	OTF	CP4	.	02	OCT

551 CP4 or test, zero side. Logic for zero side CP4 is on boards 320, 321, 404.

OSA	B4	CP4	K	TSO	OE18	OSA	1E18	OTF	CP4	
1SA	CL5	FS	OE18	OSA	1E18	OTF	CP4	01	1E18	
OSA	B2	CL7	CP4	D	E	OB3	OE18	OSA	1E18	
OTF	CP4		02							
1SA	TX	AK	CP3	CP2	K	OB4	OB2	05	E6	
OE18	OSA	1E18	OTF	CP4		02				
OSA	TX	AK	CP4	CP3	CP2	OB4	OB2	05	E1	
E3	OE18	OSA	1E18	OTF	CP4			03		
1SA	B2	CL7	D	E	K	OB3	E2	OE18	OSA	
1E18	OTF	CP4		03						

552 CP4 and test, zero side.

1SA	B2	D	E	FS	OB3	E2	OE18	OSA	1E18	
1TF	CP4		01	CL5-		02	CRS	K-	03	OCT
1SA	TX	AK	B4	CL7	CL5	CP3	CP2	K	OB4	
OB2	05	TSO	E6	OE18	OSA	1E18	1TF	CP4		01
KFST		02	CRS	CL7						
1SA	TX	AK	B4	CL7	CP3	CP2	OB4	OB2	05	
TSO	E6	OE18	OSA	1E18	1TF	CP4		02	CRS	
1SA	B2	CL7	CL5	CP3	CP2	D	E	FS	K	
OB3	E6	OE18	OSA	1E18	1TF	CP4		03	CPL7	01
KFST	KT32	K		02	CRS	CL7				
1SA	TX	AK	B4	CL7	K	OB4	OB2	05	TSO	
E2	OE18	OSA	1E18	1TF	CP4		03	OCT		02
CL7										

553 Flip-flop logic tests. Flip-flop logic tests on logic for AC and AK flip-flops. AC or test, one side. Logic for one side AC is on boards 237, 238, 239.

OSA	TX	E	K	05	04	OE18	1SA	1E18	1TF	
AC		01								
1SA	AC	OFLO	06	OE18	1SA	1E18	1TF	AC		01
OSA	TX	E	K	OE18	1SA	1E18	1TF	AC		02
1SA	AC	OFLO	06	05	04	OE18	1SA	1E18	1TF	
AC		02								
OSA	TX	E	K	06	05	04	03	02	OE18	
1SA	1E18	1TF	AC		03					
1SA	AC	OFLO	OE18	1SA	1E18	1TF	AC		03	
OSA	TX	AK	D4	OB4	OB2	05	04	02	OE18	
1SA	1E18	1TF	AC		04					
1SA	TO	AC	B2	CL7	D	E	K	OB3	03	
OE18	1SA	1E18	1TF	AC		04				
OSA	TX	AK	D4	OB4	OB2	05	04	03	OE18	
1SA	1E18	1TF	AC		05					

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554	1SA OE18 OSA 1TF 1SA 03 OSA 1TF 1SA 03 OSA 1TF 1SA 02	TO 1SA TX AC TO 02 TX AC TO 02 TO AC TX OE18	AC 1E18 AK AC OE18 AK AC OE18 AK AC 1SA	06 07 08	B2 1TF OB4 B2 1SA D4 B2 1SA B2 D 1E18	CL7 AC OB2 CL7 1E18 OB4 CL7 1E18 CL7 D4 1TF	D 05 D4 OB2 D 1TF D4 OB4 AC	E 04 D AC E 05 OB3 OB2 .	K OE18 E OE18 K OE18 OE18 05 .	OB3 1SA K 1SA 1SA 1SA 04 1SA 04 .	02 1E18 OB3 1E18 04 1E18 03 .		
555	1SA 04 . 1SA . 1SA OTF KIO 1SA . 1SA 04 1SA 1E18	AC and test, one side. TO 03 02, K06- AC 01 05 TX AC K- AC 01 OFLO- TO 03 TX OTF	AC 02 E OFLO AC AC D AC 02 02 AC 02 AC AC	02 02 01 02 02 02 02 02	AK OE18 . 06 04X TXB . 06 OFLO- AK OE18 D .	CL7 1SA . 05 OB4- OFLO . 04 KIOC CL7 1SA OFLO 04X	E 1E18 OE18 04- 06 04X OE18 KIOC E 1E18 06 .	OB4 OTF 1SA . 04 TXA . 1SA KIO OB4 OTF 05 KIOC	OB2 AC 1E18 1E18 OE18 TX . 1E18 K- OB2 AC 04 KIO	OFLO . OTF 1SA . OTF OFLO OE18 K- OFLO AC OE18 K-	01 01 08 08 02 02 02 08 03 03	06 K06- AC 1E18 KIOC AC 05 K06- 1SA . 06 03 03 03 04 04 .	
556	1SA 05 OY 1SA TXB 1SA 1SA 02 . 1SA 02 02 1SA 03	TO 04 . TX AC TO OE18 D4- TO OE18 . TO 03 TO 02	AC 03 K06- AC OE18 AC 1SA AC 1SA 03 TX OE18	02 02 07 05	AK 02 E OFLO 1SA 1E18 04A- B2 1E18 . AC 1SA	06 06 07 06	CL7 OE18 OE18 1E18 OTF CL7 04- CL7 OTF D4- 1E18	E 1SA 1SA 1E18 OTF D AC D AC CL7 OTF	OB4 1E18 1E18 1E18 AC . E . OB4 AC	OB2 OTF OTF . K 02A K 04A- OB2 .	03 03 04 05 04 07 07	OFLO AC AC AC OFLO- OB3 . OB3 . 05 04 05 OCT	06 03 03 03 04 04 .

557	1SA 02 1SA 0E18 1SA 03	TX 0E18 TX 1SA TO 02	AC 1SA AC 1E18 TX 0E18	AK 1E18 D OTF AC 1SA	CL7 OTF K AC D 1E18	OB4 AC OB4 K OTF	OB2 . OB2 04A- OB4 AC	05 08 KIOC 05 . OB2 . 08 TOB	04 . 03 . 05 TOB	03 . 02 . 04 .
558	AC or test, zero side. Logic for zero side AC is on boards 237, 238, 239.									
	OSA OSA 1SA 1E18 OSA 0E18 1SA OSA OSA 0E18 1SA OSA 0E18 1SA OSA OTF	AC 1E18 B3 OTF AC OSA TX 1E18 TO OSA TX AC	B6 OTF D AC B3 1E18 B6 OTF AC 1E18 06 AC .	B4 AC E E B4 AC C7 OTF TP B6 .	B2 . 05 . K AC E AC B4 .	B1 . 04 . 06 B1 K . OSA B1 .	K . 03 . D . 05 1E18 IX .	TP . 02 . TP . 04 OTF OE18 .	IX 0E18 03 IX 03 AC OSA .	0E18 OSA 02 0E18 02 03 1E18 03 .
559	1SA 0E18	B3 OSA	B2 1E18	D OTF	E AC	K 04	05 .	04 .	03 .	02 .
560	AC and test, zero side.									
	1SA 1TF 1SA 02 B2- 1SA K AC 1SA 1E18 OX 1SA . 1SA 1E18	B3 AC TO 0E18 . TO 05 . TX 04 . TX 1TF 06- B3 DA- B3 1TF	E . B3 OSA . TX 04 . B6 03 OY B4 TXF IX D- E AC	05 DA- C7 1E18 . B6 03 OY B4 TXF OE18 . K . 03	04 . D 1TF . B4 02 . B2 IX- TX OSA . 05 OX0	03 . E AC . B2 IX KTP B1 . 01 1E18 . 04 OX	02 . K . . B1 OE18 K D TP KTP . 1TF . 03 .	0E18 . 05 KTP . C7 OSA . 04 TP TP AC . 02 OE18 .	OSA 04 04 D 1E18 TXF OE18 . 02 0E18 .	1E18 03 TXF . E 1TF TX OSA OX0 QT1 OSA .

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561	1SA	TX	B6	B4	B2	B1	C7	D	06	TP	
	IX	OE18	OSA	1E18	1TF	AC	.	03	OXO	C7	01
	KTP	TP	.	02	OY	06	.	04	TXF	TX	.
	1SA	TO	TX	B6	B4	B2	B1	.	D	06	TP
	IX	OE18	OSA	1E18	1TF	AC	.	03	OXO	TO	01
	KTP	TP	.	02	OY	06	.	04	TXF	TX	.
	1SA	AC	B6	B4	B2	B1	D	.	OFLO	06	TP
	IX	OE18	BSC	AC	1E18	1TF	AC	.	04	AC	01
	KTP	TP	.	02	OY	06	.	03	OXO	OX	.
	1SA	TO	B3	C7	D	E	.	.	05	TX-	03
	02	OE18	OSA	1E18	1TF	AC	.	04	TXF	04	01
	K	.	.	.	.	.	.	.	.	.	01
	1SA	B3	B2	E	K	05	04	03	02	OE18	
	OSA	1E18	1TF	AC	.	04	DA-	.	.	.	

562 AK or test, one side. Logic for one side AK is on boards 224, 230.

OSA	AC	AX	E	K	MN	OE18	1SA	1E18	1TF
AK	.	01	.	.	.	.	.	.	.
1SA	TO	TX	AK	B4	DC	06	03	02	PS
OE18	1SA	1E18	1TF	AK	.	01	.	.	.
OSA	AC	E	K	MN	02	OE18	1SA	1E18	1TF
AK	.	02	.	.	.	.	.	.	.
1SA	TO	TX	AK	AX	B4	DC	06	03	PS
OE18	1SA	1E18	1TF	AK	.	02	.	.	.
OSA	D	E	K	LX	MN	06	05	03	OE18
1SA	1E18	1TF	AK	.	03	.	.	.	.
1SA	TO	TX	AK	AX	B6	04	02	PS	OE18
1SA	1E18	1TF	AK	.	03	.	.	.	.
OSA	AC	D	E	K	LX	06	05	03	TSO
OE18	1SA	1E18	1TF	AK	.	04	.	.	.
1SA	TO	TX	AK	MN	04	02	PS	OE18	1SA
1E18	1TF	AK	.	04	.	.	.	.	.

563	OSA	TX	B6	D	E	K	LX	MN	06	05
	03	TSO	OE18	1SA	1E18	1TF	AK	.	05	.
	1SA	AK	AX	04	PS	OE18	1SA	1E18	1TF	AK

	OSA	TX	AX	D	E	K	LX	06	05	03
	OE18	1SA	1E18	1TF	AK	.	06	.	.	.
	1SA	AK	MN	04	TSO	PS	06	1SA	1E18	1TF
	AK	.	.	.	.	.	.	.	.	.
	OSA	E	K	MN	05	03	02	OE18	1SA	1E18
	1TF	AK	.	07	.	.	.	.	.	.

	1SA											
	1E18											
	OSA											
	1TF											
	1SA											
	AK											
564	OSA											
	1E18											
	1SA											
	1E18											
	OSA											
	AK											
	1SA											
	1TF											
	OSA											
	1TF											
	1SA											
	AK											
	OSA											
	1TF											
	1SA											
	05											
565	OSA											
	1TF											
	1SA											
	.											
566	AK and test, one side.											
	1SA											
	06											
	AK											
	06											
	1SA											
	TP											
	MAX2											
	TD											
	1SA											
	LC											
	.											
	1SA											
	PS											
	K065											
	PS											

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567	1SA 03 . 1SA 06 AK . 1SA LX OA 1SA PS K- 06	TO PE KED2 TO 04 . KED2 TO OB3 . AK OE18 . 11 . 11	TX PS K- TX 03 02A K- TX 05 E AX 1SA KT32 .	AK OE18 . AK 02 . AC PS . B4 1E18 B4 .	11 . 01 11 . 12 . 12 .	B4 1SA KT32 AX PE MAX3 KT32 AK OE18 *TD DC OTF . .	DC 1E18 B4 B4 PS AX B4 AX 1SA PS D AK *TD .	D OTF . B1 OE18 . B6 1E18 . OFLO . PS .	12 . 09 12 . 03 . 13 .	MN AK *TD DC 1SA ORB *TD D OTF . 06 TOX- . .	OFLO . PS D 1E18 K065 PS E AK . 03 . 10 OEL .	02 02 . 06 03 . 10 .	06 MAX2 . OFLO OTF 06 . LC . PE KED2 K065 .
568	1SA PS AX 1SA 1SA OF 1SA OTF . 1SA PS MN 1SA OTF *TD	TO OE18 . TO 1E18 K06- AK AK *TD TO OE18 . TO AK PS	TX 1SA MAX1 TX OTF 06- AX . PS TX 1SA MAX1 TX . .	AK 1E18 AX AK AK . B6 TOX- . AK 1E18 AX AK 02- .	12 . 11 . 03 . 04 .	AX OTF . AX . KD2 04 . AX OTF . MN . .	12 . 03 03 05 05 12 06 .	B6 AK *TD B6 02- D- 02 T32 . MN AK *TD 04 TSO- .	03 04 . 05 12 PS B6 . 04 PS . 11 .	04 MAX2 . TP T32 *TD OE18 . 04 MAX1 . OE18 KD2 .	02 . PS B6 PS 1SA KD2 . 02 . 03 1SA D- .	04 04 . 07 . 11 03 12 .	TSO MAX1 . OE18 . 1E18 D- . TSO MAX2 . 1E18 . .
569	1SA 1E18 03- 1SA 1SA TSO- 1SA 1E18 D- 1SA OE18 . 1SA TSO *TD	AK OTF . TO 1E18 . TO OTF . TO 1SA T32 AK PS PS	B4 AK *TD AK OTF ORB AK AK *TD AK 1E18 TSO B6 OE18 .	B1 . PS B4 AK 032- AX . PS AX OTF . B3 1SA .	04 . 05 05 09 .	MN TOX- . B1 03- B6 T32 . B4 AK ORB B2 1E18 .	04 . MN MAX2 04 . B1 032- E OTF .	06 TSO- . 04 . 12 02 TOX- 03 04 06 .	PS . . 04 TOX- PS TX- . 02 . 03 TOX- 12 06 .	09 ORB . PS TX- . OE18 . 11 TSO TOX- 12 03 06 .	OE18 ORB . PS TX- . OE18 . 11 TSO TOX- 12 03 06 .	1SA 032- . OE18 . 1SA KD2 . PS TX- PS 05 . .	06 06 12 12 .

570	1SA	TO	TX	AK	B4	B1	LX	MN	04	02	
	TSO	PS	OE18	1SA	1E18	OTF	AK	.	06	LX	09
	ORB	032-	03-	.	*TD	PS	.	.	.	.	.
	1SA	TX	AK	B4	MN	06	04	TSO	06	TP	PS
	OE18	1SA	1E18	OTF	AK	.	MNA	.	06	OTL	K065
	06	.	*TD	PS	.	.	.	.	.	.	.
	1SA	TX	AC	AK	B6	D	E	LC	07	LX	083
	05	PS	OE18	1SA	1E18	OTF	AK	.	07	OF	11
	E	.	*TD	PS	.	.	.	.	.	.	.
	1SA	TO	TX	AK	B4	DC	D	06	07	04	02
	TP	PS	OE18	1SA	1E18	OTF	AK	.	07	02A	01
	0A	03A-	03-	.	KT32	B4	.	12	*TD	PS	.
	1SA	AK	AX	B4	06	04	TP	PS	PS	OE18	1SA
	1E18	OTF	AK	.	TXA-	.	*TD	PS	.	.	.
				07		12					
571	1SA	AK	D	E	LC	OB3	05	03	02	PS	
	OE18	1SA	1E18	OTF	AK	.	ORB	K065	.	E	11
	.	*TD	PS	.	.	.	.	.	.	.	.
	1SA	AK	AX	B4	PS	OE18	1SA	1E18	OTF	AK	
	.	ORB	032-	.	*TD	PS	.	OEL	03A-	03-	
	1SA	AK	B6	B4	B3	B2	MN	04	03	02	06
	TSO	PS	OE18	1SA	1E18	OTF	AK	.	08	04A	.
	OTL	03A	03	.	*TD	PS	.	13	OEL	02	
	1SA	TO	TX	AK	B4	B1	DC	13	D	OFLO	03
	02	PE	PS	OE18	1SA	1E18	OTF	AK	AK	.	08
	.	0A	K06-	06-	.	04A-	04-	.	10	KED2	K-
	.	KT32	B4	.	*TD	PS	.	.	.	.	.
	1SA	AC	AK	B4	B1	E	LC	LX	09	OB3	05
	04	PS	OE18	1SA	1E18	OTF	AK	.	09	ORB	.
	*TD	PS	.	.	.	.	.	.	.	.	12

AK or test, zero side. Logic for zero side AK is on boards 223, 224.										
575	OSA	AC	AK	E	K	OE18	OSA	1E18	OTF	AK
	1SA	TX	AX	DC	D	MN	06	03	02	TSO
	OE18	OSA	1E18	OTF	AK	K	02	OE18	OSA	1E18
	OSA	AC	AK	AX	E	K	02	OE18	OSA	1E18
	OTF	AK		02						
	1SA	TX	DC	D	MN	06	03	TSO	OE18	OSA
	1E18	OTF	AK		02					
	OSA	AC	AK	D	E	K	TSO	OE18	OSA	1E18
	OTF	AK		03						
	1SA	TX	AX	DC	MN	06	03	02	OE18	OSA
	1E18	OTF	AK		03					
	OSA	AC	AK	AX	D	E	K	02	TSO	OE18
	OSA	1E18	OTF	AK		04				
576	1SA	TX	DC	MN	06	03	OE18	OSA	1E18	OTF
	AK		04							
	OSA	AK	AX	B6	D	E	K	LX	06	05
	03	02	TSO	OE18	OSA	1E18	OTF	AK		05
	1SA	TX	MN	04	OE18	OSA	1E18	OTF	AK	05
	OSA	AK	D	E	K	LX	MN	06	05	03
	02	OE18	OSA	1E18	OTF	AK	OSA	06	1E18	OTF
	1SA	TX	AX	04	TSO	OE18	OSA	1E18	OTF	AK
	OSA	AK	B5	B3	B2	E	K	06	05	OE18
	OSA	1E18	OTF	AK		07				
	1SA	TX	B1	03	02	OE18	OSA	1E18	OTF	AK
	OSA		AK	D4	OB4	OB2	04	OE18	OSA	1E18
	OTF	AK		08						
	1SA	DSP	D3	D2	D	E	K	OB3	OFLO	03
	02	PE	TP	OE18	OSA	1E18	OTF	AK		08
577	OSA	TX	AK	B1	DC	D	E	OE18	OSA	1E18
	OTF	AK		09						
	1SA	AC	B6	B5	B3	B2	LX	05	OE18	OSA
	1E18	OTF	AK		09					
	OSA	AK	DSP	D3	D2	OB3	OFLO	TP	OE18	OSA
	1E18	OTF	AK		10					
	1SA	TO	D4	D	K	OB4	OB2	PE	OE18	OSA
	1E18	OTF	AK		10					
	OSA	AK	DSP	D3	D2	OB3	PE	TP	OE18	OSA
	1E18	OTF	AK		11					
	1SA	TO	D4	D	K	OB4	OB2	OFLO	OE18	OSA
	1E18	OTF	AK		11					

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578	AK and test, zero side.										
	1SA	TX	B1	DC	MN	06	03	02	TSO	OE18	
	OSA	1E18	1TF	AK		01 MAXO	.	02	02A	02	03
	MAXO	AX-	.	04 02A	02	.	07 ORB	02	K065	06	09
	TXB	TX	.	.	.	.	.	.	.	.	.
	1SA	TX	AX	DC	MN	06	03	TSO	OE18	OSA	
	1E18	1TF	AK	.	01 02-	.	02 MAX1	AX	.	03 02-	
	.	04 MAX1	AX	.	09 TXB	TX	.	.	.	.
	1SA	TX	AX	B1	DC	D	MN	06	03	02	
	OE18	OSA	1E18	1TF	AK	.	01 TSO-	11	KIO	03 D	07
	ORB	K065	06	.	10 KIO	K-	.	.	K-	OE18	
	1SA	TX	AK	DC	MN	06	03	TSO	OE18	OSA	
	1E18	1TF	AK	.	02 MAX1	.	01 02-	03	02-	04	
	MAX1	AX	.	09 TXB	TX	.	.	.	.	.
	1SA	TX	B1	DC	MN	06	03	02	TSO	OE18	
	OSA	1E18	1TF	AK	.	02 02A	07	01	MAXO	AX-	03
	MAXO	AX-	.	04 02A	02	.	ORB	01	K065	06	09
	TXB	TX	.	.	.	.	.	.	.	.
579	1SA	TX	DC	D	MN	06	03	OE18	OSA	1E18	
	1TF	AK	.	02 TSO-	.	04 D	.	10	KIO	K-	11
	KIO	K-	.	.	.	.	.	.	.	.
	1SA	TX	B1	DC	MN	06	03	02	TSO	OE18	
	OSA	1E18	1TF	AK	.	03 MAXO	.	01	MAXO	AX-	02
	02A	02	.	04 02A	02	.	07 ORB	01	K065	06	09
	TXB	TX	.	.	.	.	.	.	.	.
	1SA	TX	AX	DC	MN	06	03	TSO	OE18	OSA	
	1E18	1TF	AK	.	04 MAX1	.	01 02-	02	MAX1	AX	
	.	03 02-	.	09 TXB	TX	.	.	.	.	.
	1SA	TX	B1	DC	MN	06	03	02	TSO	OE18	
	OSA	1E18	1TF	AK	.	04 02A	07	01	MAXO	AX-	02
	02A	02	.	03 MAXO	AX-	.	ORB	01	K065	06	09
	TXB	TX	.	.	.	.	.	.	.	.
	1SA	TX	AC	B6	K	LX	MN	05	OE18	OSA	
	1E18	1TF	AK	.	04 OA	.	09 TXB	05	TX	10	KIO
	D-	.	11 KIO	D-	.	.	.	.	.	.
580	1SA	TX	AX	04	OE18	OSA	1E18	1TF	AK	.	05
	MAX1	.	06 TSO-	.	09 TXB	TX	.	.	.	.
	1SA	TX	B1	MN	04	02	OE18	OSA	1E18	1TF	
	AK	.	05 02A	.	07 ORB	032-	03-	09	TXB	TX	
	1SA	TX	B6	MN	04	OE18	OSA	1E18	1TF	AK	
	.	05 T32	.	09 TXB	TX	.	.	.	.	.

	1SA		TX	MN	04	TSO	OE18	OSA	1E18	1TF	AK	
	.	06	MAX2	.	05	TSO	.	09	TSB	TX	.	
	1SA		TX	AX	B1	04	02	TSO	OE18	OSA	1E18	
	1TF		AK	.	06	02A	.	07	ORB	032-	03-	09
	TX		.	.	.	.	.	.	.	.	.	TXB
	1SA		TX	AX	DSP	D3	D2	D	E	K	OB3	
	OFLO		05	03	PE	TSO	TP	OE18	OSA	1E18	1TF	
	AK		.	06	OTL	.	08	OL4	032-	02-	.	.
581	1SA		TX	AX	LX	04	TSO	OE18	OSA	1E18	1TF	
	AK		.	06	LX	.	09	TXB	TX	.	.	
	1SA		TO	TX	AC	B6	B1	D4	LX	OB4	OB2	
	OFLO		05	PE	TP	OE18	OSA	1E18	1TF	AK	.	07
	ORB		.	09	TXB	TX	.	.	.	.	.
	1SA		TX	AX	B5	B1	DC	MN	03	02	TSO	
	OE18		OSA	1E18	1TF	AK	.	07	B5	.	09	TXB
	1SA		TX	AX	B3	B2	DC	MN	03	02	TSO	
	OE18		OSA	1E18	1TF	AK	.	07	BL6	.	09	TXB
	1SA		TX	AC	B5	B3	B2	D3	D2	OB4	OB2	
	OFLO		05	03	02	PE	TP	OE18	OSA	1E18	1TF	
	AK		.	08	OSHB	.	09	TXB	TX	.	.	
	1SA		DSP	D3	D2	D	E	K	OB3	OFLO	04	
	PE		TP	OE18	OSA	1E18	1TF	AK	.	09	OL4	.
582	1SA		DSP	D4	D2	D	E	K	OB3	OFLO	03	
	02		PE	TP	OE18	OSA	1E18	1TF	AK	.	08	D43-
	1SA		DSP	D3	D	E	K	OB3	OFLO	03	02	
	PE		TP	OE18	OSA	1E18	1TF	AK	.	08	D2-	
	1SA		TO	DSP	D3	D2	D	E	K	OB3	OFLO	
	03		02	PE	TP	OE18	OSA	1E18	1TF	AK	.	08
	TOB		.	.	.	.	.	.	.	.	.
	1SA		TO	AC	B6	B5	B3	B2	D4	D	LX	
	OB4		OB2	OFLO	05	PE	TP	OE18	OSA	1E18	1TF	
	AK		.	09	ED3	.	.	.	.	.	.
	1SA		TX	AC	B6	B5	B3	B2	K	LX	05	
	OE18		OSA	1E18	1TF	AK	.	09	TXB	.	D-	
	
	1SA	11	TO	TX	AC	B6	B5	B3	B2	D4	LX	
	OB4		OB2	05	PE	OE18	OSA	1E18	1TF	AK	.	10
	KIO		.	09	TXB	TX	

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583	1SA	TO	AX	DC	D4	D	K	MN	OB4	OB2	
	OFLO	06	03	02	PE	TSO	OE18	OSA	1E18	1TF	
	AK	.	10 OFLO	.	09 ED3	D	.	11 PE	.	.	
	1SA	TO	AX	DC	D4	D	K	MN	OB4	OB2	
	06	03	02	PE	TSO	TP	OE18	OSA	1E18	1TF	
	AK	.	10 TPB	.	09 ED3	Q	.	.	.	.
	1SA	TO	TX	AC	B6	B5	B3	B2	D4	LX	
	OB4	OB2	OFLO	05	OE18	OSA	1E18	1TF	AK	.	11
	K10	.	09 TXB	TX	.	.	.	.	.	.
	1SA	TO	AX	DC	D4	D	K	MN	OB4	OB2	
	OFLO	06	03	02	TSO	TP	OE18	OSA	1E18	1TF	
	AK	.	11 TPB	.	09 ED3	D	.	.	.	.

584 Flip-flop logic tests on logic for 03, 02, LP, QC, QP, QX, RC, RP, RX, TSO, TP, TX, TO, XC, XP, X2, XD, XR, CLC, PN, PP, and LX flip-flops.

585 03 or test, one side. Logic for one side 03 is on boards 317, 318, 319, 208.

OSA	AK	B1	E	IC	K	ND	OB3	PE	TP	
OE18	1SA	1E18	1TF	03	.	01	.	.	.	
1SA	B6	B5	B3	B2	D	03	OE18	1SA	1E18	
1TF	03	.	01	.	.	.	.	.	.
OSA	B6	B5	B3	B2	K	OE18	1SA	1E18	1TF	
03	.	02	.	.	.	.	.	.	.
1SA	AK	B1	D	E	IC	ND	OB3	03	PE	
TP	OE18	1SA	1E18	1TF	03	02	.	.	.	
OSA	TX	AP	D	K	OB4	04	02	OE18	1SA	
1E18	1TF	03	.	03	.	.	.	.	.
1SA	06	B2	05	03	XC	OE18	1SA	1E18	1TF	
03	.	03	.	.	.	.	.	.	.
OSA	TX	D	K	04	XC	OE18	1SA	1E18	1TF	
03	.	04	.	.	.	.	.	.	.
1SA	AP	B2	OB4	06	05	03	02	OE18	1SA	
1E18	1TF	03	.	04	.	.	.	.	.

586 03 and test, one side.

1SA	AP	B6	B5	B3	B2	D	OB3	06	05	
03	02	XC	OE18	1SA	1E18	OTF	03	.	01	OB3
.	04	.	.	.	.	.	.	.	.
1SA	TX	B6	B5	B3	B2	IC	K	OB4	04	
03	TP	OE18	1SA	1E18	OTF	03	.	01	ICP	
1SA	TX	AK	B1	E	IC	K	ND	OB4	OB3	
04	03	PE	TP	OE18	1SA	1E18	OTF	03	.	02

	KD2 1SA 02	AP TP	B1 XC	D OE18	IC 1SA	ND 1E18	OB3 OTF	06 03	05 .	03 02	EAKO
	1SA 03	AK 02	AP PE	B1 TP	D XC	E OE18	IC 1SA	OB3 1E18	06 OTF	05 03	05 03
	1SA OB3 1E18	02 ND- AK 06 OTF	AP 05 03	B4 03 .	B5 02 TLC	B1 PE B5	D TP .	E XC .	IC OE18 .	ND 1SA .	ND 1SA .
587	1SA 06 OTF 1SA 06 OTF 1SA 1SA	AK 05 03 AK 05 03 AK 1E18	AP 03 AP 03 B2 OTF	B6 02 TLC B3 02 BL6 E 03	B1 PE B6 B2 PE ND .	D TP D TP D 06 XC-	E XC E XC 05 .	IC OE18 IC OE18 03 ICP 1SA 1E18	ND 1SA ND 1SA PE KDIC 1E18 1E18	OB3 1E18 OB3 1E18 OE18 D-	OB3 1E18 OB3 1E18 OE18 D-
	1SA 03 1SA 1E18 1SA XC KDIC 1SA XC KDIC	B2 B2 OTF AK OE18 D- TX OE18 D-	03 K OJ ND 03 B2 1SA AK 1SA .	04 04 OFLO E 1E18 B1 1E18 KD2	03 06 03- ND OTF E OTF D-	03 XC 05 ICP 06 03 ND 03 .	01 06 03 06 03 TXF .	05 03 05 ICP 05 05 05 TXF .	01 ICP 03 03 03 03 03 03 .	03 03 03 03 03 03 03 .	03 03 03 03 03 03 03 .
588	1SA PE KDIC 1SA 1E18 1SA 05	AK OE18 D- AP OTF AP 02 03-	B2 1SA B2 03 B6 TP	E 1E18 K B5 OE18	ND OTF OB4 OJ B3 BSC	OB4 03 04 04 B2 03 ND 03 E 1E18 B1 1SA KD2	06 03 04 03 IC 1E18 OB4 03 ND 03 E 1E18 KD2	05 AP- 02 K OTF 06 02- OB4 03 .	03 01 OE18 OB4 03 05 01 06 04 .	02 ICP 1SA 06 03 03 01 ICP 05 TXF .	02 ICP 1SA 06 03 03 01 ICP 05 TXF .

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589	03 or test, zero side. Logic for zero side 03 is on boards 316, 318, 319.									
	OSA	B2	CR7	IC	K	ND	OFLO	05	03	TP
	OE18	OSA	1E18	OTF	03	01	.	.	OE18	OSA
	1SA	TX	D	E	OB4	OB3	04	02	OE18	OSA
	1E18	OTF	03	.	01	.	.	.	OSA	1E18
	OSA	TX	E	K	OB3	06	03	OE18	OSA	1E18
	OTF	03	.	02	.	.	.	.	OTF	03
	1SA	CR7	IC	05	TP	OE18	OSA	1E18	OTF	03
	.	02	.	.	.	.	.	.	.	03
	OSA	D	E	03	OE18	OSA	1E18	OTF	03	.
	1SA	K	OE18	OSA	1E18	OTF	03	.	03	.
	OSA	TX	K	OB4	OB3	04	03	02	OE18	OSA
	1E18	OTF	03	.	04	.	.	.	OE18	OSA
	1SA	B2	IC	ND	OFLO	06	05	TP	OE18	OSA
	1E18	OTF	03	.	04	.	.	.	.	.
590	03 and test, zero side.									
	1SA	TX	D	E	OB4	04	02	OE18	OSA	1E18
	1TF	03	.	01	OB3-	.	.	.	.	.
	1SA	TX	E	IC	K	OB4	OB3	04	02	TP
	OE18	OSA	1E18	1TF	03	.	01	ICP	.	03
	E	.	.	.	.	.	.	.	.	KED3
	1SA	TX	CR7	E	IC	K	OB4	04	02	TP
	OE18	OSA	1E18	1TF	03	.	02	KIOX	.	03
	E	.	.	.	.	.	.	.	.	KED3
	1SA	B2	IC	ND	OFLO	05	TP	OE18	OSA	1E18
	1TF	03	.	02	CR7-	.	03	KED3	KC-	04
	06-	.	.	.	.	.	.	.	.	0J
	1SA	TX	E	IC	OB4	04	02	TP	OE18	OSA
	1E18	1TF	03	.	03	KED3	.	.	.	.
	1SA	B2	CR7	IC	ND	06	05	TP	OE18	OSA
	1E18	1TF	03	.	04	OFLO-	.	02	KIOX	K06
	KED3	KC-	K-	.	.	.	.	.	.	.
591	03									
	1SA	B2	E	IC	K	ND	OFLO	04	TP	OE18
	OSA	1E18	1TF	03	.	04	0J	03	KED3	ED3
	1SA	B2	CR7	IC	ND	OFLO	06	05	02	TP
	OE18	OSA	1E18	1TF	03	.	04	032	.	02
	06	.	03	KED3	K-	.	.	.	.	KIOX
	1SA	B2	CR7	IC	ND	OB4	OFLO	06	05	TP
	OE18	OSA	1E18	1TF	03	.	04	OB4	.	02
	06	.	03	KED3	KC-	.	.	.	.	KIOX
	1SA	TX	IC	OFLO	06	05	TP	OE18	OSA	1E18
	1TF	03	.	04	NDX-	.	03	KED3	KC-	.

592 02 or test, one side. Logic for one side 02 is on boards 222, 223, 228.

OSA	B2	IC	K	OB2	06	03	TP	OE18	1SA	
1E18	1TF	02	.	01	.	.	.	.	.	.
1SA	TX	D	E	ND	05	02	OE18	1SA	1E18	
1TF	02	.	01	.	.	.	.	.	.	.
OSA	TX	E	K	ND	05	OE18	1SA	1E18	1TF	
02	.	02	.	.	.	.	.	.	.	.
1SA	B2	CR6	IC	NC	OB2	06	04	03	02	
TP	OE18	1SA	1E18	1TF	02	.	02	.	.	
OSA	TX	CR6	E	K	NC	05	OE18	1SA	1E18	
1TF	02	03	.	.	.	.	.	.	.
1SA	B2	IC	OB2	06	04	03	02	TP	OE18	
1SA	1E18	1TF	02	.	03	
OSA	CR4	C5	D	E	K	05	04	TP	OE18	
1SA	1E18	1TF	02	.	04	

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1SA	06	03	02	OE18	1SA	1E18	1TF	02	.	04
OSA	D	E	K	05	04	TP	OE18	1SA	1E18	
1TF	02	.	05	
1SA	CR4	C5	06	03	02	OE18	1SA	1E18	1TF	
02	.	05	.	.	.	.	.	.	.

594 02 and test, one side.

1SA	TX	D	E	ND	OB2	05	02	OE18	1SA	
1E18	OTF	02	.	01	OB2	.	.	.	.
1SA	TX	E	IC	K	ND	05	02	TP	OE18	
1SA	1E18	OTF	02	.	01	ICP	.	.	.	
1SA	B2	IC	NC	OB2	06	04	03	02	TP	
OE18	1SA	1E18	OTF	02	.	02	CR6-	03	NC	
1SA	B2	CR6	E	IC	K	OB2	05	02	TP	
OE18	1SA	1E18	OTF	02	.	02	OMNF	.	.	
1SA	TX	CR6	IC	NC	ND	OB2	06	04	03	
02	TP	OE18	1SA	1E18	1TF	02	.	02	NDX	
1SA	B2	CR6	IC	OB2	06	04	03	02	TP	
OE18	1SA	1E18	OTF	02	.	03	CR6	02	OMNF	
1SA	B2	E	IC	K	OB2	05	02	TP	OE18	
1SA	1E18	OTF	02	.	03	OM	.	.	.	

1SA	B2	CR6	IC	NC	06	04	03	TP	OE18	
OSA	1E18	1TF	02	.	02	CR6	03	OD0	OD	04
.	05	KED3	KC-	K-	.	.	.	.	.	.
1SA	B6	B2	E	IC	K	05	TSO	TP	OE18	
OSA	1E18	1TF	02	.	02	OMNF	05	KED3	ED3	E
1SA	TX	IC	NC	06	04	03	TP	OE18	OSA	05
1E18	1TF	02	.	02	TXF	.	03	OD0	OD	.
KED3	KC-	K-	.	.	.	.	.	.	.	.
1SA	TX	CR6	E	IC	K	05	TP	OE18	OSA	
1E18	1TF	02	.	03	OD0	.	05	KED3	ED3	E

600	1SA	B6	B2	NC	OB2	06	03	TSO	OE18	OSA	
	1E18	1TF	02	.	03	T32	01	ICP	KDIC	D-	02
	OMNF	OM	04-	.	05	KED3	KC-	K-	.	.	
	1SA	TX	AK	B6	CR6	E	IC	K	05	TSO	
	OE18	OSA	1E18	1TF	02	.	04	OTL	.	05	KED3
	E	.	.	.	.	.	.	.	.	.	.
	1SA	OB2	04	OE18	OSA	1E18	1TF	02	.	04	AK-
	.	01	ICP	D-	05	KED3	KC-	K-	.	.	.
	1SA	AK	04	TP	OE18	OSA	1E18	1TF	02	.	04
	TPA	.	05	KED3	K-	.	.	.	.	.	.
	1SA	TX	B6	CR6	E	IC	05	TSO	TP	OE18	
	OSA	1E18	1TF	02	.	05	KED3	.	.	.	.

601 LP or test, one side. Logic for one side LP is on boards 239, 240.

OSA	E	K	LC	LX	NC	05	04	OE18	1SA	
1E18	1TF	LP	01	.	.	.	.	.	.
1SA	TX	LP	06	03	TP	OE18	1SA	1E18	1TF	
LP	.	01	.	.	.	.	.	.	.
OSA	AX	E	K	LC	05	OE18	1SA	1E18	1TF	
LP	.	02	.	.	.	.	.	.	.
1SA	TX	C2	LP	LX	MC	06	04	TP	OE18	
1SA	1E18	1TF	LP	.	02	.	.	.	.
OSA	B4	B2	B1	LX	OE18	1SA	1E18	1TF	LP	
.	
1SA	TX	AX	B3	C5	E	LC	LP	05	02	
TP	AO	OE18	1SA	1E18	1TF	LP	.	03	.	
OSA	C2	E	K	MC	05	OE18	1SA	1E18	1TF	
LP	.	04	.	.	.	.	.	.	.
1SA	TX	AX	LP	LX	NC	06	03	TP	OE18	
1SA	1E18	1TF	LP	.	04	.	.	.	.
OSA	E	K	LC	LX	MC	05	OE18	1SA	1E18	
1TF	LP	.	05	.	.	.	.	.	.

Tape stops
Marker number

602	1SA	TX	AX	C2	LP	NC	06	03	TP	OE18	
	1SA	1E18	1TF	LP	LP	05	.	.	.	.	.
	OSA	TX	CR3	E	K	05	OE18	1SA	1E18	1TF	
	LP	.	06	.	.	.	.	.	.	.	.
	1SA	AP	B2	LP	06	04	03	OE18	1SA	1E18	
	1TF	LP	.	06	.	.	.	.	.	.	.
	OSA	TX	C6	E	K	05	04	OE18	1SA	1E18	
	1TF	LP	.	07	.	.	.	.	.	.	.
	1SA	AP	B2	LP	06	03	OE18	1SA	1E18	1TF	
	LP	.	.	.	.	.	.	.	.	.	.
	OSA	TX	B4	B2	B1	CR2	C5	C3	E	K	
	LX	06	05	04	03	02	OE18	1SA	1E18	1TF	
	LP	.	.	.	.	.	.	.	.	.	.
	1SA	B3	CR5	CR4	CR3	LP	TSO	OE18	1SA	1E18	
	1TF	LP	.	08	.	.	.	.	.	.	.
	OSA	B4	B2	B1	C6	C5	E	K	LC	06	
	05	04	03	02	TSO	OE18	1SA	1E18	1TF	LP	
	.	09	.	.	.	.	.	.	.	.	.
603	1SA	TO	TX	AX	B3	LP	AO	OE18	1SA	1E18	
	1TF	LP	.	09	.	.	.	.	.	.	.
	OSA	TO	C5	D	E	K	06	05	04	03	
	02	AO	OE18	1SA	1E18	1TF	LP	.	10	.	.
	1SA	TX	B6	B4	C6	C3	LP	LX	TP	OE18	
	1SA	1E18	1TF	LP	.	10	.	.	.	.	.
	OSA	TO	AX	B3	CR2	C5	E	K	06	05	
	04	03	02	IX	OE18	1SA	1E18	1TF	LP	.	11
	1SA	B6	B4	B2	B1	CR5	CR4	CR3	C6	C3	
	D	LP	LX	OE18	1SA	1E18	1TF	LP	.	11	.
	OSA	TO	TX	B3	CR2	C5	E	K	LX	06	
	05	04	03	02	OE18	1SA	1E18	1TF	LP	.	12
	1SA	B6	B4	B2	B1	CR5	CR4	CR3	C6	C3	
	D	LP	IX	OE18	1SA	1E18	1TF	LP	.	12	.
604	OSA	TX	B4	B2	B1	CR5	CR4	CR3	E	K	
	06	05	04	03	02	OE18	1SA	1E18	1TF	LP	
	.	13	.	.	.	.	.	.	.	.	.
	1SA	AX	B3	CR2	C5	LP	OE18	1SA	1E18	1TF	
	LP	.	.	.	.	.	.	.	.	.	.
	OSA	B6	LC	05	OE18	1SA	1E18	1TF	LP	.	14
	1SA	K	LP	LX	OE18	1SA	1E18	1TF	LP	.	14
	OSA	LC	QC	OE18	1SA	1E18	1TF	LP	.	15	.
	1SA	B6	K	LP	LX	OE18	1SA	1E18	1TF	LP	

OSA	15	AX	LC	OE18	1SA	1E18	1TF	LP	.	16	.
1SA	.	B6	K	LP	QC	OE18	1SA	1E18	1TF	.	LP
OSA	16	AP	B2	E	K	05	TP	OE18	1SA	.	1E18
1TF	.	LP	.	17	.	.	.	OE18	1SA	.	1E18
1SA	.	CR3	C6	D	LP	06	03	OE18	1SA	.	1E18
1TF	.	LP	.	17	.	.	.	.	.	.	.

605

LP and test, one side.

1SA	.	TX	B2	D	LP	LX	MC	06	03	TP
OE18	.	1SA	1E18	OTF	LP	.	01 LX	.	02 OMF	04B-
04-	.	04 NC-	.	07 TXF	TX	.	14 KLC-	.	KB-	K-
.	17	TPB	TP	.	B3	C6	C5	E	K	LP
1SA	.	TX	AX	B6	OE18	1SA	1E18	OTF	LP	.
05	.	02 TP	A0	15 LX-	D	.	.	.	06 NC	01
OD	.	03 LC-	B2	15 D	LP	MC	NC	.	06 NC	03
1SA	.	TX	B6	15 D	LP	MC	NC	.	06 NC	03
QC	.	TP	OE18	1SA	OTF	LP	.	01	05 NC	02
OMF	.	04B-	04-	16 KLC-	03 LC-	04 LX-	17 TPB	05	05 C2-	07
TXF	.	TX	.	16 KLC-	03 KB-	04 LX-	17 TPB	05	05 C2-	07
1SA	.	TX	AX	B2	C2	D	LP	17 TPB	MC	NC
06	.	04 03	TP	05 OE18	1SA	1E18	OTF	LP	LP	02
AX	.	04 C2	.	05 LX	.	14 KLC-	KB-	K-	.	17
TPB	.	TP	.	.	.	.	.	.	.	.

606

1SA	.	TX	B2	C2	D	LP	LX	NC	06	04
03	.	TP	OE18	1SA	1E18	OTF	LP	.	02 MC-	.
C2	.	05 LX	.	14 KLC-	D	KB-	K-	17	TPB	04
1SA	.	TX	B2	C2	D	LP	LP	LX	MC	NC
06	.	04 03	TP	04 OE18	1SA	1E18	1E18	05 OTF	LP	02
LC	.	03 .	LX	04 C2	.	.	.	05 LX	.	17 TPB
TP	.	.	.	.	.	.	.	.	.	.
1SA	.	TX	B3	C6	C5	E	K	LP	MC	05
02	.	QC	TP	A0	OE18	1SA	1E18	OTF	LP	02
OMF	.	03 LC-	.	16 B6-	B6-	.	.	.	.	.
1SA	.	TX	AX	B6	B3	C6	C5	E	K	LC
LP	.	LX	NC	05	02	TP	AO	OE18	1SA	1E18
OTF	.	LP	.	04 OMD	.	03 LX	.	15 KLC-	LC	.
1SA	.	TX	AX	B6	B3	C6	C5	C2-	E	K
LP	.	NC	05	02	TP	AO	OE18	1SA	1E18	OTF
LP	.	05 OMD	.	03 LC-	.	15 LX-	.	.	.	.

610	1SA TP			CR5 1SA	CR4 1E18	CR3 OTF	C6 LP	LC .	10	LP TO1C	LX .	03	TSO LX
	.	08		.	.	.	.	.		.	.		.
	1SA C6			AX D	B6 LC	B4 LP	B2 LX	B1 TP		CR5 OE18	CR4 1SA		CR3 1E18
	OTF 1SA				11	AX B4	LX B1		03	D CR4	.		C6 OTF
	D LP			B6 LP		B2 TSO	TP			10	CR4 1SA		.
	1SA C3			C3- B6		LX B2			08	LX CR5	CR4 OE18		CR3 1E18
	OTF 1SA			LC		LP LX				IX	CR4 1SA		C6 1E18
	LX			.	11	IX CR5			03	LX CR3	D C3	10	12 LX
	.	03		B3 AO		OE18 1SA				OTF	LP		11 QT1
			
611	1SA C3			B6 LC	B4 LP	B2 TSO	B1 TP	CR5 OE18		CR4 1SA	CR3 1E18		C6 OTF
	LP			12		C3			11	AX	LP		TSO QT1
	1SA TP			B3 AO	CR4 OE18	CR3 1SA	C6 1E18	OTF		C3	LP	12	.
	.	08		C3	.	.	.	.		.	.		.
	1SA C6			AX D	B6 E	B4 LC	B2 LP	B1 O5		CR5 O2	CR4 TP		CR3 IX
	OE18			1E18	OTF	LP		12	OYCS	LP	TSO		TP
	1SA OE18			B3 1E18	CR4 OTF	CR2 LP	C5 LP		13	LC CR4	OE18		1SA
	1SA 1E18			B3 LP	C5	LC	LP			TSO	TP		.
	1SA LC			AX O5	.	CR2- CR5	CR3 OE18	CR2 1SA		C6 1E18	C5 OTF		E LP
	.	13		OYR	.	.	.	.		.	.		.
612	1SA			LP	LX	O5	OE18	1SA		1E18	OTF		LP
	.	14		.	15	B6-	.	.		.	.		.
	1SA QC			AX OE18	B6 1SA	K 1E18	LP OTF	LX LP		NC	06 B6	14	03 .
	OMD			.	15	QC			16	.	.		04
	1SA 1E18			K LP	LP	O6 LX-	AX O3	QC OD		TP K	OE18	03	1SA LC-
	.	16		.	.	.	.	.	01	.	.		.
	1SA LC			AP LX	AX NC	CR5 O6	CR4 O3	CR3 O2		C6 TP	C5 OE18		E 1SA
	1E18			LP	.	14	KLC-	LX	03	LX	OMD	04	E
	1SA C5			AP LC	AX LP	B6 LX	B3 O5	CR5 O2		CR4 TP	CR3 AO		C6 OE18
	1SA			OTFLP	.	15	KLC-	.	03	LX	.		.

Tape stops Marker number

613	1SA 1E18 . 1SA E 1SA 1SA OE18 1SA LC OMDL 1SA 06 .	TX OTF LX- TX LC 1E18 TX 1SA TX LP . TX 03 LX	B6 LP . AP LP OTF AP 1E18 AX 05 . AX TP .	K . B6 LX LP CR3 OTF B3 02 . CR3 OE18 L3	LP QC- . B3 05 . C6 LP CR5 OE18 . C6 1SA .	06 . 01 01 16 16 17	03 OD . CR4 QC . LC AP CR3 1E18 . D OTF .	TP K . CR3 TP LX LP . LP OTF . LC LP .	OE18 . . C6 A0 . 06 . C5 LP . LP . LP .	1SA LC- . C5 OE18 . 03 . E . LX TPB .
614	LP or test, OSA 1E18 1SA LP OSA OTF 1SA 1E18 OSA OTF 1SA OSA OSA OSA	E OTF TX . E LP TX OTF AX LP TX 1E18 AX 1E18 OTF	K LP LX . K . AX B4 . B3 OTF C2 OTF	LC LP 06 . LC C2 B2 C5 LP E LP	LP 01 03 LP 02 MC B1 E . K .	LP is on boards NC TP . LX 06 LP LC LX LP .	237, 238, 239, 240. 05 0E18 05 04 0E18 04 0E18 A0 LX LX .	04 OSA 0E18 0E18 TP 0E18 02 0E18 MC .	0E18 OSA 1E18 OSA 0E18 OSA TP 0E18 05 .	OSA OTF 1E18 OSA 0E18 OSA 0E18 0E18 05 .
615	1SA LP OSA 1E18 1SA 1E18 OSA LP LP 1SA OTF OSA 06 OTF 1SA .	TX . AX OTF TX OTF TX 06 . B3 LP AX 05 LP TO	NC . E LP C2 LP B4 05 . CR5 . B4 04 TX	06 . K . LX B2 04 CR3 CR2 B2 03 B3	03 LP . NC . B1 03 CR4 02 LX TSO 0E18	TP LP 06 03 CR4 02 TSO 0E18	0E18 OSA 05 0E18 03 TP C5 C3 E K LC OSA 1E18	OSA 1E18 0E18 0E18 TP 0E18 0E18 0E18 0E18 0E18 0E18	OTF OSA OSA 0E18 K OTF 1E18 LP 1E18 LP	

616	OSA	TO	C6	C5	D	E	K	LC	LP	06	
	05	04	03	02	OE18	OSA	1E18	OTF	LP	1E18	08
	1SA	TX	B6	B4	C3	TP	A0	OE18	OSA		
	OTF	LP	.	.	.	.	.	.	.	.
	OSA	TO	TX	B3	CR4	C6	C5	E	K	LP	
	06	05	04	03	02	IX	OE18	OSA	1E18	OTF	
	LP	.	09	.	.	.	.	.	.	.
	1SA	AX	B6	B4	B2	B1	CR5	CR3	CR2	C3	
	D	OE18	OSA	1E18	OTF	LP	.	.	.	.
	OSA	TO	TX	B3	CR4	C6	C5	E	K	LP	
	06	05	04	03	02	OE18	OSA	1E18	OTF	LP	
	.	10	.	.	.	.	.	.	.	.
	1SA	B6	B4	B2	B1	CR5	CR3	CR2	C3	D	
	LX	IX	OE18	OSA	1E18	OTF	LP	.	.	.	
	OSA	TX	AX	B4	B2	B1	CR5	CR3	E	K	
	LP	06	05	04	03	02	OE18	OSA	1E18	OTF	
	LP	.	11	.	.	.	.	.	.	.
617	1SA	B3	CR4	CR2	C5	OE18	OSA	1E18	OTF	LP	
	
	OSA	TX	AX	B4	B2	B1	CR5	CR4	CR3	CR2	
	E	K	LP	06	05	04	03	02	OE18	OSA	
	1E18	OTF	LP	.	12	.	.	.	.	.
	1SA	B3	C5	OE18	OSA	1E18	OTF	LP	.	12	
	OSA	B6	LC	LP	OE18	OSA	1E18	OTF	LP	.	13
	1SA	K	05	OE18	OSA	1E18	OTF	LP	1E18	13	
	OSA	B6	LC	LP	LX	05	OE18	OSA	.	.	
	LP	.	14	.	.	.	.	.	.	.
	1SA	K	OE18	OSA	1E18	OTF	LP	.	.	.	
	OSA	LC	LP	LX	QC	OE18	OSA	1E18	14	OTF	
	
	1SA	B6	K	OE18	OSA	1E18	OTF	LP	.	15	
	OSA	LC	LP	OE18	OSA	1E18	OTF	LP	.	16	
	1SA	AX	B6	K	QC	OE18	OSA	1E18	OTF	LP	
	
	.	16	.	.	.	.	.	.	.	.
618	OSA	E	K	LC	LP	05	04	03	02	OE18	
	OSA	1E18	OTF	LP	LP	.	.	.	.	.
	1SA	TX	06	TP	OE18	17	OSA	1E18	OTF	LP	17
	OSA	E	K	LP	05	TP	OE18	OSA	1E18	OTF	
	LP	.	18	.	.	.	.	.	.	.
	1SA	AP	D	06	03	OE18	OSA	1E18	OTF	LP	
	
	OSA	D	E	K	LP	05	TP	OE18	OSA	1E18	
	OTF	LP	.	.	.	.	.	.	.	.
	1SA	06	03	OE18	OSA	1E18	OTF	LP	.	19	

Tape stops Marker number

Tape stops	Marker number	LP and test, zero side.									
619		1SA TX	AP	AX	D	MC	06	03	TP	OE18	
		OSA 1E18	1TF	LP	.	01 LX-	.	02 OMF	03	.	18
		TPB TP	.	.	.	.	.	.	.	.	.
		1SA TX	B6	B3	C5	E	K	LX	05	02	
		TP OE18	OSA	1E18	1TF	LP	.	01 OD	.	03 LC-	
		13 B6	.	15 LX	.	.	.	.	.	.
		1SA TX	AP	AX	B6	D	LX	MC	NC	06	
		03 QC	TP	OE18	OSA	1E18	1TF	LP	.	01 NC	
		02 OMF	04B	04-	.	03 LC-	.	04 LX	.	05 C2-	
		16 KLC-	KB-	K-	.	17 OX	03	.	18 TPB	TP	
		1SA TX	AP	C2	D	MC	06	06	04	03	
		TP OE18	OSA	1E18	1TF	LP	.	02 AX-	.	04 C2	
		05 LX-	.	14 KLC-	KB-	K-	.	18 TPB	TP	.	
620		1SA TX	AP	AX	C2	D	NC	06	04	03	
		TP OE18	OSA	1E18	1TF	LP	.	02 MC-	.	04 C2	
		05 LX-	.	14 KLC-	KB-	K-	.	18 TPB	TP	.	
		1SA TX	AX	B6	B3	C5	E	LX	MC	06	
		03 QC	TP	OE18	OSA	1E18	1TF	LP	LP	.	02
		OMF	01	OD	E	.	03 LC-	.	16 KLC-	KB-	
		K-	.	.	.	.	.	.	.	.
		1SA TX	AP	AX	C2	D	LC	MC	NC	06	
		04 03	TP	OE18	OSA	1E18	1TF	LP	.	02 LC	
		03 LX-	.	03 C2	.	05 LX-	.	18 TPB	TP	.	
		1SA TX	B6	B3	C5	E	K	LC	NC	02	
		TP OE18	OSA	1E18	1TF	LP	.	04 OMD	.	03 LX-	
		15 KLC-	LC	.	.	.	.	.	.	.
		1SA TX	B6	B3	C5	C2	E	K	LX	NC	
		05 02	TP	OE18	OSA	1E18	1TF	LP	.	05 OMD	
		03 LC-	.	13 B6	.	15 LX	.	.	.	.
621		1SA TX	AP	C2	D	LX	06	04	03	TP	
		OE18 OSA	1E18	1TF	LP	.	05 NC-	.	01 OD	04	
		03 LC-	.	18 TPB	TP	.	.	.	.	.
		1SA C2	D	LC	LX	NC	06	03	TP	OE18	
		OSA 1E18	1TF	LP	.	05 TXP-	.	.	.	.
		1SA TX	B6	B4	CR5	CR3	CR2	LC	TSO	TP	
		AO OE18	OSA	1E18	1TF	LP	.	06 LX-	.	03 LX-	
		08 T01C	C3-	.	.	.	.	.	.	.
		1SA B3	CR5	CR3	CR2	C3	LC	LX	TSO	TP	
		OE18 OSA	1E18	1TF	LP	.	06 C3	.	.	.	
		1SA B3	CR5	CR3	CR2	LC	LX	TP	OE18	OSA	
		1E18 1TF	LP	.	06 TSO-	.	.	.	.	.
		1SA TO	TX	B3	CR4	LX	TP	OE18	OSA	1E18	
		1TF LP	.	07 C6-	.	03 LC-	.	06 TSO-	.	11 TX	
		12 TXC	TX	.	17 OX	06-	.	.	.	.

622	1SA 1E18 TXC 1SA OE18 C3 1SA OSA 17 1SA QC 03 TXC 1SA TP LC- 06-	TO 1TF TX TO OSA 11 TX 1E18 OX TX TSO LC- TX TX AO 06 .	TX LP . TX 1E18 TX B3 1TF 06- AX TP . B6 OE18 C3 .	B3 . B3 1TF . CR5 LP . B6 OE18 C3 KLC- B4 OSA . .	07 . . 12 . . . 06 16 . 11 .	CR4 LC . CR4 LP TXC CR3 . B4 OSA 09 KB- B3 1E18 TX .	C6 . C6 . TX CR2 TOX- . B2 1E18 QT1 K- CR4 1TF . .	03 . 07 . 17 03 . . 17 D C3 LP TXC . .	LC LX- . C3 TSO C6 . B1 1TF D- OX D . C3 LP TXC TX .	TP . LX . OX LX LC- CR4 LP . OX D . . TX D . . .	11 . 03 . 17 06 . 08 11 17 08 17 .	OE18 TX . TSO LC- 06- TP . C3 . TX 06- LX D . . .	OSA . . TP . OE18 TSO LX AO- . TSO OX . .	12 . 06 . 06 12 03 .
623	1SA OE18 1SA LC AX- 1SA TSO 15 1SA C3 LP 1SA TP	CR5 OSA B6 LX 06 AX OE18 KLC- TX D 09 AX OE18	CR3 1E18 B4 TSO C3 B6 OSA KB- AX LC IX B3 OSA	CR2 1TF B2 TP 10 B4 1E18 K- B6 TP 03 CR5 1E18	C3 LP B1 OE18 B2 1TF B4 AO LX- CR3 1TF	LC . CR5 OSA B1 LP . B2 IX 08 CR2 LP	LX T01C CR3 1E18 CR5 CR3 LP 09 B1 OE18 D C3 09	TSO . CR2 1TF CR3 C3- CR5 OSA . LC QT1	06 . C3 LP . CR2 . 06 CR3 1E18 LX- LX 06	TP C3 C3 D . D LX- CR2 1TF . TSO C3	AO . D . . D LX- CR2 1TF . TSO C3	09 . . . 06 . . . 06 .		
624	1SA IX 1SA E LP 1SA 1E18 1SA LX 1SA TP 1SA 1TF	B3 OE18 B6 LC 10 B3 1TF B6 02 B6 OE18 TX LP	CR5 OSA B4 LX OYC5 CR2 LP B3 TP B3 OSA B3 .	CR3 1E18 B2 02 . C5 . CR5 OE18 CR5 1E18 C5 TXC 12	CR2 1TF B1 TP . LC CR4- CR4 OSA CR3 1TF LX . 03	C3 LP CR5 IX . LX 12 CR3 1E18 C5 LP TSO LC-	LC . CR3 OE18 IX . TSO CR2 CR2 1TF E LP E TP 12 17	LX QT1 CR2 OSA TP . C5 LP LC OYR OE18 OX	10 . CR2 OSA . TP . C5 LP LC OYR OE18 OX	TSO . C5 1E18 OE18 E LX . OSA 06- .	06 C3 D 1TF . OSA . LC OYR 02 1E18 .	TP C3 D 1TF OSA LC OYR 02 1E18 .		

Tape stops Marker number

625	No test for 14	05.	No test for 15	B6-									
	1SA TX		AX K	LX	06	03	QC	TP	OE18				
	OSA OE18		1TF LP		13 05-	.	01 OD	K	.	03			
	LC-	14	LX	16 B6-									
	1SA CR4		LC LX	05	TSO	TP	OE18	OSA	1E18				
	1TF LP		.	13 KLC-	.	11 OYR	KO65	05	.	12 OYR			
	KO65		05										
	1SA TX		B6 K	NC	06	03	QC	TP	OE18				
	OSA 1E18		1TF LP	.	14 B6	.	04 OMD	K	.	15			
	QC	16	AX-	CR3	CR2	C5	E	LC	NC	06			
	1SA TX		CR5 CR3	CR2	C5	E	LC	NC	06				
	03		TP OE18	OSA	1E18	1TF	LP	.	14 KLC-				
	.	03	LX-	04 OMD	E	.	.	.	.
	1SA TX		B6 B3	CR5	CR3	CR2	C5	E	LC				
	NC 06		03 02	TP	OE18	OSA	1E18	1TF	LP				
	.	15	KLC-	03 LX-	.	04 OMD	E	.	.				
626	1SA TX		AX B6	K	LX	06	03	TP	OE18				
	OSA 1E18		1TF LP	.	16 QC-	.	01 OD	K	.	03			
	LC-	15	LX										
	1SA AX		B6 B3	CR5	CR3	CR2	C5	E	LC				
	LX 02		QC TP	OE18	OSA	1E18	1TF	LP	.	16			
	KLC-		.										
	1SA TX		B6 B3	CR5	CR3	CR2	C5	E	LX				
	06 03		02 TP	OE18	OSA	1E18	1TF	LP	.	17			
	OX	01	OD	E	03	LC-							
	1SA TX		B6 B4	C3	03	LC	NC	06	TP	AO			
	OE18 OSA		1E18 1TF	LP	.	17 LC	LC	.	03 LX-	.	04		
	OMD		03-	.									
	1SA TX		D LC	LX	06	03	OE18	OSA	1E18				
	1TF LP		18 AP-	19 OMD0	19 OMD0	ED3	D	.	.				
	1SA TX		AP B6	B3	CR5	CR3	CR2	C5	E				
	LC LX	18	06 03	02	OE18	OSA	1E18	1TF	LP				
	.	18	OMDL	19 OMD0	OMD	E	.	19 OMD0	ED3	E			
627	1SA AP		C2 D	LC	LX	NC	06	03	TP				
	OE18 OSA		1E18 1TF	LP		18 TPB	.	05 TXP-	TX-				
	1SA TX		B6 B3	CR5	CR3	CR2	C5	E	LC				
	LX 02		OE18 OSA	1E18	1TF	LP	.	19 OMD0	.				
	1SA C2		LC LX	NC	06	03	TP	OE18	OSA				
	1E18 1TF		LP	.	19 TPB	.	05 TXP-	TX-	.				

628 QC or test, one side. Logic for one side QC is on boards 331, 332, 333, 338.

OSA	TX	E	IP	OB3	05	03	OE18	1SA	1E18	
1TF	QC	.	01	.	.	.	.	.	.	.
1SA	AK	D	K	01	OFLO	P	RC	QC	OE18	1SA
1E18	1TF	QC	.	.	.	.	.	.	.	.
OSA	TX	E	OB3	05	04	OE18	1SA	1E18	1TF	
QC	.	02	.	.	.	.	.	.	.	.
1SA	AK	D	IP	K	OFLO	03	02	PE	RC	
QC	OE18	1SA	1E18	1TF	QC	02	1E18	1TF	QC	
OSA	TX	AK	04	RC	OE18	1SA	1E18	1TF	QC	
.	03	.	.	.	.	.	.	.	.	.
1SA	D	IP	K	OFLO	PE	QC	OE18	1SA	1E18	
1TF	QC	.	03	.	.	.	.	.	.	.
OSA	TX	AK	CL2	OE18	1SA	1E18	1TF	QC	.	04
1SA	CL5	D	IP	K	OFLO	04	PE	QC	OE18	
1SA	1E18	1TF	QC	.	04	.	.	.	.	.
OSA	C7	C6	C4	E	K	06	02	TO	OE18	
1SA	1E18	1TF	QC	.	05
1SA	C5	05	03	QC	OE18	1SA	1E18	1TF	QC	
.	05

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OSA	C7	C6	C4	E	IP	K	06	05	TO	
OE18	1SA	1E18	1TF	QC	.	06	1SA	1E18	1TF	QC
1SA	C5	03	02	QC	OE18	1SA	1E18	1TF	QC	
.	06	.	.	.	.	.	.	.	.	.
OSA	TO	E	K	06	05	04	02	OE18	1SA	
1E18	1TF	QC	.	07	OE18	1SA	1E18	1TF	QC	.
1SA	IP	03	QC	OE18	1SA	1E18	1TF	QC	.	07

630 QC and test, one side.

1SA	CL2	E	01	OFLO	PE	QC	RC	OE18	1SA	1E18
OTF	QC	.	.	KSU0	.	.	.	.	.	.
1SA	AK	D	01	K	OFLO	05	03	02	PE	QC
OE18	1SA	1E18	.	OTF	QC	.	01	05	02	054
05	.	03	KIO	AK	.	.	.	.	.	05A
1SA	AK	D	K	OB3	OFLO	03	02	PE	QC	.
OE18	1SA	1E18	OTF	QC	.	01	OB3	02	OB3	03
KIO	AK	.	.	.	.	.	.	.	.	.
1SA	AK	D	IP	K	OFLO	02	PE	QC	OE18	.
1SA	1E18	OTF	QC	.	01	IP	02	032-	03-	03
KIO	AK	.	.	.	.	.	.	.	.	.
1SA	E	OFLO	03	02	PE	QC	RC	OE18	1SA	.
1E18	OTF	QC	.	02	KSU0	.	.	.	.	.
1SA	AK	D	IP	K	OFLO	05	03	02	PE	.
QC	OE18	1SA	1E18	OTF	QC	.	01	IP	.	04
AK	.	02	054	04A	04	.	.	.	.	.

	03A-	03-	.	06	ORB	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	1SA	C5	C4		IP	05	03	02	QC	0E18	1SA	07	0E18	02	07	0E18	02	07	0E18	1SA	
	1E18	0TF	QC		.	05	C4	06	C4	07	0E18	01	0E18	01	0E18	02	07	0E18	02	07	
	1SA	C7	IP		03	02	QC	0E18	1SA	07	0E18	01	0E18	01	0E18	02	07	0E18	02	07	
	QC	.	06	CNU6	.	07	OEL	02
634	QC or test, zero side. Logic for zero side QC is on board 331.																				
	OSA	QC	TP		0E18	OSA	1E18	0TF	QC	01	.	.	.	.	.	.	.	.	.	.
	1SA	0E18	OSA		1E18	0TF	QC	.	01	.	.	.	.	.	.	.	.	.	.	.
635	QC and test, zero side.																				
	1SA	TP	0E18		OSA	1E18	1TF	QC	.	01	TP	.	.	.	.	.	.	.	.	.
636	QP or test, one side. Logic for one side QP is on boards 338, 339, 439.																				
	OSA	QX	0E18		1SA	1E18	1TF	QP	01	.	.	.	.	.	.	.	.	.	.	.
	1SA	TO	TX		QC	TP	QP	0E18	1SA	1E18	1TF	.	.	.	.	.	.	.	.	.
	QP	.	01	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	OSA	K	MN		QC	0E18	1SA	1E18	1TF	QP	.	.	.	.	.	.	.	.	.	02
	1SA	TX	TP		QP	0E18	1SA	1E18	1TF	QP	.	.	.	.	.	.	.	.	.	02
	OSA	TX	D		04	0E18	1SA	1E18	1TF	QP	.	.	.	.	.	.	.	.	.	03
	1SA	AK	E		ID	LX	MN	QX	QP	0E18	1SA	.	.	.	.	.	.	.	.	.
	1E18	1TF	QP		03	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	OSA	LX	QC		0E18	1SA	1E18	1TF	QP	04	.	.	.	.	.	.	.	.	.	.
	1SA	TX	K		TP	QP	0E18	1SA	1E18	1TF	QP	.	.	.	.	.	.	.	.	.
	.	04	.		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	OSA	E	QC		TP	0E18	1SA	1E18	1TF	QP	.	.	.	.	.	.	.	.	.	05
	1SA	TX	AK		D	K	04	QP	0E18	1SA	1E18	.	.	.	.	.	.	.	.	.
	1TF	QP	.		05	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	OSA	AK	QC		TP	0E18	1SA	1E18	1TF	QP	.	.	.	.	.	.	.	.	.	06
637	1SA	TX	ID		K	QX	QP	0E18	1SA	1E18	1TF	.	.	.	.	.	.	.	.	.
	QP	.	06	
	OSA	AK	ID		QX	TP	0E18	1SA	1E18	1TF	QP	
	.	07	
	1SA	TX	K		QC	QP	0E18	1SA	1E18	1TF	QP	
	.	07	

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638	QP and test, one side.																
	1SA	TO			QC		QX		TP		QP		OE18		1SA		1E18
	OTF	QP		01	QX			02	QC			03	TXC		TX		
	1SA	TO			LX		MN		TP		QP		OE18		1SA		1E18
	OTF	QP		01	QC-			02	MNA					03	TXC		TX
	1SA	TX			QC		TP		QP		OE18		1SA		1E18		OTF
	QP			01	TPO-			02	QC			03	TXC		TX		
	1SA	TO			TX		MN		TP		QP		OE18		1SA		1E18
	QP			02	MNA			01	QC-			03	TXC		TX		04
	K-																KB-
	1SA	TO			AK		D		K		LX		04		TP		QP
	OE18	1SA			OTF		QP			02	KB			01	QC-		
	TXC	TX		04	LX			05	TP								03
	1SA	TX			D		04		QP		OE18		1SA		1E18		OTF
	QP			02	AK		TP-	03	TXC			05	KSUO		KED2		
	K-																
639	1SA	TX			AK		E		ID		LX		MN		QC		TP
	OE18	1SA			1E18		OTF		QP			03	TXC			02	MNA
	1SA	TO			TX		MN		TP		QP		OE18		1SA		1E18
	QP			04	KB-			01	QC-			02	MNA		MN		03
	TX																
	1SA	TX			K		QC		QX		TP		QP		OE18		1SA
	OTF	QP				04	QC			03	TXC		TX				1E18
	1SA	TX			AK		E		ID		K		QX		QP		1SA
	1E18	OTF			QP			04	TP-			03	TXC		TX		06
	AK																KAK1
	1SA	TX			AK		E		ID		04		QX		QP		1SA
	1E18	OTF			QP			05	KSUO			02	TP-			03	OE18
	1SA	TO			TX		AK		D		K		04		QC		TXC
	1SA	1E18			OTF		QP			05	QC			01	TPO-		QP
	TXC	TX		07	KAK1		AK										TP-
640	1SA	TX			D		K		QP		OE18		1SA		1E18		OTF
	QP			05	04-		TXC		TX			04	TP-			06	KAK1
	AK			07	KAK1												
	1SA	TX			AK		E		ID		QP		OE18		1SA		1E18
	OTF	QP				06	KAK1			02	TP-			03	TXC		TX
	1SA	TX			ID		K		QC		QP		OE18		1SA		1E18
	OTF	QP			QC			03			TX						
	1SA	TO			K		LX		TP		QP		OE18		1SA		1E18

	OTF	QP	.	06	TP	.	01	QC-	.	02	KB	K	.	03
	TXC	TX	.	04	LX	.	07	TP	.				.	
	1SA	TO	TX		AK	E		QC	QP	OE18		1SA	1E18	
	OTF	QP	.	07	KAK1	.	01	TPO-	TP-		03	TXC	TX	
	1SA	TX	K		QC	QX		QP	OE18			1E18	OTF	
	QP	.	07	QX	.	03	TXC	TX	.	06	QC	.	.	
641	1SA	TO	TX		ID	K		QC	QP	OE18		1SA	1E18	
	OTF	QP	.	07	ID	.	01	TPO-	TP-	.	03	TXC	TX	
	.	06	QC	.	.	.		.	.	.		.	.
642	QP or test, zero side. Logic for zero side QP is on boards 338, 439.													
	OSA	ID	QP	OE18	OSA	1E18	OTF	QP	.	01	.	.	.	
	1SA	TO	TX	QC	QX	OE18	OSA	1E18	OTF	QP	.	.	.	
	.	01	.	.	.	.	.	.	.	.	.	.	.
	OSA	K	QC	QP	OE18	OSA	1E18	OTF	QP	.	02	.	.	
	1SA	TO	MN	TP	OE18	OSA	1E18	OTF	QP	.	02	.	.	
	OSA	TO	AK	D	ID	LX	MN	QP	OE18	OSA	.	.	.	
	1E18	OTF	QP	.	03	.	.	.	.	.	.	.	.
	1SA	E	04	OE18	OSA	1E18	OTF	QP	.	03	.	.	.	
	OSA	QC	QP	OE18	OSA	1E18	OTF	QP	.	04	.	.	.	
	1SA	TO	K	LX	TP	OE18	OSA	1E18	OTF	QP	.	.	.	
	.	04	.	.	.	.	.	.	.	.	.	.	.
	OSA	E	04	QC	TP	QP	OE18	OSA	1E18	OTF	.	.	.	
	QP	.	05	.	.	.	.	.	.	.	.	.	.
	1SA	TO	AK	D	K	OE18	OSA	1E18	OTF	QP	.	.	.	
	.	05	.	.	.	.	.	.	.	.	.	.	.
	OSA	TX	QX	TP	QP	OE18	OSA	1E18	OTF	QP	.	.	.	
	.	06	.	.	.	.	.	.	.	.	.	.	.
	1SA	TO	ID	K	QC	OE18	OSA	1E18	OTF	QP	.	.	.	
	.	06	.	.	.	.	.	.	.	.	.	.	.
643	QP and test, zero side.													
	1SA	TO	TX	MN	QC	TP	OE18	OSA	1E18	1TF	.	.	.	
	QP	.	01	QX-	02	QC	03	TOB	TO	OE18	OSA	1E18	.	
	1SA	TO	TX	E	04	.	02	MNA-	TP	OE18	OSA	1E18	TO	
	1TF	QP	.	01	QC-	02	MNA-	TP	OE18	OSA	1E18	TO	1TF	
	1SA	TO	MN	QC	QX	.	03	TOB	TO	OE18	OSA	1E18	1TF	
	QP	.	01	TOX-	02	QC	03	TOB	TO	OE18	OSA	1E18	1TF	
	1SA	TO	TX	LX	QX	TP	03	TOB	TO	OE18	OSA	1E18	1TF	
	QP	.	02	MNA-	01	QC-	03	TOB	TO	.	04	KB-	.	
	K-	.	.	.	.	.	.	.	.	.	.	.	.
	1SA	TO	TX	AK	D	K	MN	QX	TP	OE18	.	03	TOB	
	OSA	1E18	1TF	QP	.	02	KB	.	01	QC-	.	03	TOB	
	TO	.	04	LX-	05	TP	.	.	.	.	.	.	.
	1SA	TO	TX	AK	D	MN	QX	OE18	OSA	1E18	.	.	.	
	1TF	QP	.	02	TP-	01	QC-	.	03	TOB	TO	.	.	05
	KSUO	KED2	K-	.	.	.	.	.	.	.	.	.	.

OSA	T0	C7	C6	E	K	06	OE18	1SA	1E18
RC	.	03	.	.	.	.	.	.	.
1SA	C5	C4	05	03	RC	OE18	1SA	1E18	1TF
RC	.	03	.	.	.	.	.	.	.
OSA	T0	C7	C6	E	K	06	05	OE18	1SA
1E18	1TF	RC	.	04	.	.	.	.	.
1SA	C5	C4	03	02	RC	OE18	1SA	1E18	1TF
RC	.	04	.	.	.	.	.	.	.
OSA	T0	E	IP	K	06	05	04	02	OE18
1SA	1E18	1TF	RC	.	05
1SA	03	RC	OE18	1SA	1E18	1TF	RC	.	05

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RC and test, one side.

1SA	AK	CL5	C7	C6	E	IP	06	RC	OE18
1SA	1E18	OTF	RC	.	01	KIO	.	.	.
1SA	C5	C4	D	K	.	ND	05	03	RC
1SA	1E18	OTF	RC	.	01	CL5-	.	02	04-
K06	K	.	.	.	.	.	.	.	.
1SA	CL5	CL2	C5	C4	D	K	ND	05	03
RC	OE18	1SA	1E18	OTF	RC	.	01	CL2	02
.	03	OW	K06	K	.	.	.	.	.
1SA	CL5	C5	C4	D	IP	K	05	04	03
RC	OE18	1SA	1E18	OTF	RC	.	01	04	03
K06	K	.	.	.	.	.	.	.	.
1SA	AK	C7	C6	E	IP	ND	06	04	RC
OE18	1SA	1E18	OTF	RC	.	02	KIOP	.	.
1SA	CL5	C5	C4	D	K	05	04	03	RC
OE18	1SA	1E18	OTF	RC	.	02	ND-	01	04
OW	K06	K	03

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1SA	AK	CL2	C5	C4	E	IP	06	RC	OE18
1SA	1E18	OTF	RC	.	03	OW	.	.	.
1SA	CL5	C7	C6	C4	.	D	05	03	RC
1SA	1E18	OTF	RC	.	03	CNU6	.	01	KIO
OEL	K065	05	.	.	.	.	.	.	.
1SA	CL5	C5	D	05	03	RC	OE18	1SA	1E18
OTF	RC	.	03	C4-	.	01	KIO	K-	05
05	.	.	.	.	.	.	.	.	.
1SA	AK	CL2	C5	C4	E	IP	06	RC	OE18
1SA	1E18	OTF	RC	.	04	ORB	.	.	.
1SA	CL5	C7	C6	C4	D	03	02	RC	OE18
1SA	1E18	OTF	RC	.	04	CNU6	.	01	KIO
OEL	05
1SA	02	CL5	C5	D	03	02	RC	OE18	1SA
OTF	RC	.	04	C4-	.	01	KIO	K-	05
								05	OEL
									1E18
									02

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653	1SA 1E18 1SA 1E18 05A- 1SA 1E18 OW 1SA TOB	AK OTF CL5 OTF C5 C5 OTF 05A- TO	CL2 RC C5 RC C4 RC 05- 03	C7 .05 C4 05 ORB D .05 04 RC		C6 OEL D IP 032- ND 04 ORB OE18	E .IP 02- 04 .02 032- 1SA	06 .03 KIO 03 02 KIO 02- 1E18	RC .RC K- .RC KIO K- RC .RC	OE18 .OE18 .03 OE18 K- .RC	1SA 1SA OW 1SA .03 .05	
654	RC or test, zero side. Logic for zero side RC is on board 326.											
	OSA 1SA	TX OE18	RC OSA	OE18 1E18	OSA OTF	1E18 RC	OTF .01	RC .01				
655	RC and test, zero side.											
	1SA	TX	OE18	1SA	1E18	1TF	RC	.01	TXC			
656	RP or test, one side. Logic for one side RP is on boards 337, 437.											
	OSA 1SA .01 OSA .02 1SA OSA 1SA .03 OSA 1SA OSA 1SA .05	RX TO .K .TX MN TX NX TX TO MN	OE18 TX .MN .RP RC K 04 TX NX TX NX	1SA RC .04 OE18 OE18 04 RC RP OE18 RX	1E18 RP .RC 1SA 1SA RP OE18 1SA OE18	1TF OE18 .0E18 1SA 1E18 OE18 1SA OE18	RP 1SA 1E18 1TF RP 1SA 1E18 1TF 1SA OE18	1E18 1E18 1E18 1E18 1E18 1E18 1E18 1E18	01 1TF 1TF .02 03 RP RP 05	RP RP .04 04 RP RP		
657	RP and test, one side.											
	1SA OTF TX 1SA OTF .05 1SA .01	TO RP .TX TO RP TXC TX TOA-	TX .TX TX TX TX TX	04 RX .MN RC- RC	01 01 02 02	RC .NX .04 RP OE18 RC	RX RC .04 MNA OE18 RC	RP .RP RP MNA 1SA RC	03 03 03 03 05	OE18 RC .OE18 MNA 1E18 TXC	1SA .05 1SA MNA OTF TX	1E18 TXC .1E18 MN RP

	1SA	TO		TX	MN		04	RP		OE18	1SA	1E18		OTF	
	RP	.	02	MNA	.	01	RC-	.	03	MNA	MN	.	05	TXC	
	TX	.		.	K		NX	RP		OE18	1SA	1E18		OTF	
	1SA	TO		TX	.	01	RC-	.	03	04-	.	04	NX	.	05
	RP	.	02	KB	.										
	TXC	TX		.	MN		04	RP		OE18	1SA	1E18		OTF	
	1SA	TO		TX	.	01	RC-	.	02	MNA	MN	.	05	TXC	
	RP	.	03	MNA	.										
	TX	.		.	.										
658	1SA	TX		K	RC		RX	RP		OE18	1SA	1E18		OTF	
	RP	.	04	RC	.	05	TXC	TX							
	1SA	TO		TX	MN		RP	OE18		1SA	1E18		05	OTF	RP
	.	04	KB-	.	01	RC-	.	02	MNA	MN				TXC	TX
	1SA	TO		TX	K		MN	04	RP		03	OE18		1SA	1E18
	OTF	RP		.	04	04	.	01	RC-	.		MNA		MN	.
	TXC	TX		.											05
	1SA	TX		MN	NX		04	RX	RP		OE18	1SA		1E18	
	OTF	RP		.	05	TXC	.	02	MNA	MN	.	03	MNA	MN	
659	RP or	test, zero side.		Logic	for zero side	RP is	on boards	336, 337, 338, 437.							
	OSA	RP	OE18	OSA	1E18	OTF	RP	01	OSA	1E18	OTF	RP			
	1SA	TO	TX	RC	RX	OE18	OSA		OSA	1E18	OTF	RP			
	.	01	.	.	.	.	.		.	.	.	.
	OSA	K	04	RC	RP	OE18	OSA		OSA	1E18	OTF	RP			
	.	02	.	.	.	.	.		.	.	.	.
	1SA	TO	TX	MN	OE18	OSA	1E18		OSA	1E18	OTF	RP		02	
	OSA	RC	RP	OE18	OSA	1E18	OTF		OSA	1E18	OTF	RP		03	
	1SA	TO	TX	K	MN	04	OE18		OSA	1E18	OTF	RP			
	RP	.	03	.	.	.	.		.	.	.	.
	OSA	04	RC	RP	OE18	OSA	1E18		OSA	1E18	OTF	RP			04
	1SA	TO	TX	K	NX	OE18	OSA		OSA	1E18	OTF	RP			
	.	04			
	OSA	TO	TX	MN	NX	RX	RP		RP	OE18	OSA	1E18			
	OTF	RP				
	1SA	OE18	OSA	05	1E18	OTF	RP				

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660	RP and test, zero side.												
	1SA	TO											
	RP		01	RX-		02	RC		03	OE18	OSA	1E18	1TF
	1SA	TO			04		RX			OE18	OSA	1E18	TO
		01	RC-		02	MNA-	MN-		03	MNA-	MN-		05
	TO												TOB
	1SA	TO			04		RX			OE18	OSA	1E18	RP
		02	MNA-		01	RC-			03	MNA-	MN-		05
	1SA	TO				K	MN			RX	OE18	OSA	TOB
	RP		02	KB			01	RC-			03	04-	1E18
	TOB	TO											04
	1SA	TO			04		RX			OE18	OSA	1E18	1TF
		03	MNA-		01	RC-			02	MNA-	MN-		05
	1SA	TO				K	NX			RC	OE18	OSA	TOB
	RP		04	RC			01	RX-			05	TOB	1E18
	1SA	TO				NX		RX		OE18	OSA	1E18	1TF
		04	KB-		01	RC-			02	MNA-	MN-		05
													TOB
661	1SA	TO											
	1TF	RP		04	04			01	RC-		03	OE18	OSA
	TOB	TO										MNA-	MN-
	1SA	TO										1E18	1E18
	TXA-		05	TOB								1TF	RP
	1SA	TO		OE18		OSA		1E18	1TF	RP		05	TOB
662	RX or test, one side. Logic for one side RX is on boards 326, 329.												
	OSA	RO		OE18	1SA	1E18	1TF	RX			01		
	1SA	RX		OE18	1SA	1E18	1TF	RX			01		
663	RX and test, one side.												
	1SA	RX		RO	OE18	1SA	1E18	OTF	RX			01	RO
664	RX or test, zero side. Logic for zero side RX is on boards 326, 329.												
	OSA	RX		OE18	OSA	1E18	OTF	RX			01		
	1SA	RO		OE18	OSA	1E18	OTF	RX			01		
665	RX and test, zero side.												
	1SA	OE18		OSA	1E18	1TF	RX			01	RO-		
666	TSO or test, one side. Logic for one side TSO is on board 332.												
	OSA	B6		B5	B3	B2	OE18	1SA	1E18	1TF	TSO		
		01											
	1SA	B1		TSO	OE18	1SA	1E18	1TF	TSO			01	

Tape stops Marker number

679	TO and test, one side.											
	1SA	TO		AK	B2	D	OE18	1SA	1E18	OTF		
	TO		01	TXS	.	.	.	.	.	.
	1SA	TO		TX	B2	D	E	S	OE18	1SA	1E18	
	OTF	TO		02	KD1	.	.	.	.	.	.
	1SA	TO		TX	B2	K	S	OE18	1SA	1E18	OTF	
	TO		02	E-	.	.	.	.	.	.	.
	1SA	TO		TX	AK	B2	E	K	S	OE18	1SA	
	1E18	OTF		TO	02	AKA	.	.	.	.	.
	1SA	TO		TX	B2	E	K	OE18	1SA	1E18	OTF	
	TO		02	S-	.	.	.	.	.	.	.
	1SA	TX		B2	E	K	S	OE18	BSC	TO	1E18	
	OTF	TO		02	TO-	.	.	.	.	.	.
680	TO or test, zero side. Logic for zero side TO is on boards 337, 339.											
	OSA	TO		OE18	OSA	1E18	OTF	TO	.	01	.	
	1SA	OE18		OSA	1E18	OTF	TO	.	01	.	.	
681	TO and test, zero side.											
	1SA	TO		OE18	BSC	TO	OE18	1TF	TO	.	01	TOA
682	XC or test, one side. Logic for one side XC is on boards 315, 316, 317.											
	OSA	TO		D	OE18	1SA	1E18	1TF	XC	.	01	.
	1SA	ID		XC	OE18	1SA	1E18	1TF	XC	.	01	.
	OSA	TO		AK	CL7	IP	OE18	1SA	1E18	1TF	.	XC
	.	02		.	.	.	.	.	.	.	.	.
	1SA	D		E	K	XC	OE18	1SA	1E18	1TF	.	XC
	.	02		.	.	.	.	.	.	.	.	.
	OSA	TO		AK	OB4	OB2	05	OE18	1SA	1E18	1TF	.
	XC			03	.	.	.	.	.	.	.	.
	1SA	DSP		D	E	IP	K	OB3	XC	OE18	1SA	.
	1E18	1TF		XC	.	03	.	.	.	.	.	.
	OSA	AP		K	MC	OE18	1SA	1E18	1TF	XC	.	04
	1SA	TO		TX	AC	D	XC	OE18	1SA	1E18	1TF	.
	XC			04	.	.	.	.	.	.	.	.
	OSA	AC		AP	K	OE18	1SA	1E18	1TF	XC	.	05
	1SA	TO		TX	D	MC	XC	OE18	1SA	1E18	1TF	.
	XC			05	.	.	.	.	.	.	.	.
	OSA	AC		C4	K	MC	OE18	1SA	1E18	1TF	XC	.
	.	06		.	.	.	.	.	.	.	.	.
	1SA	TO		TX	D	XC	OE18	1SA	1E18	1TF	XC	.
	.	06		.	.	.	.	.	.	.	.	.
683	OSA E OE18 1SA 1E18 1TF XC 07											
	1SA	AK		D	K	05	XC	OE18	1SA	1E18	1TF	
	XC			07	.	.	.	.	.	.	.

684	XC and test, one side.										
	1SA	E	K	XC	OE18	1SA	1E18	OTF	XC	.	01
	ID-	.	02 KIOC	KIO	D-	.	.	.	.	.	.
	1SA	CL7	D	E	ID	K	OB4	02 OB2	XC	OE18	
	1SA	1E18	OTF	XC	.	01 D	.	.	CL7	.	
	1SA	TO	TX	AC	ID	MC	XC	02 OE18	1SA	1E18	
	OTF	XC	.	01 TOB	.	.	.	.	.	.
	1SA	CL7	E	XC	OE18	1SA	1E18	OTF	XC	.	02
	KIOC	.	01 ID-	.	.	.	.	.	.	.
	1SA	TO	TX	AC	D	E	K	MC	OB4	OB2	
	XC	OE18	1SA	1E18	OTF	XC	.	02 IPO	.	.	
	1SA	D	ID	K	05	XC	OE18	1SA	1E18	OTF	
	XC	.	02 E-	.	01 D	.	07 KSUO	AKA-	AK-	.	
	1SA	CL7	DSP	D	E	ID	K	OB3	XC	OE18	
	1SA	1E18	OTF	XC	.	03 IP-	.	01 D	.	02 KIOC	
	CL7	.	.	.	.	.	.	.	.	.
685	1SA	IP	OB4	01 OB2	XC	OE18	1SA	1E18	OTF	XC	
	.	03 OSHB	.	ID-	ID	IP	K	OB3	05	XC	
	1SA	DSP	D	E	ID	IP	K	OB3	01 D	.	02
	OE18	1SA	1E18	OTF	XC	.	03 05	.	.	.	
	IPO	IP	.	.	DSP	D	E	IP	K	MC	
	1SA	TO	TX	AC	1E18	OTF	XC	.	03 TOB	XC	
	OB3	XC	OE18	1SA	AK	AP	D	MC	05 AP	.	07
	1SA	TO	TX	AC	XC	.	04 AP	.	.	.	
	OE18	1SA	1E18	OTF	.	.	05 MC-	.	06 C4	1SA	07
	KSUO	KED2	K-	.	C4	D	05	XC	OE18	.	
	1SA	TO	TX	AK	04 AC-	.	05 MC-	.	06 C4	.	07
	1E18	OTF	XC	.	AK	AP	D	05	XC	OE18	
	KSUO	KED2	K-	.	.	AC	.	04 AP	.	07 KSUO	
	1SA	TO	TX	AC	06 AC	.	.	.	.	.
	1SA	1E18	OTF	XC	.	.	.	.	.	.
	KED2	K-	.	.	.	.	.	.	.	.
686	1SA	TO	TX	AK	AP	D	MC	05	XC	OE18	
	1SA	1E18	OTF	XC	.	06 MC	.	05 AP	.	07 KSUO	
	KED2	K-	.	.	.	.	.	.	.	.
	1SA	TO	TX	E	ID	K	XC	OE18	1SA	1E18	
	OTF	XC	.	06 KD2	ID	TOB	TO	1E18	OTF	XC	
	1SA	D	E	01 D	XC	OE18	1SA	1E18	OTF	XC	
	.	06 TOX-	.	01 D	.	02 KIOC	KIO	K-	.	.	
	1SA	AP	CL7	01 C4	E	05	XC	OE18	1SA	1E18	
	OTF	XC	.	07 KSUO	.	01 ID-	
	1SA	AK	D	ID	K	XC	OE18	1SA	1E18	OTF	
	XC	.	07 05-	.	01 D	

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687	XC or test, zero side. Logic for zero side XC is on boards 316, 317.										
	OSA	TX	E	K	XC	OE18	OSA	1E18	OTF	XC	
		01									
	1SA	CL4	OE18	OSA	1E18	OTF	XC		01		
	OSA	CL4	XC	OE18	OSA	1E18	OTF	XC		02	
	1SA	TX	E	K	OE18	OSA	1E18	OTF	XC		02
688	XC and test, zero side.										
	1SA	TX	CL4	OE18	OSA	1E18	1TF	XC		01	TXC
	1SA	TX	OE18	OSA	1E18	1TF	XC		02	KEO	01
	TXC	TX									
	1SA	TX	CL4	E	K	OE18	OSA	1E18	1TF		XC
		02	CL4		01	TXC	TX				
	1SA	TX	E	ID	K	XC	OE18	BSC	XC		1E18
	1TF	XC		02	XC		01	TXC	TX		
689	XP or text, one side. Logic for one side XP is on boards 334, 335, 336, 436.										
	OSA	K	MP	OE18	1SA	1E18	1TF	XP		01	
	1SA	XP	OE18	1SA	1E18	1TF	XP		01		
	OSA	XC	OE18	1SA	1E18	1TF	XP		02		
	1SA	CL4	E	K	XP	OE18	1SA	1E18	1TF		XP
		02									
	OSA	E	XC	IX	OE18	1SA	1E18	1TF	XP		03
	1SA	K	XP	OE18	1SA	1E18	1TF	XP		03	
	OSA	CL4	OE18	1SA	1E18	1TF	XP		04		
	1SA	K	XC	XP	OE18	1SA	1E18	1TF	XP		04
690	XP and test, one side.										
	1SA	CL4	E	MP	XP	OE18	1SA	1E18	OTF		XP
		01									
	1SA	CL4	E	K	XC	XP	IX	OE18	1SA	1E18	
	OTF	XP		01	KB		02	XC	04	CL4	
	1SA	CL4	K	01	XP	IX	OE18	1SA	1E18	OTF	XP
		02						03	IX		
	1SA	E-		01	KB	K	03	1SA	1E18	OTF	XP
		02						04	E	04	XC-
	CL4-		01	KB	K	03	XP	OE18	1SA	1E18	OTF
	1SA	CL4	K	01	XC	XP	04	1SA	CL4	1E18	OTF
		03						04	1SA	1E18	OTF
	1SA	MP	XC	01	KB	XP	OE18	1SA	1E18	OTF	XP
		03									
	KB-		01	MP							
691	XP or test, zero side. Logic for zero side XP is on boards 334, 335, 436.										
	OSA	K	XP	OE18	OSA	1E18	OTF	XP		01	
	1SA	MP	OE18	OSA	1E18	OTF	XP		01		
	OSA	CL4	XC	XP	OE18	OSA	1E18	OTF			02
	1SA	E	K	OE18	OSA	1E18	OTF	XP		02	

	OSA	E	XC	XP	OE18	OSA	1E18	OTF	XP	.	03		
	1SA	K	IX	OE18	OSA	1E18	OTF	XP	.	03	.		
	OSA	XP	OE18	OSA	1E18	OTF	XP	.	04	.	.		
	1SA	CL4	K	XC	OE18	OSA	1E18	OTF	.	.	.	04	
692	XP and test, zero side.												
	1SA	E	OE18	OSA	1E18	1TF	XP	.	01	MP-	.		
	1SA	CL4	E	K	MP	OE18	OSA	1E18	.	1TF	XP		
	1SA	01	KB	.	02	CL4	04	XC-	.	.	.		
	1SA	.	K	MP	OE18	OSA	1E18	1TF	XP	.	02	E-	
	1SA	01	KB	K	.	03	IX-	.	.	.	.
	1SA	.	E	K	MP	XC	OE18	OSA	1E18	1TF	XP		
	1SA	02	XC	.	01	KB	K	04	CL4-	.	.		
	1SA	.	CL4	E	.	K	MP	IX	OE18	OSA	1E18	1TF	
	XP	.	.	03	E	.	01	KB	K	02	CL4	04	XC-
	1SA	.	K	MP	XC	IX	OE18	OSA	1E18	1TF	XP	.	04
	1SA	03	XC	.	01	KB	K	04	CL4-	.	.	.	
	1SA	.	CL4	XC	OE18	OSA	1E18	1TF	XP	.	04	KB-	
	.	01	MP-	.	.	.	.	.	.	.	.	.
693	X2 or test, one side. Logic for one side X2 is on board 337.												
	OSA	TX	DSP	X1	OE18	1SA	1E18	1TF	X2	.	.	01	
	1SA	B2	X2	S	OE18	1SA	1E18	1TF	X2	.	.	01	
694	X2 and test, one side.												
	1SA	B2	S	OE18	BSC	X2	1E18	OTF	X2	.	.	01	
	X2-	.	.	.	.	.	.	.	.	.	.	.
	1SA	01	B2	X2	X1	S	OE18	1SA	1E18	OTF	X2		
	1SA	.	X1	.	.	.	.	.	.	.	.	.
	1SA	TX	DSP	X2	OE18	1SA	1E18	OTF	X2	.	.	01	
	XCT	.	.	.	.	.	.	.	.	.	.	.
695	X2 or test, zero side. Logic for zero side X2 is on board 337.												
	OSA	TX	DSP	X2	X1	OE18	OSA	1E18	OTF	X2	.		
	1SA	01	B2	S	OE18	OSA	1E18	OTF	X2	.	01	.	
696	X2 and test, zero side.												
	1SA	B2	X2	S	OE18	BSC	X2	1E18	1TF	X2	.		
	1SA	01	X2	.	.	.	.	.	.	.	.	.
	1SA	B2	X1	S	OE18	OSA	1E18	1TF	X2	.	.	01	
	X1	.	.	.	.	.	.	.	.	.	.	.
	1SA	TX	DSP	OE18	OSA	1E18	1TF	X2	.	01	XCT		
697	XD or test, one side. Logic for one side XD is on boards 332, 333.												
	OSA	TX	OE18	1SA	1E18	1TF	XD	.	01	.	.		
	1SA	XD	S	OE18	1SA	1E18	1TF	XD	.	01	.		

Tape stops	Marker number	
698		XD and test, one side. 1SA XD OE18 1SA 1E18 OTF XD . 01 SA- . 1SA TX XD S OE18 1SA 1E18 OTF XD . 01 TX
699		XD or test, zero side. Logic for zero side XD is on boards 332, 333. OSA TO DSP XD OE18 OSA 1E18 OTF XD . 01 1SA S OE18 OSA 1E18 OTF XD . 01
700		XD and test, zero side. 1SA OE18 OSA 1E18 1TF XD . 01 SA- . 1SA TO S OE18 OSA 1E18 1TF XD . 01 TOB 1SA DSP S OE18 OSA 1E18 1TF XD . 01 DSP
701		XR or test, one side. Logic for one side XR is on boards 206, 328. OSA D K TP XC OE18 1SA 1E18 1TF XR 01 1SA XR OE18 1SA 1E18 1TF XR 01 . . OSA B2 E K 04 03 TX OE18 1SA 1E18 1TF XR . 02 1SA D 06 05 TP XC XR OE18 1SA 1E18 1TF XR . 02
702		XR and test, one side. 1SA D K XR OE18 1SA 1E18 OTF XR . 01 KD3 1SA XC XR OE18 1SA 1E18 OTF XR . 01 XC 1SA TP XR OE18 1SA 1E18 OTF XR 01 TPB 1SA D E 06 05 TP XC XR OE18 1SA 1E18 OTF XR . 02 E 1SA D K 04 TP XC XR OE18 1SA 1E18 OTF XR . 02 OJ 1SA D 06 05 03 TP XC XR OE18 1SA 1E18 OTF XR . 02 03 1SA D 06 05 TP TX XC XR OE18 1SA 1E18 OTF XR . 02 TXS TX 1SA B2 D 06 05 TP XC XR OE18 1SA 1E18 OTF XR . 02 TXS B2
703		XR or test, zero side. Logic for zero side XR is on board 206. OSA B6 TSO XR OE18 OSA 1E18 OTF XR . 01 1SA OE18 OSA 1E18 OTF XR . 01

704	XR and test, zero side.											
	1SA	B6	TS0	OE18	OSA	1E18	1TF	XR	.	01	T32	
705	CLC or test, one side.	Logic for one side	CLC is on boards	340, 401, 338.								
	OSA	TO	CN3	C7	C5	E	K	05	04	01	03	
	02	E1	E2	OE18	1SA	1E18	1TF	CLC	.	.	E4	
	1SA	TX	CN4	C6	CN2	06	TP	CLC	E3	.	.	
	OE18	1SA	1E18	1TF	CLC	.	01	.	.	.	.
706	CLC and test, one side.											
	1SA	TO	CN4	C7	C6	E	K	CN2	05	04		
	03	02	CLC	E3	E4	OE18	1SA	1E18	OTF	CLC		
	.	01 OX0	.	.	.	.	.	.	.	.	.
	1SA	TX	CN4	CN2	06	TP	CLC	E3	E4	OE18		
	1SA	1E18	OTF	CLC	.	01 C6-	.	.	.	.	.
	1SA	TX	CN4	C6	C5	CN2	06	TP	CLC	E3		
	E4	OE18	1SA	1E18	OTF	CLC	.	01 C5	.	.	.	
	1SA	TX	CN3	C6	06	TP	CLC	E1	E2	OE18		
	1SA	1E18	OTF	CLC	.	01 CNL2	.	.	.	.	.
707	CLC or test, zero side.	Logic for zero side	CLC is on boards	336, 340, 401, 338.								
	OSA	TO	CN3	C7	C5	E	K	CN2	05	04		
	03	02	CLC	E3	OE18	OSA	1E18	OTF	CLC	.	01	
	1SA	TX	CN4	C6	06	TP	E1	E2	E4	PS		
	OE18	OSA	1E18	OTF	CLC	.	01	.	.	.	.
	OSA	TX	CN4	C6	06	TP	CLC	E1	E2	E4		
	PS	OE18	OSA	1E18	OTF	CLC	.	02	.	.	.	
	1SA	TO	CN3	C7	C5	E	K	CN2	05	04		
	03	02	E3	OE18	OSA	1E18	OTF	CLC	.	02	.	
708	CLC and test, zero side.											
	1SA	TO	CN4	C7	C6	E	K	05	04	03		
	02	E1	E2	E4	PS	OE18	OSA	1E18	1TF	CLC		
	.	01 OX0	.	02 *TD	PS	.	.	.	.	.	.
	1SA	TX	CN4	06	TP	E1	E2	E4	PS	OE18		
	OSA	1E18	1TF	CLC	.	01 C6-	.	02 *TD	PS	.	.	
	1SA	TX	CN4	C6	C5	06	TP	E1	E2	E4		
	PS	OE18	OSA	1E18	1TF	CLC	.	01 C5	.	02 *TD		
	PS	.	.	.	.	.	.	.	.	.	.
	1SA	TX	CN3	C6	CN2	06	TP	E3	PS	OE18		
	OSA	1E18	1TF	CLC	.	01 CNL3	.	02 *TD	PS	.	.	
	1SA	TO	CN3	C7	C5	E	K	CN2	05	04		
	03	02	E3	PS	OE18	OSA	1E18	1TF	CLC	.	02	
	*TD	.	.	.	.	.	.	.	.	.	.

	03	OSA	AK	B6	B3	CP7	OB2	04	OE18	1SA	1E18	
		1TF	PP		04	B4	B2	B1	DSP	D	E	K
		1SA	TO	TX		TP	OE18	1SA	1E18	1TF	PP	04
		OB3	05	PP		1SA	1E18	1TF		05		
		OSA	AK	OE18		1SA						
713		1SA	D	E		K	OB2	PP	PS	OE18	1SA	1E18
		1TF	PP		05	OB3	05	TP	OE18	1SA	1E18	1TF
		OSA	E	LC								
		PP		06								
		1SA	AK	D		IP	K	04	PP	OE18	1SA	1E18
		1TF	PP		06	IP	05	TP	OE18	1SA	1E18	1TF
		OSA	AK	E								
		PP		07								
		1SA	D	K		LC	04	PP	OE18	1SA	1E18	1TF
		PP		07								
		OSA	E	IC		K	OE18	1SA	1E18	1TF	PP	08
		1SA	AK	CP76		D	MP	PP	OE18	1SA	1E18	1TF
		PP		08								
		OSA	AK	IC		K	OE18	1SA	1E18	1TF	PP	09
		1SA	CP76	D		E	MP	PP	OE18	1SA	1E18	1TF
		PP		09								
714		PP and test, one side.										
		1SA	CP76	MP		OE18	BSC	PP	1E18	OTF	PP	01
		PP-										
		1SA	CP76	PP		OE18	1SA	1E18	OTF	PP	01	MP-
		1SA	MP	PP		OE18	1SA	1E18	OTF	PP	01	CP76-
		1SA	AK	B3		CP76	D	IC	K	LC	MP	04
		PP	OE18	1SA		1E18	OTF	PP	01	KD3		07
		AK										KSU1
		1SA	CP76	MP		PP	XC	OE18	1SA	1E18	OTF	PP
		01	XC		09	PPCK	KDIC	D-				
		1SA	TO	TX		B6	B4	B2	CP7	CP76	DSP	D
		E	K	MP		OB3	05	PP	TP	PS	OE18	1SA
		1E18	OTF	PP			02	TRS	03	BL4	B1-	05
			09	PPCK		K						OB2-
		1SA	TO	TX		B6	B5	B3	CP76	DSP	D	E
		K	MP	OB3		05	PP	TP	PS	OE18	1SA	1E18
		OTF	PP		02	BL5		05	OB2-	09	PPCK	KDIC

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715	1SA E 1E18 OB2- 1SA E 1SA KDIC 1SA D 1SA OB2- 1SA K OTF	TO K OTF . TO K 1E18 K TO E 1E18 . TO MP PP	TX MP PP PPCK TX MP OTF . TX K OTF KDIC TX OB3 .	B6 OB3 . KDIC B6 OB3 PP . B6 MP PP K B6 OB3 BL4	03	B4 CP7- K B2 OB3 . B3 PP .	B2 05 . B1 OB3 . B3 PP .	04	B1 TP . . B1 PP . CP7 TP OB2-	04	CP76 PS TOP . CP7 TP OB2- . DSP OE18 PPCK	DSP OE18 B6 . DSP PS . D PS BL5 . D OE18 K	D 1SA . . D OE18 PPCK . DSP OE18 . E 1E18 K	05
716	1SA E 1E18 . 1SA K 1E18 K 1SA OB3 . 1SA 1SA 1SA K PP	TO K OTF PPCK TO MP OTF . TO PP T19 AK 1E18 TO MP .	TX MP PP KDIC TX OB3 PP . TX TP . B4 OTF TX OB3 05-	B4 OB3 . K B4 OB3 . B3 PS OB2- B2 PP B4 PP .	04	B2 05 CP7 . B2 04 04A . CP76 OE18 . B1 . B2 TP OB2-	09	B1 PP . PP . DSP 1SA PPCK IC TSH B1 PS .	03	CP7 TP TRC . CP76 TP OB2- . D 1E18 KDIC 05 CP76 OE18 PPCK	09	DSP OE18 . D OE18 PPCK . E OTF K PP XC . D 1E18 K	D 1SA OB2- . E 1SA KDIC . MP . OE18 . E OTF .	05
717	1SA OE18 1SA 1E18 1SA 1E18 1SA 1E18 1SA	AK 1SA AK OTF AK OTF AK OTF AK	D 1E18 E PP CP76 PP CP76 PP CP76	IC OTF IC . D . D . D	06	K PP IP KED2 IP 04A- K IP- IP	LC . 04 . K MP . K	05	OB2 KOPC PP . MP . 04 KSU1 LC	07	PP KSU1 OE18 . OE18 . OE18 . 04	XC AK 1SA . 1SA . 1SA . PP		

	OE18	1SA	1E18	OTF	PP	.	06	OLTP	.	07	KSU1	AK
	1SA	AK	IC	LC	04	PP		XC	OE18		1SA	1E18
	OTF	PP	.	07	KSU1	.		OB2	05	04	PP	.
	1SA	CP76	D	IP	K	MP		.	07	05	05	PP
	PS	OE18	1SA	1E18	OTF	PP		PPCK	09	05	05	KOPC
	E-	.	06	OLTP	05A	05		.			K	.
718	1SA	CP76	D	K	LC	MP		OB2	PP	PS	OE18	
	1SA	1E18	OTF	PP	.	07	04A-	.	05	E-	.	09
	PPCK	KDIC	K	.	.	.		.		PP	TP	.
	1SA	CP76	D	K	LC	MP		OB2	04	PP	TP	.
	PS	OE18	1SA	1E18	OTF	PP		.	07	TPB	.	05
	E-	.	09	PPCK	K	MP		PP		OE18	1SA	1E18
	1SA	AK	CP76	D	E	01	MP	PP	09	09	AK	.
	OTF	PP	.	08	E	01	KD3	D		09	AK	.
	1SA	TO	TX	B6	B5	B2	CP76	DSP		09	D	E
	OB3	05	PP	TP	OE18	1SA	1E18	OTF			PP	.
	PPCK	MP-	.	.	.	.	.	.			E	MP
	1SA	TO	TX	B6	B5	B2	DSP	D			E	MP
	OB3	05	PP	TP	OE18	1SA	1E18	OTF			PP	.
	PPCK	CP76-	.	.	.	.	.	.			PP	.
	1SA	B3	CP76	E	IC	LC	MP	PP			XC	OE18
	1SA	1E18	OTF	PP	.	09	PPCK	KDIC		01	XC	OE18
	1SA	MP	CP76	D	E	XC	OE18	BSC			PP	1E18
	OTF	PP	.	09	PPCK	PP-	.	.			.	.
719	PP or test, zero side. Logic for zero side PP is on boards 235, 234.											
	OSA	K	PP	OE18	OSA	1E18	OTF	PP	.	01	.	.
	1SA	TO	MP	OE18	OSA	1E18	OTF	PP		01	.	.
	OSA	TO	K	MP	PP	OE18	OSA	1E18	OTF		PP	.

	1SA	OE18	OSA	1E18	OTF	PP	.	.	02	.	.	.
	OSA	AK	OB3	OB2	04	PP	OE18	OSA	1E18	OTF	OTF	.
	PP	.	03	.	.	.	.	.			.	.
	1SA	D	E	K	OB4	OE18	OSA	1E18	OTF		PP	.

	OSA	D	PP	OE18	OSA	1E18	OTF	PP		04	.	.
	1SA	AK	K	TP	OE18	OSA	1E18	OTF			PP	04
	OSA	AK	B5	B3	OB2	PP	OE18	OSA	1E18	OTF	OTF	.
	PP	.	05	.	.	.	.	.			.	.
	1SA	TO	TX	B6	B2	B1	CP7	DSP			D	E
	K	OB3	05	04	TP	OE18	OSA	1E18	OTF		OTF	PP

	OSA	AK	B6	B4	B3	OB2	04	PP			OE18	OSA
	1E18	OTF	PP	.	06	.	.	.			.	.

Tape stops
Marker number

720	1SA OB3 OSA 1E18 1SA TP OSA 1SA	TO 05 AK OTF TO OE18 E D	TX TP B2 PP TX OSA 04 K	B5 OE18 B1 B4 1E18 PP OE18	B2 OSA CP7 B3 OTF TP OSA	B1 1E18 OB2 D D PP OE18 1E18	DSP OTF 05 D D PP OE18 OTF	D PP PP E E E 1E18 PP	E . OE18 K . OTF . .	K . OSA OB3 . PP . .	06 .
721	PP and test, zero side. 1SA 1E18 1SA 1SA 1E18 1SA KA 1SA PP 1SA 1E18 K	TO 1TF TO MP- AK 1TF KED2 AK TO D 1TF .	AK PP D B4 PP D- K TP- B4 OTR E PP AK-	CP76 E TO B3 OB2 B3 K .	MP PP OB4 K KA OE18 KED2 OB2 MP- MP 04A .	PP OE18 OTR MP OSA 1E18 D- 05 OB4 K .	TP TO OSA KIOS OB2 KA 1E18 1TF OSA OE18 TO 04 KA K .	OE18 1E18 K- 05 K 1TF . TP K .	BSC K- 1TF OE18 . PP 1E18 OE18 . KIOS D 1TF K .	PP . PP OSA TP- . . 1TF OSA KA . .	04 04 04 01 02 02 01 02 01 01 02 01 07 06 07
722	1SA MP 1SA K PP 1SA K PP 04 1SA K PP 04 1SA MP .	TO OB3 CP7- TO MP AK- TO MP TRC TO OB3 BL4	TX 05 TX OB4 04A- TX OB3 TRC TX 05 TX 05 .	B6 04 KA B6 OB3 05 B5 05 B6 04 KA	B2 TP K B2 05 KA B2 04 KA B3 TP K	B1 OE18 B1 TP K KED2 B1 TP K CP7 OE18 CP7 OE18 CP7 OE18 .	DSP OSA AK- CP7 OE18 E CP7 OE18 K DSP OSA AK- D OSA 1E18 AK- D OSA 1E18 .	D 1E18 . DSP OSA OTR E DSP OSA AK- D 1E18 E 1TF 05	E 1TF 05 D 1E18 KIOS . D 1E18 . E 1TF 05	K PP E 1TF OB3 . E 1TF 04A K PP K PP .	07 07 03 08 04 04 04 07 07 07

Tape stops Marker number

728	LX and test, zero side.											
	1SA	TX	B2	CR4	G	NC	06	04	03	TP		
	OE18	OSA	1E18	1TF	LX	.	01	LO-	.	02	TXF	TX
	.	04	TXF	TX	.	.	.	.	.	.	.	.
	1SA	E	K	05	LO	OE18	OSA	1E18	1TF	LX	.	.
	.	01	TXP-	.	.	.	.	.	.	.	.	.
	1SA	B2	NC	06	04	03	02	TP	LO	OE18		
	OSA	1E18	1TF	LX	.	02	CR4-	.	01	TXP-	TX-	03
	OD	04	.	04	G-	.	.	.	.	.	.	.
	1SA	B2	CR4	E	K	05	TP	LO	OE18	OSA		
	1E18	1TF	LX	.	02	OMNF	.	01	TXP-	TX-	04	G-
	1SA	CR4	NC	06	04	03	OE18	OSA	1E18	1TF		
	LX	.	02	TXF	.	.	.	.	.	.	.	.
	1SA	B2	E	K	05	02	TP	LO	OE18	OSA		
	1E18	1TF	LX	.	03	OD	.	01	TXP-	TX-	04	G-

729	1SA	B2	CR4	NC	06	03	TP	LO	OE18	OSA		
	1E18	1TF	LX	.	03	02-	.	01	TXP-	TX-	02	OMNF
	OM	04-	.	04	G-	.	.	.	.	.	.	.
	1SA	06	03	02	OE18	OSA	1E18	1TF	LX	.		03
	TXF	.	.	.	.	.	.	.	.	.	.	.
	1SA	E	G	K	05	OE18	OSA	1E18	1TF	LX		
	.	04	TXF	.	.	.	.	.	.	.	.	.

CH 730 End of tape B. Momentarily place the SDR TAPE ADVANCE switch in the ON position, advance the tape into the takeup canister and return it to the tape cartridge.

Section IV. SPECIAL ERROR PROCEDURE

Tape stops	Marker number	Index marker	Replace boards	Tape stops	Marker number	Index marker	Replace boards
	340	002	207		340	023	227
	340	003	224		340	024	212
	340	004	315		340	025	215
	340	005	441		340	026	212
	340	006	208		340	027	235
	340	007	232		340	028	336
	340	008	338		340	029	321
	340	009	317		340	030	230
	340	010	339		340	031	340
	340	011	233		340	032	223
	340	012	234		340	033	314
	340	013	321		340	034	231
	340	014	234		340	035	441
	340	015	335		340	036	208
	340	016	238		340	037	317
	340	017	332		340	038	218
	340	018	231		340	039	217
	340	019	233		340	040	210
	340	020	206		340	041	327
	340	021	207		340	042	333
	340	022	228		340	043	228

Tape stops	Marker number	Index marker	Replace boards
	340	044	232
	340	045	209
	340	046	223
	340	047	318
	340	048	331
	340	049	318
	340	050	209
	340	051	235
	340	052	334
	340	053	329
	340	054	210
	340	055	333
	340	056	337
	340	057	338
	340	058	435
	340	059	435
	340	060	439
	340	061	436
	340	062	305
	340	063	311
	340	064	306
	340	065	308

Tape stops	Marker number	Index marker	Replace boards
	340	066	303
	340	067	302
	340	069	339
	340	070	239
	340	071	320
	340	072	226
	340	073	440
	340	074	340
	340	075	238
	340	076	218
	340	077	330
	340	078	314
	340	079	337
	340	080	213
	340	081	319
	340	082	319
	340	083	240
	340	084	237
	340	085	237
	340	086	227
	340	087	217
	340	088	328

Tape stops	Marker number	Index marker	Replace boards
	340	089	330
	340	090	229
	341	001	336
	341	002	216
	341	003	213
	341	004	240
	341	005	224
	341	006	326
	341	007	230
	341	008	211
	341	009	440
	341	010	320
	340	011	316
	341	012	315
	341	013	211
	341	014	229
	341	015	215
	341	016	239
	341	017	216
	341	018	341
	341	019	328
	341	020	327

Tape stops	Marker number	Index marker	Replace boards
	341	021	226
	341	022	214
	341	023	341
	341	024	223
	341	025	222
	341	026	335
	341	027	222
	341	028	329
	341	029	331
	341	030	326
	341	031	332
	341	032	316
	341	033	206
	341	034	214
	341	035	438
	341	036	438
	341	037	436
	341	038	437
	341	039	313
	341	040	312
	341	041	310
	341	042	307

Tape stops	Marker number	Index marker	Replace boards
	341	043	309
	341	044	304
	341	045	301
	341	070	207
	341	071	239
	341	072	315
	341	073	226
	341	074	208
	341	075	340
	341	076	338
	341	077	218
	341	078	339
	341	079	314
	341	080	234
	341	081	213
	341	082	234
	341	083	319
	341	084	238
	341	085	237
	341	086	231
	341	087	227
	341	088	206

Tape stops	Marker number	Index marker	Replace boards
	341	089	328
	341	090	228
	341	091	229
	341	092	212
	341	093	216
	341	094	212
	341	095	240
	341	096	336
	341	097	326
	341	098	230
	341	099	211
	341	100	223
	341	101	320
	341	102	231
	341	103	315
	341	104	208
	341	105	229
	341	106	218
	341	107	239
	341	108	210
	341	109	341
	341	110	333

Tape stops	Marker number	Index marker	Replace boards
	341	111	327
	341	112	232
	341	113	214
	341	114	334
	341	115	223
	341	116	331
	341	117	335
	341	118	209
	341	119	329
	341	120	334
	341	121	326
	341	122	210
	341	123	316
	341	124	337
	341	125	214
	341	126	435
	341	127	438
	341	128	439
	341	129	437
	341	130	305
	341	131	312
	341	132	306

Tape stops	Marker number	Index marker	Replace boards
	341	133	307
	341	134	303
	341	135	304
	341	137	339
	341	138	224
	341	139	320
	341	140	441
	341	141	440
	341	142	232
	341	143	238
	341	144	317
	341	145	330
	341	146	233
	341	147	337
	341	148	321
	341	149	319
	341	150	335
	341	151	240
	341	152	332
	341	153	237
	341	154	233
	341	155	217

Tape stops	Marker number	Index marker	Replace boards
	341	156	207
	341	157	330
	341	158	227
	341	159	336
	341	160	215
	341	161	213
	341	162	235
	341	163	224
	341	164	321
	341	165	230
	341	166	340
	341	167	440
	341	168	314
	341	169	316
	341	170	441
	341	171	211
	341	172	317
	341	173	215
	341	174	217
	341	175	216
	341	176	327
	341	177	328

Tape stops	Marker number	Index marker	Replace boards
	341	178	228
	341	179	226
	341	180	209
	342	001	341
	342	002	318
	342	003	222
	342	004	318
	342	005	222
	342	006	235
	342	007	331
	342	008	329
	342	009	332
	342	010	333
	342	011	206
	342	012	338
	342	013	438
	342	014	435
	342	015	436
	342	016	436
	342	017	313
	342	018	311
	342	019	310

Tape stops	Marker number	Index marker	Replace boards
	342	020	308
	342	021	309
	342	022	302
	342	023	301
	342	028	207
	342	029	239
	342	030	224
	342	031	320
	342	032	208
	342	033	340
	342	034	232
	342	035	238
	342	036	339
	342	037	314
	342	038	233
	342	039	337
	342	040	234
	342	041	319
	342	042	335
	342	043	240
	342	044	231
	342	045	227

Tape stops	Marker number	Index marker	Replace boards
	342	046	233
	342	047	217
	342	048	228
	342	049	229
	342	050	227
	342	051	336
	342	052	212
	342	053	240
	342	054	235
	342	055	224
	342	056	230
	342	057	211
	342	058	340
	342	059	440
	342	060	231
	342	061	315
	342	062	441
	342	063	211
	342	064	218
	342	065	239
	342	066	217
	342	067	216

Tape stops	Marker number	Index marker	Replace boards
	342	068	333
	342	069	327
	342	070	228
	342	071	226
	342	072	334
	342	073	223
	342	074	318
	342	075	222
	342	076	209
	342	077	329
	342	078	235
	342	079	331
	342	080	210
	342	081	316
	342	082	333
	342	083	206
	342	084	435
	342	085	438
	342	086	435
	342	087	436
	342	088	305
	342	089	312

Tape stops	Marker number	Index marker	Replace boards
	342	090	311
	342	091	310
	342	092	303
	342	093	304
	342	094	302
	342	095	301
	342	097	339
	342	098	315
	342	099	226
	342	100	441
	342	101	440
	342	102	338
	342	103	218
	342	104	317
	342	105	330
	342	106	234
	342	107	213
	342	108	321
	342	109	319
	342	110	238
	342	111	237
	342	112	332

Tape stops	Marker number	Index marker	Replace boards
	342	113	237
	342	114	206
	342	115	328
	342	116	207
	342	117	330
	342	118	212
	342	119	216
	342	120	215
	342	121	213
	342	122	336
	342	123	326
	342	124	321
	342	125	230
	342	126	223
	342	127	320
	342	128	314
	342	129	316
	342	130	208
	342	131	229
	342	132	317
	342	133	215
	342	134	210

Tape stops	Marker number	Index marker	Replace boards
	342	135	341
	342	136	327
	342	137	328
	342	138	232
	342	139	214
	342	140	209
	342	141	341
	342	142	331
	342	143	355
	342	144	318
	342	145	222
	342	146	334
	342	147	326
	342	148	329
	342	149	332
	342	150	337
	342	151	214
	342	152	338
	342	153	438
	342	154	439
	342	155	437
	342	156	438

Tape stops	Marker number	Index marker	Replace boards
	342	157	313
	342	158	306
	342	159	307
	342	160	308
	343	001	309
	343	006	207
	343	007	239
	343	008	224
	343	009	320
	343	010	315
	343	011	226
	343	012	441
	343	013	440
	343	014	339
	343	015	314
	343	016	233
	343	017	337
	343	018	234
	343	019	213
	343	020	321
	343	021	319
	343	022	231

Tape stops	Marker number	Index marker	Replace boards
	343	023	227
	343	024	233
	343	025	217
	343	026	206
	343	027	328
	343	028	207
	343	029	330
	343	030	212
	343	031	240
	343	032	235
	343	033	224
	343	034	336
	343	035	326
	343	036	321
	343	037	230
	343	038	231
	343	039	315
	343	040	441
	343	041	211
	343	042	208
	343	043	229
	343	044	317

Tape stops	Marker number	Index marker	Replace boards
	343	045	215
	343	046	333
	343	047	327
	343	048	228
	343	049	226
	343	050	232
	343	051	214
	343	052	209
	343	053	341
	343	054	209
	343	055	329
	343	056	235
	343	057	331
	343	058	334
	343	059	326
	343	060	329
	343	061	332
	343	062	435
	343	063	438
	343	064	435
	343	065	436
	343	066	439

Tape stops	Marker number	Index marker	Replace boards
	343	067	437
	343	068	436
	343	069	313
	343	070	303
	343	071	304
	343	072	302
	343	073	301
	343	075	339
	343	076	208
	343	077	340
	343	078	232
	343	079	238
	343	080	338
	343	081	218
	343	082	317
	343	083	330
	343	084	234
	343	085	319
	343	086	335
	343	087	240
	343	088	238
	343	089	237

Tape stops	Marker number	Index marker	Replace boards
	343	090	332
	343	091	237
	343	092	228
	343	093	229
	343	094	227
	343	095	336
	343	096	212
	343	097	216
	343	098	215
	343	099	213
	343	100	230
	343	101	211
	343	102	340
	343	103	440
	343	104	223
	343	105	320
	343	106	314
	343	107	316
	343	108	218
	343	109	239
	343	110	217
	343	111	216

Tape stops	Marker number	Index marker	Replace boards
	343	112	210
	343	113	341
	343	114	327
	343	115	328
	343	116	334
	343	117	223
	343	118	318
	343	119	222
	343	120	331
	343	121	335
	343	122	318
	343	123	222
	343	124	210
	343	125	316
	343	126	333
	343	127	206
	343	128	337
	343	129	214
	343	130	338
	343	131	438
	343	132	305
	343	133	312

Tape stops	Marker number	Index marker	Replace boards
	343	134	311
	343	135	310
	343	136	306
	343	137	307
	343	138	308
	343	139	309
	343	144	207
	343	145	239
	343	146	224
	343	147	320
	343	148	315
	343	149	226
	343	150	441
	343	151	440
	343	152	208
	343	153	340
	343	154	232
	343	155	238
	343	156	338
	343	157	218
	343	158	317
	343	159	330

Tape stops	Marker number	Index marker	Replace boards
	343	160	231
	344	001	227
	344	002	233
	344	003	217
	344	004	206
	344	005	328
	344	006	207
	344	007	330
	344	008	228
	344	009	229
	344	010	227
	344	011	336
	344	012	212
	344	013	216
	344	014	215
	344	015	213
	344	016	231
	344	017	315
	344	018	441
	344	019	211
	344	020	208
	344	021	229

Tape stops	Marker number	Index marker	Replace boards
	344	022	317
	344	023	215
	344	024	218
	344	025	239
	344	026	217
	344	027	216
	344	028	210
	344	029	341
	344	030	327
	344	031	328
	344	032	209
	344	033	329
	344	034	235
	344	035	331
	344	036	334
	344	037	326
	344	038	329
	344	039	332
	344	040	210
	344	041	316
	344	042	333
	344	043	206

Tape stops	Marker number	Index marker	Replace boards
	344	044	337
	344	045	214
	344	046	338
	344	047	438
	344	048	303
	344	049	304
	344	050	302
	344	051	301
	344	053	339
	344	054	339
	344	055	314
	344	056	233
	344	057	337
	344	058	234
	344	059	213
	344	060	321
	344	061	319
	344	062	234
	344	063	319
	344	064	335
	344	065	240
	344	066	238

Tape stops	Marker number	Index marker	Replace boards
	344	067	237
	344	068	332
	344	069	237
	344	070	212
	344	071	240
	344	072	235
	344	073	224
	344	074	336
	344	075	326
	344	076	321
	344	077	230
	344	078	230
	344	079	211
	344	080	340
	344	081	440
	344	082	223
	344	083	320
	344	084	314
	344	085	316
	344	086	333
	344	087	327
	344	088	228

Tape stops	Marker number	Index marker	Replace boards
	344	089	226
	344	090	232
	344	091	214
	344	092	209
	344	093	341
	344	094	334
	344	095	223
	344	096	318
	344	097	222
	344	098	331
	344	099	335
	344	100	318
	344	101	222
	344	102	435
	344	103	438
	344	104	435
	344	105	436
	344	106	439
	344	107	437
	344	108	436
	344	109	313
	344	110	305

Tape stops	Marker number	Index marker	Replace boards
	344	111	312
	344	112	311
	344	113	310
	344	114	306
	344	115	307
	344	116	308
	344	117	309
	344	122	207
	344	123	239
	344	124	224
	344	125	320
	344	126	315
	344	127	226
	344	128	441
	344	129	440
	344	130	208
	344	131	340
	344	132	232
	344	133	238
	344	134	338
	344	135	218
	344	136	317

Tape stops	Marker number	Index marker	Replace boards
	344	137	330
	344	138	339
	344	139	314
	344	140	233
	344	141	337
	344	142	234
	344	143	213
	344	144	321
	344	145	319
	344	146	234
	344	147	319
	344	148	335
	344	149	240
	344	150	238
	344	151	237
	344	152	332
	344	153	237
	344	154	231
	344	155	315
	344	156	441
	344	157	211
	344	158	208

Tape stops	Marker number	Index marker	Replace boards
	344	159	229
	344	160	317
	345	001	215
	345	002	218
	345	003	239
	345	004	217
	345	005	216
	345	006	210
	345	007	341
	345	008	327
	345	009	328
	345	010	333
	345	011	327
	345	012	228
	345	013	226
	345	014	232
	345	015	214
	345	016	209
	345	017	341
	345	018	334
	345	019	223
	345	020	318

Tape stops	Marker number	Index marker	Replace boards
	345	021	222
	345	022	331
	345	023	335
	345	024	318
	345	025	222
	345	026	303
	345	027	304
	345	028	302
	345	029	301
	345	031	339
	345	032	231
	345	033	227
	345	034	233
	345	035	217
	345	036	206
	345	037	328
	345	038	207
	345	039	330
	345	040	228
	345	041	229
	345	042	227
	345	043	336

Tape stops	Marker number	Index marker	Replace boards	Tape stops	Marker number	Index marker	Replace boards
	345	044	212		345	066	235
	345	045	216		345	067	331
	345	046	215		345	068	334
	345	047	213		345	069	326
	345	048	212		345	070	329
	345	049	240		345	071	332
	345	050	235		345	072	210
	345	051	224		345	073	316
	345	052	336		345	074	333
	345	053	326		345	075	206
	345	054	321		345	076	337
	345	055	230		345	077	214
	345	056	230		345	078	338
	345	057	211		345	079	438
	345	058	340		345	080	435
	345	059	440		345	081	438
	345	060	223		345	082	435
	345	061	320		345	083	436
	345	062	314		345	084	439
	345	063	316		345	085	437
	345	064	209		345	086	436
	345	065	329		345	087	313

Tape stops	Marker number	Index marker	Replace boards
	345	088	305
	345	089	312
	345	090	311
	345	091	310
	345	092	306
	345	093	307
	345	094	308
	345	095	309
	345	100	207
	345	101	239
	345	102	224
	345	103	320
	345	104	315
	345	105	226
	345	106	441
	345	107	440
	345	108	208
	345	109	340
	345	110	232
	345	111	238
	345	112	338
	345	113	218

Tape stops	Marker number	Index marker	Replace boards
	345	114	317
	345	115	330
	345	116	339
	345	117	314
	345	118	233
	345	119	337
	345	120	234
	345	121	213
	345	122	321
	345	123	319
	345	124	234
	345	125	319
	345	126	335
	345	127	240
	345	128	238
	345	129	237
	345	130	332
	345	131	237
	345	132	231
	345	133	227
	345	134	223
	345	135	217

Tape stops	Marker number	Index marker	Replace boards
	345	152	336
	345	153	326
	345	154	321
	345	155	230
	345	156	230
	345	157	211
	345	136	206
	345	137	328
	345	138	207
	345	139	330
	345	140	228
	345	141	229
	345	142	227
	345	143	336
	345	144	212
	345	145	216
	345	146	215
	345	147	213
	345	148	212
	345	149	240
	345	150	235
	345	151	224

Tape stops	Marker number	Index marker	Replace boards
	345	158	340
	345	159	440
	345	160	223
	346	001	320
	346	002	314
	346	003	316
	346	004	303
	346	005	304
	346	006	302
	346	007	301
	346	009	339
	346	010	231
	346	011	315
	346	012	441
	346	013	211
	346	014	208
	346	015	229
	346	016	317
	346	017	215
	346	018	218
	346	019	239
	346	020	217

Tape stops	Marker number	Index marker	Replace boards
	346	021	216
	346	022	210
	346	023	341
	346	024	327
	346	025	328
	346	026	333
	346	027	327
	346	028	228
	346	029	226
	346	030	232
	346	031	214
	346	032	209
	346	033	341
	346	034	334
	346	035	223
	346	036	318
	346	037	222
	346	038	331
	346	039	335
	346	040	318
	346	041	222
	346	042	209

Tape stops	Marker number	Index marker	Replace boards
	346	043	329
	346	044	235
	346	045	331
	346	046	334
	346	047	326
	346	048	329
	346	049	332
	346	050	210
	346	051	316
	346	052	333
	346	053	206
	346	054	337
	346	055	214
	346	056	338
	346	057	438
	346	058	435
	346	059	438
	346	060	435
	346	061	436
	346	062	439
	346	063	437
	346	064	436

Tape stops	Marker number	Index marker	Replace boards
	346	065	313
	346	066	305
	346	067	312
	346	068	311
	346	069	310
	346	070	306
	346	071	307
	346	072	308
	346	073	309
	346	078	339
	346	079	239
	346	080	320
	346	081	226
	346	082	440
	346	083	340
	346	084	238
	346	085	218
	348	086	330
	346	087	314
	346	088	337
	346	089	213
	348	090	319

Tape stops	Marker number	Index marker	Replace boards
	346	091	319
	346	092	240
	346	093	237
	346	094	237
	346	095	227
	346	096	217
	346	097	328
	346	098	330
	346	099	229
	346	100	336
	346	101	216
	346	102	213
	346	103	240
	346	104	224
	346	105	326
	346	106	230
	346	107	211
	346	108	440
	346	109	320
	346	110	316
	346	111	315
	346	112	211

Tape stops	Marker number	Index marker	Replace boards
	346	113	229
	346	114	215
	346	115	239
	346	116	216
	346	117	341
	346	118	328
	346	119	327
	346	120	226
	346	121	214
	346	122	341
	346	123	223
	346	124	222
	346	125	335
	346	126	222
	346	127	329
	346	128	331
	346	129	326
	346	130	332
	346	131	316
	346	132	206
	346	133	214
	346	134	438

Tape stops	Marker number	Index marker	Replace boards
	346	135	438
	346	136	436
	346	137	237
	346	138	313
	346	139	312
	346	140	310
	346	141	307
	346	142	309
	346	143	304
	346	144	301
	346	146	207
	346	147	224
	346	148	315
	346	149	441
	346	150	208
	346	151	232
	346	152	338
	346	153	317
	346	154	339
	346	155	233
	346	156	234
	346	157	321

Tape stops	Marker number	Index marker	Replace boards
	346	158	234
	346	159	335
	346	160	238
	347	001	332
	347	002	231
	347	003	233
	347	004	206
	347	005	207
	347	006	228
	347	007	227
	347	008	212
	347	009	215
	347	010	212
	347	011	235
	347	012	336
	347	013	321
	347	014	230
	347	015	340
	347	016	223
	347	017	314
	347	018	231
	347	019	441

Tape stops	Marker number	Index marker	Replace boards
	347	020	208
	347	021	317
	347	022	218
	347	023	217
	347	024	210
	347	025	327
	347	026	333
	347	027	228
	347	028	232
	347	029	209
	347	030	334
	347	031	318
	347	032	331
	347	033	318
	347	034	209
	347	035	235
	347	036	334
	347	037	329
	347	038	210
	347	039	333
	347	040	337
	347	041	338

Tape stops	Marker number	Index marker	Replace boards
347	042	435	
347	043	435	
347	044	439	
347	045	436	
347	046	305	

Tape stops	Marker number	Index marker	Replace boards
	359	ALL	325, 328
	360	ALL	325, 327
	361	ALL	325, 326
	362	ALL	325, 329
	363	ALL	321, 324

By Order of the Secretary of the Army

E. C. MEYER
General, United States Army
Chief of Staff

Official:

ROBERT M. JOYCE
Brigadier General, United States Army
The Adjutant General

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IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:

Change illustration. Reason: Tube end shown assembled on wrong side of lever cam.

Figure 191, item 3 has the wrong NSN. Supply rejects orders for this item. The NSN shown here is not listed in the AMDF or the MCRL.

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