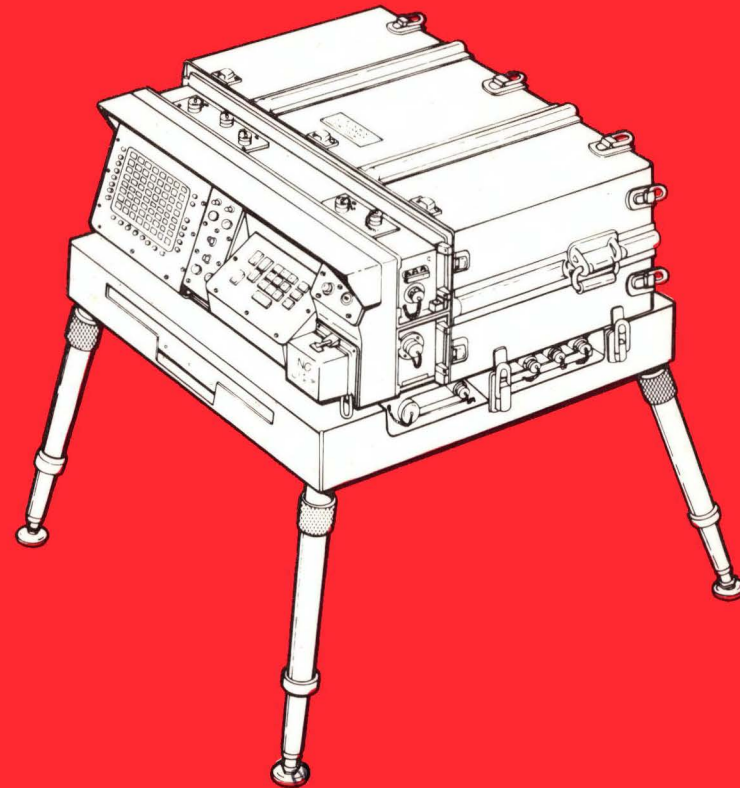


TM 9-1220-221-34/4

TECHNICAL MANUAL  
DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL

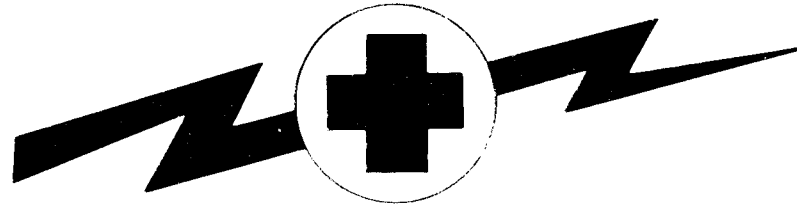
PROGRAM  
PRINTOUT OF  
TEST TAPE D  
(4931-00-687-8513)  
FOR  
COMPUTER,  
GUN DIRECTION,  
M18  
(FADAC)  
(1220-00-448-0131)



HEADQUARTERS, DEPARTMENT OF THE ARMY

MAY 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. 9-1220-221-34/4)

HEADQUARTERS  
 DEPARTMENT OF THE ARMY  
 Washington DC

**DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL**  
**TEST TAPE D PROGRAM PRINTOUT**  
 FOR  
**COMPUTER, GUN DIRECTION, M18**  
**(FADAC)**

**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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CHAPTER	2. DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE USING TAPE-PROGRAMMED TEST TAPE D			II. Operator Instructions	
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\*This publication supersedes TM 9-1220-221-34/4, dated 9 November 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 D 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.
- b. TM 9-1220-221-34/1 contains a list of references, including supply manuals, technical manuals, and other available publications applicable to the FADAC, its support equipment, and associated kits and equipment.

### 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<sup>9</sup> 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.

## CHAPTER 2

# DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE USING TAPE-PROGRAMMED TEST TAPE D

---

### 2-1. SUPPORT EQUIPMENT

a. **Controls and Indicators.** A complete description of the controls and indicators of the SDR and the FALT, including control box C-4020/GSM-70, is found in the operation and organizational maintenance manuals for these units.

b. **General Operation.**

- (1) A semiautomatic tape-programmed test for the purpose of malfunction isolation may be performed. Load the tape cartridge assembly containing the test tape in the SDR. Connect the equipment in accordance with the instructions on the decal on top of the light shield of the FALT.
- (2) Follow instructions given in TM 9-1220-221-20 & P, or as specified in chapter 3. The equipment may then be energized and the tape run by moving the OPERATE control on the FALT to RESET, then to TAPE. In direct support and general support maintenance shops, this will normally be done with the control box C-4020 mounted on the half-hinge on the right side of the FALT and connected using the cable provided in the control box case.
- (3) When the test detects an improper result (malfunction), the tape automatically stops, an error indicator on the FALT flashes, and a marker number and index number are displayed. The corresponding marker number is then determined from the printout. The test in process is determined by counting the number of columns on the printout which have occurred since the last marker number, up to the index number dis-

played. The step in the test process which resulted in an error is then known. The test may be repeated by moving the OPERATE control to MAN (manual) and entering the commands, using the control box.

#### CAUTION

No attempt should be made by field maintenance personnel to replace defective components on the circuit boards. Not only can replacement of components have a detrimental effect on the operation of the circuit involved, but indiscriminate use of a soldering iron can cause further damage to the circuits as well as surrounding components. Defective boards should be forwarded through normal supply channels to depot shops for repair.

- (4) Alternate tests may be commanded by manual operation of the control box. The etched circuit board in the board (slot) number indicated by the printout may then be removed and replaced by a spare. The test may then be rerun.
  - (5) If the program continues beyond the former point of error, it may be assumed that the replacement board has cleared the trouble.
  - (6) For a detailed discussion of the operation and analysis in a typical situation, see TM 9-1220-221-34/1.
- c. **Control Box C-4020/GSM-70.** The test tape may be run while the control box is attached to the FALT. The operator may insert commands and generate measurements by means of manual operation of the control box. For detailed procedures, refer to TM 9-4931-204-34/1.

## **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 and including 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 145 and the INDEX-BOARD #2 reads 101. Turn to page 3-50 where marker 145 is. Find marker 145. Find the eleventh row of terms. Follow it over to the first term where you will find the term OSA, which is the command in progress when the tape stopped.

# CHAPTER 3

## TEST TAPE D PROGRAM PRINTOUT

---

### Section I. INTRODUCTION

#### 3-1. GENERAL

Section III represents the printout of tape-programmed test D. 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.
- f. The words "mechanical tape reader" refer to the punched paper tape reader located on the lower right corner of the main control panel of the FADAC. The tape sensing lever of this reader rides high when tape is present. When tape is not present, the tape sensing lever roller wheel falls into a slot. In this manner, electrical circuits within the reader sense the presence or absence of tape. It is possible to place a short piece of tape underneath the tape sensing lever in such a way that it is not engaged by the sprocket teeth and will not move when the sprocket teeth turn. In this way, the electrical equivalent of the continuous presence of tape for an indefinite period may be simulated. If, however, the short piece of tape used is of improper width or too thick so that tape sensing lever rides abnormally high, the equivalent of excessive tape tension is simulated, which activates certain inhibit circuits.



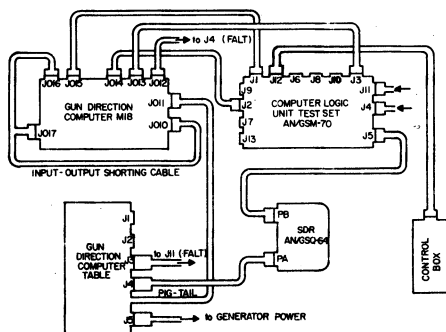
## Section II. OPERATOR INSTRUCTIONS

### 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 MARKER INDEX 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. Start the tape reader.

### Section III. TEST TAPE D PROGRAM PRINTOUT

Following is a list of codes used to indicate what associated equipment is to be replaced when an error occurs.

- |                       |                           |
|-----------------------|---------------------------|
| 001 PROG TEST button  | 013 TRANSIENT neon lamp   |
| 002 SET UP button     | 014 PARITY neon lamp      |
| 003 RECALL button     | 015 ERROR neon lamp       |
| 004 SEND button       | 016 COMPUTE neon lamp     |
| 005 COMPUTE button    | 017 TRIG neon lamp        |
| 006 TRIG button       | 018 NO SOLUTION neon lamp |
| 007 RECEIVE button    | 019 IN OUT neon lamp      |
| 008 RESET button      | 020 KEYBOARD neon lamp    |
| 009 Matrix            | 021 SM neon lamp          |
| 010 Keyboard          | 022 PWR READY neon lamp   |
| 011 Mechanical reader | 023 Nixie tube            |
| 012 Shorting cable    | 024 Memory                |

Flip-flop logic tests on logic for OB6, OB5, OB4, OB3, OB2, OFLO, E, FS, CPFS, IC, CN7, CN6, DSP, D8, D7, D6, D5, D4, D3, D2, D1, CN5, CN4, CN3, CN2, CP7, CP6, K, MC, PE, O5, X1, flip-flops.

**Tape stops**    **Marker number**

Start the tape reader.

000	OB6 or test, one side.	Logic for one side OB6 is on boards 228, 229, 401, 403, 408, 409.		
	OSA B6 IP K OE18 1SA 1E18 1TF OB6 . 01			
	1SA B4 D OB6 OE18 1SA 1E18 1TF OB6 . 01			
	OSA CR4 D E K MN 05 04 OE18 1SA			
	1E18 1TF OB6 . 02 . . . . .			
	1SA TO TX OB6 06 03 TP OE18 1SA 1E18			
	1TF OB6 . 02 . . . . .			
	OSA D E K MN 05 OE18 1SA 1E18 1TF			
	OB6 . 03 . . . . .			
	1SA TO TX OB6 06 04 03 TP OE18 1SA			
	1E18 1TF OB6 . 03 . . . . .			
	OSA D OE18 1SA 1E18 1TF OB6 . 04 . . . . .			
	1SA K OB6 E1 OE18 1SA 1E18 1TF OB6 . 04			
	OSA AK OB4 OE18 1SA 1E18 1TF OB6 . 05 . . . . .			
	1SA D E K OB6 04 OE18 1SA 1E18 1TF			
	OB6 . 05 . . . . .			
001	OE18 1SA 1E18 OTF OB6 . 01 IP . 02 ODO KD3			
	D . . . . .			
	1SA AK B6 CR4 K MN OB6 OB4 O5 OE18			
	1SA 1E18 OTF OB6 . 01 DOP . 04 *SU3 E1-			





007 OB5 or test, one side. Logic for one side OB5 is on boards 226, 402.

OSA	B6	K	OB6	05	OE18	1SA	1E18	1TF	OB5		
	01	.	.	.	.	.	.	.	.	.	.
1SA	TX	B4	CR5	D	E	OB5	06	03	OE18		
1SA	1E18	1TF	OB5	.	01	.	.	.	.	.	.
OSA	TX	B4	CR5	E	K	06	03	OE18	1SA		
1E18	1TF	OB5	.	02	.	.	.	.	.	.	.
1SA	B6	OB6	OB5	05	OE18	1SA	1E18	1TF	OB5		
	02	.	.	.	.	.	.	.	.	.	.
OSA	D	OE18	1SA	1E18	1TF	OB5	.	03	.	.	.
1SA	K	OB5	E1	OE18	1SA	1E18	1TF	OB5	.	03	.

008 OB5 and test, one side.

1SA	TX	B4	CR5	D	E	OB6	OB5	06	03		
OE18	1SA	1E18	OTF	OB5	.	01	OB6	.	.	.	.
1SA	TX	B6	CR5	E	K	OB5	06	03	OE18		
1SA	1E18	OTF	OB5	.	01	DOP	.	03	*SU2	E1-	.
1SA	TX	B6	E	K	OB6	OB5	06	03	OE18		
1SA	1E18	OTF	.	02	KIOX	.	03	*SU2	E1-	.	.
1SA	B6	CR5	OB6	OB5	05	E1	03	OE18	1SA	1E18	.
OTF	OB5	.	02	CR5	.	03	KD1	K-	.	.	.
1SA	TX	B6	CR5	D	E	OB6	OB5	06	03	.	.
E1	OE18	1SA	1E18	OTF	OB5	.	03	KD1	.	.	.

009 OB5 or test, zero side. Logic for zero side OB5 is on boards 226, 227, 440.

OSA	B6	K	OB5	OE18	OSA	1E18	OTF	OB5	.	01	.
1SA	B4	D	OB6	OE18	OSA	1E18	OTF	OB5	.	01	.
OSA	TX	B5	B1	D	K	NC	OB5	OB3	OB2	.	.
OE18	OSA	1E18	OTF	OB5	.	02	.	.	.	.	.
1SA	B3	B2	E	06	05	03	TP	OE18	OSA		
1E18	OTF	OB5	.	02	.	.	.	.	.	.	.
OSA	D	E	K	OB5	06	05	TP	OE18	OSA		
OTF	OB5	.	03	.	.	.	.	.	.	.	.
1SA	TX	NC	OB3	03	02	OE18	OSA	1E18	OTF		
OB5	.	03	.	.	.	.	.	.	.	.	.
OSA	D	E	K	OB5	06	05	03	02	TP		
S	OE18	OSA	1E18	OTF	OB5	.	04	.	.	.	.
1SA	04	OE18	OSA	1E18	OTF	OB5	.	04	.	.	.
OSA	D	E	K	OB5	03	TP	S	04	OE18	OSA	.
1E18	OTF	OB5	.	05	.	.	.	.	.	.	.

010

1SA	06	05	02	OE18	OSA	1E18	OTF	OB5	.	05	.
OSA	D	E	OB5	OE18	OSA	1E18	OTF	OB5	.	06	.
1SA	K	OE18	OSA	1E18	OTF	OB5	.	06	.	.	.
OSA	B4	B3	B2	E	K	OB5	06	05	04	.	.
02	OE18	OSA	1E18	OTF	OB5	.	07	.	.	.	.
1SA	TX	B6	B5	B1	OB3	OB2	03	OE18	OSA		
1E18	OTF	OB5	.	07	.	.	.	.	.	.	.



014	1SA	TX	B6	B5	B1	E	K	OB3	OB2	06
	05	TP	S	OE18	OSA	1E18	1TF	OB5	.	07 OEL
	.	06 KED3	ED3	E	.	NC	OB3	OB2	04	03
	1SA	TX	B6	B5	B1	.	07 OB3	.	03 ORB	032-
	OE18	OSA	1E18	1TF	OB5	.	06 04A	.	KC-	OSA
	02-	.	04 OTL	03A	03	.	06 KED3	03	K-	02-
	1SA	TX	B6	B5	B1	NC	OB3	03	OE18	06
	1E18	1TF	OB5	.	07 OB2-	.	03 ORB	032-	02-	.
	KED3	KC-	K-	.	.	.	.	03	OE18	OSA
	1SA	TX	B4	B1	D	OB3	OB2	03	OE18	OSA
	1E18	1TF	OB5	.	07 TRS	.	01 OB6-	.	.	.
	1SA	TX	B6	B5	B3	B2	NC	OB3	OB2	03
	OE18	OSA	1E18	1TF	OB5	.	07 BL6	.	03 ORB	032-
	02-	.	06 KED3	KC-	K-	.	.	.	.	.
015	OB4 or test, one side. Logic for one side OB4 is on boards 209, 231, 232, 233.									
	OSA	B6	K	OB5	OE18	1SA	1E18	1TF	OB4	01
	1SA	B4	D	OB4	OE18	1SA	1E18	1TF	OB4	01
	OSA	D	E	K	MN	05	04	OE18	1SA	1E18
	1TF	OB4	.	02	.	.	.	.	.	.
	1SA	TO	TX	CR4	OB4	06	03	TP	OE18	1SA
	1E18	1TF	OB4	.	02	.	.	.	.	.
	OSA	D	E	K	OB6	05	OE18	1SA	1E18	1TF
	OB4	.	03	.	.	.	.	.	.	.
	1SA	TO	CR4	OB4	06	04	03	OE18	1SA	1E18
	1TF	OB4	.	03	.	.	.	.	.	.
	OSA	OE18	1SA	1E18	1TF	OB4	.	04	.	.
	1SA	E	K	OB4	OB3	OB2	OE18	1SA	1E18	1TF
	OB4	.	04	.	.	.	.	.	.	.
	OSA	AK	LC	OB3	OB2	05	TP	OE18	1SA	1E18
	1TF	OB4	.	05	.	.	.	.	.	.
016	1SA	D	E	K	OB4	PP	OE18	1SA	1E18	1TF
	OB4	.	05	.	.	.	.	.	.	.
	OSA	AK	B5	B3	B2	B1	OB2	TP	OE18	1SA
	1E18	1TF	OB4	.	06	.	.	.	.	.
	1SA	B6	DSP	D	E	K	OB4	OB3	OE18	1SA
	1E18	1TF	OB4	.	06	.	.	.	.	.
	OSA	AK	B6	B4	OB2	OE18	1SA	1E18	1TF	OB4
	.	.	.	.	.	.	.	.	.	.
	1SA	B5	B3	B2	B1	DSP	D	E	K	OB4
	OB3	04	TP	OE18	1SA	1E18	1TF	OB4	.	07
	OSA	AK	OB3	OB2	04	PP	OE18	1SA	1E18	1TF
	OB4	.	.	.	.	.	.	.	.	.
	1SA	CP7	CP6	D8	D7	D6	D5	D4	D3	D2
	D1	D	E	K	OB4	X1	OE18	1SA	1E18	1TF
	OB4	.	.	.	.	.	.	.	.	.
	OSA	AK	CP7	D8	D7	D6	OB3	OB2	04	PP
	OE18	1SA	1E18	1TF	OB4	.	09	.	.	.

**Tape stops**    **Marker number**

017	1SA	CP6	D5	D4	D3	D2	D1	D	E	K
	OB4	X1	OE18	1SA	1E18	1TF	OB4	.	09	.
	OSA	D	E	OE18	1SA	1E18	1TF	OB4	.	10
	1SA	K	OB4	OE18	1SA	1E18	1TF	OB4	.	10
	OSA	AK	OB3	OB2	05	PP	TP	OE18	1SA	1E18
	1TF	04	.	11	.	.	.	OE18	1SA	1E18
	1SA	D	E	K	OB4	04	OE18	1SA	1E18	1TF
	OB4	.	11	.	.	.	.	.	.	.
018	OB4 and test, one side.									
	1SA	T0	TX	B4	CR4	D	OB5	OB4	06	03
	TP	OE18	1SA	1E18	OTF	OB4	.	01	OB5	02
	KD3	D	.	.	.	.	.	.	.	ODO
	1SA	AK	B6	CP7	D	K	LC	MN	OB6	OB4
	OB3	OB2	05	OE18	1SA	1E18	OTF	OB4	.	01
	.	04	KE0	E-	10	KED3	D	.	.	DOP
	1SA	T0	TX	B4	OB4	06	03	TP	OE18	1SA
	1E18	OTF	OB4	.	02	CR4-	.	01	DOP	KD2
	KED3	KC-	K-	.	.	.	.	.	.	.
	1SA	T0	TX	B4	CR4	MN	OB4	06	03	TP
	OE18	1SA	1E18	OTF	OB4	.	02	MNA	01	DOP
	D-	.	03	OMO	OM	04-	.	10	KED3	KC-
	1SA	T0	TX	AK	B6	CP7	CR4	D	K	OB6
	OB5	OB4	OB3	OB2	05	TP	OE18	1SA	1E18	OTF
	OB4	.	02	ODO	.	04	KE0	E-	10	KED3
										ED3
										D
019	No test for 04 OB4-									
	1SA	B4	CR4	OB4	06	03	OE18	1SA	1E18	OTF
	OB4	.	02	TPO-	.	01	DOP	D-	10	KED3
	K-	.	.	.	.	.	.	.	.	KC-
	1SA	T0	B4	OB4	06	04	03	OE18	1SA	1E18
	OTF	OB4	.	03	CR4-	.	01	DOP	D-	10
	KC-	K-	.	.	.	.	.	.	.	KED3
	1SA	T0	TX	B4	CR4	OB6	OB4	06	04	03
	TP	OE18	1SA	1E18	OTF	OB4	.	03	OB6	01
	KD2	D-	02	ODO	OD	04	.	10	KED3	KC-
	1SA	T0	AD	B6	CP7	CR4	D	.	K	LC
	OB5	OB4	OB3	OB2	05	OE18	1SA	1E18	OTF	OB4
	.	03	OMO	04	KE0	E-	10	KED3	ED3	D
	1SA	B4	CR4	OB4	06	04	03	OE18	1SA	1E18
	OTF	OB4	.	03	TO-	.	01	DOP	D-	10
	1SA	B6	D	MN	OB6	OB5	OB4	OB3	OB2	05
	OE18	1SA	1E18	OTF	OB4	.	04	KE0	.	.



020	1SA	B4	D	E	K	OB4	OB2	PP	OE18	1SA	
	1E18	OTF	OB4	.	04	OB3-	.	01	DOP	KD2	K
	OGO	OB2	.	.	.	.	.	.	.	.	.
	1SA	AK	B6	E	K	OB4	OB3	OE18	1SA	1E18	
	OTF	OB4	.	04	OB2-	.	10	KED3	ED3	E	.
	1SA	AK	B6	CP7	D	K	OB6	OB5	OB4	OB3	
	OB2	OE18	1SA	1E18	OTF	OB4	.	05	OGO	.	04
	E-	.	10	KED3	D	.	.	.	.	KEO	
	1SA	B4	CP6	DSP	D8	D7	D6	D5	D4	D3	
	D2	D1	D	E	K	LC	OB4	PP	X1	OE18	
	1SA	1E18	OTF	OB4	.	05	LC	.	01	DOP	KD2
	.	06	OSHA	OB3-	.	09	OTR4	PP	.	.	.
	1SA	B4	CP6	D8	D7	D6	D5	D4	D3	D2	
	D1	D	E	K	OB4	PP	TP	X1	OE18	1SA	
	1E18	OTF	OB4	.	05	TPA	.	01	DOP	KD2	K
	OTR4	PP	.	.	.	.	.	.	.	.	09
021	1SA	B4	CP6	DSP	D8	D7	D6	D5	D4	D3	
	D2	D1	D	E	K	OB4	05	PP	X1	OE18	
	1SA	1E18	OTF	OB4	.	05	05	01	DOP	KD2	K
	.	06	OSHA	OB3-	.	09	OTR4	PP	.	.	.
	1SA	AK	B6	CP7	D	K	LC	OB6	OB5	OB4	
	OB3	OB2	05	OE18	10	1SA	1E18	OTF	OB4	.	06
	.	04	KEO	E-	10	KED3	ED3	D	.	.	OSHA
	1SA	B6	CP6	DSP	D8	D7	D6	D5	D4	D3	
	D2	D1	D	E	K	OB4	OB3	TP	X1	OE18	
	1SA	1E18	OTF	OB4	.	06	TPA	.	04	OB2-	09
	KIOS	OB3	.	.	.	.	.	.	.	.	OTR4
	1SA	AK	B5	B3	B2	B1	D	LC	OB6	OB4	
	05	04	OE18	1SA	1E18	OTF	OB4	.	07	OSHA	.
	DOP	TOP	B4-	.	.	.	.	.	.	.	01
022	1SA	B5	B3	B2	B1	CP6	DSP	D8	D7	D6	
	D5	D4	D3	D2	D1	D	E	K	OB4	OB3	
	TP	X1	OE18	1SA	1E18	OTF	OB4	07	04A-	.	04
	OB2-	.	06	TPA	TP	OTR4	KIOS	OB3	.	.	.
	1SA	B6	B3	B2	B1	DSP	D	E	K	OB4	
	OB3	04	TP	OE18	1SA	1E18	OTF	OB4	.	07	OB4
	.	04	OB2-	06	TPA	TP	.	.	.	.	TPS
	1SA	B5	DSP	D	E	K	OB4	OB3	04	TP	
	OE18	1SA	1E18	OTF	OB4	.	07	BLO	.	04	OB2-
	TPA	TP	.	.	.	.	.	.	.	.	06
	1SA	B4	CP7	CP6	DSP	D7	D6	D5	D4	D3	
	D2	D1	D	E	K	OB4	X1	OE18	1SA	1E18	
	OTF	OB4	.	08	D8-	DOP	KD2	K	.	OGO	
	PP-	.	06	OSHA	OSH	OB3-	.	09	CP7	04A-	04-

Tape stops

Marker number

023	1SA D2 OTF PP- 1SA D2 OTF PP- 1SA K OB3- 1SA D1 OB4 .	B4 D1 OB4 . B4 D1 OB4 . B4 OB4 DOP . B4 D . OSHA	06 . 06 . 06 . 11 08 .	CP7 D OSHA CP7 D OSHA CP7 X1 KD2 04A- DSP E CP6- OSH	08 08 08 08 01 06 .	CP6 E OSH CP6 E OSH CP6 OE18 K 04- D8 K CP6- OB3-	DSP K OB3- DSP K OB3- DSP 1SA DOP .	01 09 01 09 05 01 09 .	D8 OB4 DOP D8 OB4 DOP D8 X1 KD2 CP6-	D6 X1 KD2 CP7 D7 X1 KD2 CP7 D7 D7 D6 D5 D4 D3 D2 D1 D0	09 11 09 11 06 11 .	D5 OE18 K D5 OE18 K D6 OB4 D4 D3 D2 D1 D0	11 11 06 05 11 .	D4 1SA . 04A- D4 1SA . D OSHA D3 1E18 OG0 04-	05 05 08 .	D3 1E18 OG0 04- D3 04- E D51 OSH D2 OTF PP- 04-
024	1SA 1SA . 1SA K 1SA KED3 1SA OB4 KED3 1SA OB2 KE0	B4 1E18 OG0 AK LC 1E18 ED3 AK OB3 AK 04 E-	05 . 09 . 09 . 10 .	CP6 OTF PP- B6 MN OTF D B6 OB2 B6 D OE18 .	06 06 09 . 10 .	DSP OB4 CP6 OB6 OB4 CP7 05 D OE18 K 1SA 1E18 ED3	D D51 OSH D4 OB4 OTRA D E 1SA LC OB6 OB5 OTF D	09 01 11 04 . . . . 11 .	E D51 OSH D4 OB4 OTRA E 1SA LC OB6 OB5 OTF D	K OB3- D3 OB3 . . LC OB6 OB5 OTF .	01 11 04 . . . 11 .	OB4 DOP D2 D1 05 E- . MN OB2 OB4 OB5 OTR .	11 04 . . 11 .	X1 KD2 04A- D1 05 E- . OB6 OB4 OB3 OTR .	10 10 04 .	
025	1SA D2 1SA . 1SA 1E18 OGO 1SA D1 1E18 OTR4	B4 D1 1E18 OSHA B4 OTF PP- B4 D OTF 04	06 . 06 . 11 06 11 .	CP6 D OTF OSH CP7 OB4 OSHA CP6 E OB4 .	11 09 11 06 11 .	DSP E OB4 OB3- D 04A- OSH D7 K OB4 TPA	D8 K OB4 05 OTR4 E OB3- D7 04 .	01 09 01 01 .	D7 OB4 05 OTR4 E OB3- D7 04 .	D6 05 04 K DOP D5 D6 D5 TP DOP	01 01 01 .	D5 04 DOP OB4 KD2 D4 D3 D2 D1 D0	01 11 05 01 .	D4 X1 KD2 OE18 K D3 D2 D1 D0	05 05 09 .	
026	OSA	B6	K	OB4	06	03	OE18	OSA	1E18	OTF						

OB4 or test, zero side. Logic for zero side OB4 is on boards 101, 134, 140, 224, 231, 232, 317, 337, 339, 404, 405, 406, 407, 409. Logic for mechanical reader 011 and/or shorting cable 012.

	OB4		01	T	B	D	OB5	OE18	OSA	1E18	OTF	
	1SA	TO		X	4							
	OB4		01				OB4	05	04	OE18	OSA	
	OSA	CR4		D	E	K						
	1E18	OTF		OB4								
	1SA	TO		MN	06	02	TP	OE18	OSA	1E18	OTF	
	OB4		02									
	OSA	CR4		D	E	K	OB4	05	OE18	OSA	1E18	
	OTF	OB4										
	1SA	TO		OB6	06	04	03	OE18	OSA	1E18	OTF	
	OB4		03									
	OSA	TO		B4	E	K	MN	OB4	05	TP	OE18	
	OSA	1E18		OTF	OB4							
027	027	081	Error indicated if no tape is placed under sense wheel on mech reader.									
	1SA	B6		CR4	06	03	OE18	OSA	1E18	OTF	OB4	
	OSA		04									
		TX		AK	OB4	OB2	OE18	OSA	1E18	OTF	OB4	
			05									
	1SA	DSP		D	E	K	OB3	05	04	OE18	OSA	
	1E18	OTF		OB4								
	OSA	AK		OB5	PB4	05	OB3	04				
									OE18	OSA	1E18	OTF
	OB4		06									
	1SA	D		E	G	K	OB6	OB2	PS			
										OE18	OSA	
	1E18	OTF		OB4								
	OSA	AK		OB4	OB3	06	OE18	OSA	1E18	OTF	OB4	
	1SA	D1		D	E	G	K	OB6	OB5	OB2	04	07
	E2	PS		OE18	OSA	1E18	OTF	OB4				
028	OSA	AK		D1	OB6	OB4	OB3	04	E2	OE18	OSA	
	1E18	OTF		OB4								
	1SA	D		E	G	K	OB5	OB2	OE18	OSA	1E18	
	OTF	OB4										
	OSA	TX		B4	K	OB4	04	OE18	OSA	1E18	OTF	
	OB4		09									
	1SA	B6		06	05	03	OE18	OSA	1E18	OTF	OB4	
			09									
	OSA	AK		D1	OB4	OB3	E2	PS	OE18	OSA	1E18	
	OTF	OB4										
	1SA	D		E	G	K	OB6	OB2	04	OE18	OSA	
	1E18	OTF		OB4								
						10						



032	1SA	B4	D	E	G	K	OB6	OB5	OB2	06	06	*TC
	05	03	PS	OE18	OSA	1E18	1TF	OB4	.	08	08	OB6
	OB5	.	01	KD2	K	.	*TEI	04-	.	.	.	PS
	.	09	OJ	KA	.	10	04-	06	05	03	.	OJ
	1SA	D	E	G	K	OB6	06	05	03	.	09	PS
	OE18	OSA	1E18	1TF	OB4	.	*TC	OB2-	.	.	.	OJ
	KA	K	.	.	.	.	.	05	03	.	.	PS
	1SA	D	E	K	OB6	OB2	06	05	03	.	09	PS
	OE18	OSA	1E18	1TF	OB4	.	OWT	.	09	OJ	.	KA
	K	.	.	.	.	.	.	.	.	.	.	.
	1SA	B6	D	E	G	OB6	OB5	OB2	06	04	.	04
	03	PS	OE18	OSA	1E18	1TF	OB4	.	07	*TEI	.	K-
	.	04	OMD	E	10	OWT	KIOA	.	.	.	.	.
	1SA	B4	D	G	K	OB6	OB5	OB2	06	04	.	04
	03	PS	OE18	OSA	1E18	1TF	OB4	.	07	*TEI	.	E-
	.	01	DOP	KD2	K	.	OMD	.	10	OWT	.	KIOA
	E-	.	.	.	.	.	.	.	.	.	.	.
033	1SA	E	G	K	OB6	OB5	OB2	04	PS	OE18	.	OE18
	OSA	1E18	1TF	OB4	.	07	*TEI	D-	.	10	OWT	KIOA
	D-	.	.	.	.	.	.	.	.	.	.	.
	1SA	AK	B4	D	E	G	K	OB6	OB5	OB2	.	OB2
	04	OS	OE18	OSA	1E18	1TF	OB4	.	07	*TEI	.	AK
	.	01	DOP	KD2	K	10	OWT	AK	OB5	.	.	.
	1SA	B4	D1	D	E	G	K	OB6	OB5	OB2	.	OB2
	04	E2	OE18	OSA	1E18	1TF	OB4	.	07	*TEI	.	PS-
	.	01	DOP	KD2	K	.	.	.	.	.	.	.
	1SA	B4	DSP	D	E	G	K	OB6	OB5	05	.	05
	04	PS	OE18	OSA	1E18	1TF	OB4	.	07	*TEI	.	OB2-
	.	01	DOP	KD2	K	.	05	OSHB	OB3-	.	10	OWT
	OB2-	.	.	.	.	.	.	.	.	.	.	.
	1SA	B4	D1	D	E	G	K	OB5	OB2	04	.	04
	E2	PS	OE18	OSA	1E18	1TF	OB4	.	07	OB6-	.	.
	DOP	KD2	K	.	.	.	.	.	.	.	.	01
034	1SA	B4	DSP	D1	D	E	K	OB6	OB5	OB3	.	OB3
	OB2	05	04	E2	PS	OE18	OSA	1E18	1TF	OB4	.	OB4
	.	07	OWT	DOP	KD2	K	.	05	OSHB	OB2	.	OB2
	.	05	OSHB	OB42	OB2	.	.	.	.	.	.	.
	1SA	B4	D1	D	E	G	K	OB5	OB2	04	.	04
	PS	OE18	OSA	1E18	1TF	OB4	.	08	*TE0	D1	.	01
	DOP	KD2	K	.	07	OB6-	.	10	*TE0	D1	.	.
	1SA	B4	D	E	G	K	OB5	OB2	04	E2	.	01
	PS	OE18	OSA	1E18	1TF	OB4	.	08	*TE0	E2	.	.
	DOP	KD2	K	.	07	OB6-	.	10	*TE0	E2	.	.
	1SA	D	E	G	K	OB2	OB5-	06	03	PS	.	PS
	OE18	OSA	1E18	1TF	OB4	.	08	OB5-	*TC	OB6-	.	OB6-
	.	09	OJ	KA	K	.	10	04-	.	.	.	.

Tape stops

Marker number

035	1SA	TO	TX	AK	B6	CR4	OB5	OE18	OSA	1E18	
	1TF	OB4	.	08 OWT	.	.	.	.	.	.	
	1SA	TO	AK	B6	CR4	D1	03	E2	OE18	OSA	
	1E18	1TF	OB4	.	09 OJ	.	.	.	.	.	
	1SA	B6	D	E	G	OB6	OB2	06	05	PS	
	OE18	OSA	1E18	1TF	OB4	.	09 03-	.	06 *TC	K-	
	.	06 OWT	KIOA	K-	.	.	.	.	.	.	
	1SA	TX	B6	MN	06	05	03	TP	OE18	OSA	
	1E18	1TF	OB4	.	09 TXA	.	02 OD0	OD	05	.	04
	OMD	05	.	.	.	.	.	.	.	.	
	1SA	B4	D1	D	E	G	K	OB6	OB5	OB2	
	04	E2	OE18	OSA	1E18	1TF	OB4	.	10 *TE0	.	01
	DOP	KD2	K	.	07 *TEI	PS-	.	.	.	.	
	1SA	TO	TX	AK	B6	CR4	04	OE18	OSA	1E18	
	1TF	OB4	.	10 OWT	.	.	.	.	.	.	
036	OB3 or test, one side. Logic for one side OB3 is on boards 209, 214.										
	OSA	B6	K	OB4	OE18	1SA	1E18	1TF	OB3	.	01
	1SA	B4	D	OB3	OE18	1SA	1E18	1TF	OB3	.	01
	OSA	B4	B2	B1	D	IC	K	OE18	1SA	1E18	
	1TF	OB3	.	02	.	.	.	.	.	.	
	1SA	B6	B5	B3	NC	OB3	OE18	1SA	1E18	1TF	
	OB3	.	02	.	.	.	.	.	.	.	
	OSA	AK	OE18	1SA	1E18	1TF	OB3	03	1TF	OB3	
	1SA	D	K	OB3	OB2	OE18	1SA	1E18	1TF	OB3	
	.	03	.	.	.	.	.	.	.	.	
	OSA	AK	B6	B4	OB2	05	04	OE18	1SA	1E18	
	1TF	OB3	.	04	.	.	.	.	.	.	
	1SA	B5	B3	B2	B1	DSP	D	E	K	OB4	
	OB3	OE18	1SA	1E18	1TF	OB3	.	04	.	OB4	
	OSA	AK	B4	B3	B2	OB2	05	OE18	1SA	1E18	
	1TF	OB3	.	05	.	.	.	.	.	.	
037	1SA	B6	B5	B1	DSP	D	E	K	OB4	OB3	
	OE18	1SA	1E18	1TF	OB3	.	05	1SA	1E18	1TF	OB3
	OSA	TX	AK	OB4	OB2	OE18	1SA	1E18	1TF	OB3	
	.	06	.	.	.	.	.	.	.	.	
	1SA	DSP	D	E	K	OB3	05	04	OE18	1SA	
	1E18	1TF	OB3	.	06	.	.	.	.	.	
	OSA	D	E	OE18	1SA	1E18	1TF	OB3	.	07	
	1SA	K	OB3	OE18	1SA	1E18	1TF	OB3	.	07	
038	OB3 and test, one side.										
	1SA	B4	D	OB4	OB3	OB2	OE18	1SA	1E18	OTF	
	OB3	.	01 OB4	.	03 KIO	K-	.	.	.	.	
	1SA	TX	AK	B6	D	IC	K	OB3	OB2	OE18	

	1SA	1E18	OTF	OB3	.	01	DOP	.	03	KIO	AK	.	07
	KED3	ED3	D	.	B5	.	B3	D	.	K	OB3	OB2	
	1SA	TX	AK	B6	B5	.	B3	D	.	K	OB3	OB2	
	OE18	1SA	1E18	OTF	OB3	.	.	02	KD3M	.	03	KIO	AK
	.	KED3	.	D	D	.	NC	OB3	OE18	1SA	1E18	1E18	
	1SA	B6	B5	B3	IC	.	NC	OB3	OE18	1SA	1E18	1E18	
	OTF	OB3	.	02	IC	07	KED3	KC-	K-	1E18	OTF	OB3	
	1SA	B4	B3	NC	OB3	.	OE18	1SA	1E18	OTF	KC-	OB3	
	.	TRS	.	01	DOP	.	D-	OB3	07	KED3	1E18	K-	
	1SA	B6	B5	B2	NC	.	OB3	OE18	.	1SA	1E18	OTF	
	OB3	.	02	BL3	.	07	KED3	KC-	K-	.	.	.	
039	1SA	AK	B6	B4	D	.	IC	OB3	OB2	OE18	1SA	1SA	
	1E18	OTF	OB3	.	03	KIO	.	01	DOP	TOP	B6	OB3	
	1SA	B4	D	E	G	.	K	01	OB2	OE18	BSC	OB3	
	1E18	OTF	OB3	.	03	OB3-	.	01	DOP	KD2	K	OB3	
	1SA	TX	B4	D	K	.	OB3	01	OE18	1SA	1E18	OTF	
	OB3	.	03	OB2-	.	01	DOP	KD2	K	.	07	KED3	ED3
	D	.	B3	B2	B1	.	D	.	DSP	E	K	OB3	
	1SA	B5	1E18	OTF	OB3	.	OB3	04	OSHA	OB4-	.	OB3	
	OE18	1SA	B5	B3	B2	.	B1	01	D	OB3	OE18	1SA	
	1SA	AK	OB3	.	04	OSHA	.	01	DOP	TOP	B4-	OB4	
	1E18	OTF	OB3	B2	B1	.	DSP	D	D	E	K	OB4	
	1SA	B5	04	OE18	1SA	.	1E18	OTF	OB3	.	.	04	054
	OB3	05	OB2-	OSHB	OB42	.	OB4	.	OTF	.	.	.	
	.	OB2-	B2	B1	DSP	.	D	.	E	K	OB4	OB3	
	1SA	B3	B2	OTF	OB3	.	.	04	TLs	.	03	OB2-	.
	OE18	1SA	1E18	OTF	OB3	.	.	.	.	.	.	.	
040	1SA	B5	B1	DSP	D	.	E	K	OB4	OB3	OE18	OE18	
	1SA	1E18	OTF	OB3	.	04	BLO	.	03	OB2-	.	05	TRS
	B6-	.	.	.	B1	.	D	K	.	.	.	.	
	1SA	AK	B6	B5	B1	.	D	K	.	OB3	OB2	OE18	
	1SA	1E18	OTF	OB3	.	05	OSHA	.	03	KIO	AK	.	07
	KED3	ED3	D	.	.	.	.	.	.	.	.	.	
	1SA	B6	B5	B1	DSP	.	D	E	.	K	OB4	OB3	
	05	04	OE18	1SA	1E18	.	OTF	OB3	.	.	05	05	03
	OB2-	.	06	OSHB	OB42	.	.	.	.	.	.	.	
	1SA	B1	DSP	D	E	.	K	OB4	OB3	OE18	1SA	1SA	
	1E18	OTF	OB3	.	05	TRS	.	03	OB2-	.	.	.	
	1SA	B6	B5	B3	B2	.	B1	.	D	E	K	.	
	OB4	OB3	OE18	1SA	1E18	.	OTF	OB3	.	.	05	BL6	03
	OB2-	.	04	TLs	B6	.	.	.	.	.	.	.	

Tape stops

Marker number

041	1SA	AK	B6	B4	D	IC	OB3	05	04	OE18	
	1SA	1E18	OTF	OB3	.	06	OSHB	01	DOP	TOP	B6
	1SA	B4	DSP	D	E	K	OB3	04	OE18	1SA	
	1E18	OTF	OB3	.	06	05-	.	01	DOP	KD2	K
	OB2-	.	.	.	.	.	.	.	.	.	.
	1SA	TX	B4	DSP	D	E	K	OB3	05	OE18	
	1SA	1E18	OTF	OB3	.	06	04X	01	DOP	KD2	K
	03	OB2-	.	.	.	.	.	.	.	.	.
	1SA	TX	AK	B6	B4	D	IC	OB3	OE18	1SA	
	1E18	OTF	OB3	.	07	KED3	.	01	DOP	B6	.
042	OB3 or test, zero side. Logic for zero side OB3 is on boards 213, 214, 403, 404, 405, 406, 407. Logic for shorting cable 012.										
	OSA	B6	K	OB3	OE18	OSA	1E18	OTF	OB3	.	01
	1SA	B4	D	OB4	OE18	OSA	1E18	OTF	OB3	.	01
	OSA	AK	B4	B3	OB3	OB2	04	OE18	OSA	1E18	
	OTF	OB3	.	02	.	.	.	.	.	.	.
	1SA	B6	B5	B2	B1	CP7	D	E	K	OB4	
	02	PP	OE18	OSA	1E18	OTF	OB3	02	02	OE18	OSA
	OSA	AK	B5	B3	CP7	OB3	OB2	04	02	OE18	OSA
	1E18	OTF	OB3	.	03	.	.	.	.	.	.
	1SA	B6	B2	B1	D	E	K	OB4	02	PP	
	OE18	OSA	1E18	OTF	OB3	.	03	.	.	.	.
	OSA	AK	B6	B4	B3	OB3	OB2	04	02	OE18	
	OSA	1E18	OTF	OB3	.	04	.	.	.	.	.
	1SA	B5	B2	B1	D	E	K	OB4	PP	OE18	
	OSA	1E18	OTF	OB3	.	04	.	.	.	.	.
043	OSA	AK	B5	B3	OB3	OB2	02	OE18	OSA	1E18	
	OTF	OB3	.	05	.	.	.	.	.	.	.
	1SA	B6	B2	B1	D	E	K	OB4	04	PP	
	OE18	OSA	1E18	OTF	OB3	.	05	.	.	.	.
	OSA	AK	B3	OB3	OB2	OE18	OSA	1E18	OTF	OB3	
	06	.	.	.	.	.	.	.	.	.	.
	1SA	B6	B4	B2	B1	D	E	K	OB4	04	
	02	PP	OE18	OSA	1E18	OTF	OB3	06	06	OB4	04
	OSA	TO	AK	OB4	OB3	OB2	OE18	OSA	1E18	OTF	
	OB3	.	07	.	.	.	.	.	.	.	.
	1SA	D	E	K	OE18	OSA	1E18	OTF	OB3	.	07
	OSA	AK	OB3	OB2	05	PP	TP	OE18	OSA	1E18	
	OTF	OB3	.	08	.	.	.	.	.	.	.
	1SA	D	E	K	OB4	04	OE18	OSA	1E18	OTF	
	OB3	.	08	.	.	.	.	.	.	.	.
	OSA	AK	OB5	OB4	OB3	04	E5	OE18	OSA	1E18	
	OTF	OB3	.	09	.	.	.	.	.	.	.



044	1SA	D	E	G	K	OB2	OE18	OSA	1E18	OTF	
	OB3		09								
	OSA	AK	OB4	OB3	PS	OE18	OSA	1E18	OTF	OB3	
		10									
	1SA	D	E	G	K	OB6	OB5	OB2	OE18	OSA	
	1E18	OTF	OB3		10						
	OSA	AK	OB6	OB4	OB3	OE18	OSA	1E18	OTF	OB3	
		11									
	1SA	D1	D	E	G	K	OB5	OB2	OE18	OSA	
	1E18	OTF	OB3		11						
045	OB3 and test, zero side.										
	1SA	B4	D	E	OE18	OSA	1E18	1TF	OB3		01
	OB4-		07	KIOA	K-						
	1SA	AK	B3	OB4	05	TP	OE18	OSA	1E18	1TF	
	OB3		01	DOP							
	1SA	B6	B5	B2	B1	D	E	K	OB4	02	
	PP	OE18	OSA	1E18	1TF	OB3		02	CP7-	03	TRC
	B5		07	KIOA	OB4						
	1SA	B6	B5	B2	B1	CP7	D	E	K	OB4	
	04	02	PP	OE18	OSA	1E18	1TF	OB3		02	04A
		06	T1	B64-	B4-	07	KIOA	OB4	08	OTR	PP
	1SA	B6	B5	B2	B1	CP7	D	E	K	OB4	
	PP	OE18	OSA	1E18	1TF	OB3		02	02-	04	OB4
	B6		07	KIOA	OB4						TLS
046	1SA	B4	B2	B1	CP7	D	E	K	OB4	02	
	PP	OE18	OSA	1E18	1TF	OB3		02	TRS	01	DOP
	KD2	K		07	KIOA	OB4					
	1SA	B6	B2	B1	CP7	D	K	OB4	02		E
	PP	OE18	OSA	1E18	1TF	OB3		03	CP7	02	TRS
	B5-		07	KIOA	OB4						
	1SA	B6	B2	B1	D	E	K	OB4	04		02
	PP	OE18	OSA	1E18	1TF	OB3		03	04A	05	02A
	02		06	T1	B64-	B4-		07	KIOA	08	OTR
	PP										
	1SA	B6	B2	B1	D	E	K	OB4	PP	OE18	
	OSA	1E18	1TF	OB3		03	02-		05	04A-	07
	KIOA	OB4									
	1SA	B5	B2	B1	D	E	K	OB4	OB4	02	
	PP	OE18	OSA	1E18	1TF	OB3		03	TRC	01	DOP
	KD2	K		07	KIOA	OB4					

Tape stops

Marker number

047	1SA	B5	B2	B1	D	E	K	OB4	04	04	PP		
	OE18	OSA	1E18	1TF	OB3	.	04	04A	.	07	KIOA	OB4	
	.	08	OTR	PP	.	.	.	.	.	.	.	.	
	1SA	B5	B2	B1	CP7	D	E	K	OB4	.	02	OB4	
	PP	OE18	OSA	1E18	1TF	OB3	.	04	02A	.	.	02	TRS
	B6-	.	07	KIOA	OB4	.	.	.	.	.	.	.	.
	1SA	B6	B4	B2	B1	CP7	D	E	K	OB4	.	05	OB4
	PP	OE18	OSA	1E18	1TF	OB3	.	04	TLS	.	.	.	04A-
	.	07	KIOA	OB4	.	.	.	.	.	.	.	.	.
	1SA	B6	B2	B1	D	E	K	OB4	PP	.	.	0E18	
	OSA	1E18	1TF	OB3	.	05	04A-	.	03	02-	.	07	KIOA
	OB4	.	.	.	.	.	.	.	.	.	.	.	.
	1SA	B6	B2	B1	D	E	K	OB4	04	.	.	02	.
	PP	OE18	OSA	1E18	1TF	OB3	.	05	02A	.	03	04A	.
04	.	06	T1	B64-	B4-	.	07	KIOA	OB4	.	08	OTR	
PP	.	.	.	.	.	.	.	.	.	.	.	.	
048	1SA	B5	B4	B2	B1	D	E	K	OB4	04	04		
	PP	OE18	OSA	1E18	1TF	OB3	.	05	TRC	.	01	DOP	
	KD2	K	.	07	OB4	.	08	OTR	PP	.	.	.	
	1SA	B6	B5	B4	B2	B1	CP7	D	E	K	.	.	
	OB4	02	PP	OE18	OSA	1E18	1TF	OB3	.	06	04A-	.	
	.	02	TRS	B4	.	07	KIOA	OB4	.	.	.	.	.
	1SA	B6	B5	B4	B2	B1	D	E	K	OB4	.	.	
	04	PP	OE18	OSA	1E18	1TF	OB3	.	06	02-	.	05	.
	TRC	B5	.	07	KIOA	OB4	.	08	OTR	PP	.	.	.
	1SA	B2	B1	D	E	K	OB4	04	04	02	PP	.	
	OE18	OSA	1E18	1TF	OB3	.	06	T1	.	07	KIOA	OB4	
	.	08	OTR	PP	.	.	.	.	.	.	.	.	.
	1SA	TO	AK	B6	B4	B2	B1	CP7	D	E	K	OB4	
	TP	PS	OE18	OSA	1E18	1TF	OB3	.	06	0G0	.	02	.
1SA	B6	B3	D	E	K	OB4	04	04	PP	OE18	.		
OSA	1E18	1TF	OB3	.	05	BL4	.	.	.	.	.		
049	1SA	AK	B4	B3	OB4	05	TP	OE18	OSA	1E18			
	1TF	OB3	.	07	KIOA	01	DOP	KD2	D-	.			
	1SA	DSP	D	E	K	OB3	05	04	OE18	BSC			
	OB3	1E18	1TF	OB3	.	07	OB3	.	.	.			
	1SA	D	E	K	OB2	E5	PS	OE18	OSA	1E18			
	1TF	OB3	.	07	OB2	.	.	.	.	.			
	1SA	TO	B6	B5	B2	B1	CP7	D	E	G			
	K	02	PP	OE18	OSA	1E18	1TF	OB3	.	07	TO		
	1SA	TO	AK	B4	B3	OB4	04	PS	OE18	OSA			
	1E18	1TF	OB3	.	08	OTR	01	DOP	KD2	D-			
	1SA	B4	D	E	K	OB4	0E18	OSA	1E18	1TF			

	OB3	.	08	04A-	.	01	DOP	KD2	K	.	07	KIOA	OB4	
	1SA	B4		D	E		K	OB4	04	TP		OE18	OSA	
	1E18	1TF		OB3	.	08	TPA	.	01	DOP		K	.	07
	KIOA	OB4		.	.		.	.	.	.		.	.	
050	1SA	B4		D	E		K	OB4	05	04		OE18	OSA	
	1E18	1TF		OB3	.	08	05	.	01	DOP		K	.	07
	KIOA	OB4		.	.		.	.	.	.		.	.	
	1SA	D		E	G		K	OB6	OB2	E5		OE18	OSA	
	1E18	1TF		OB3	.	09	*TC-	E5	OB2	07	OB2	OE18	OB5-	
	1SA	D		E	G		K	OB5	OB2	PS		OE18	OSA	
	1E18	1TF		OB3	.	09	OB5	.	07	OB2		OE18	PS	
	1SA	D		E	G		K	OB6	OB2	04		OE18	OSA	
	1E18	1TF		OB3	.	09	04	.	07	OB2		OB5-	OSA	
	1SA	D		E	G		K	OB5	OB2	OE18		OSA	1E18	
	1TF	OB3		.	10	OB6-	.	07	OB2	.	09	OB5	11	*TE0-
	1SA	D1		04	D	E	07	G	K	OB6		OB6	07	OB2
	PS	OE18		OSA	1E18	1TF	.	OB3	.	11	OB6	.	07	OB2
	.	10		*TEI-	.	.	.	.	.	.	.	.	.	.
051	1SA	D1		D	E		G	K	OB2	E5		OE18	OSA	
	1E18	1TF		OB3	.	11	OB5-	.	07	OB2		09	*TC-	E5
	1SA	T0		AK	B4		B3	D1		OB5		05	TP	
	OE18	OSA		1E18	1TF		OB3	.	11	OWT		01	DOP	KD2
	D-	.		.	.		.	.	.	.		.	.	.
052	OB2 or test, one side. Logic for one side OB2 is on boards 208, 209, 210, 211.													
	OSA	B6		B3	K		OB3	OE18	1SA	1E18		1TF	OB2	
	.	01		.	.		.	.	.	.		.	.	
	1SA	B4		B2	B1		D	OB2	OE18	1SA		1E18	1TF	
	OB2	.		01	.		.	.	.	.		.	.	
	OSA	B4		B1	IP		K	OE18	1SA	1E18		1TF	OB2	
	.	02		.	.		.	.	.	.		.	.	
	1SA	B6		B5	B2		OB2	OFLO	OE18	1SA		1E18	1TF	
	OB2	.		02	.		.	.	.	.		.	.	
	OSA	B4		B2	IP		K	OE18	1SA	1E18		1TF	OB2	
	.	03		.	.		.	.	.	.		.	.	
	1SA	B6		B5	B1		OB2	OFLO	OE18	1SA		1E18	1TF	
	OB2	.		03	.		.	.	.	.		.	.	
	OSA	E		OE18	1SA		1E18	1TF	OB2		04	.	.	
	1SA	K		OB2	OE18		1SA	1E18	1TF	OB2		.	.	
	OSA	AK		OB6	OB3		04	OE18	1SA	1E18		1TF	04	OB2
	.	05		.	.		.	.	.	.		.	.	

Tape stops	Marker number											
	053	1SA	D1	D	E	K	OB5	OB4	OB2	OE18	1SA	
		1E18	1TF	OB2	.	05	PS	OE18	1SA	1E18	1TF	OB2
		OSA	AK	D1	OB3	.	.	.	.	.	.	.
		.	06	D	E	K	OB6	OB5	OB4	OB2	OE18	1SA
		1SA	.	.	.	.	.	.	.	.	.	.
		1E18	1TF	OB2	.	06	.	.	.	.	.	.
		OSA	AK	OB5	OB3	04	E5	OE18	1SA	1E18	1TF	.
		OB2	.	07	.	.	.	.	.	.	.	.
		1SA	D	E	K	OB4	OB2	OE18	1SA	1E18	1TF	.
		OB2	.	07	.	.	.	.	.	.	.	.
		OSA	AK	OB3	OE18	1SA	1E18	1TF	OB2	.	08	.
		1SA	D1	D	E	K	OB6	OB4	OB2	04	.	PS
		OE18	1SA	1E18	1TF	OB2	.	08	.	.	.	.
	054	OB2 and test, one side.										
		1SA	B4	B2	B1	D	OB3	OB2	OE18	1SA	1E18	.
		OTF	OB2	.	01	OB3	KA-	K-	.	E5	PS	.
		1SA	AK	B4	B2	B1	E	K	OB2	E	.	.
		OE18	1SA	1E18	OTF	OB2	.	01	KD2	04	OTF	OB2
		1SA	B3	D	IP	OB2	OE18	1SA	1E18	.	.	.
		.	01	T19	.	04	KA-	K-	.	.	.	.
		1SA	B6	B5	B2	B1	OB2	OFLO	OE18	1SA	1E18	.
		OTF	OB2	.	02	B1	B2	B2	04	KA-	K-	.
		1SA	B6	B5	OB2	OE18	1SA	1E18	04	OTF	OB2	.
		OFLO-	.	03	OFLO-	.	KA-	K-	.	.	.	02
		1SA	B6	B5	IP	04	OB2	OFLO	OE18	1SA	1E18	OTF
		OB2	.	03	IP	.	04	KA-	K-	.	.	.
		1SA	B4	B1	D	OB2	OFLO	OE18	1SA	1E18	OTF	.
		OB2	.	03	TRS	.	01	T19	BL4	B2-	04	KA-
	055	1SA	AK	B6	B5	E	K	OB3	OB2	OFLO	E5	.
		PS	OE18	1SA	1E18	OTF	OB2	.	03	KA	E	04
		1SA	B3	IP	OB3	OB2	OE18	1SA	1E18	OTF	OB2	.
		.	04	KA-	.	.	.	.	.	.	.	.
		1SA	B4	B2	B1	D	E	K	OB5	OB4	OB2	.
		OE18	1SA	1E18	OTF	OB2	.	05	*TE0-	01	KD2	K
		.	04	E	06	OB6-	.	.	.	.	.	.
		1SA	B4	B2	B1	D	E	K	04	OB5	OB4	.
		OB2	PS	OE18	1SA	1E18	OTF	OB2	.	05	TE0-	.
		KD2	K	.	04	E	06	OB6-	.	08	TE0-	.
		1SA	B4	B2	B1	D	OTF	OB2	E	.	OB4	01
		E5	OE18	1SA	1E18	OTF	*TC-	E5	.	05	OB5-	.
		K	.	E	.	.	.	.	08	04-	.	OB2
		1SA	AK	B3	D1	E	IP	K	OB5	OB3	OB2	.
		OE18	1SA	1E18	OTF	OB2	.	05	KIOS	E	.	.





	.	01	KD2	K	.	02	KA	K	.	04	KD1	D	.	05
	04A		04	.	.				.					
	1SA		B4	B2	B1		DSP	D	E		IP	K	OB3	
	OFLO		05	04	TP		E1	OE18	OSA		1E18	1TF	OB2	
	.	06	TPB	.	01	KD2	K	.	02	KA	K	.	04	KD1
	D		.	05	04A	04	.	.			.	.	.	.
063	1SA		T0	AK	B6		IP	K		05	04	OE18	OSA	
	1E18		1TF	OB2	.	06	OSHB	.	04	*SU1	E1-	.	.	
	1SA		B4	B2	B1		DSP	D		E	IP	K	OB3	
	OFLO		04	E1	OE18		OSA	1E18		1TF	OB2	.	06	05-
	.	01	KD2	K	.	02	KA	K	.		04	KD1	D	.
064	OFLO	or test, one side. Logic for one side OFLO is on boards 338, 340, 341, 440, 441.												
	OSA	AC	AK	B6	E	K	TS0	OE18	1SA	1E18				
	1TF	OFLO	.	01	.	.	.	.	.	.	.	.	.	.
	1SA	AX	DC	MN	OFLO	06	05	03	02	OE18				
	1SA	1E18	1TF	OFLO	.	01	.	.	.	.	.	.	.	.
	OSA	AC	AX	B6	E	K	MN	TS0	OE18	1SA				
	1E18	1TF	OFLO	.	02	.	.	.	.	.	.	.	.	.
	1SA	AK	DC	OFLO	02	06	05	03	02	OE18	1SA			
	1E18	1TF	OFLO	.	02	.	.	.	.	.	.	.	.	.
	OSA	AC	B6	E	K	MN	02	TS0	OE18	1SA				
	1TF	OFLO	.	03	.	.	.	.	.	.	.	.	.	.
	1SA	AK	AX	DC	OFLO	06	05	03	02	OE18	1SA			
	1E18	1TF	OFLO	.	03	.	.	.	.	.	.	.	.	.
	OSA	AC	AK	AX	B6	E	K	02	TS0	OE18				
	1SA	1E18	1TF	OFLO	.	04	.	.	.	.	.	.	.	.
065	1SA	DC	MN	OFLO	06	05	03	OE18	1SA	1E18				
	1TF	OFLO	.	04	.	.	.	.	.	.	.	.	.	.
	OSA	AC	B6	E	K	LP	LX	05	04	TS0				
	OE18	1SA	1E18	1TF	OFLO	.	.	05	.	.	.	.	.	.
	1SA	C2	DC	D	OFLO	06	03	OE18	1SA	1E18				
	1TF	OFLO	.	05	.	.	.	.	.	.	.	.	.	.
	OSA	AC	B6	C2	E	K	LX	05	04	TS0				
	OE18	1SA	1E18	1TF	OFLO	.	.	06	.	.	.	.	.	.
	1SA	DC	D	LP	OFLO	06	03	OE18	1SA	1E18				
	1TF	OFLO	.	06	.	.	.	.	.	.	.	.	.	.
	OSA	AC	B6	E	K	05	04	TS0	OE18	1SA				
	1E18	1TF	OFLO	.	07	.	.	.	.	.	.	.	.	.
	1SA	C2	DC	D	LP	LX	OFLO	06	03	OE18				
	1SA	1E18	1TF	OFLO	.	07	.	.	.	.	.	.	.	.

Tape stops	Marker number											
	066	OSA	AC	AX	B6	E	K	06	05	04	03	
		02	TSO	IX	OE18	1SA	1E18	1TF	OFLO	.	08	.
		1SA	AP	D	OFLO	OE18	1SA	1E18	1TF	OFLO	.	08
		OSA	AC	AP	B6	E	K	06	05	04	03	
		02	TSO	IX	OE18	1SA	1E18	1TF	OFLO	.	09	.
		1SA	AX	CR4	OFLO	OE18	1SA	1E18	1TF	OFLO	.	09
		OSA	AC	AP	AX	B6	D	E	K	06	05	
		04	03	02	TSO	IX	OE18	1SA	1E18	1TF	OFLO	
		1SA	10	CR4	OFLO	OE18	1SA	1E18	1TF	OFLO	.	10
		OSA	AC	B6	CR4	D	E	K	06	05	04	
		03	02	TSO	IX	OE18	1SA	1E18	1TF	OFLO	.	11
		1SA	AP	AX	OFLO	OE18	1SA	1E18	1TF	OFLO	.	11
		OSA	AK	MN	04	OE18	1SA	1E18	1TF	OFLO	.	12
	067	1SA	TO	TX	DX	D	K	MC	ND	OFLO	TP	
		OE18	1SA	1E18	1TF	OFLO	.	12	.	.	.	
		OSA	AK	DX	04	OE18	1SA	1E18	1TF	OFLO	.	13
		1SA	TO	TX	D	K	MC	MN	ND	OFLO	TP	
		OE18	1SA	1E18	1TF	OFLO	.	13	.	.	.	
	068	OFLO	and test, one side.									
		1SA	AX	DC	D	MN	OFLO	06	04	03	02	
		OE18	1SA	1E18	OTF	OFLO	.	01	05-	05	054	04A
		.	06	054	04A	04	.	.	.	.	.	OFLO
		1SA	TO	TX	AX	DC	D	MC	MN	ND	OFLO	01
		06	05	03	TP	OE18	1SA	1E18	OTF	OFLO	.	01
		02-	.	04	MAX1	AX	05	054	05A	05	06	054
		05A	05	.	13	VER	KIO	K-	.	.	.	.
		1SA	TO	TX	DC	DX	D	MC	ND	OFLO	06	01
		05	03	02	TP	OE18	1SA	1E18	OTF	OFLO	.	01
		MAX0	.	02	AK-	05	054	05A	05	06	054	05A
		05	.	12	VER	KIO	K-	.	.	.	.	.
		1SA	AK	AX	DC	D	MN	OFLO	06	05	03	
		02	OE18	1SA	1E18	OTF	OFLO	.	01	AKA	05	054
		05A	05	.	06	054	05A	05	.	.	.	.
	069	1SA	AK	DC	D	OFLO	06	04	03	02	OE18	
		1SA	1E18	OTF	OFLO	.	02	05-	05	054	04A	04
		.	06	054	04A	04	.	.	.	.	.	.
		1SA	AK	DC	D	OFLO	06	05	03	OE18	1SA	
		1E18	OTF	OFLO	.	02	02-	03	MAX2	AX-	05	054
		05A	05	.	06	054	05A	05	.	.	.	.
		1SA	AK	AX	DC	D	MN	OFLO	06	05	03	
		02	OE18	1SA	1E18	OTF	OFLO	.	02	MAX3	01	AKA



	AK	.	05	054	05A	05	.	06	054	05A	05	.	
	1SA	AK		AX	DC	D	OFLO		06	04	03	OE18	
	1SA	1E18		OTF	OFLO	.	03	05-	.	05A	04A	04	
	.	06	054	04A	04	.		.				.	
	1SA	AK		AX	DC	D	OFLO		06	05	03	02	
	OE18	1SA		1E18	OTF	OFLO		03	02A	.	02	MAX3	AX
	.	05	054	05A	05	.	06	054	05A	05	.	.	.
070	1SA	AK		DC	D	MN	OFLO		06	05	03	OE18	
	1SA	1E18		OTF	OFLO	.	03	MAX2	.	04	AKA	AK	05
	054	05A		05	.	06	054	05A	05		.	.	
	1SA	TO		TX	AX	DC	DX	D	MN	ND	OFLO	OFLO	
	06	05		03	TP	OE18	1SA	1E18	OTF	05	.	.	03
	AK-	.	05	054	05A	05	.	06	054	05A	05	.	12
	VER	KIO		K-	.	.	.	.	.	.	.	.	
	1SA	DC		D	MN	OFLO	06	04	03	OE18	1SA	.	
	1E18	OTF		OFLO	.	04	05-	.	05	054	04A	04	06
	054	04A		04	.	.	.	.	.	.	.	.	
	1SA	TO		TX	DC	D	MC	MN	ND	OFLO	06	.	
	05	03		02	TP	OE18	1SA	1E18	OTF	OFLO	.	.	04
	02A	.	01	MAX0	AX-	.	05	054	05A	05	06	054	
	05A	05		.	13	VER	KIO	K-	.	.	.	.	
071	1SA	TO		TX	AX	KC	D	MC	MN	ND	OFLO	OFLO	
	06	05		03	TP	OE18	1SA	1E18	OTF	OFLO	.	.	04
	MAX1	.	01	02-	.	05	054	05A	.	06	054	05A	
	05	.	13	VER	KIO	K-	.	.	.	.	.	.	
	1SA	AK		DC	D	MN	OFLO	06	05	03	OE18	05	
	1SA	1E18		OTF	OFLO	.	04	AKA	.	05	054	05A	
	.	06	054	05A	05	.	.	.	.	.	.	.	
	1SA	AK		AX	DC	D	MN	OFLO	06	05	04	04	
	03	02		OE18	1SA	1E18	1E18	OTF	.	05	054	.	01
	AKA	AK		.	.	.	.	.	.	.	.	.	
	1SA	AX		DC	MN	OFLO	06	03	02	OE18	1SA	.	
	1E18	OTF		OFLO	.	05	DA-	.	01	05-	D-	ND	
	1SA	TO		TX	AX	DC	D	LX	MC	MN	ND	OFLO	
	OFLO	06		03	02	TP	OE18	1SA	1E18	OTF	OFLO	OFLO	
	.	05	LX	.	01	05-	.	06	LX	.	13	VER	K-

Tape stops	Marker number												
072	1SA	TO	TX	AX	C2	DC	D	LP	MC	MN			
	ND	OFLO	06	03	02	TP	OE18	1SA	1E18	OTF			
	OFLO	.	05 LP	.	01 05-	.	06 C2	.	07 LX-	.	13		
	VER	KIO	K-	.	.	.	.	.	.	.			
	1SA	AK	AX	DC	D	MN	OFLO	06	05	04			
	03	02	OE18	1SA	1E18	OTF	OFLO	.	06 054	.	01		
	AKA	AK	.	.	.	.	.	.	.	.			
	1SA	AX	DC	MN	OFLO	06	03	02	OE18	1SA			
	1E18	OTF	OFLO	.	06 DA-	.	01 05-	05	DA-	D-			
	1SA	AK	AX	C2	DC	D	LP	LX	MN	OFLO			
	06	05	04	03	02	OE18	1SA	1E18	OTF	OFLO			
	.	07 054	.	01 AKA	AK	.	.	.	.	.			
	1SA	AX	C2	DC	LP	LX	MN	OFLO	06	03			
	02	OE18	1SA	1E18	OTF	OFLO	.	07 DA-	.	01 05-			
073	1SA	TO	TX	AX	DC	D	LP	LX	MC	MN			
	ND	OFLO	06	03	02	TP	OE18	1SA	1E18	OTF			
	OFLO	.	07 C2-	.	01 05-	.	06 LX	.	13 VER	KIO			
	K-	.	.	.	.	.	.	.	.	.			
	1SA	TO	TX	AX	C2	DC	D	LX	MC	MN			
	ND	OFLO	06	03	02	TP	OE18	1SA	1E18	OTF			
	OFLO	.	07 LP-	.	01 05-	.	05 LX	.	13 VER	KIO			
	K-	.	.	.	.	.	.	.	.	.			
	1SA	AC	C2	D	E	LP	LX	OFLO	IX	OE18			
	1SA	1E18	OTF	OFLO	.	07 OA	.	.	.	.			
	1SA	TO	TX	B6	C2	DC	DX	D	LP	LX			
	MC	ND	OFLO	06	03	TSO	TP	OE18	1SA	1E18			
	OTF	OFLO	.	07 T32	.	12 VER	KIO	K-	.	.			
	1SA	AC	AP	E	OFLO	04	OE18	1SA	1E18	OTF			
	OFLO	.	08 OYAC	.	.	.	.	.	.	.			
074	1SA	AP	CR4	OFLO	IX	OE18	1SA	1E18	OTF	OFLO			
	.	08 IX	.	10 IX	.	.	.	.	.	.			
	1SA	AP	AX	CR4	OFLO	OE18	1SA	1E18	OTF	OFLO			
	.	08 AX	.	09 AP	.	10 AX	.	11 CR4	.	.			
	1SA	TO	TX	CR4	DX	D	MC	ND	OFLO	TP			
	OE18	1SA	1E18	OTF	OFLO	.	08 AP-	.	09 AX-	.	10		
	D	.	12 VER	KIO	K-	.	.	.	.	.			
	1SA	AC	AX	E	OFLO	04	OE18	1SA	1E18	OTF			
	OFLO	.	09 OYAC	.	.	.	.	.	.	.			
	1SA	AX	OFLO	IX	OE18	1SA	1E18	OTF	OFLO	.	09		
	IX	.	11 IX	.	.	.	.	.	.	.			
	1SA	AC	CR4	E	OFLO	04	OE18	1SA	1E18	OTF			
	OFLO	.	10 OYAC	.	.	.	.	.	.	.			

075	1SA	OFLO	OE18	1SA	1E18	OTF	OFLO	.	10	CR4-	.	08
	AP-	.	AX-	.	AX-	.	.	.	.	.	.	.
	1SA	AC	AX	E	OFLO	04	OE18	1SA	1E18	OTF	.	.
	OFLO	.	OYAC	.	.	.	.	.	.	.	.	.
	1SA	TO	TX	AP	AX	DX	D	MC	ND	OFLO	.	.
	TP	OE18	1SA	1E18	OTF	OFLO	.	D	.	AX	08	.
	.	09	AP	12	VER	K-	.	11	.	.	.	.
	1SA	AX	B6	OFLO	TSO	OE18	1SA	1E18	OTF	OFLO	.	.
	.	11	T32	.	.	.	.	.	.	.	.	.
	1SA	TO	TX	AX	DC	DX	D	K	MC	MN	.	.
	ND	OFLO	06	05	03	02	TP	OE18	1SA	1E18	.	.
	OTF	OFLO	.	12	MNA	.	.	.	.	.	.	.
	1SA	TO	TX	DC	D	DX	K	ND	OFLO	06	.	.
	03	TP	OE18	1SA	1E18	OTF	OFLO	.	12	DX-	.	13
	MNA-	MN-	.	.	.	.	.	.	.	.	.	.
076	1SA	AC	B6	DX	E	OFLO	04	TSO	IX	OE18	.	.
	1SA	1E18	OTF	OFLO	.	12	VER	.	.	.	.	.
	1SA	TO	TX	DC	D	K	MC	ND	OFLO	06	.	.
	03	TP	OE18	1SA	1E18	OTF	OFLO	.	13	MNA-	.	12
	DX-	.	.	.	.	.	.	.	.	.	.	.
	1SA	AC	B6	E	MN	OFLO	04	TSO	IX	OE18	.	.
	1SA	1E18	OTF	OFLO	.	13	VER	.	.	.	.	.
077	OFLO	or test,	zero side.	Logic for	zero side	OFLO	is on boards	340,	341,	406,	446.	.
	OSA	TX	K	OB4	OFLO	04	03	02	0E18	OSA	.	.
	1E18	OTF	OFLO	.	01	.	.	.	.	.	.	.
	1SA	B2	ND	06	05	OE18	OSA	1E18	OTF	OFLO	.	.
	.	01	.	.	.	.	.	.	.	.	.	.
	OSA	B6	B5	D	OFLO	E4	OE18	OSA	1E18	OTF	.	.
	OFLO	.	.	.	.	.	.	.	.	.	.	.
	1SA	AK	B4	K	OE18	OSA	1E18	OTF	OFLO	.	02	.
	OSA	AK	B4	D	OFLO	OE18	OSA	1E18	OTF	OFLO	.	.
	.	03	.	.	.	.	.	.	.	.	.	.
	1SA	B6	B5	K	E4	OE18	OSA	1E18	OTF	OFLO	.	.
	.	03	.	.	.	.	.	.	.	.	.	.

Tape stops

Marker number

078	OFLO and test, zero side.									
	1SA	AK	B4	B2	D	ND	04	E4	OE18	OSA
	1E18	1TF	OFLO	.	01	JJ	.	.	.	OE18
	1SA	B6	B5	B2	ND	06	05	03	02	OE18
	OSA	1E18	1TF	OFLO	.	01	032	.	02	KD1
	KHRS	KTRS	K-	.	.	.	.	.	.	K-
	1SA	B6	B5	B2	ND	0B4	06	05	OE18	OSA
	1E18	1TF	OFLO	.	01	0B4	.	02	KDI	K-
	KTRS	K-	.	.	.	.	.	.	.	03
	1SA	TX	B6	B5	06	05	OE18	OSA	1E18	1TF
	OFLO	.	01	NDX-	02	KD1	K-	03	KHRS	KTRS
	1SA	AK	B4	B2	K	ND	06	05	E4	OE18
	OSA	1E18	1TF	OFLO	.	02	*ER	01	OJ	KA
	1SA	TX	AK	B4	D	0B4	04	03	02	OE18
	OSA	1E18	1TF	OFLO	.	02	KD1	.	.	.
079	1SA	TX	B4	D	0B4	04	03	02	E4	OE18
	OSA	OE18	1TF	OFLO	.	03	KHRS	.	.	.
	1SA	AK	B6	B5	B2	K	ND	06	05	E4
	OE18	OSA	1E18	1TF	OFLO	.	03	AKA	01	OJ
	K	.	02	*ER	E4	.	.	.	.	.
080	E or test, one side. Logic for one side E is on board 315.									
	OSA	K	TP	OE18	1SA	1E18	1TF	E	.	01
	1SA	E	ND	OE18	1SA	1E18	1TF	E	.	01
	OSA	TX	AK	CL3	IP	04	02	OE18	1SA	1E18
	1TF	E	.	02	.	.	.	.	.	.
	1SA	D	E	K	OFLO	03	TP	OE18	1SA	1E18
	1TF	E	.	02	.	.	.	.	.	.
	OSA	TX	AK	CL3	IP	04	03	OE18	1SA	1E18
	1TF	E	.	03	.	.	.	.	.	.
	1SA	D	E	K	OFLO	02	TP	OE18	1SA	1E18
	1TF	E	.	03	.	.	.	.	.	.
	OSA	TO	AK	D4	0B4	0B2	04	OE18	1SA	1E18
	1TF	E	.	04	.	.	.	.	.	.
	1SA	DSP	D3	D2	D	E	K	0B3	OFLO	03
	02	TP	OE18	1SA	1E18	1TF	E	.	04	.
081	OSA	TX	AK	D	OE18	1SA	1E18	1TF	E	.
	1SA	E	K	OE18	1SA	1E18	1TF	E	.	05
	OSA	CP6	D	OE18	1SA	1E18	1TF	E	.	06
	1SA	AK	E	K	PE	OE18	1SA	1E18	1TF	E
	OSA	AK	DSP	D3	D2	0B3	OFLO	TP	OE18	1SA
	1E18	1TF	E	.	07	.	.	.	.	.

1SA	TO	TX	CL3	D4	D	E	IP	K	OB4
OB2	04	PE	OE18	1SA	1E18	1TF	E	07	1SA
OSA	AK	DSP	D3	D2	OB3	PE	TP	OE18	1SA
1E18	1TF	E	.	08	.	.	.	.	OB4
1SA	TO	TX	CL3	D4	D	E	IP	K	OB4
OB2	OFL0	04	OE18	1SA	1E18	1TF	E	08	.

082

E and test, one side.

1SA	D	E	OE18	1SA	1E18	OTF	E	01	ND-
.	02	KIOP	K-	.	03	KIOP	K-	07	KIO
K-	.	08	K-	.	.	.	.	.	ND
1SA	TO	TX	CL3	CP6	D4	E	IP	K	ND
OB4	OB2	OFL0	04	TP	OE18	1SA	1E18	OTF	E
.	01	KTP	05	TXA	.	.	.	.	OE18
1SA	AK	CP6	E	IP	K	OFL0	PE	TP	OE18
1SA	1E18	OTF	E	.	02	KIOP	05	AKA	AK
CP6	.	.	.	.	.	.	.	.	06
1SA	CL3	D	E	K	OFL0	04	TP	OE18	1SA
1E18	OTF	E	.	02	CL34	05	KD1	D	08
TP	.	.	.	.	.	.	.	.	TPB
1SA	TX	D	E	K	OFL0	TP	OE18	1SA	1E18
OTF	E	.	02	TXA	03	TXA	TX	08	TPB
1SA	TO	D4	D	E	K	OB4	OB2	OFL0	03
02	TP	OE18	1SA	1E18	OTF	E	02	02A	.
03	.	05	KD1	D	08	TPB	TP	.	03

083

1SA	AK	CP6	E	IP	K	OFL0	PE	TP	OE18
1SA	1E18	OTF	E	.	03	KIOP	05	AKA	AK
CP6	.	.	.	.	.	.	.	.	06
1SA	CL3	D	E	K	OFL0	04	TP	OE18	1SA
1E18	OTF	E	.	03	CL34	05	KD1	D	08
1SA	TX	D	E	K	OFL0	TP	OE18	1SA	1E18
OTF	E	.	03	TXA	02	TXA	TX	08	TPB
1SA	TX	CP6	D3	D2	E	K	OB4	OB2	OFL0
03	02	TP	OE18	1SA	1E18	OTF	E	04	OSHB
.	05	TXA	.	.	.	.	.	.	.
1SA	TX	CL3	DSP	D3	D2	D	E	IP	K
OB3	OFL0	04	TP	OE18	1SA	1E18	OTF	E	04
OL4	.	08	TPB	TP	.	.	.	.	.
1SA	DSP	D4	D2	D	E	K	OB3	OFL0	03
02	TP	OE18	1SA	1E18	OTF	E	04	D43-	02
02A	02	.	03	03	05	KD1	D	08	TPB



087 E or test, zero side. Logic for zero side E is on boards 314, 315, 316, 408.

OSA	E	K	ND	TP	OE18	OSA	1E18	OTF	E	
1SA	D	PS	OE18	OSA	1E18	OTF	E			01
OSA	E	IP	LC	OB3	05	04	TP	OE18		OSA
1E18	OTF	E								
1SA	D	K	OFLO	PE	PS	OE18	OSA	1E18	OTF	
E										
OSA	E	LC	OB3	05	TP	OE18	OSA	1E18	OTF	
E										
1SA	CL7	D	IP	K	OFLO	04	PE	PP	PS	
OE18	OSA	1E18	OTF	E						
OSA	CL7	E	IP	05	PP	TP	OE18	OSA	1E18	
OTF	E									
1SA	D	K	LC	OFLO	04	PE	PS	OE18	OSA	
1E18	OTF	E								
OSA	D	E	OFLO	PE	E1	OE18	OSA	1E18	OTF	
E										

088

1SA	AK	D1	IC	K	PS	OE18	OSA	1E18	OTF	
E										
OSA	D	E	IC	OFLO	PE	OE18	OSA	1E18	OTF	
E										
1SA	AK	D1	K	E1	PS	OE18	OSA	1E18	OTF	
E										
OSA	D1	D	E	OE18	OSA	1E18	OTF	E		07
1SA	AK	IC	K	OB3	OFLO	PE	E1	PS	OE18	
OSA	1E18	OTF	E							
OSA	AK	E	IP	OFLO	PE	PS	OE18	OSA	1E18	
OTF	E									
1SA	CL7	D1	IC	LC	ND	05	PP	TP	E1	
OE18	OSA	1E18	OTF	E						

089 E and test, zero side.

1SA	AK	OB3	OFLO	PE	PS	OE18	OSA	1E18	1TF	
E		DA-		KED3	KC-	K-		KED3	KC-	
K-		KED3	KC-	K-	OFLO	*TD	PS	OSA	1E18	
1SA	D	IP	ND	OFLO	PE	*TD	PS			
1TF	E		ND							
1SA	AK	CL7	D	K	LC	05	PP	TP	PS	
OE18	OSA	1E18	1TF	E						
D		KED3	ED3	D		KTP	PS	05	KED3	
1SA	AK	D	K	OFLO	05	*TD	PS	OE18	OSA	
1E18	1TF	E		054	05A		KTP	K		05
KED3	ED3	D		KED3	ED3	D		*TD	PS	
1SA	AK	CL7	D	K	OFLO	04	PE	PP	PS	
OE18	OSA	1E18	1TF	E		054	04A			
K		IP-		KED3	ED3	D		KED3	KTP	01
D		*TD	PS						ED3	





093	1SA	AK	CL7	D1	D	LC	ND	05	PP	TP	
	E1	PS	OE18	OSA	1E18	1TF	E	.	06	KED3	08
	*TD	PS	.	.	.	.	.	.	.	.	.
	1SA	AK	IC	IP	K	OFLO	PE	E1	PS	OE18	
	OSA	1E18	1TF	E	.	07	OB3-	.	05	*GPR-	06
	IC	.	*TD	PS	.	.	.	.	.	.	.
	1SA	AK	D1	IC	K	OB3	OFLO	04	PE	E1	
	PS	OE18	OSA	1E18	1TF	E	.	07	D1	.	04
	D-	.	*GPR-	E1	.	06	IC	08	*TD	PS	
	1SA	AK	CL7	D	IC	ND	OB3	.	OFLO	05	PE
	PP	TP	E1	PS	OE18	OSA	1E18	.	1TF	E	07
	KED3	.	*TD	PS	.	.	.	.	.	.	.
	1SA	K	OB3	OFLO	04	PE	PS	OE18	OSA	1E18	
	1TF	E	.	AK-	.	04	KED2	D-	.	05	AK-
	AK-	.	*TD	PS	.	.	.	.	.	.	.

094	1SA	AK	IC	K	OB3	E1	PS	OE18	OSA	1E18	
	1TF	E	.	07	ERR-	.	05	*GPR-	E1	.	06
	*TD	PS	.	.	.	.	.	.	.	.	.
	1SA	CL7	D1	IC	LC	ND	05	PP	TP	E1	
	PS	OE18	OSA	1E18	1TF	E	.	08	*TD	.	.

095 FS or test, one side. Logic for one side FS is on boards 238, 240, 315, 403, 404, 440, 441.

Logic for shorting cable 012.

OSA	B6	B5	B3	B2	CL5	IP	K	IX	OE18
1SA	1E18	1TF	FS	.	01	.	.	.	.
1SA	B1	CL7	CL6	FS	IC	OE18	1SA	1E18	1TF
FS	.	01	.	.	.	.	.	.	.
OSA	B6	B5	B3	B2	CL5	IC	IP	K	MP
05	03	OE18	1SA	1E18	1TF	FS	.	02	.
1SA	B1	CL7	CL6	D	FS	06	OE18	1SA	1E18
1TF	FS	.	02	.	.	.	.	.	.
OSA	B6	B5	B3	B2	CL5	IC	IP	K	MP
OE18	1SA	1E18	1TF	FS	.	03	.	.	.
1SA	B1	CL7	CL6	D	FS	06	05	03	OE18
1SA	1E18	1TF	FS	.	03	.	.	.	.
OSA	B6	B5	B3	B2	CL5	IC	IP	K	MP
06	03	OE18	1SA	1E18	1TF	FS	.	04	.

Tape stops

Marker number

096	1SA	B1	CL7	CL6	D	FS	05	OE18	1SA	1E18	
	1TF	FS	.	04	.	.	.	.	.	.	
	OSA	B6	B5	B3	B2	CL5	IC	IP	K	MN	
	04	03	OE18	1SA	1E18	1TF	FS	.	05	.	
	1SA	B1	CL7	CL6	FS	06	05	OE18	1SA	1E18	
	1TF	FS	.	05	.	.	.	.	.	.	
	OSA	D6	D	E2	OE18	1SA	1E18	1TF	FS	.	06
	1SA	CPFS	FS	K	OE18	1SA	1E18	1TF	FS	.	06
	OSA	CPFS	D7	D	E2	OE18	1SA	1E18	1TF	FS	
	1SA	07	FS	K	OE18	1SA	1E18	1TF	FS	.	
	1SA	FS	K	OE18	1SA	1E18	1TF	FS	.	07	.
097	FS and test, one side.										
	1SA	B1	CL7	CL6	D	FS	IC	03	IX	OE18	
	1SA	1E18	OTF	FS	.	01	IX	.	02	KDIC	03
	KDIC	IC	.	04	KDIC	IC	.	.	.	.	
	1SA	B1	CL7	CL6	D	FS	MN	MP	04	03	
	OE18	1SA	1E18	OTF	FS	.	01	IC-	02	MP	03
	MP	.	04	MP	.	.	.	.	.	.	
	1SA	B1	CL7	CL6	D7	D6	FS	IC	K	E2	
	OE18	1SA	1E18	OTF	FS	.	01	K	.	.	
	1SA	B1	CL7	CL6	D	FS	MN	06	05	04	
	OE18	1SA	1E18	OTF	FS	.	02	05	01	IC-	03
	03	.	04	06	.	.	.	.	.	.	
	1SA	B1	CL7	CL6	D7	D6	D	FS	IC	03	
	IX	E2	OE18	1SA	1E18	OTF	FS	.	02	KDIC	01
	IX	.	03	KDIC	IC	.	04	KDIC	IC	.	
098	1SA	B1	CL7	CL6	D7	D6	D	FS	IC	03	
	IX	E2	OE18	1SA	1E18	OTF	FS	.	03	KDIC	01
	IX	.	02	KDIC	IC	.	04	KDIC	IC	.	
	1SA	B1	CL7	CL6	D7	D6	D	FS	IC	03	
	IX	E2	OE18	1SA	1E18	OTF	FS	.	04	KDIC	01
	IX	.	02	KDIC	IC	.	03	KDIC	IC	.	
	1SA	B1	CL7	CL6	D	FS	MN	06	05	OE18	
	1SA	1E18	OTF	FS	.	05	MN	.	01	IC-	02
	.	03	03-	06	.	.	.	.	.	.	
	1SA	B1	CL7	CL6	D	FS	MP	06	05	03	
	OE18	1SA	1E18	OTF	FS	.	05	03	01	IC-	03
	MP	.	.	.	.	.	.	.	.	.	
	1SA	B1	CL7	CL6	D7	D6	D	FS	MP	04	
	E2	OE18	1SA	1E18	OTF	FS	.	05	OJ	01	IC-
	.	02	MP	.	04	MP	.	.	.	.	

099	1SA	B1	CL7	CL6	CPFS	FS	IC	06	05	IX	
	OE18	1SA	1E18	OTF	FS	.	05 IC	.	01 IX	.	06
	KD1	K-	.	.	.	.	.	.	.	.	.
	1SA	B6	B5	B3	B2	CL5	CPFS	FS	IP	06	
	05	OE18	1SA	1E18	OTF	FS	.	05 FST	.	06 KD1	
	K-	.	.	.	.	.	.	.	.	.	.
	1SA	B1	CL7	CL6	CPFS	D6	FS	IC	K	OE18	
	1SA	1E18	OTF	FS	.	06 *RFS	D6	.	01 K	.	07
	CPFS	.	.	.	.	.	.	.	.	.	.
	1SA	B1	CL7	CL6	CPFS	FS	IC	K	E2	OE18	
	1SA	1E18	OTF	FS	.	06 *RFS	E2	.	01 K	.	
	1SA	B1	CL7	CL6	D7	FS	IC	K	OE18	1SA	
	1E18	OTF	FS	.	06 CPFS-	.	01 K	.	07 *RFS-	D7	
	1SA	B6	B5	B3	B2	CL5	CPFS	D	FS	IP	
	MN	MP	04	IX	OE18	1SA	1E18	OTF	FS	.	06
	KD1	.	.	.	.	.	.	.	.	.	.
	1SA	B1	CL7	CL6	FS	IC	K	E2	OE18	1SA	
	1E18	OTF	FS	.	07 *RFS-	E2	.	01 K	.	.	
100	1SA	B6	B5	B3	B2	CL5	D	FS	IP	MN	
	MP	04	IX	OE18	1SA	1E18	OTF	FS	.	07 KD1	
101	FS or test, zero side. Logic for zero side FS is on board 441.										
	OSA	FS	TP	OE18	OSA	1E18	OTF	FS	.	01	.
	1SA	OE18	OSA	1E18	OTF	FS	.	01	.	.	.
102	FS and test, zero side.										
	1SA	TP	OE18	OSA	1E18	1TF	FS	.	01	TP	.
103	CPFS or test, one side. Logic for CPFS is on boards 237, 238.										
	OSA	TO	CFS	E	K	04	03	OE18	1SA	1E18	
	1TF	CPFS	.	01	.	.	.	.	.	.	.
	1SA	CPFS	06	05	OE18	1SA	1E18	1TF	CPFS	.	01
	OSA	AK	B6	IP	OE18	1SA	1E18	1TF	CPFS	.	02
	1SA	B4	B3	B2	B1	CPFS	D	K	03	02	
	OE18	1SA	1E18	1TF	CPFS	.	02	.	.	.	.

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104	CPFS and test, one side. No test for 01 CPFS-.									
	1SA	B4	B3	B2	B1	CFS	CPFS	D	06	05
	OE18	1SA	1E18	OTF	CPFS	01	CFS	.	.	.
	1SA	AK	B6	CPFS	IP	04	OE18	1SA	1E18	OTF
	CPFS	.	01 OJ	.	.	.	.	.	.	.
	1SA	B4	B3	B2	B1	CPFS	D	06	05	03
	02	OE18	1SA	1E18	OTF	CPFS	.	01 03	.	02 KIOP
	KIO	K-	.	.	.	.	.	.	.	.
	1SA	B4	B3	B2	B1	CPFS	D	E	06	05
	OE18	1SA	1E18	OTF	CPFS	01	E	.	.	.
	1SA	TO	B4	B3	B2	B1	CPFS	D	06	05
	OE18	1SA	1E18	OTF	CPFS	01	TO	.	.	.
	1SA	TO	AK	B4	B3	B2	B1	CFS	CPFS	E
	IP	04	03	02	OE18	1SA	1E18	OTF	CPFS	.
	KIOP	.	.	.	.	.	.	.	.	02
	1SA	B6	B3	B2	B1	CPFS	D	K	06	05
	03	02	OE18	1SA	1E18	OTF	CPFS	.	02 T15	TOP
105	1SA	B4	CPFS	D	K	06	05	03	02	OE18
	1SA	1E18	OTF	CPFS	.	02 T15	BLO	.	.	.
	1SA	CPFS	OE18	1SA	1E18	OTF	CPFS	.	01 OJ	.
	1SA	K	D	B4	B3	B2	B1	CPFS	OE18	1SA
	1E18	OTF	CPFS	.	01 OJ	.	02 032-	.	.	.
106	CPFS or test, zero side. Logic for zero side CPFS is on boards 237, 233.									
	OSA	TO	CPFS	E	K	04	03	OE18	OSA	1E18
	OTF	CPFS	.	01	.	.	.	.	.	.
	1SA	CFS	06	05	OE18	OSA	1E18	OTF	CPFS	01
	OSA	AK	B6	CPFS	OE18	OSA	1E18	OTF	CPFS	02
	1SA	B4	B3	B2	B1	D	IP	K	03	02
	OE18	OSA	1E18	OTF	CPFS	.	02	.	.	.
	OSA	AK	B4	CPFS	E1	D	OE18	OSA	1E18	OTF
	CPFS	.	03	.	.	.	.	.	.	.
	1SA	B6	B5	K	OE18	OSA	1E18	OTF	CPFS	03
	OSA	B5	CPFS	D	OE18	OSA	1E18	OTF	CPFS	04
	1SA	AK	K	E1	OE18	OSA	1E18	OTF	CPFS	04
107	CPFS and test, zero side. No test for 01 CPFS.									
	1SA	B4	B3	B2	B1	D	IP	06	05	OE18
	OSA	1E18	1TF	CPFS	.	01 CFS-	.	.	.	.
	1SA	AK	CFS	K	04	OE18	OSA	1E18	1TF	CPFS
	.	01 OJ	.	04 *SU	E1-	.	.	.	.	.
	1SA	B4	B3	B2	B1	CFS	D	IP	06	05
	03	02	OE18	OSA	1E18	1TF	CPFS	.	01 03	.
	KIO	K	.	.	.	.	.	.	.	.

	1SA	B4	B3	B2	B1	CFS	D	E	IP	06	
	05	OE18	OSA	1E18	1TF	CPFS	.	01	E	.	
	1SA	TO	B4	B3	B2	B1	CFS	D	IP	06	
	05	OE18	OSA	1E18	1TF	CPFS	.	01	TO	.	
	1SA	B4	B3	B2	B1	CFS	D	K	06	05	
	E1	03	02	OE18	OSA	1E18	1TF	CPFS	.	02	IP-
	.	04	KD1	D	.	.	.	.	.	.	.
108	1SA	TO	AK	B4	B3	B2	B1	E	IP	K	
	04	03	02	OE18	OSA	1E18	1TF	CPFS	.	02	KIO
	.	04	*SU	E1-	.	.	.	.	.	.	.
	1SA	E1	B3	B2	B1	CFS	D	IP	K	06	
	05	E1	03	02	OE18	OSA	1E18	1TF	CPFS	.	02
	TOP	.	04	KD1	D	.	.	.	.	.	.
	1SA	B4	CFS	D	IP	K	06	05	E1	03	
	02	OE18	OSA	1E18	1TF	CPFS	.	02	BLO	04	KD1
	D	.	.	.	.	.	.	.	.	.	.
	1SA	TO	E	K	04	03	OE18	OSA	1E18	1TF	
	CPFS	.	03	KTRS	.	04	*SU	E1	.	.	.
	1SA	AK	B6	B5	CFS	K	06	05	OE18	OSA	
	1E18	1TF	CPFS	.	03	AKA	.	01	OJ	K	04
	*SU	E1-	.	.	.	.	.	.	.	.	.
	1SA	TO	AK	D	E	04	03	E1	OE18	OSA	
	1E18	1TF	CPFS	.	04	KD1	.	.	.	.	.
109	1SA	AK	CFS	K	06	05	OE18	OSA	1E18	1TF	
	CPFS	.	04	*SU	.	01	OJ	K	.	.	.
	1SA	IP	K	D	B4	B3	B2	B1	OE18	OSA	
	1E18	1TF	CPFS	.	02	032	.	.	.	.	.
	1SA	D	K	B6	B5	OE18	OSA	1E18	1TF	CPFS	
	.	03	D	.	.	.	.	.	.	.	.
110	IC or test, one side. Logic for one side IC is on boards 207, 208, 401.										
	OSA	TO	K	06	05	PE	OE18	1SA	1E18	1TF	
	IC	.	01	.	.	.	.	.	.	.	.
	1SA	D	IC	ID	04	03	TSO	OE18	1SA	1E18	
	1TF	IC	.	.	.	.	.	.	.	.	.
	OSA	TO	B6	B2	B1	E	ID	K	04	03	
	OE18	1SA	1E18	1TF	IC	.	02	.	.	.	.
	1SA	B3	IC	06	05	OE18	1SA	1E18	1TF	IC	
	.	.	.	.	.	.	.	.	.	.	.
	OSA	TO	AK	OE18	1SA	1E18	1TF	IC	.	03	.
	1SA	D	IC	K	OE18	1SA	1E18	1TF	IC	.	03
	OSA	TO	D	OE18	1SA	1E18	1TF	IC	.	04	.
	1SA	IC	K	E1	OE18	1SA	1E18	1TF	IC	.	04
	OSA	B4	ID	K	03	TSO	OE18	1SA	1E18	1TF	
	IC	.	.	.	.	.	.	.	.	.	.
	1SA	TO	AK	D	E	IC	06	PE	OE18	1SA	
	1E18	1TF	IC	.	05	.	.	.	.	.	.

Tape stops

Marker number

111	OSA 1TF 1SA 1SA	B3 IC TO 1E18	D . B6 1TF	E 06 B4 IC	K . B2 .	06 B1 06	05 IC .	OE18 04 .	1SA 03 .	1E18 OE18 .	
112	IC and text, one side.										
	1SA OE18 . 1SA OE18 1SA OTF 1SA IC 1SA OTF 1SA 1E18	B6 1SA 06 KD3 AK 1SA B3 IC AK . D IC AK OTF	B4 1E18 D B3 1E18 D B3 02 OJ E B3 IC	B2 OTF . D OTF IC D IC E D .	B1 IC . IC IC 06 01 IC 06 IC KIO	D . ID . 05 01 ID- 04 05 01 ID- 04 .	IC ID- . K 01 KD2 03 OE18 03 KIO 03 TSO 03 KIO 03 TSO 01 ID-	04 . 04 03 03 KIO 1SA 1E18 OE18 1SA KIO TSO .	03 KIO 03 KIO 1SA K- 1E18 OTF 1SA K- OE18 .	TSO K- TSO AK 1E18 OTF 1E18 1SA K- 1SA .	
113	1SA 1SA 1SA 1SA . 1SA 1SA 1SA OTF 1SA IC 1SA OTF	AK 1E18 B6 1E18 03 KIO TO 1E18 TO IC TO . TO IC	B3 OTF B4 OTF D- B6 OTF AK . D EAKO AK .	D IC B2 IC . B4 IC E KD2 IC . D E 05 06-	IC . B1 . 06 KD3 B2 IC 06 IC E .	04 KD1 IC 04 *SU K 06 B1 04 TOB 06 04 04 IC IC .	03 . K . IC PE . OE18 1SA PE OE18 .	TSO ID- 06 02 OJ K . K 06 KD3 OE18 1SA 1E18 OTF 1SA 1E18 .	E1 . 05 KA E1 K 1SA 1E18 OTF 1SA 1E18 .	OE18 OE18 K OE18 1E18 OTF 1E18 .	
114	1SA 1SA 1SA 1SA 03 1SA E1 D- 1SA IC	TO 1E18 TO 1E18 TO OE18 B6 OE18 . TO . TO IC	AK OTF AK OTF B6 1SA B4 1SA 1SA E 02 B3 06 T1	D IC D IC B4 1E18 B2 1E18 IC IC 04 .	E . E . B2 OTF B1 OTF K- 04 .	IC 05 03 IC 05 KT32 B1 D IC IC E IC IC 03 .	06 03 06 PE 06 KD3 ID E 06 OE18 1SA .	03 . PE TSO K IC K 06 KD3 ID E 06 1SA 1E18 .	PE TSO K 04 . 05 05 KD2 OTF .	OE18 OE18 04 . 05 05 KD2 OTF .	

115	IC or test, zero side. Logic for zero side IC is on boards 207, 208.										
	OSA	B4	B1	IC	NC	TP	OE18	OSA	1E18	OTF	
	IC	.	01	.	B5	B3	B2	D	IX	OE18	OSA
	1SA	AK	B6	B5	B3	B2	D	IX	OE18	OSA	
	1E18	OTF	IC	.	01	IX	OE18	OSA	1E18	OTF	IC
	OSA	D	IC	K	IX	OE18	OSA	1E18	OTF	IC	.
	.	02	.	.	TP	OE18	OSA	1E18	OTF	IC	.
	1SA	B5	NC	TP	OE18	OSA	1E18	OTF	IC	1E18	OTF
	OSA	B5	D	IC	K	NC	OE18	OSA	1E18	OTF	02
	IC	.	03	.	.	.	.	.	.	.	.
	1SA	TP	IX	OE18	OSA	1E18	OTF	IC	.	03	.
	OSA	AK	B6	B3	B2	IC	OE18	OSA	1E18	OTF	.
	IC	.	04	.	.	.	.	.	.	.	.
	1SA	B4	B1	K	TP	OE18	OSA	1E18	OTF	IC	.
	.	04	.	.	.	.	.	.	.	.	.
116	IC and test, zero side.										
	1SA	AK	B6	B5	B3	B2	D	TP	IX	OE18	
	OSA	1E18	1TF	IC	IC	01	TP	.	.	.	.
	1SA	B5	B4	B1	NC	TP	IX	OE18	OSA	1E18	
	1TF	IC	.	02	IX	TP	.	03	B5	.	04
	KC-	K-	.	02	.	.	.	.	.	.	.
	1SA	B5	B4	B1	TP	OE18	OSA	1E18	1TF	IC	
	.	02	NC-	01	TP	B5	NC	04	KAK1	KC-	K-
	1SA	B5	B4	B1	IC	NC	06	05	TP	OE18	
	BSC	IC	1E18	1TF	IC	.	02	IC	.	01	TP
	B5	.	04	KAK1	KC-	K-	.	.	.	.	03
	1SA	AK	B6	B5	B3	B2	D	.	NC	IP	OE18
	OSA	1E18	1TF	IC	IC	02	KD3	.	01	TP	OSA
	1SA	AK	B6	B3	B2	D	TP	IX	OE18	OSA	
	1E18	1TF	IC	.	03	KD3	.	01	TP	.	.
117	1SA	B6	B1	K	NC	TP	OE18	OSA	1E18	1TF	
	IC	.	04	TOP	.	01	TP	.	02	KD3	03
	K	.	.	.	.	.	.	.	.	.	.
	1SA	B4	B3	B2	K	NC	TP	OE18	OSA	1E18	
	1TF	IC	.	04	BL6	.	01	TP	.	02	KD3
	KD3	K	.	.	.	.	.	.	.	.	.
	1SA	AK	B5	B4	B1	D	TP	IX	OE18	OSA	
	1E18	1TF	IC	.	04	KAK1	.	01	TP	.	.

Tape stops	Marker number										
118		CN7 or test, one side. Logic for one side CN7 is on boards 335, 339. Logic for shorting cable 012.									
		OSA	B6	CR7	K	TS0	OE18	1SA	1E18	1TF	CN7
			01								
		1SA	CN7	D6	D	G	E2	OE18	1SA	1E18	1TF
		CN7		01							
		OSA	D6	D	G	E2	OE18	1SA	1E18	1TF	CN7
			02								
		1SA	B6	CN7	CR7	K	TS0	OE18	1SA	1E18	1TF
		CN7		02							
119		CN7 and test, one side.									
		1SA	CN7	CR7	D6	D	G	E2	OE18	1SA	1E18
		OTF	CN7		01	CR7					
		1SA	CN7	D6	D	E2	OE18	1SA	1E18	OTF	CN7
			01	RCL	G-						
		1SA	B6	CN7	D6	D	G	E2	OE18	1SA	1E18
		OTF	CN7		01	RCL	B6				
		1SA	CN7	D6	D	G	TS0	E2	OE18	1SA	1E18
		OTF	CN7		01	RCL	TS0				
		1SA	B6	CN7	CR7	D6	K	TS0	OE18	1SA	1E18
		OTF	CN7		02	*R7	D6				
		1SA	B6	CN7	CR7	K	TS0	E2	OE18	1SA	1E18
		OTF	CN7		02	*R7	E2				
		1SA	B6	CN7	CR7	D	TS0	OE18	1SA	1E18	OTF
		CN7		02	KD1						
120		CN7 or test, zero side. Logic for zero side CN7 is on boards 335, 407, 408. Logic for shorting cable 012.									
		OSA	B6	CN7	K	TS0	OE18	OSA	1E18	OTF	CN7
			01								
		1SA	CR7	D7	D	G	E2	OE18	OSA	1E18	OTF
		CN7		01							
		OSA	CN7	CR7	D7	D	G	E2	OE18	OSA	1E18
		OTF	CN7		02						
		1SA	B6	K	TS0	OE18	OSA	1E18	OTF	CN7	02
121		CN7 and test, zero side.									
		1SA	D7	D	G	E2	OE18	OSA	1E18	1TF	CN7
			01	CR7-							
		1SA	B6	CR7	D7	D	TS0	E2	OE18	OSA	1E18
		1TF	CN7		01	RCL					
		1SA	B6	D7	K	TS0	OE18	OSA	1E18	1TF	CN7
			02	*R7-	D7						



	1SA	B6	K	TSO	E2	OE18	OSA	1E18	1TF	CN7	
	02	*R7-	E2								
	1SA	B6	D	TSO	OE18	OSA	1E18	1TF	CN7		02
	KD1	.	.	.	.	.	.	.	.	.	.
122	CN6 or test, one side. Logic for one side CN6 is on boards 239, 240, 404, 212. Logic for shorting cable 012.										
	OSA	B6	CR6	D8	K	TSO	OE18	1SA	1E18	1TF	
	CN6		01	.	.	.	.	.	.	.	
	1SA	CN6	D	G	E2	OE18	1SA	1E18	1TF	CN6	
	01	.	.	.	.	.	.	.	.	.	
	OSA	D	G	E2	OE18	1SA	1E18	1TF	CN6		02
	1SA	B6	CN6	CR6	D8	K	TSO	OE18	1SA	1E18	
	1TF	CN6	.	02	.	.	.	.	.	.	.
123	CN6 and test, one side.										
	1SA	CN6	CR6	D	G	E2	OE18	1SA	1E18	OTF	
	CN6	.	01	CR6	.	.	.	.	.	.	
	1SA	B6	CN6	D	TSO	E2	OE18	1SA	1E18	OTF	
	CN6	.	01	RCL	.	.	.	.	.	.	
	1SA	B6	CN6	CR6	K	TSO	OE18	1SA	1E18	OTF	
	CN6	.	02	*R6	D8-	.	.	.	.	.	
	1SA	B6	CN6	CR6	D8	K	TSO	E2	OE18	1SA	
	1E18	OTF	CN6		02	*R6	E2	.	.	.	
	1SA	B6	CN6	CR6	D8	D	TSO	OE18	1SA	1E18	
	OTF	CN6	.	02	KD1	.	.	.	.	.	
124	CN6 or test, zero side. Logic for zero side CN6 is on boards 239, 230, 335, 403, 406. Logic for shorting cable 012.										
	OSA	B6	CN6	K	OP3	OP2	TSO	PS	OE18	OSA	
	1E18	OTF	CN6	.	01	.	.	.	.	.	
	1SA	CR6	D	G	OP1	OE18	OSA	1E18	OTF	CN6	
	01	.	.	.	.	.	.	.	.	.	
	OSA	CN6	CR6	D	G	OP1	OE18	OSA	1E18	OTF	
	CN6	.	02	.	.	.	.	.	.	.	
	1SA	B6	K	OP3	OP2	TSO	PS	OE18	OSA	1E18	
	OTF	CN6	.	02	.	.	.	.	.	.	

Tape stops

Marker number

125	CN6 and test, zero side.									
1SA	D	G	OP1	OE18	OSA	1E18	1TF	CN6	.	01
CR6-	.	.	.	.	.	.	.	.	.	.
1SA	B6	CR6	D	OP1	TSO	OE18	OSA	1E18	1TF	.
CN6	.	01	RCL	.	.	.	.	.	.	.
1SA	B6	K	OP2	TSO	PS	OE18	OSA	1E18	1TF	.
CN6	.	02	*R6	OP3	.	.	.	.	.	.
1SA	B6	K	OP3	TSO	PS	OE18	OSA	1E18	1TF	.
CN6	.	02	*R6-	OP2-	.	.	.	.	.	.
1SA	B6	K	OP3	OP2	OP1	TSO	PS	OE18	OSA	.
1E18	1TF	CN6	OP3	02	*R6-	OP1	.	.	.	.
1SA	B6	K	OP3	OP2	TSO	OE18	OSA	1E18	1TF	.
CN6	.	02	*R6-	PS-	.	.	.	.	.	.
1SA	B6	D	OP3	OP2	TSO	PS	OE18	OSA	1E18	.
1TF	CN6	.	02	KD1	.	.	.	.	.	.
126	DSP or test, one side. Logic for one side DSP is on boards 213, 301, 210.									
OSA	TO	CN3	C7	C6	E	K	05	04	.	01
03	02	E1	E2	OE18	1SA	1E18	1TF	DSP	.	.
1SA	TX	CN4	DSP	CN2	06	TP	E3	E4	OE18	.
1SA	1E18	1TF	DSP	.	01	.	.	.	.	.
127	DSP and test, one side.									
1SA	TO	CN4	C7	DSP	E	K	CN2	05	04	01
03	02	E3	E4	OE18	1SA	1E18	OTF	DSP	.	.
OXO	.	.	.	.	.	.	.	.	.	.
1SA	TX	CN4	C5	DSP	CN2	06	TP	E3	E4	.
OE18	1SA	1E18	OTF	DSP	01	C5	.	.	.	.
1SA	TX	CN3	DSP	06	TP	E1	E2	OE18	1SA	.
1E18	OTF	DSP	.	01	CNL2	.	.	.	.	.
1SA	TX	CN4	C6	DSP	CN2	06	TP	E3	E4	.
OE18	1SA	1E18	OTF	DSP	.	01	C6	.	.	.
128	DSP or test, zero side. Logic for zero side DSP is on boards 213, 214, 404, 405, 408, 211. Logic for matrix 009. No test for 03.									
OSA	TO	CN3	C7	C6	C5	DSP	E	K	CN2	.
05	04	03	02	E3	OE18	OSA	1E18	OTF	DSP	.
.	01	.	.	.	.	.	.	.	.	.
1SA	TX	CN4	06	TP	E1	E2	E4	PS	OE18	.
OSA	1E18	OTF	DSP	01	.	.	.	.	.	.
OSA	AK	DSP	OB6	OB4	04	OE18	OSA	1E18	OTF	.
DSP	.	02	.	.	.	.	.	.	.	.
1SA	D	E	K	OB5	PS	OE18	OSA	1E18	OTF	.
DSP	.	02	.	.	.	.	.	.	.	.
OSA	TX	CN4	DSP	D	OB6	06	TP	E1	E2	.

	E4	PS	OE18	OSA	1E18	OTF	DSP	.	04	.	.
	1SA	TO	AK	CN3	C7	C6	C5	CN2	.	OB4	05
	03	02	E3	OE18	OSA	1E18	OTF	DSP	.	.	04
	OSA	AK	DSP	OB5	OB4	OB2	04	TSO	OE18	OSA	.
	1E18	OTF	DSP	.	05	.	.	.	.	.	.
	1SA	D	E	K	OB6	PS	OE18	OSA	1E18	OTF	.
	DSP	.	05	.	.	.	.	.	.	.	.
129	OSA	AK	DSP	OB6	OB5	OB4	OE18	OSA	1E18	OTF	.
	DSP	.	06	.	.	.	.	.	.	.	.
	1SA	D	E	K	04	PS	OE18	OSA	1E18	OTF	.
	DSP	.	06	.	.	.	.	.	.	.	.
130	DSP and test, zero side. No test for KIOA.										
	1SA	TO	AK	CN4	C7	OB4	05	03	02	E1	.
	E2	E4	PS	OE18	OSA	1E18	1TF	DSP	.	01	OXO
	.	04	*TD	PS	.	.	.	.	.	.	.
	1SA	TX	CN4	C5	06	TP	E1	E2	E4	PS	.
	OE18	OSA	1E18	1TF	DSP	.	01	C5	04	*TD	PS
	1SA	TX	CN3	CN2	06	TP	E3	PS	OE18	OSA	.
	1E18	1TF	DSP	.	01	CN3	*TD	PS	.	.	.
	1SA	TX	CN4	C6	06	TP	E1	E2	E4	PS	.
	OE18	OSA	1E18	1TF	DSP	.	01	C6	04	*TD	PS
	1SA	TO	AK	CN3	C7	C6	C5	CN2	OB5	OB4	.
	05	03	02	E3	PS	OE18	OSA	1E18	1TF	DSP	.
	.	02	KIOA	04	*TD	PS	OE18	OSA	1E18	1TF	DSP
	1SA	D	E	K	PS	05	OB6-	.	06	04-	.
	.	02	OB5-	.	04	*TD	PS	.	.	.	.
131	1SA	TX	CN4	D	E	OB6	OB2	06	TSO	TP	.
	E1	E2	E4	PS	OE18	OSA	1E18	1TF	DSP	.	03
	*TC	K-	.	01	OXO	E	.	04	*TD	PS	05
	KIOA	K-	.	.	.	.	.	.	.	.	.
	1SA	TX	CN4	D	K	OB6	OB2	06	TSO	TP	.
	E1	E2	E4	PS	OE18	OSA	1E18	1TF	DSP	.	03
	*TC	F-	.	01	OXO	K	.	04	*TD	PS	05
	KIOA	E-	.	.	.	.	.	.	.	.	.
	1SA	E	K	OB6	OB2	TSO	PS	OE18	OSA	1E18	.
	1TF	DSP	.	03	*TC	D-	.	04	*TD	PS	05
	D-	.	.	.	.	.	.	.	.	.	.
	1SA	AK	D	E	K	OB6	OB2	TSO	PS	OE18	.
	OSA	1E18	1TF	DSP	.	03	*TC	AK	.	04	*TD
	.	05	KIOA	AK	.	.	.	.	.	.	PS
	1SA	D	E	K	OB2	TSO	PS	OE18	OSA	1E18	.
	1TF	DSP	.	03	*TC	OB6-	.	02	OB5-	.	PS
	.	05	OB6-	.	06	04-	.	.	.	.	.

Tape stops

Marker number

132	No test for 03 TS0-.									
1SA	D	E	K	OB6	OB4	OB2	TS0	PS	OE18	
OSA	1E18	1TF	DSP	.	03 *TC	OB4	.	04 *TD	PS	
.	05 KIOA	OB4	.	.	.	.	.	.	.	.
1SA	TO	AK	CN3	C7	C6	C5	CN2	OB4	OB4	05
03	02	E3	PS	OE18	OSA	1E18	1TF	DSP	.	04
*TD	.	.	.	.	.	.	.	.	.	.
1SA	TO	AK	CN3	C7	C6	C5	CN2	OB6	OB4	
05	03	02	E3	PS	OE18	OSA	1E18	1TF	DSP	
.	05 KIOA	.	04 *TD	.	.	.	.	.	.	.
1SA	TX	AK	CN4	OB4	06	04	TP	E1	E2	01
E4	PS	OE18	OSA	1E18	1TF	DSP	.	06 KIOA	.	
OXO	OX	04	.	04 *TD	PS	.	.	.	.	
133	D8 or test, one side. Logic for one side D8 is on boards 211, 212, 213, 232, 403, 209. Logic for mechanical reader 011 and/or shorting cable 012.									
OSA	AK	OB6	OB3	04	03	OE18	1SA	1E18	1TF	
D8	.	01	.	.	.	.	.	.	.	
1SA	DX	DSH	D8	D	E	K	OB5	OB4	OB2	
06	PS	OE18	1SA	1E18	1TF	D8	.	01	.	
OSA	AK	OB3	OB2	04	PP	OE18	1SA	1E18	1TF	
D8	.	02	.	.	.	.	.	.	.	
1SA	DX	DSH	D8	D6	D	E	K	OB4	X1	
OE18	1SA	1E18	1TF	D8	02	OE18	1SA	1E18	1TF	
OSA	AK	D1	OB2	05	PP	OE18	1SA	1E18	1TF	
D8	.	03	.	.	.	.	.	.	.	
1SA	DSP	D8	D	E	K	OB4	OB3	OE18	1SA	
1E18	1TF	D8	03	OE18	1SA	1E18	1TF	D8	.	04
OSA	AK	D1	OB2	E	K	OB4	OB3	05	PP	
1SA	DSP	D8	D	E	K	OB4	OB3	05	PP	
OE18	1SA	1E18	1TF	D8	04	OE18	1TF	D8	.	05
OSA	AK	OB2	PP	OE18	1SA	1E18	1TF	D8	.	05
1SA	TO	TX	DSP	D8	D	E	K	OB4	OB3	
05	TP	X1	S	OE18	1SA	1E18	1TF	D8	.	05
134	OSA AK AX OB4 OB2 OE18 1SA 1E18 1TF D8									
.	06	.	.	.	.	.	.	.	.	.
1SA	TO	TX	DSP	D8	D	E	K	OB3	TP	
OE18	1SA	1E18	1TF	D8	06	.	.	.	.	
OSA	DX	DSH	DSP	D	E	K	06	PS	OE18	
1SA	1E18	1TF	D8	06	.	.	.	.	.	
1SA	AK	D8	03	OE18	1SA	1E18	1TF	D8	.	07
OSA	AK	OB5	OB4	04	.	.	.	.	.	
T	I	M	E	.	D	E	L	A	Y	
T	I	M	E	.	D	E	L	A	Y	
T	I	M	E	.	D	E	L	A	Y	

	OE18	1SA	1E18	1TF	D8	.	08	.	.	.	.
	1SA	DX	DSH	D8	D	E		K	OB6	OB2	PS
	T	I	M	E	.	D		E	L	A	Y
	T	I	M	E	.	D		E	L	A	Y
	T	I	M	E	.	D		E	L	A	Y
	OE18	1SA	1E18	1TF	D8	.	08	.	.	.	.
135	OSA	AK	OB3	OB2	X1	OE18	1SA	1E18	1TF	D8	
	.	09	.	.	.	.	.	.	.	.	.
	1SA	DX	DSH	D8	D6	D	E	K	OB4	04	
	PP	OE18	1SA	1E18	1TF	D8		09			
	OSA	AK	OB2	PP	X1	S	OE18	1SA	1E18	1TF	
	D8	.	10	.	.	.	.	.	.	.	.
	1SA	TO	TX	DSP	D8	D	E	K	OB4	OB3	
	05	04	TP	OE18	1SA	1E18	1TF	D8		10	.
	OSA	AK	D6	OB3	OB2	OE18	1SA	1E18	1TF	D8	
	.	11	.	.	.	.	.	.	.	.	.
	1SA	DX	DSH	D8	D	E	K	OB4	04	PP	
	X1	OE18	1SA	1E18	1TF	D8	.	11	.	.	.
136	D8 and test, one side.										
	1SA	DX	DSH	D8	D	E	OB5	OB4	OB2	06	
	PS	OE18	1SA	1E18	OTF	D8	01	*18	K-	.	
	1SA	DX	DSH	D8	D	K	OB5	OB4	OB2	06	
	PS	OE18	1SA	1E18	OTF	D8	01	*18	E-	.	
	1SA	DX	DSH	D8	E	K	OB5	OB4	OB2	06	
	PS	OE18	1SA	1E18	OTF	D8	01	*18	D-	.	
	1SA	AK	DX	DSH	D8	D	E	K	OB5	OB4	
	OB2	06	PS	OE18	1SA	1E18	OTF	D8	.	01	*18
	AK	.	.	.	.	.	.	.	.	.	.
	1SA	DX	DSH	D8	D6	D	E	K	OB5	OB4	
	OB2	06	X1	OE18	1SA	1E18	OTF	D8	.	01	*18
	PS-	.	02	OTR4	OB2	.	.	.	.	.	.
	1SA	DX	DSH	D8	D6	D	E	K	OB5	OB4	
	OB2	X1	PS	OE18	1SA	1E18	OTF	D8	.	01	*18
	06-	.	02	OTR4	OB2	.	.	.	.	.	.

Tape stops	Marker number											
137		1SA	DX	DSH	D8	D6	D	E	K	OB5	OB4	
		OB2	06	03	X1	PS	OE18	1SA	1E18	OTF	D8	
		.	01 *18	03	.	02 OTR4	OB2	.	.	.	.	
		1SA	DX	DSH	D8	D6	D	E	K	OB6	OB5	
		OB4	OB2	06	X1	PS	OE18	1SA	1E18	OTF	D8	
		.	01 *18	OB6	.	02 OTR4	OB2	.	.	.	.	
		1SA	DX	DSH	D8	D6	D	E	K	OB4	OB2	
		06	X1	PS	OE18	1SA	1E18	OTF	D8	.	01 *18	
		OB5-	.	02 OTR4	OB2	.	.	.	.	.	.	
		1SA	AX	DX	DSH	DSP	D8	D6	D1	D	E	
		K	OB5	OB4	OB3	06	X1	PS	OE18	1SA	1E18	
		OTF	D8	.	01 OSAG	.	02 OTR4	KIOS	OB3	.	.	
		1SA	TO	TX	DX	DSH	DSP	D6	D	E	K	
		OB5	OB4	06	05	TP	X1	S	PS	OE18	BSC	
		D8	1E18	OTF	D8	.	02 D8-	.	01 OSAG	OB2-	.	05
		TSH	OB3-	.	.	.	.	.	.	.	.	
138		1SA	DX	DSH	DSP	D8	D	E	K	OB5	OB4	
		06	X1	PS	OE18	1SA	1E18	OTF	D8	.	02 D6-	
		.	01 OSAG	OB2-	.	.	.	.	.	.	.	
		1SA	AK	AX	DX	DSH	D8	D6	D1	03	OE18	
		1SA	1E18	OTF	D8	.	02 OTR4	.	.	.	.	
		1SA	DSP	D8	D6	D	E	K	OB4	OB3	05	
		X1	OE18	1SA	1E18	OTF	D8	.	03 05	.	02 OTR4	
		KIOS	OB3	.	04 PP-	.	07 DSPH	DSP	.	.	.	
		1SA	TO	TX	DSP	D	E	K	OB4	OB3	04	
		PP	TP	OE18	BSC	D8	1E18	OTF	D8	.	04 D8-	
		.	06 OSHB	OB42	OB4	.	07 DSPH	DSP	.	09 OGO	KIOS	
		OB3	.	11 OGO	KIOS	OB3	.	.	.	.	.	
		1SA	TO	TX	DSP	D8	D1	D	E	K	OB4	
		OB3	04	PP	TP	OE18	1SA	1E18	OTF	D8	.	04
		D1	.	06 OSHB	OB42	OB4	.	07 DSPH	DSP	.	09 OGO	
		KIOS	OB3	.	11 OGO	KIOS	OB3	.	.	.	.	
139		1SA	AK	AX	DX	DSH	D8	03	PP	OE18	1SA	
		1E18	OTF	D8	.	04 OSHA	.	.	.	.	.	
		1SA	TO	TX	DSP	D8	D6	D	E	K	OB4	
		OB3	05	TP	X1	OE18	1SA	1E18	OTF	D8	.	05
		S-	.	02 OTR4	KIOS	OB3	.	03 05	.	04 PP-	.	06
		OSHB	OB42	OB4	.	07 DSPH	DSP	.	.	.	.	
		1SA	AK	DX	DSH	D8	OB4	05	03	S	OE18	
		1SA	1E18	OTF	D8	.	05 TSH	.	.	.	.	
		1SA	TO	TX	AX	DSP	D8	D1	D	E	K	
		OB4	OB3	04	PP	TP	S	OE18	1SA	1E18	OTF	
		D8	.	05 OOP	.	04 D1	.	07 DSPH	DSP	.	09 OGO	
		KIOS	OB3	.	11 OGO	KIOS	OB3	.	.	.	.	

	1SA	TO	TX	AX	DSP	D8	D	E	K	OB6	
	OB3	PP	TP	PS	OE18	1SA	1E18	OTF	D8	.	06
	AX	.	04 OSHA	OB4-	.	07 DSPH	DSP	.	08 *18C	OB2-	
	.	08 OB2-	.	.	.	.	.	.	.	.	
140	1SA	TO	TX	AK	DX	DSH	D8	D1	03	TP	
	OE18	1SA	1E18	OTF	D8	.	06 OSHB	.	.	.	
	1SA	DSP	D8	D	E	K	OB6	OB3	PP	PS	
	OE18	1SA	1E18	OTF	D8	.	06 TPO-	.	04 OSHA	OB4-	
	.	07 DSPH	DSP	.	08 *18C	OB2-	.	08 OB2-	.	.	
	1SA	AK	DX	D8	03	OE18	1SA	08 1E18	OTF	D8	
	.	07 DX	.	.	.	.	.	.	.	.	
	1SA	AK	AX	DSH	D8	D1	03	OE18	1SA	1E18	
	OTF	D8	.	07 DSPH	.	.	.	.	.	.	
	1SA	DX	DSH	D8	D	E	OB6	OB2	PS	OE18	
	1SA	1E18	OTF	D8	.	08 *18C	K-	.	.	.	
	1SA	DX	DSH	D8	D	K	OB6	OB2	PS	OE18	
	1SA	1E18	OTF	D8	.	08 *18C	E-	.	.	.	
	1SA	DX	DSH	D8	E	K	OB6	OB2	PS	OE18	
	1SA	1E18	OTF	D8	.	08 *18C	D-	.	.	.	
141	1SA	AK	DX	DSH	D8	D	E	K	OB6	OB2	
	PS	OE18	1SA	1E18	OTF	D8	.	08 *18C	AK	.	
	1SA	TO	TX	DX	DSH	DSP	D8	D	E	K	08
	OB6	OB3	OB2	TP	OE18	1SA	1E18	OTF	D8	OB2	
	*18C	PS-	.	06 OSHB	OSH	OB2	.	06 OSHB	OB42	OB2	
	1SA	TO	TX	DX	DSH	DSP	D8	D	E	K	
	OB6	OB3	OB2	04	TP	PS	OE18	1SA	1E18	OTF	
	D8	.	08 *18C	04	.	06 OSHB	OSH	OB2	.	06 OSHB	
	OB42	OB2	.	.	.	.	.	.	.	.	
	1SA	TO	TX	DX	DSH	DSP	D8	D	E	K	
	OB3	OB2	TP	PS	OE18	1SA	1E18	OTF	D8	.	08
	*18C	OB6-	.	06 OSHB	OSH	OB2	.	06 OSHB	OB42	OB2	
	1SA	TO	TX	DX	DSH	DSP	D8	D	E	K	
	OB6	OB5	OB3	OB2	TP	PS	OE18	1SA	1E18	OTF	
	D8	.	08 *18C	OB5	.	06 OSHB	OSH	OB2	.	06 OSHB	
	OB42	OB2	.	.	.	.	.	.	.	.	





145	OSA	AK	D8	OB2	04	PP	X1	S	OE18	OSA
	D8		05							
	1SA	TO	TX	DSP	D	E	K	OB4	OB3	05
	TP	OE18	OSA	1E18	OTF	D8		05		
	OSA	AK	D8	OB2	PP	S	OE18	OSA	1E18	OTF
	D8		06							
	1SA	TO	TX	DSP	D	E	K	OB4	OB3	05
	04	TP	X1	OE18	OSA	1E18	OTF	D8		06
	OSA	AK	D8	OB4	OB2	OE18	OSA	1E18	OTF	D8
		07								
	1SA	TO	TX	AX	DSP	D	E	K	OB3	TP
	OE18	OSA	1E18	OTF	D8		07			
	OSA	DSH	DSP	D8	D6	D	E	K	X1	OE18
	OSA	OE18	OTF	D8		08				
	1SA	AK	DX	OE18	OSA	1E18	OTF	D8		08
146	OSA	AK	DX	D8	OB3	OB2	OE18	OSA	1E18	OTF
	D8		09							
	1SA	DSH	06	D	E	K	OB4	04	PP	X1
	OE18	OSA	1E18	OTF	D8		09			
147	D8 and test, zero side.									
	1SA	AK	DSH	D1	S	OE18	OSA	1E18	1TF	D8
		01	0CL							
	1SA	TO	TX	DSH	DSP	D8	D6	D	E	K
	OB4	05	TP	X1	OE18	BSC	D8	1E18	1TF	D8
		02	D8	05	TSH	OB3-	06	TSH	OB3-	
	1SA	DSH	DSP	D	E	K	OB4	X1	OE18	OSA
	1E18	1TF	D8	02	06-					
	1SA	AK	DSH	D6	D1	S	OE18	OSA	1E18	1TF
	D8		02	OTR4						
	1SA	DX	DSP	D	E	K	OB4	OB3	05	S
	OE18	OSA	1E18	1TF	D8		03	05		04
	DSPH	DSP								
	1SA	TO	TX	AX	DX	DSP	D8	D6	D	E
	K	OB4	OB3	04	PP	TP	X1	OE18	BSC	D8
	1E18	1TF	D8	04	D8	07	OSHB	OB42	OB4	
	DSPH	DSP		09	0G0	KIOS	OB3			08



OB3-	DSH	DSP	D	E	K	09	OB4	04	PP	X1
1SA	OSA	1E18	1TF	D8	.	.	D6-	.	04	OSHA
OE18	.	.	.	.	.	.	.	.	.	OSH
OB3-	.	.	.	.	.	.	.	.	.	.

151 D7 or test, one side. Logic for one side D7 is on boards 223, 239, 240, 402, 403. Logic for mechanical reader 011 and/or shorting cable 012.

OSA	AK	OB6	OB3	04	OE18	1SA	1E18	1TF	D7
1SA	DSH	D8	D7	D	E	K	OB5	OB4	OB2
06	03	PS	OE18	1SA	1E18	1TF	D7	.	01
OSA	AK	D8	OB4	OB2	OE18	1SA	1E18	1TF	D7
1SA	TO	TX	DSP	D7	D	E	K	OB3	TP
OE18	1SA	1E18	1TF	.	02	.	.	.	.
OSA	AK	D6	OB3	OB2	04	PP	OE18	1SA	1E18
1TF	D7	.	03	.	.	.	.	.	.
1SA	DSH	D8	D7	D	E	K	OB4	X1	OE18
1SA	1E18	1TF	D7	.	03	.	.	.	.
OSA	AK	OB2	OE18	1SA	1E18	1TF	D7	.	04
1SA	DSP	D7	D1	D	E	K	OB4	OB3	04
X1	OE18	1SA	1E18	1TF	D7	.	04	.	.
OSA	AK	D1	OB2	X1	OE18	1SA	1E18	1TF	D7
1SA	DSP	D7	D	E	K	OB4	OB3	04	OE18
1SA	1E18	1TF	D7	.	05	.	.	.	.

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OSA	DSH	DSP	D8	D	E	K	06	06	03	PS
OE18	1SA	1E18	1TF	D7	OE18	1SA	1E18	1TF	D7	D7
1SA	AK	D7	D6	PP	.	.	.	.	.	.
OSA	AK	OB5	OB4	04	.	.	.	.	.	.
OE18	1SA	1E18	1TF	D7	06	1SA	1E18	1TF	D7	D7
1SA	AK	D7	D6	PP	OE18	1SA	1E18	1TF	D7	D7
OSA	AK	OB5	OB4	.	.	.	.	.	.	.
T	I	M	E	.	D	E	L	A	Y	Y
T	I	M	E	.	D	E	L	A	Y	Y
T	I	M	E	.	D	E	L	A	Y	Y
OE18	1SA	1E18	1TF	D7	.	07	.	.	.	.
1SA	DSH	D8	D7	D	E	K	OB6	OB2	PS	Y
T	I	M	E	.	D	E	L	A	Y	Y
T	I	M	E	.	D	E	L	A	Y	Y
T	I	M	E	.	D	E	L	A	Y	Y
OE18	1SA	1E18	1TF	D7	.	07	.	.	.	.

Tape stops	Marker number	D7 and test, one side.									
	153	1SA	DSH	D8	D7	D	E	OB5	OB4	OB2	06
		03	PS	OE18	1SA	1E18	OTF	D7	.	01	*17
		1SA	DSH	D8	D7	D	K	OB5	OB4	OB2	06
		03	PS	OE18	1SA	1E18	OTF	D7	.	01	*17
		1SA	DSH	D8	D7	E	K	OB5	OB4	OB2	06
		03	PS	OE18	1SA	1E18	OTF	D7	.	01	*17
		1SA	AK	DSH	D8	D7	D	E	K	OB5	OB4
		OB2	06	03	PS	OE18	1SA	1E18	OTF	D7	.
		*17	AK	.	.	.	.	.	.	.	.
		1SA	DSH	D8	D7	D	E	K	OB5	OB4	OB2
		06	03	X1	OE18	1SA	1E18	OTF	D7	.	01
		PS-	.	03	OTR4	OB2	.	.	.	.	.
		1SA	DSH	D8	D7	D	E	K	OB5	OB4	OB2
		03	X1	PS	OE18	1SA	1E18	OTF	D7	.	01
		06-	.	03	OTR4	OB2	.	.	.	.	.
	154	1SA	DSH	D8	D7	D	E	K	OB5	OB4	OB2
		06	X1	PS	OE18	1SA	1E18	OTF	D7	.	01
		03-	.	03	OTR4	OB2	.	.	.	.	.
		1SA	DSH	D8	D7	D	E	K	OB6	OB5	OB4
		OB2	06	03	X1	PS	OE18	1SA	1E18	OTF	D7
		.	01	*17	OB6	.	03	OTR4	OB2	.	.
		1SA	DSH	D8	D7	D	E	K	OB4	OB2	06
		03	X1	PS	OE18	1SA	1E18	OTF	D7	.	01
		OB5-	.	03	OTR4	OB2	.	.	.	.	.
		1SA	DSH	DSP	D8	D7	D6	D	E	K	OB5
		OB4	OB3	OB2	06	04	03	PP	PS	OE18	1SA
		1E18	OTF	D7	.	01	OSAG	.	05	OSHA	OSH
		1SA	TO	TX	DSP	D8	D7	D1	D	E	K
		OB3	04	TP	OE18	1SA	1E18	OTF	D7	.	02
		.	04	OSHA	OB4-	.	05	OSHA	OB4-	.	.
	155	1SA	TO	TX	AK	DSH	D7	D6	PP	TP	OE18
		1SA	1E18	OTF	D7	.	02	OSHB	.	06	DSPH
		1SA	DSP	D7	D1	D	.	K	OB3	OB4-	OE18
		1SA	1E18	OTF	D7	.	02	TPO-	.	04	OSHA
		OSHA	OB4-	.	06	DSPH	DSP	.	.	.	.
		1SA	DSH	D8	D	E	K	OB5	OB4	06	03
		X1	PS	OE18	BSC	D7	1E18	OTF	D7	.	03
		.	01	OSAG	OB2-	.	.	.	.	.	.
		1SA	DSH	D8	D7	D6	D	E	K	OB5	OB4
		06	03	X1	PS	OE18	1SA	1E18	OTF	D7	.
		D6	.	01	OSAG	OB2-	.	.	.	.	03
		1SA	AK	DSH	D8	D7	PP	OE18	1SA	1E18	OTF

	D7		03	OTR4								
	1SA	TO		TX	DSP	D7	D	E	K	OB4		OB3
	04	TP		X1	OE18	1SA	1E18	OTF	D7		04	D1-
	.	02	OSHB	OB42	OB4	.	05	X1	.	06	DSPH	.
156	1SA	AK		DSH	D8	D7	D1	04	OE18	1SA		1E18
	OTF	D7		.	04	OSHA						
	1SA	TO		TS	DSP	D7	D1	D	E	K		OB4
	OB3	TP		X1	OE18	1SA	1E18	OTF	D7	.	04	04A-
	.	02	OSHB	OB42	OB4	.	03	OTR4	KIO3	OB3	.	06
	DSP											
	1SA	AK		DSH	D8	D7	04	OE18	1SA	1E18		OTF
	D7			05	OSHA							
	1SA	TO		TX	DSP	D7	D	E	K	OB4		OB3
	TP	OE18		1SA	1E18	OTF	D7	.	05	04A-	.	02
	OB42	OB4		.	06	DSPH						OSHB
	1SA	AK		D8	D7	D6	PP	OE18	1SA	1E18		OTF
	D7			06	D8							
	1SA	AK		DSH	D7	D6	PP	OE18	1SA	1E18		OTF
	D7	.		06	DSPH	.						
157	1SA	DSH		D8	D7	D	E	OB6	OB2	PS		OE18
	1SA	1E18		OTF	D7	.	07	*17C	K1	.		
	1SA	DSH		D8	D7	D	K	OB6	OB2	PS		OE18
	1SA	1E18		OTF	D7	.	07	*17C	E-	.		
	1SA	DSH		D8	D7	E	K	OB6	OB2	PS		OE18
	1SA	1E18		OTF	D7	.	07	*17C	D-	.		
	1SA	AK		DSH	D8	D7	D	E	K	OB6		OB2
	PS	OE18		1SA	1E18	OTF	D7	.	07	*17C	AK	.
	1SA	DSH		D8	D7	D	E	K	OB6	OB2		OE18
	1SA	1E18		OTF	D7	.	07	*17C	PS-	.		
	1SA	DSH		D8	D7	D	E	K	OB6	OB2		04
	PS	OE18		1SA	1E18	OTF	D7	.	07	*17C	04	.
	1SA	DSH		D8	D7	D	E	K	OB2	PS		OE18
	1SA	1E18		OTF	D7	.	07	*17C	OB6-	.		.
158	1SA	DSH		D8	D7	D	E	K	OB6	OB5		OB2
	PS	OE18		1SA	1E18	OTF	D7	.	07	*17C	OB5	.
	1SA	DSH		D8	D7	D	E	K	OB6	OB4		OB2
	X1	PS		OE18	1SA	1E18	OTF	D7	.	07	*17C	OB4
	.	03	OTR4	OB2	.							
	1SA	DSH		D8	D7	D	E	K	OB6	X1		PS
	OE18	1SA		1E18	OTF	D7	.	07	*17C	OB2-	.	03
	KIOS	OB4-		.								OTR4
	1SA	DSH		D8	D7	D	E	K	OB6	X1		PS
	OE18	1SA		1E18	OTF	D7	.	07	OB2-	.	03	KIOS
	OB4-	.		.								.

Tape stops	Marker number	Logic for zero side D7 is on boards 238, 239, 240.									
	159	D7 or test, zero side.									
		OSA AK D8	D7	OB4	04	OE18	OSA	1E18	OTF		
		D7	01	.	.	.	.	.	.	.	.
		1SA DSH	D	E	K	OB3	OB2	OE18	OSA	1E18	
		OTF D7	01	OB4	OB2	OE18	OSA	1E18	OTF	D7	
		OSA AK	D7	.	.	.	.	.	.	.	.
		02	.	.	.	.	.	.	.	.	.
		1SA TO TX	DSP	D8	D	E	K	OB3	TP		
		OE18 OSA	1E18	OTF	D7	02	.	.	.	.	.
		OSA AK	D8	D7	D6	OB3	OB2	04	PP	OE18	
		OSA 1E18	OTF	D7	.	03	.	.	.	.	.
		1SA DSH	D	E	K	OB4	X1	OE18	OSA	1E18	
		OTF D7	03	.	.	.	.	.	.	.	.
		OSA AK	D7	D1	OB2	OE18	OSA	1E18	OTF	D7	
		04	.	.	.	.	.	.	.	.	.
		1SA DSP	D	E	K	OB4	OB3	04	X1	OE18	
		OSA 1E18	OTF	D7	.	04	.	.	.	.	.
		.	.	.	.	.	.	.	.	.	.
	160	OSA DSH DSP	D7	D	E	K	X1	OE18	OSA		
		1E18 OTF	D7	05	PP	OE18	OSA	1E18	OTF	D7	
		1SA AK	D8	D6	.	.	.	.	.	.	.
		05	.	.	.	.	.	.	.	.	.
	161	D7 and test, zero side.									
		1SA AK DSH	D6	D1	PP	OE18	OSA	1E18	1TF		
		D7	01	OCL	.	.	.	.	.	.	.
		1SA TO TX	DSP	D	E	K	OB3	TP	OE18		
		OSA 1E18	1TF	D7	02	D8-	01	OCL	OB2-	.	.
		1SA TO TX	AK	DSH	D8	D6	02	D1	PP	TP	
		OE18 OSA	1E18	1TF	D7	.	02	OSHB	05	DSPH	DSH
		1SA DSP	D8	D	E	K	OB3	OE18	OSA	1E18	
		1TF D7	02	TPO-	01	OCL	OB2-	.	05	DSPH	DSP
		1SA DSH	D7	D	E	K	OB4	X1	OE18	BSC	
		D7 1E18	1TF	D7	.	03	D7	.	.	.	.
		1SA DSH	06	D	E	K	OB4	X1	OE18	OSA	
		1E18 1TF	D7	03	D6	.	.	.	.	.	.
		1SA AK	DSH	D1	PP	OE18	OSA	1E18	1TF	D7	
		03	OTR4	.	.	.	.	.	.	.	.
	162	1SA TO TX	DSP	D8	D1	D	E	K	OB4		
		OB3 04	TP	X1	OE18	OSA	1E18	1TF	D7	04	
		D1	02	OSHB	OB42	OB4	05	DSPH	DSP	.	.
		1SA AK	DSH	04	X1	OE18	OSA	1E18	1TF	D7	
		04	OSHA	.	.	.	.	.	.	.	.
		1SA TO TX	DSP	D8	D	E	K	OB4	OB3		

TP	X1	OE18	OSA	1E18	1TF	D7	.	04	04A-	.	02
OSHB	OB42	OB4	.	03	OTR4	KIOS	OB3	.	05	DSPH	DSP
1SA	TO	TX	DSP		D8	D	E	K		OB4	OB3
04	TP	OE18	OSA		1E18	1TF	D7	.	04	X1-	.
OSHB	OB42	OB4	.	05	DSPH	DSP					02
1SA	AK	D6	PP		OE18	OSA	1E18	1TF		D7	.
D8-	.	.	.		.	.	.	.		.	05
1SA	AK	DSH	D8		D6	D1	PP	OE18	OSA	1E18	.
1TF	D7	.	05	DSPH	.	.	.	.	.	.	.

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D6 or test, one side. Logic for one side D6 is on boards 224, 234, 235, 233, 402. Logic for mechanical reader 011 and/or shorting cable 012.

OSA	AK	OB3	04	OE18	1SA	1E18	1TF	D6	.	01
1SA	DSH	D7	D6	D	E	K	OB5	OB4	OB2	.
PS	OE18	1SA	1E18	1TF	D6	.	01	.	.	.
OSA	AK	D1	OB2	05	PP	OE18	1SA	1E18	1TF	.
D6	.	02	.	.	.	.	.	.	.	.
1SA	TO	TX	DSP	D6	D	E	K	OB4	OB3	.
TP	OE18	1SA	1E18	1TF	D6	.	02	.	.	.
OSA	AK	D1	OB2	OE18	1SA	1E18	1TF	D6	.	03
1SA	TO	TX	DSP	D6	D	E	K	OB4	OB3	.
05	PP	TP	OE18	1SA	1E18	1TF	D6	.	03	.
OSA	AK	AX	OB4	OB2	OE18	1SA	1E18	1TF	D6	.
.	04	.	.	.	.	.	.	.	.	.
1SA	TO	TX	CL6	DSP	D6	D	E	K	OB3	.
TP	OE18	1SA	1E18	1TF	D6	.	04	.	.	.
OSA	AK	OB2	04	PP	OE18	1SA	1E18	1TF	D6	.
.	05	.	.	.	.	.	.	.	.	.
1SA	TO	TX	DSP	D8	D6	D	E	K	OB4	.
OB3	05	TP	OE18	1SA	1E18	1TF	D6	.	05	.

Tape stops

Marker number

164	OSA	AK	CL6	D7	OB4	OB2	OE18	1SA	1E18	1TF	
	D6	.	06	.	.	.	.	.	.	.	
	1SA	TO	TX	DSP	D6	D	E	K	OB3	TP	
	OE18	1SA	1E18	1TF	D6	.	06	.	.	.	
	OSA	AK	OB2	PP	OE18	1SA	1E18	1TF	D6	.	07
	1SA	TO	TX	DSP	D6	D	E	K	OB4	OB3	
	05	04	TP	S	OE18	1SA	1E18	1TF	D6	.	07
	OSA	DSH	DSP	D7	D	E	K	OB6	PS	OE18	
	1SA	1E18	1TF	D6	.	08	.	.	.	.	
	1SA	AK	D6	OE18	1SA	1E18	1TF	D6	.	08	
	OSA	AK	OB5	04	OB4	.	.	.	.	.	
	T	I	M	E	.	D	E	L	A	Y	
	T	I	M	E	.	D	E	L	A	Y	
	T	I	M	E	.	D	E	L	A	Y	
	OE18	1SA	1E18	1TF	D6	.	09	.	.	.	
	1SA	DSH	D7	D6	D	E	K	OB6	OB2	PS	
	T	I	M	E	.	D	E	L	A	Y	
	T	I	M	E	.	D	E	L	A	Y	
	T	I	M	E	.	D	E	L	A	Y	
	OE18	1SA	1E18	1TF	D6	.	09	.	.	.	
165	D6 and test, one side.										
	1SA	DSH	D7	D6	D	E	OB5	OB4	OB2	PS	
	OE18	1SA	1E18	OTF	D6	.	01	*16	K-	.	
	1SA	DSH	D7	D6	D	K	OB5	OB4	OB2	PS	
	OE18	1SA	1E18	OTF	D6	.	01	*16	E-	.	
	1SA	DSH	D7	D6	E	K	OB5	OB4	OB2	PS	
	OE18	1SA	1E18	OTF	D6	.	01	*16	D-	.	
	1SA	AK	DSH	D7	D6	D	E	K	OB5	OB4	OB4
	OB2	PS	OE18	1SA	1E18	OTF	D6	.	01	*16	AK
	1SA	DSH	D7	D6	D	E	K	OB5	OB4	OB2	
	OE18	1SA	1E18	OTF	D6	.	01	*16	PS-	.	
	1SA	DSH	D7	D6	D	E	K	OB5	OB4	OB2	
	04	PS	OE18	1SA	1E18	OTF	D6	.	01	*16	04
	1SA	DSH	D7	D6	D	E	K	OB6	OB5	OB2	
	PS	OE18	1SA	1E18	OTF	D6	.	01	*16	OB4-	09
	*16C	OB5	.	.	.	.	.	.	.	.	
166	1SA	TO	TX	DSH	DSP	D7	D6	D	E	K	
	OB5	OB4	OB3	OB2	PP	TP	PS	OE18	1SA	1E18	
	OTF	D6	.	01	*16	OB3	.	.	.	.	
	1SA	TO	TX	DSH	DSP	D7	D6	D	E	K	
	OB5	OB4	PP	TP	PS	OE18	1SA	1E18	OTF	D6	
	.	01	*16	OB2-	.	.	.	.	.	.	
	1SA	DSH	D7	D6	D	E	K	OB6	OB4	OB2	
	PS	OE18	1SA	1E18	OTF	D6	.	01	OSAG	*16C	





Tape stops

Marker number

169	1SA	AK	DSH	D7	D6	OB4	05	04	S	OE18	
	1SA	1E18	OTF	D6	D6	07 TSH					
	1SA	AK	D7	D6	OE18	1SA	1E18	OTF	D6	.	08
	D7	.	.	.	.	.	.	.	.	.	.
	1SA	AK	AX	DSH	D6	D1	OE18	1SA	1E18	OTF	
	D6	.	08 DSPH	.	.	.	.	.	.	.	.
	1SA	DSH	D7	D6	D	E	OB6	OB2	PS	OE18	
	1SA	1E18	OTF	D6	.	09 *16C	K-		.	.	.
	1SA	DSH	D7	D6	D	K	OB6	OB2	PS	OE18	
	1SA	1E18	OTF	D6	.	09 *16C	E-		.	.	.
	1SA	DSH	D7	D6	E	K	OB6	OB2	PS	OE18	
	1SA	1E18	OTF	D6	.	09 *16C	D-		.	.	.
	1SA	AK	DSH	D7	D6	D	E	K	OB6	OB2	
	PS	OE18	1SA	1E18	OTF	D6	.	09 *16C	AK	.	.
170	1SA	TO	TX	CL6	DSH	DSP	D7	D6	D	E	
	K	OB6	OB3	OB2	TP	OE18	1SA	1E18	OTF	D6	
	.	09 *16C	PS-	.	.	.	.	.	.	.	.
	1SA	TO	TX	CL6	DSH	DSP	D7	D6	D	E	
	K	OB6	OB3	OB2	04	TP	PS	OE18	1SA	1E18	
	OTF	D6	.	09 *16C	04	.	.	.	.	.	.
	1SA	TO	TX	CL6	DSH	DSP	D7	D6	D	E	
	K	OB3	OB2	TP	PS	OE18	1SA	1E18	OTF	D6	
	.	09 *16C	OB6-	.	.	.	.	.	.	.	.
171	D6 or test, zero side. Logic for zero side D6 is on boards 233, 234, 235.										
	OSA	AK	D7	D6	OB4	04	OE18	OSA	1E18	OTF	
	D6	.	01	.	.	.	.	.	.	.	.
	1SA	DSH	D	E	K	OB3	OB2	OE18	OSA	1E18	
	OTF	D6	.	01	.	.	.	.	.	.	.
	OSA	AK	D6	OB2	05	PP	OE18	OSA	1E18	OTF	
	D6	.	02	.	.	.	.	.	.	.	.
	1SA	TO	TX	DSP	D1	D	E	K	OB4	OB3	
	TP	OE18	OSA	1E18	OTF	D6	.	02	.	.	.
	OSA	AK	D6	OB2	OE18	OSA	1E18	OTF	D6	.	03
	1SA	TO	TX	DSP	D1	D	E	K	OB4	OB3	
	05	PP	TP	OE18	OSA	1E18	OTF	D6	.	03	.
	OSA	AK	D6	OB4	OB2	OE18	OSA	1E18	OTF	D6	
	.	04	.	.	.	.	.	.	.	.	.
	1SA	TO	TX	AX	CL6	DSP	D	E	K	OB3	
	TP	OE18	OSA	1E18	OTF	D6	.	04	.	.	.
	OSA	AK	D8	D6	OB2	04	PP	OE18	OSA	1E18	
	OTF	D6	.	05	.	.	.	.	.	.	.

172	1SA	TO		TX	DSP	D	E	K	OB4	OB3	05
	TP	OE18		OSA	1E18	OTF	D6		05		
	OSA	AK		CL6	D6	OB4	OB2	OE18	OSA	1E18	OTF
	D6		06								
	1SA	TO		TX	DSP	D7	D	E	K	OB3	TP
	OE18	OSA		1E18	OTF	D6					
	OSA	AK		D6	OB2	PP	S	06	OE18	OSA	1E18
	D6		07								
	1SA	TO		TX	DSP	D	E	K	OB4	OB3	05
	04	TP		OE18	OSA	1E18	OTF	D6		07	
	OSA	DSH		DSP	D6	D	E	K	OB3	OE18	OSA
	1E18	OTF			D6						
	1SA	AK		D7	OE18	OSA	1E18	OTF	D6		08
173	D6 and test, zero side.										
	1SA	AK		DSH	D8	S	OE18	OSA	1E18	1TF	D6
		01		OCL							
	1SA	TO		TX	AX	CL6	DSP	D7	D	E	K
	OB4	OB3		PP	TP	OE18	OSA	1E18	1TF	D6	
	D1-		03	D1-		04	OB4	08	DSPH	DSP	
	1SA	TO		TX	CL6		DSP	D1	D	E	K
	PP	TP		OE18	OSA	1E18	1TF	D6		02	OB4-
	OCL	OB2-			OB4-		AX-				
	1SA	TO		TX	AX	CL6	DSP	D8	D7	D1	D
	E	K		OB4	OB3	05	TP	S	04	OE18	OSA
	1TF	D6			05		PP-		04	OB4	
		08		DSPH	DSP						05
	1SA	TO		TX	AX	DSP	D1	D	E	K	OB3
	PP	TP		OE18	OSA	1E18	1TF	D6		04	CL6-
	OCL	OB2-			OB4-		OB4-		06	D7-	
174	1SA	TO		TX	CL6	DSP	D	E	K	OB3	PP
	TP	OE18		OSA	1E18	1TF	D6		05	OOP	OCL
	OB2-		04	AX-							
	1SA	TO		TX	AX	CL6	DSP	D7	D1	D	E
	K	OB4		OB3	05	04	TP	S	03	OE18	OSA
	1TF	D6			04A		05		03	PP-	
		07			08	DSPH	DSP				04
	1SA	TO		TX	DSP	D8	D7	D	E	K	OB4
	OB3	PP		TP	S	OE18	OSA	1E18	1TF	D6	
	OB4		02	D1-		03	D1-	08	DSPH	DSP	
	1SA	TO		TX	CL6		DSP	D7	D1	D	E
	OB3	PP		TP	OE18		OSA	1E18	1TF	D6	
		01		OCL		02	OB4-		03	OB4-	
	DSPH	DSP								04	AX-

Tape stops

Marker number

175	1SA	TO		TX		DSP	D	E	K	OB4	OB3	04	
	PP	TP		OE18		OSA	1E18	1TF	D6	.	07	OOP	02
	D1-	.	03	D1-		.	.	.	.	.	.	.	
	1SA	TO		TX		AX	CL6	DSP	D8	D7	D1	D	
	E	K		OB4		OB3	05	TP	OE18	OSA	1E18	1TF	
	D6	.	07	04A-		.	05	.	03	PP-	04	OB4	05
	D8	.	08	DSPH		DSP	.	.	.	.	.	.	
	1SA	AK		DSH		OB4	05	04	OE18	OSA	1E18	1TF	
	D6	.	07	TSH		.	.	.	.	.	.	.	
	1SA	AK		OE18		OSA	1E18	1TF	D6	.	08	D7-	
	1SA	AK		DSH		D8	D7	S	OE18	OSA	1E18	1TF	
	D6	.	08	DSPH		.	.	.	.	.	.	.	
176	D5 or test, one side. Logic for one side D5 is on boards 209, 223, 224, 226, 401. Logic for mechanical reader 011 and/or shorting cable 012.												
	OSA	AK		OB3		04	OE18	1SA	1E18	1TF	D5	.	01
	1SA	DSH		D6		D5	D	E	K	OB5	OB4	OB2	
	PS	OE18		1SA		1E18	1TF	D5	.	01	.	.	
	OSA	AK		D6		OB2	OE18	1SA	1E18	1TF	D5	.	02
	1SA	TO		TX		DSP	D5	D	E	K	OB3	TP	
	OE18	1SA		1E18		1TF	D5	.	02	.	.	.	
	OSA	DSH		DSP		D6	D	E	K	OB6	PS	OE18	
	1SA	1E18		1TF		D5	.	03	.	.	.	.	
	1SA	AK		D5		04	OE18	1SA	1E18	1TF	D5	.	03
	OSA	AK		OB5		OB4	04	.	.	.	.	.	
	T	I		M		E	.	D	E	L	A	Y	
	T	I		M		E	.	D	E	L	A	Y	
	T	I		M		E	.	D	E	L	A	Y	
	OE18	1SA		1E18		1TF	D5	.	04	.	.	.	
	1SA	DSH		D6		D5	D	E	K	OB6	OB2	PS	
	T	I		M		E	.	D	E	L	A	Y	
	T	I		M		E	.	D	E	L	A	Y	
	T	I		M		E	.	D	E	L	A	Y	
	OE18	1SA		1E18		1TF	D5	.	04	.	.	.	
177	D5 and test, one side.												
	1SA	DSH		D6		D5	D	E	OB5	OB4	OB2	PS	
	OE18	1SA		1E18		OTF	D5	.	01	*15	K-	.	
	1SA	DSH		D6		D5	D	K	OB5	OB4	OB2	PS	
	OE18	1SA		1E18		OTF	D5	.	01	*15	E-	.	
	1SA	DSH		D6		D5	E	K	OB5	OB4	OB2	PS	
	OE18	1SA		1E18		OTF	D5	.	01	*15	D-	.	
	1SA	AK		DSH		D6	D5	D	E	K	OB5	OB4	
	OB2	PS		OE18		1SA	1E18	OTF	D5	.	01	*15	AK
	1SA	DSH		D6		D5	D	E	K	OB5	OB4	OB2	
	OE18	1SA		1E18		OTF	D5	.	01	*15	PS-	.	

	1SA	DSH	D6	D5	D	E	K	OB5	OB4	OB2	
	04	PS	OE18	1SA	1E18	OTF	D5	.	*15	04	
	1SA	DSH	D6	D5	D	E	K	OB6	OB4	OB2	
	PS	OE18	1SA	1E18	OTF	D5	.	*15	OB5-	.	04
	*15C	OB4	.	.	.	.	.	.	.	.	
178	1SA	DSH	D6	D5	D	E	K	OB6	OB5	OB3	
	OB2	PS	OE18	1SA	1E18	OTF	D5	.	01 OSA	.	04
	*15C	OB5	.	.	.	.	.	.	.	.	
	1SA	TO	TX	DSP	D6	D5	D	E	K	OB6	
	OB3	TP	PS	OE18	1SA	1E18	OTF	D5	.	02 D6	
	.	04 *15C	OB2-	.	04 OB2-	.	.	.	.	.	
	1SA	AK	DSH	D5	04	OE18	1SA	1E18	OTF	D5	
	.	02 TSH	.	03 DSPH	DSH	OE18	1SA	1E18	OTF	D5	
	1SA	AK	D6	D5	04	OE18	1SA	1E18	OTF	D5	
	.	03 D6	.	.	.	.	.	.	.	.	
	1SA	AK	DSH	D5	04	OE18	1SA	1E18	OTF	D5	
	.	03 DSPH	.	.	.	.	.	.	.	.	
	1SA	DSH	D6	D5	D	E	OB6	OB2	PS	OE18	
	1SA	1E18	OTF	D5	.	04 *15C	K-	.	.	.	
	1SA	DSH	D6	D5	D	K	OB6	OB2	PS	OE18	
	1SA	1E18	OTF	D5	.	04 *15C	E-	.	.	.	
179	1SA	DSH	D6	D5	E	K	OB6	OB2	PS	OE18	
	1SA	1E18	OTF	D5	.	04 *15C	D-	.	.	.	
	1SA	AK	DSH	D6	D5	D	E	K	OB6	OB2	
	PS	OE18	1SA	1E18	OTD	D5	.	04 *15C	AK	.	
	1SA	DSH	D6	D5	D	E	K	OB6	OB2	OE18	
	1SA	1E18	OTF	D5	.	04 *15C	PS-	.	.	.	
	1SA	DSH	D6	D5	D	E	K	OB6	OB2	04	
	PS	OE18	1SA	1E18	OTF	D5	.	04 *15C	C4	.	
	1SA	DSH	D6	D5	D	E	K	OB2	PS	OE18	
	1SA	1E18	OTF	D5	.	04 *15C	OB6-	.	.	.	
180	D5 or test,	zero side.	Logic	for zero	side	D5 is	on boards	223, 224.			
	OSA	AK	D6	D5	OB4	04	OE18	OSA	1E18	OTF	
	D5	.	01	.	.	.	.	.	.	.	
	1SA	DSH	D	E	K	OB3	OB2	OE18	OSA	1E18	
	OTF	D5	.	01	.	.	.	.	.	.	
	OSA	AK	D5	OB2	OE18	OSA	1E18	OTF	D5	.	02
	1SA	TO	TX	DSP	D6	D	E	K	OB3	TP	
	OE18	OSA	1E18	OTF	D5	.	02	.	.	.	
	OSA	DSH	DSP	D5	D	E	K	OB3	OE18	OSA	
	OTF	D5	.	03	.	.	.	.	.	.	
	1SA	AK	D6	OB4	04	OE18	OSA	1E18	OTF	D5	
	.	03	.	.	.	.	.	.	.	.	

Tape stops

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181	D5 and test, zero side.									
	1SA	AK	DSH	OB4	04	OE18	OSA	1E18	1TF	D5
	.	01	OCL	.	.	.	.	.	.	.
	1SA	TO	TX	DSP	D	E	K	OB3	TP	OE18
	OSA	1E18	1TF	D5	02	D6-	01	OCL	OB2-	.
	1SA	AK	DSH	D6	OB4	04	OE18	OSA	1E18	1TF
	D5	.	02	TSH	03	DSPH	DSH	.	.	.
	1SA	AK	OB4	04	OE18	OSA	1E18	1TF	D5	03
	D6-	.	.	.	.	.	.	.	.	.
	1SA	AK	DSH	D6	OB4	04	OE18	OSA	1E18	1TF
	D5	.	03	DSPH	.	.	.	.	.	.
182	D4 or test, one side. Logic for one side D4 is on boards 218, 223, 224, 317, 401, 405. Logic for mechanical reader 011 and/or shorting cable 012.									
	OSA	AK	D2	OB3	04	E2	OE18	1SA	1E18	1TF
	D4	.	01	.	.	.	.	.	.	.
	1SA	DSPH	D5	D4	D	E	K	OB5	OB4	OB2
	OE18	1SA	1E18	1TF	D4	.	01	.	.	.
	OSA	AK	D5	OB2	OE18	1SA	1E18	1TF	D4	02
	1SA	TO	TX	DSP	D4	D	E	K	OB4	OB3
	02	TP	OE18	1SA	1E18	1TF	D4	.	02	.
	OSA	AK	D5	OB4	OB2	02	OE18	1SA	1E18	1TF
	D4	.	03	.	.	.	.	.	.	.
	1SA	TO	TX	DSP	D4	D	E	K	OB3	TP
	OE18	1SA	1E18	1TF	D4	.	03	.	.	.
	OSA	AK	AX	OB4	OB2	03	OE18	1SA	1E18	1TF
	D4	.	04	.	.	.	.	.	.	.
	1SA	TO	TX	DSP	D4	D	E	K	OB3	02
	TP	OE18	1SA	1E18	1TF	D4	.	04	.	.
	OSA	AK	CL6	OB3	OB2	OE18	1SA	1E18	1TF	D4
	.	05	.	.	.	.	.	.	.	.
183	1SA	CP2	DSH	D5	D4	D	E	K	OB4	04
	03	02	PP	OE18	1SA	1E18	1TF	D4	.	05
	OSA	CP2	DSH	DSP	D5	D	E	K	OB6	PP
	PS	OE18	1SA	1E18	1TF	D4	.	06	.	.
	1SA	AK	CL6	D4	D2	E2	OE18	1SA	1E18	1TF
	D4	.	06	.	.	.	.	.	.	.
	OSA	AK	OB5	OB4	04	.	.	.	.	.
	T	I	M	E	.	D	E	L	A	Y
	T	I	M	E	.	D	E	L	A	Y
	T	I	M	E	.	D	E	L	A	Y
	OE18	1SA	1E18	1TF	D4	.	07	.	.	.
	1SA	DSH	D5	D4	D	E	K	OB6	OB2	PS
	T	I	M	E	.	D	E	L	A	Y

	T	I	M	E	.	D	E	L	A	Y
	T	I	M	E	.	D	E	L	A	Y
	OE18	1SA	1E18	1TF	D4	.	07	.	.	.
184	D4 and test, one side.									
	1SA	DSH	D5	D4	D2	D	E	K	OB5	OB4
	OB2	OE18	1SA	1E18	OTF	D4	.	01	*14	D2
	1SA	DSH	D5	D4	D	E	K	.	OB5	OB4
	E2	OE18	1SA	1E18	OTF	D4	.	01	*14	E2
	1SA	AK	AX	CL6	DSH	D5	D4	.	OE18	1SA
	OTF	D4	.	01	OSAG	.	.	.	.	.
	1SA	TO	TX	DSP	D5	D4	D	E	K	OB4
	OB3	TP	OE18	1SA	1E18	OTF	D4	.	02	DS
	D5	.	.	DSH	D4	D2	OB4	E2	OE18	1SA
	1SA	AK	CL6	DSH	D4	D2	OB4	E2	OE18	1SA
	1E18	OTF	D4	.	02	TSH	.	06	DSPH	DSP
	1SA	TO	TX	AX	DSP	D4	D	E	K	OB6
	OB3	02	TP	PS	OE18	1SA	1E18	OTF	D4	.
	OB4-	.	03	02A	02	04	AX	.	06	DSPH
	*14C	OB2-	.	07	OB2-	.	.	.	.	.
185	1SA	AK	DSH	D4	D2	E2	OE18	1SA	1E18	OTF
	D4	.	03	TSH	.	06	DSPH	DSH	.	.
	1SA	TO	TX	AX	DSP	D4	D	E	K	OB6
	OB3	02	TP	PS	OE18	1SA	1E18	OTF	D4	.
	02A	.	02	OB4-	.	04	AX	.	06	DSPH
	OB2-	.	07	OB2-	.	.	.	.	.	07
	1SA	AK	DSH	D5	D4	02	OE18	1SA	1E18	OTF
	D4	.	04	TSH	.	.	.	.	.	.
	1SA	TO	TX	DSP	D5	D4	D	E	K	OB4
	OB3	02	TP	OE18	1SA	1E18	OTF	D4	.	04
	.	02	D5	.	.	.	.	.	.	.
	1SA	TO	TX	DSP	D4	D	E	K	OB6	OB3
	03	02	TP	PS	OE18	1SA	1E18	OTF	D4	.
	03	.	02	OB4-	.	03	02A	02	06	DSPH
	*14C	OB2-	.	07	OB2-	.	.	.	.	.





189 D4 or test, zero side. Logic for zero side D4 is on boards 222, 223.

OSA	AK	D5	D4	OB4	04	OE18	OSA	1E18	OTF	
D4		01								
1SA	DSH	D	E	K	OB3	OB2	OE18	OSA	1E18	
OTF	D4		01							02
OSA	AK	D4	OB2	OE18	OSA	1E18	OTF	D4		
1SA	TO	TX	DSP	D5	D	E	K	OB4	OB3	
02	TP	OE18	OSA	1E18	OTF	D4		02		
OSA	AK	D4	OB4	OB2	02	OE18	OSA	1E18	OTF	
D4		03								
1SA	TO	TX	DSP	D5	D	E	K	OB3	TP	
OE18	OSA	1E18	OTF	D4	03	03	OE18	OSA	1E18	OTF
OSA	AK	D4	OB4	OB2	03					
D4		04								
1SA	TO	TX	AX	DSP	D	E	K	OB3	02	
TP	OE18	OSA	1E18	OTF	D4		04	1E18	OTF	D4
OSA	AK	D4	OB4	OB2	OE18	OSA	1E18	OTF	D4	
.	05	.	.	.	.	.	.	.	.	.

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1SA	TO	TX	DSP	D	E	K	OB3	04	03
02	TP	OE18	OSA	1E18	OTF	D4		05	
OSA	DSH	DSP	D4	D	E	K	OB3	OE18	OSA
1E18	OTF	D4	06						
1SA	AK	D5	OE18	OSA	1E18	OTF	D4		06

191 D4 and test, zero side.

1SA	AK	DSH	OE18	OSA	1E18	1TF	D4		01	OCL
1SA	TO	TX	DSP	D	E	K	OB4			TP
OE18	OSA	1E18	1TF	D4		02	D5-	03	D5-	
1SA	AK	DSH	D5	OB4	OE18	OSA	1E18		1TF	D4
02	TSH	06	DSPH	DSH						
1SA	TO	TX	DSP	D5	D	E	K	OB3	02	02
TP	OE18	OSA	1E18	1TF	D4		02	OB4-	01	OCL
OB2-		03	02A	02	04	AX-	06	DSPH	DSP	
1SA	AK	DSH	D5	OE18	OSA	1E18	1TF	D4		03
TSH		06	DSPH	DSH						
1SA	TO	TX	DSP	D5	D	E	K	OB3	02	02
TP	OE18	OSA	1E18	1TF	D4		03	02A	01	OCL
OB2-		02	OB4-		04	AX-	06	DSPH	DSP	



195	1SA	TO	TX	DSP	D3	D	E	K	OB3	03
	02	TP	OE18	1SA	1E18	1TF	D3	.	05	.
	OSA	AK	CL6	OB3	OB2	OE18	1SA	1E18	1TF	D3
	.	06	.	.	.	.	.	.	.	.
	1SA	CP2	DSH	D4	D3	D	E	K	OB4	04
	03	02	PP	OE18	1SA	1E18	1TF	D3	.	06
	OSA	CP2	DSH	DSP	D4	D	E	K	OB6	.
	PP	PS	OE18	1SA	1E18	1TF	D3	.	07	.
	1SA	AK	CL6	D3	OE18	1SA	1E18	1TF	D3	07
	OSA	AK	OB5	OB4	04	.	.	.	.	.
	T	I	M	E	.	D	E	L	A	Y
	T	I	M	E	.	D	E	L	A	Y
	T	I	M	E	.	D	E	L	A	Y
	OE18	1SA	1E18	1TF	D3	.	08	.	.	.
	1SA	DSH	D4	D3	D	E	K	OB6	OB2	PS
	T	I	M	E	.	D	E	L	A	Y
	T	I	M	E	.	D	E	L	A	Y
	OE18	1SA	1E18	1TF	D3	.	08	.	.	.

196 D3 and test, one side.

1SA	DSH	D4	D3	D	E	OB5	OB4	OB2	06	
PS	OE18	1SA	1E18	OTF	D3	.	01	*13	.	
1SA	DSH	D4	D3	D	K	OB5	OB4	OB2	06	
PS	OE18	1SA	1E18	OTF	D3	.	01	*13	.	
1SA	DSH	D4	D3	E	K	OB5	OB4	OB2	06	
PS	OE18	1SA	1E18	OTF	D3	.	01	*13	.	
1SA	AK	DSH	D4	D4	D3	D	E	K	OB5	
OB4	06	PS	OE18	1SA	1E18	OTF	D3	.	01	*13
AK	.	.	.	.	.	.	.	.	.	
1SA	DSH	D4	D3	D	E	K	OB5	OB4	OB2	
06	OE18	1SA	1E18	OTF	D3	.	01	*13	PS-	
1SA	DSH	D4	D3	D	E	K	OB5	OB4	OB2	
PS	OE18	1SA	1E18	OTF	D3	.	01	*13	06-	
1SA	CP2	DSH	D4	D3	D	E	K	OB5	OB4	
OB2	06	04	03	02	PP	PS	OE18	1SA	1E18	
OTF	D3	.	01	*13	04	.	06	OGO	OB2	



200	1SA	AK	AX	CL6	DSH	D3	OE18	1SA	1E18	OTF
	D3		DSPH							
	1SA	DSH	D4	D3	D	E	OB6	OB2	PS	OE18
	1SA	1E18	OTF	D3		*13C	K-			
	1SA	DSH	D4	D3	D	K	OB6	OB2	PS	OE18
	1SA	1E18	OTF	D3		*13C	E-			
	1SA	DSH	D4	D3	E	K	OB6	OB2	PS	OE18
	1SA	1E18	OTF	D3		*13C	D-			
	1SA	AK	DSH	D4	D3	D	E	K	OB6	OB2
	PS	OE18	1SA	1E18	OTF	D3		*13C	AK	
	1SA	TO	TX	DSH	DSP	D4	D3	D	E	K
	OB6	OB3	OB2	O3	O2	TP	OE18	1SA	1E18	OTF
	D3		*13C	PS-		TSH	OB2			
201	1SA	TO	TX	DSH	DSP	D4	D3	D	E	K
	OB6	OB3	OB2	O4	O3	O2	TP	PS	OE18	1SA
	1E18	OTF	D3		*13C	O4		TSH	OB2	
	1SA	TO	TX	DSH	DSP	D4	D3	D	E	K
	OB3	OB2	O3	O2	TP	PS	OE18	1SA	1E18	OTF
	D3		*13C	OB6-		TSH	OB2			
202	D3 or test, zero side. Logic for zero side D3 is on boards 317, 319, 320.									
	OSA	AK	D4	D3	OB4	O4	OE18	OSA	1E18	OTF
	D3		D	E	K	OB3	OB2	OE18	OSA	1E18
	1SA	DSH	D3	OB2	OE18	OSA	1E18	OTF	D3	OB3
	OTF	D3								
	OSA	AK	TP	OE18	OSA	1E18	OTF	D3		
	1SA	TO	TX	DSP	D4	D	E	K	OB3	O3
	O3	O2	O3	OB4	OB2	O2	OE18	OSA	1E18	OTF
	OSA	AK	D3	OB4	OB2	O3	OE18	OSA	1E18	OTF
	D3		D	E	K	OB3	OB2	OE18	OSA	1E18
	1SA	TO	TX	DSP	D4	D	E	K	OB3	O2
	TP	OE18	OSA	1E18	OTF	D3				
	OSA	AK	D3	OB4	OB2	O3	OE18	OSA	1E18	OTF
	D3		D	E	K	OB3	OB2	OE18	OSA	1E18
	1SA	TO	TX	DSP	D4	D	E	K	OB3	O2
	TP	OE18	OSA	1E18	OTF	D3				
	OSA	AK	D3	OB4	OB2	OE18	OSA	1E18	OTF	D3
	D3		D	E	K	OB3	OB2	OE18	OSA	1E18
	1SA	TO	TX	DSP	D4	D	E	K	OB3	O3
	TP	OE18	OSA	1E18	OTF	D3				
	OSA	AK	D3	OB4	OB2	OE18	OSA	1E18	OTF	D3
	D3		D	E	K	OB3	OB2	OE18	OSA	1E18
	1SA	TO	TX	DSP	D4	D	E	K	OB3	O3
	O2	TP	OE18	OSA	1E18	OTF	D3			
	OSA	DSH	DSP	D3	D	E	K	OB3	OE18	OSA
	1E18	OTF	D3							
	1SA	AK	D4	O4	OE18	OSA	1E18	OTF	D3	
	D3		D	E	K	OB3	OB2	OE18	OSA	1E18

Tape stops

Marker number

204	D3 and test, zero side.									
	1SA	AK	DSH	04	OE18	OSA	1E18	1TF	D3	01
	OCL	.	.	.	.	.	.	.	.	.
	1SA	TO	TX	DSP	D4	D	E	K	OB3	03
	02	TP	OE18	OSA	1E18	1TF	D3	03	02A	01
	OCL	OB2-	02	OB4-	.	04	03	.	05	AX-
	DSP	.	.	.	.	.	.	.	.	06
	1SA	TO	TX	DSP	D	E	K	OB3	TP	OE18
	OSA	1E18	1TF	D3	04	D4-	04	01	OCL	OB2-
	1SA	AK	DSH	D4	04	OE18	OSA	1E18	1TF	D3
	.	04	TSH	06	DSPH	DSP	.	.	.	.
	1SA	AK	AX	06	DSH	04	03	02	OE18	OSA
	1TF	D3	.	05	TSH	.	.	.	.	1E18
	.	.	.	.	.	.	.	.	.	.
205	1SA	TO	TX	AX	DSP	D	E	K	OB4	OB3
	03	02	TP	OE18	OSA	1E18	1TF	D3	05	OB4
	1SA	TO	TX	AX	DSP	D	E	K	OB3	TP
	OE18	OSA	1E18	1TF	D3	.	05	032-	01	OCL
	.	04	D4-	.	.	.	.	.	.	06
	1SA	AK	04	OE18	OSA	1E18	1TF	D3	06	D4-
	1SA	AK	DSH	D4	04	OE18	OSA	1E18	1TF	D3
	.	06	DSPH	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.	.	.
206	D2 or test, one side. Logic for one side D2 is on boards 210, 314, 315, 401, 402. Logic for mechanical reader 011 and/or shorting cable 012.									
	OSA	AK	OB3	04	PE	OE18	1SA	1E18	1TF	D2
	.	01	.	.	.	.	.	.	.	.
	1SA	DSH	D3	D2	D	E	K	OB5	OB4	OB2
	OE18	1SA	1E18	1TF	D2	01	.	.	.	.
	OSA	AK	D3	OB2	OE18	1SA	1E18	1TF	D2	02
	1SA	TO	TX	CL6	DSP	D2	D	E	K	OB3
	03	TP	OE18	1SA	1E18	1TF	D2	02	1E18	1TF
	OSA	AK	CL6	D3	OB2	03	OE18	1SA	1E18	1TF
	D2	.	03	.	.	.	.	.	.	.
	1SA	TO	TX	DSP	D2	D	E	K	OB3	TP
	OE18	1SA	1E18	1TF	D2	03	.	.	.	.
	OSA	AK	AX	CL6	OB2	OE18	1SA	1E18	1TF	D2
	.	04	.	.	.	.	.	.	.	.
	1SA	TO	TX	DSP	D2	D	E	K	OB3	03
	TP	OE18	1SA	1E18	1TF	D2	04	.	.	.
	OSA	AK	CL6	OB3	OB2	OE18	1SA	1E18	1TF	D2
	.	05	.	.	.	.	.	.	.	.

207	1SA	CP2	DSH	D3	D2	D	E	K	OB4	04
	03	02	PP	OE18	1SA	1E18	1TF	D2	.	05
	OSA	CP2	DSH	DSP	D3	D	E	K	OB6	02
	PP	PS	OE18	1SA	1E18	1TF	D2	.	.	.
	1SA	AK	D2	PE	OE18	1SA	1E18	1TF	06	06
	OSA	AK	OB5	OB4	04	.	.	.	.	.
	T	I	M	E	.	D	E	L	A	Y
	T	I	M	E	.	D	E	L	A	Y
	T	I	M	E	.	D	E	L	A	Y
	OE18	1SA	1E18	1TF	D2	.	.	.	.	.
	1SA	DSH	D3	D2	D	E	K	OB6	OB2	PS
	T	I	M	E	.	D	E	L	A	Y
	T	I	M	E	.	D	E	L	A	Y
	T	I	M	E	.	D	E	L	A	Y
	OE18	1SA	1E18	1TF	D2	.	.	.	.	.

208 D2 and test, one side.

1SA	DSH	D3	D2	D	E	K	OB5	OB4	OB2
PE	OE18	1SA	1E18	OTF	D2	OE18	*12	PE	OTF
1SA	AK	AX	DSH	D3	D2	.	1SA	1E18	.
D2	.	01 OSAG	.	.	.	.	.	.	.
1SA	TO	TX	CL6	DSP	D3	D2	D	E	K
OB6	OB3	TP	PS	OE18	1SA	1E18	OTF	D2	02
D3	.	03 D3	.	*12C	OB2-	.	07 OB2-	1E18	OTF
1SA	AK	CL6	DSH	D2	PE	OE18	1SA	1E18	OTF
D2	.	02	TSH	.	DSPH	DSH	.	.	.
1SA	TO	TX	AX	CP2	DSP	D2	D	E	K
OB4	OB3	04	03	02	PP	TP	OE18	1SA	1E18
OTF	D2	.	02 CL6-	.	03	.	04 AX	.	05 OGO
KIOS	OB2	.	06 DSPH	DSP	.	.	.	.	.

209

1SA	AK	DSH	D2	PE	OE18	1SA	1E18	OTF	D2
.	03 TSH	.	06 DSPH	DSP	.	.	.	.	1E18
1SA	AK	DSH	D3	D2	03	PE	OE18	1SA	1E18
OTF	D2	.	04 TSH	.	.	.	.	.	.
1SA	TO	TX	CL6	DSP	D3	D2	D	E	K
OB6	OB3	03	TP	PS	OE18	1SA	1E18	OTF	D2
.	04 CL6	.	02 D3	.	*12C	OB2-	.	07 OB2-	.
1SA	TO	TX	DSP	D3	D2	D	E	K	OB6
OB3	TP	PS	OE18	1SA	1E18	OTF	D2	.	04 03-
.	03 D3	.	*12C	OB2-	.	07 OB2-	.	.	.
1SA	AK	AX	CP2	DSH	D3	D2	04	03	02
OE18	1SA	1E18	OTF	D2	.	05 OGO	.	.	.
1SA	TO	TX	CP2	DSH	DSP	D3	D2	D	E
K	OB5	OB4	03	PP	TP	OE18	1SA	1E18	OTF
D2	.	05 OLO	.	01 OSAG	OB2-	.	04 TSH	OB3	.

Tape stops	Marker number											
	210	1SA	T0	TX	DSH	DSP	D3	D2	D	E	K	
		OB4	04	03	02	PP	TP	0E18	1SA	1E18	OTF	
		D2	05	CP2-		04	TSH	OB3-				
		1SA	CL6	CP2	DSH	D3	D2	D	E	K	OB4	
		04	03	02	PP	0E18	1SA	1E18	OTF	D2		05
		CL6										
		1SA	AK	D3	D2	PE	0E18	1SA	1E18	OTF	D2	
			06	D3								
		1SA	AK	AX	DSH	D2	PE	0E18	1SA	1E18	OTF	
		D2		DSPH								
		1SA	DSH	D3	D2	D	E	OB6	OB2	PS	0E18	
		1SA	1E18	OTF	D2		07	*12C	K-			
		1SA	DSH	D3	D2	D		07	K	OB6	OB2	PS
		1SA	1E18	OTF	D2		07	*12C	E-			
		1SA	DSH	D3	D2	E		07	K	OB6	OB2	PS
		1SA	1E18	OTF	D2		07	*12C	D-			
	211	1SA	AK	DSH	D3	D2	D	E	K	OB6	OB2	
		PS	0E18	1SA	1E18	OTF	D2		07	*12C		
		1SA	T0	TX	DSH	DSP	D3	D2	D	E	K	
		OB6	OB3	OB2	03	TP	0E18	1SA	1E18	OTF	D2	
			07	*12C		04	TSH	OB2				
		1SA	T0	TX	DSH	DSP	D3	D2	D	E	K	
		OB6	OB3	OB2	04	TP	0E18	1SA	1E18	OTF	D2	
		OTF	D2		07	*12C	04	TSH	OB2			
		1SA	T0	TX	DSH	DSP	D3	D2	D	E	K	
		OB3	OB2	03	TP	PS	0E18	1SA	1E18	OTF	D2	
			07	*12C		04	TSH	OB2				
		1SA	DSH	D3	D2	D	E	K	OB6	OB5	OB2	
		PS	0E18	1SA	1E18	OTF	D2		07	*12C		01
		OSAG	KIOS	OB4-								
	212	1SA	DSH	D3	D2	D	E	K	OB6	OB4	OB2	
		PS	0E18	1SA	1E18	OTF	D2		07	*12C		01
		OSAG	OB5-									
	213	D2 or test, zero side. Logic for zero side D2 is on boards 314, 315.										
		OSA	AK	D3	D2	OB4	04	0E18	OSA	1E18	OTF	
		D2										
		1SA	DSH	D	E	K	OB3	OB2	0E18	OSA	1E18	
		OTF	D2		01							
		OSA	AK	D2	OB2	0E18	OSA	1E18	OTF	D2		02
		1SA	T0	TX	CL6	DSP	D3	D	E	K	OB3	
		03	TP	0E18	OSA	1E18	OTF	D2		02		



	OSA	AK	CL6	D2	OB2	03	OE18	OSA	1E18	OTF	
	D2		03								
	1SA	TO	TX	DSP	D3	D	E	K	OB3	TP	
	OE18	OSA	1E18	OTF	D2						
	OSA	AK	CL6	D2	OB2	OE18	03	OSA	1E18	OTF	D2
		04									
	1SA	TO	TX	AX	DSP	D	E	K	OB3	03	
	TP	OE18	OSA	1E18	OTF	D2					
	OSA	DSH	DSP	D2	D	E	K	04	OB3	OE18	OSA
	1E18	OTF	D2								
214	1SA	AK	D3	OB4	04	OE18	OSA	1E18	OTF	D2	
		05									
215	D2 and test, zero side.										
	1SA	AK	DSH	OB4	04	OE18	OSA	1E18	1TF	D2	
		01	OCL								
	1SA	TO	TX	CL6	DSP	D	E	K	OB3	TP	
	OE18	OSA	1E18	1TF	D2		02	D3-	01	OCL	OB2-
		03	D3-								
	1SA	AK	CL6	DSH	D3	OB4	04	OE18	OSA	1E18	
	1TF	D2		02	TSH	05	DSPH	DSH			
	1SA	TO	TX	DSP	D3	D	E	K	OB3	03	
	TP	OE18	OSA	1E18	1TF	D2		02	CL6-	01	OCL
	OB2-		03	03	04	AX-	05	DSPH	DSP		
	1SA	AK	DSH	D3	OB4	04	DSH	OE18	OSA	1E18	1TF
	D2		03	TSH	05	DSPH	DSH				
	1SA	AK	AX	DSH	OB4	04	03	OE18	OSA	1E18	
	1TF	D2		04	TSH						
	1SA	TO	TX	AX	CL6	DSP	D	E	K	OB3	
	03	TP	OE18	OSA	1E18	1TF	D2		04	CL6	01
	OCL	OB2-		02	D3-						
216	1SA	TO	TX	AX	DSP	D	E	K	OB3	TP	
	OE18	OSA	1E18	1TF	D2		04	03-	01	OCL	OB2-
		03	D3-								
	1SA	AK	OB4	04	OE18	OSA	1E18	1TF	D2		05
	D3-										
	1SA	AK	DSH	D3	OB4	04	OE18	OSA	1E18	1TF	
	D2		05	DSPM							

Tape  
stopsMarker  
number

217 D1 or test, one side. Logic for one side D1 is on boards 315, 316, 317, 403. Logic for mechanical reader 011 and/or shorting cable 012.

OSA	AK	OB3	04	OE18	1SA	1E18	1TF	D1	.	01
1SA	DSH	D2	D1	D	E	K	OB5	OB4	OB2	.
E1	OE18	1SA	1E18	1TF	D1	.	01	.	.	.
OSA	AK	D2	OB2	OE18	1SA	1E18	1TF	D1	.	02
1SA	TO	TX	DSP	D1	D	E	K	OB3	TP	.
OE18	1SA	1E18	1TF	D1	.	02	.	.	.	.
OSA	DSH	DSP	D2	D	E	K	OB6	E1	PS	.
OE18	1SA	1E18	1TF	D1	.	03	.	.	.	.
1SA	AK	D1	04	OE18	1SA	1E18	1TF	D1	.	03
OSA	AK	OB5	OB4	04	.	.	.	.	.	.
T	I	M	E	.	D	E	L	A	Y	.
T	I	M	E	.	D	E	L	A	Y	.
T	I	M	E	.	D	E	L	A	Y	.
OE18	1SA	1E18	1TF	D1	.	04	.	.	.	.
1SA	DSH	D2	D1	D	E	K	OB6	OB2	PS	.
T	I	M	E	.	D	E	L	A	Y	.
T	I	M	E	.	D	E	L	A	Y	.
OE18	1SA	1E18	1TF	D1	.	04	.	.	.	.

218 D1 and test, one side.

1SA	DSH	D2	D1	D	E	K	OB5	OB4	OB2	.
OE18	1SA	1E18	OTF	D1	.	01	*11	E1-	1E18	.
1SA	AK	DSH	D2	D1	04	E1	OE18	1SA	1E18	.
OTF	D1	.	01	OSAG	.	.	.	.	.	.
1SA	TO	TX	DSP	02	D1	D	E	K	OB6	.
OB3	TP	PS	OE18	1SA	1E18	OTF	D1	.	02	D2
.	04	*11C	OB2-	04	OB2-	.	.	.	.	.
1SA	AK	DSH	D1	04	OE18	1SA	1E18	OTF	D1	.
.	02	TSH	03	DSPH	DSH	.	.	.	.	.
1SA	AK	D2	D1	04	OE18	1SA	1E18	OTF	D1	.
.	03	D2	.	.	.	.	.	.	.	.
1SA	AK	DSH	D1	04	OE18	1SA	1E18	OTF	D1	.
.	03	DSPH	.	.	.	.	.	.	.	.
1SA	DSH	D2	D1	D	E	OB6	OB2	PS	OE18	.
1SA	1E18	OTF	D1	.	04	*11C	K-	.	.	.

219

1SA	DSH	D2	D1	D	K	OB6	OB2	PS	OE18	.
1SA	1E18	OTF	D1	.	04	*11C	E-	.	.	.
1SA	DSH	02	D1	E	K	OB6	OB2	PS	OE18	.
1SA	1E18	OTF	D1	.	04	*11C	D-	.	.	.
1SA	AK	DSH	D2	D1	D	E	K	OB6	OB2	.
PS	OE18	1SA	1E18	OTF	D1	.	04	*11C	AK	.
1SA	DSH	D2	D1	D	E	K	OB6	OB2	OE18	.

	1SA	1E18	OTF	D1	.	04	*11C	PS-	.	.	.	.
	1SA	DSH	D2	D1	D	.	E	K	04	OB6	OB2	04
	PS	OE18	1SA	1E18	OTF	.	D1	.	.	*11C	.	04
	1SA	DSH	D2	D1	D	.	E	K	04	OB2	PS	04
	1SA	1E18	OTF	D1	.	04	*11C	OB6-	.	.	.	.
	1SA	DSH	D2	D1	D	.	E	K	.	OB6	OB5	OB2
	E1	PS	OE18	1SA	1E18	OTF	D1	.	04	*11C	OB5	.
	.	01	OSAG	KIOS	OB4-	.	.	.	.	.	.	.
220	1SA	DSH	D2	D1	D	.	E	K	.	OB6	OB4	OB2
	E1	PS	OE18	1SA	1E18	OTF	D1	.	04	*11C	OB4	.
	.	01	OSAG	OB5-	.	.	.	.	.	.	.	.
221	D1 or test, zero side. Logic for zero side D1 is on boards 314, 316, 317.											
	OSA	AK	D2	D1	OB4	04	OE18	OSA	.	1E18	OTF	.
	D1	.	01	.	.	.	.	.	.	.	.	.
	1SA	DSH	D	E	K	OB3	OB2	OE18	OSA	1E18	.	.
	OTF	D1	.	01	.	.	.	.	.	.	.	.
	OSA	AK	D1	OB2	OE18	OSA	1E18	OTF	D1	.	02	.
	1SA	TO	TX	DSP	D2	D	E	K	OB3	TP	.	.
	OE18	OSA	1E18	OTF	D1	.	02	.	.	.	.	.
	OSA	AK	CL6	D2	D1	OB3	OB2	OE18	OSA	1E18	.	.
	OTF	D1	.	03	.	.	.	.	.	.	.	.
	1SA	CP2	DSH	D	E	K	OB4	04	03	02	.	.
	PP	OE18	OSA	1E18	OTF	D1	.	03	.	.	.	.
	OSA	CP2	DSH	DSP	D1	D	E	K	03	02	.	.
	PP	OE18	OSA	1E18	OTF	D1	.	04	.	.	.	.
	1SA	AK	CL6	D2	OE18	OSA	1E18	OTF	D1	.	04	.
222	D1 and test, zero side.											
	1SA	AK	CL6	DSH	OE18	OSA	1E18	1TF	D1	.	01	.
	OCL	.	.	.	.	.	.	.	.	.	.	.
	1SA	TO	TX	DSP	D	E	K	OB3	TP	OE18	.	.
	OSA	1E18	1TF	D1	02	D2-	01	OCL	OB2-	D1	.	.
	1SA	AK	CL6	DSH	D2	OE18	OSA	1E18	1TF	D1	.	.
	.	02	TSH	04	DSPH	DSH	.	.	.	.	.	.
	1SA	AK	CP2	DSH	04	03	02	OE18	OSA	1E18	.	.
	1TF	D1	.	03	OGO	.	.	.	.	.	.	.
	1SA	CP2	DSH	D	E	K	OB4	PP	OE18	OSA	.	.
	1E18	1TF	D1	.	03	OLO	.	.	.	.	.	.
	1SA	DSH	D	E	K	OB4	04	03	02	PP	.	.
	OE18	OSA	1E18	1TF	D1	.	03	CP2-	.	.	.	.
	1SA	CL6	CP2	DSH	D	E	K	OB4	04	03	.	.
	02	PP	OE18	OSA	1E18	1TF	D1	.	03	CL6	.	.
223	1SA	AK	CL6	OE18	OSA	1E18	1TF	D1	.	04	D2-	.
	D2	.	.	.	.	.	.	.	.	.	.	.
	1SA	AK	CL6	DSH	D2	OE18	OSA	1E18	1TF	D1	.	.
	.	04	DSPH	.	.	.	.	.	.	.	.	.

**Tape stops**    **Marker number**

224	CN5 or test, one side. Logic for one side CN5 is on boards 238, 403, 405, 335. Logic for shorting cable 012.										
	OSA	B6	CR5	K		OB3	OB1	TSO	PS	OE18	1SA
	1E18	1TF	CN5	.	01	.	.	.	.	.	.
	1SA	CN5	D	G		OP2	OE18	1SA	1E18	1TF	CN5
	.	01	.	.		.	.	.	.	.	.
	OSA	D	G	OP2		OE18	1SA	1E18	1TF	CN5	02
	1SA	B6	CN5	CR5		K	OP3	OP1	TSO	PS	OE18
	1SA	1E18	1TF	CN5		.	02	.	.	.	.
225	CN5 and test, one side.										
	1SA	CN5	CR5	D		G	OP2	OE18	1SA	1E18	OTF
	CN5	.	01	CR5		.	.	.	.	.	.
	1SA	B6	CN5	D		OP2	TSO	OE18	1SA	1E18	OTF
	CN5	.	01	CRL		.	.	.	.	.	.
	1SA	B6	CN5	CR5		K	OP1	TSO	PS	OE18	1SA
	1E18	OTF	CN5	.	02	*R5	OP3-	.	.	.	.
	1SA	B6	CN5	CR5		K	OP3	OP2	OP1	TSO	PS
	OE18	1SA	1E18	OTF		CN5	.	02	*R5	OP2	.
	1SA	B6	CN5	CR5		K	OP3	TSO	PS	OE18	1SA
	1E18	OTF	CN5	.	02	*R5	OP1-	.	.	.	.
	1SA	B6	CN5	CR5		K	OP3	OP1	TSO	OE18	1SA
	1E18	OTF	CN5	.	02	*R5	PS-	.	.	.	.
	1SA	B6	CN5	CR5		D	OP3	OP1	TSO	PS	OE18
	1SA	1E18	OTF	CN5		.	02	KD1	.	.	.
226	CN5 or test, zero side. Logic for zero side CN5 is on boards 238, 334, 402, 405. Logic for shorting cable 012.										
	OSA	B6	CN5	K		OP3	TSO	PS	OE18	OSA	1E18
	OTF	CN5	.	01		.	.	.	.	.	.
	1SA	CR5	D	G		OP2	OP1	OE18	OSA	1E18	OTF
	CN5	.	01	.		.	.	.	.	.	.
	OSA	CN5	CR5	D		G	OP2	OP1	OE18	OSA	1E18
	OTF	CN5	.	02		.	.	.	.	.	.
	1SA	B6	K	OP3		TSO	PS	OE18	OSA	1E18	OTF
	CN5	.	02	.		.	.	.	.	.	.
227	CN5 and test, zero side.										
	1SA	D	G	OP2		OP1	OE18	OSA	1E18	1TF	CN5
	.	01	CR5-	.		.	.	.	.	.	.
	1SA	B6	CR5	D		OP2	OP1	TSO	OE18	OSA	1E18
	1TF	CN5	.	01		RCL	.	.	.	.	.
	1SA	B6	K	TSO		PS	OE18	OSA	1E18	1TF	CN5
	.	02	*R5-	OP3-		.	.	.	.	.	.
	1SA	B6	K	OP3		OP2	TSO	PS	OE18	OSA	1E18
	1TF	CN5	.	02		*R5-	OP2	.	.	.	.

	1SA	B6	K	OP3	OP1	TSO	PS	OE18	OSA	1E18	
	1TF	CN5	.	02 *R5-	OP1						
	1SA	B6	K	OP3	TSO	OE18	OSA	1E18	1TF	CN5	
	.	02 *R5-	PS-	.	.	.	.	.	.	.	.
	1SA	B6	D	OP3	TSO	PS	OE18	OSA	1E18	1TF	
	CN5	.	02 KD1	.	.	.	.	.	.	.	.
228	CN4 or test, one side. Logic for one side CN4 is on boards 237, 238, 334, 401, 405.										
	OSA	B6	CR4	K	OP2	OP1	TSO	PS	OE18	1SA	
	1E18	1TF	CN4	.	01	.	.	.	.	.	.
	1SA	CN4	D	G	OP3	OE18	1SA	1E18	1TF	CN4	
	.	01	.	.	.	.	.	.	.	.	.
	OSA	D	G	OP3	OE18	1SA	1E18	1TF	CN4	.	02
	1SA	B6	CN4	CR4	K	OP2	OP1	TSO	PS	OE18	
	1SA	1E18	1TF	CN4	.	02	.	.	.	.	.
229	CN4 and test, one side.										
	1SA	CN4	CR4	D	G	OP3	OE18	1SA	1E18	OTF	
	CN4	.	01 CR4	.	.	.	.	.	.	.	.
	1SA	B6	CN4	D	OP3	TSO	OE18	1SA	1E18	OTF	
	CN4	.	01	RCL	.	.	.	.	.	.	.
	1SA	B6	CN4	CR4	K	OP3	OP2	OP1	TSO	PS	
	OE18	1SA	1E18	OTF	CN4	.	02 *R4	OP3-	.	.	.
	1SA	B6	CN4	CR4	K	OP1	TSO	PS	OE18	1SA	
	1E18	OTF	CN4	.	02 *R4	OP2-	.	.	.	.	.
	1SA	B6	CN4	CR4	K	OP2	TSO	PS	OE18	1SA	
	1E18	OTF	CN4	.	02 *R4	OP1-	.	.	.	.	.
	1SA	B6	CN4	CR4	K	OP2	OP1	TSO	OE18	OSA	
	1E18	OTF	CN4	.	02 *R4	PS-	.	.	.	.	.
	1SA	B6	CN4	CR4	D	OP2	OP1	TSO	PS	OE18	
	1SA	1E18	OTF	CN4	.	02 KD1	.	.	.	.	.
230	CN4 or test, zero side. Logic for zero side CN4 is on boards 237, 333, 334, 401, 405.										
	OSA	B6	CN4	K	OP2	TSO	PS	OE18	OSA	1E18	
	OTF	CN4	.	01	.	.	.	.	.	.	.
	1SA	CR4	D	G	OP3	OP1	OE18	OSA	1E18	OTF	
	CN4	.	01	.	.	.	.	.	.	.	.
	OSA	CN4	CR4	D	G	OP3	OP1	OE18	OSA	1E18	
	OTF	CN4	.	02	.	.	.	.	.	.	.
	1SA	B6	K	OP2	TSO	PS	OE18	OSA	1E18	OTF	
	CN4	.	02	.	.	.	.	.	.	.	.

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231	CN4 and test, zero side.									
1SA	D	G	OP3	OP1	OE18	OSA	1E18	1TF	CN4	
	01	CR4-	.	D	OP3	OP1	TSO	OE18	OSA	1E18
1SA	B6	CR4	.	D	OP3	OP1	TSO	OE18	OSA	1E18
1TF	CN4	.	01	RCL	.	.	.	.	.	.
1SA	B6	K	OP3	OP2	TSO	PS	OE18	OSA	1E18	
1TF	CN4	02	*R4-	OP3	.	.	.	.	.	.
1SA	B6	K	TSO	PS	OE18	OSA	1E18	1TF	CN4	
	02	*R4-	OP2-	.	.	.	.	.	.	.
1SA	B6	K	OP2	OP1	TSO	PS	OE18	OSA	1E18	
1TF	CN4	.	02	*R4-	OP1	.	.	.	.	.
1SA	B6	K	OP2	TSO	OE18	OSA	1E18	1TF	CN4	
	02	*R4-	PS-	.	.	.	.	.	.	.
1SA	B6	D	OP2	TSO	PS	OE18	OSA	1E18	1TF	
CN4	.	02	KD1	.	.	.	.	.	.	.
232	CN3 or test, one side. Logic for one side CN3 is on boards 207, 331, 332, 401, 404.									
OSA	B6	CR3	K	OP1	TSO	PS	OE18	1SA	1E18	
1TF	CN3	.	01	G	OP3	OP2	OE18	1SA	1E18	1TF
1SA	CN3	D	.	G	OP3	OP2	OE18	1SA	1E18	1TF
CN3	.	01	.	.	.	.	.	.	.	.
OSA	D	G	OP3	OP2	OE18	1SA	1E18	1TF	CN3	
	02	.	.	.	.	.	.	.	.	.
1SA	B6	CN3	CR3	K	OP1	TSO	PS	OE18	1SA	
1E18	1TF	CN3	.	02	.	.	.	.	.	.
233	CN3 and test, one side.									
1SA	CN3	CR3	D	G	OP3	OP2	OE18	1SA	1E18	
OTF	CN3	.	01	CR3	.	.	.	.	.	.
1SA	B6	CN3	D	OP3	OP2	TSO	OE18	1SA	1E18	
OTF	CN3	.	01	RCL	.	.	.	.	.	.
1SA	B6	CN3	CR3	K	OP3	OP1	TSO	PS	OE18	
1SA	1E18	OTF	CN3	.	02	*R3	OP3	.	.	.
1SA	B6	CN3	CR3	K	OP2	OP1	TSO	PS	OE18	
1SA	1E18	OTF	CN3	.	02	*R3	OP2	.	.	.
1SA	B6	CN3	CR3	K	TSO	PS	OE18	1SA	1E18	
OTF	CN3	.	02	*R3	OP1-	.	.	.	.	.
1SA	B6	CN3	CR3	K	OP1	TSO	OE18	1SA	1E18	
OTF	CN3	.	02	*R3	PS-	.	.	.	.	.
1SA	B6	CN3	CR3	D	OP1	TSO	PS	OE18	1SA	
1E18	OTF	CN3	.	02	KD1	.	.	.	.	.
234	CN3 or test, zero side. Logic for zero side CN3 is on boards 331, 332, 319, 403, 405.									
OSA	B6	CN3	K	TSO	OE18	OSA	1E18	OTF	CN3	
	01	.	.	.	.	.	.	.	.	.
1SA	CR3	D3	D	G	E2	OE18	OSA	1E18	OTF	

	CN3		01									
	OSA	CN3		CR3	D3	D	G	E2	OE18	OSA	1E18	
	OTF	CN3										02
	1SA	B6		K	TSO	OE18	OSA	1E18	OTF	CN3		
235	CN3 and test, zero side.											
	1SA			D3	D	G	E2	OE18	OSA	1E18	1TF	CN3
		01		CR3-								
	1SA			B6	CR3	D3	D	TSO	E2	OE18	OSA	1E18
	1TF			CN3		01	RCL					
	1SA			B6	D3		K	TSO	OE18	OSA	1E18	1TF
		02		*R3-	D3							
	1SA			B6	K	TSO	E2	OE18	OSA	1E18	1TF	CN3
		02		*R3-	E2							
	1SA			B6	D	TSO	OE18	OSA	1E18	1TF	CN3	
	KD1											02
236	CN2 or test, one side. Logic for one side CN2 is on boards 227, 333, 403, 405.											
	OSA			B6	CR2	K	TSO	OE18	1SA	1E18	1TF	CN2
		01										
	1SA			D4	D	G	CN2	E2	OE18	1SA	1E18	1TF
	CN2				01							
	OSA			D4	D	G	E2	OE18	1SA	1E18	1TF	CN2
		02										
	1SA			B6	CR2	K	CN2	TSO	OE18	1SA	1E18	1TF
	CN2				02							
237	CN2 and test, one side.											
	1SA			CR2	D4	D	G	CN2	E2	OE18	1SA	1E18
	OTF			CN2		01	CR2					
	1SA			B6	D4	D	CN2	TSO	E2	OE18	1SA	1E18
	OTF			CN2		01	RCL					
	1SA			B6	CR2	D4	K	CN2	TSO	OE18	1SA	1E18
	OTF			CN2		02	*R2	D4				
	1SA			B6	CR2	K	CN2	TSO	E2	OE18	1SA	1E18
	OTF			CN2		02	*R2	E2				
	1SA			B6	CR2	D	CN2	TSO	OE18	1SA	1E18	OTF
	CN2				02	KD1						
238	CN2 or test, zero side. Logic for zero side CN2 is on boards 332, 333, 226, 403, 405.											
	OSA			B6	K	CN2	TSO	OE18	OSA	1E18	OTF	CN2
		01										
	1SA			CR2	D5	D	G	E2	OE18	OSA	1E18	OTF
	CN2				01							
	OSA			CR2	D5	D	G	CN2	E2	OE18	OSA	1E18
	OTF			CN2		02						
	1SA			B6	K	TSO	OE18	OSA	1E18	OTF	CN2	

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239	CN2 and test, zero side.									
	1SA	D5	D	G	E2	OE18	OSA	1E18	1TF	CN2
	.	01	CR2-	.	.	.	.	.	.	.
	1SA	B6	CR2	D5	D	TS0	E2	OE18	OSA	1E18
	1TF	CN2	.	01	RCL	.	.	.	.	.
	1SA	B6	D5	K	TS0	OE18	OSA	1E18	1TF	CN2
	.	02	*R2-	D5	.	.	.	.	.	.
	1SA	B6	K	TS0	E2	OE18	OSA	1E18	1TF	CN2
	.	02	*R2-	E2	.	.	.	.	.	.
	1SA	B6	D	TS0	OE18	OSA	1E18	1TF	CN2	.
	KD1	.	.	.	.	.	.	.	.	02
240	CP7 or test, one side. Logic for one side CP7 is on boards 206, 337, 402, 404, 406, 407. No test for 03.									
	OSA	B4	IP	K	TS0	OE18	1SA	1E18	1TF	CP7
	.	01	.	.	.	.	.	.	.	.
	1SA	CP7	FS	OE18	1SA	1E18	1TF	CP7	.	01
	OSA	AK	OB4	04	E4	OE18	1SA	1E18	1TF	CP7
	.	02	.	.	.	.	.	.	.	.
	1SA	CP7	D	E	K	OB5	OE18	1SA	1E18	1TF
	CP7	.	02	.	.	.	.	.	.	.
	OSA	AK	OB4	OB3	OB2	PS	OE18	1SA	1E18	1TF
	CP7	.	04	.	.	.	.	.	.	.
	1SA	CP7	D	E	K	OB6	04	OE18	1SA	1E18
	1TF	CP7	.	04	.	.	.	.	.	.
241	CP7 and test, one side.									
	1SA	CP7	D	E	FS	IP	OB5	OE18	1SA	1E18
	OTF	CP7	.	01	IP	.	02	K10A	K-	.
	1SA	AK	B4-	CP7	OB4	TS0	E4	OE18	1SA	1E18
	OTF	CP7	.	01	KFST	.	.	.	.	.
	1SA	CP7	D	E	FS	K	OB6	OB5	E4	OE18
	1SA	1E18	OTF	CP7	.	.	02	*CTT	E4	01
	K	.	04	04A-	04-	.	.	.	01	KFST
	1SA	CP7	D	E	FS	K	OB5	04	OE18	1SA
	1E18	OTF	CP7	.	02	04A	.	01	KFST	KT32
	OB6-	.	.	.	.	.	.	.	.	.
	1SA	CP7	D	E	FS	K	OB6	OB3	OB2	PS
	OE18	1SA	1E18	OTF	CP7	.	02	OB5-	.	01
	K	.	03	*MRTT	04-	.	04	04A-	04-	.
	1SA	AK	B4	CP7	IP	OB5	OB4	TS0	OE18	1SA
	1E18	OTF	CP7	.	02	K10A	.	.	.	.



242	1SA TSO .	B4 PS 04 KIOA 1SA OE18 KT32 1SA OE18 KT32 1SA 04 .	CP7 OE18 K- CP7 1SA K CP7 1SA K AK PS CP7 PS 01 KFST .	D 1SA .	E 1E18 .	IP OTF .	OB6 CP7 .	OB3 .	03 *MRTT .	OB2 *MRTT .	04 K- .	
	1SA OE18 KT32 1SA OE18 KT32 1SA 04 .	04 KIOA 1SA K CP7 1SA K AK PS CP7 PS 01 KFST .	D K- CP7 1SA E 1E18 K CP7 OE18 KT32 D OE18 KT32 K	04 KIOA .	FS .	K CP7 E- K CP7 D- E 1E18 .	OB6 .	03 MRTT .	OB3 .	OB2 E- .	04 .	PS KFST .
	1SA OE18 KT32 1SA 04 .	04 KIOA 1SA K CP7 1SA K AK PS CP7 PS 01 KFST .	E FS OTF 1E18 K CP7 OE18 KT32 D OE18 KT32 K	04 KIOA .	FS .	K CP7 E- K CP7 D- E 1E18 .	OB6 .	03 *MRTT .	OB3 .	OB2 D- .	04 .	PS KFST .
	1SA 04 .	01 KFST .	D 1SA 1E18 K E FS 1E18 .	04 KIOA .	FS .	K CP7 K OTF KIOA .	OB6 CP7 AK OB6 CP7 OB4 .	03 *MRTT .	OB3 *MRTT .	OB2 AK .	04 KFST .	PS KT32 .
243	1SA OE18 K 1SA 1SA .	CP7 1SA .	D 1E18 04 OB6- D OTF E4 B4 OTF	No test for 03 OB5.	E OTF .	FS CP7 .	K .	03 OB6- .	OB3 .	OB2 .	04 KFST .	PS KT32 .
	1SA 1SA .	CP7 1E18 *CTT AK 1E18	D OTF E4 B4 OTF	No test for 03 KIOA.	E CP7 .	FS .	K 04A- .	01 OB6 .	OB3 .	OB2 KFST .	04 KFST .	PS KT32 .
	1SA 1SA .	AK 1E18	B4 OTF		IP CP7 .	IP .	OB6 KIOA .	OB4 .	04 .	04 TSO .	04 TSO .	OE18 K .
244	OSA .	B4 .	CP7 .	CP7 or test, zero side.	K .	OSA .	1E18 .	OSA .	1E18 .	OTF .	CP7 .	CP7 .
	1SA OSA 1SA .	FS CP7 D	IP E K	Logic for zero side CP7 is on boards 336, 337.	OE18 OE18 OE18	OSA OSA OSA	1E18 1E18 1E18	OTF OTF OTF	CP7 CP7 CP7	.	01 02 02	CP7 .
245	1SA .	D KED2 .	FS K- .	CP7 and test, zero side.	OE18 .	OSA .	1E18 .	1TF .	CP7 .	.	01 .	IP- .
	1SA .	B4 KFST .	E .		IP .	TSO .	OE18 .	OSA .	1E18 .	1TF .	CP7 .	CP7 .
	1SA KED2 .	B4 .	E .		TSO .	OE18 .	OSA .	1E18 .	1TF .	CP7 .	.	02 .

Tape stops

Marker number

Marker number	CP6 or test, one side. Logic for one side CP6 is on boards 234, 407.									
246	OSA	B4	CL7	K	TSO	OE18	1SA	1E18	1TF	CP6
	1SA	CP6	FS	OE18	1SA	1E18	1TF	CP6	01	.
	OSA	AK	OB2	04	OE18	1SA	1E18	1TF	CP6	02
	1SA	CP6	DSP	D	E	K	OB4	OB3	OE18	1SA
	1E18	1TF	CP6	.	02	.	.	.	.	.
	OSA	CL3	TP	OE18	1SA	1E18	1TF	CP6	03	.
	1SA	CP6	D	E	K	04	OE18	1SA	1E18	1TF
	CP6	.	03	.	.	.	.	.	.	.
	OSA	D	TP	E3	OE18	1SA	1E18	1TF	CP6	04
	1SA	AK	CP6	E	K	PE	OE18	1SA	1E18	1TF
	CP6	.	04	.	.	.	.	.	.	.
247	CP6 and test, one side.									
	1SA	CL7	CP6	DSP	D	E	FS	OB4	OB3	OE18
	1SA	1E18	OTF	CP6	.	01	CL7	OSHA	OSH	K-
	1SA	B4	CL3	CP6	OB2	TSO	TP	02	E3	OE18
	1E18	OTF	CP6	.	01	KFST	.	.	.	.
	1SA	B4	CL7	CP6	OB4	OB2	TSO	TP	E3	OE18
	1SA	1E18	OTF	CP6	.	02	OSHA	OSH	.	.
	1SA	CP6	DSP	D	E	FS	K	OB3	OE18	1SA
	1E18	OTF	CP6	.	02	OSHA	OB4-	01	KFST	KT32
	.	03	04A-	04-	.	.	.	.	.	.
	1SA	CL3	CP6	DSP	D	E	FS	K	OB4	OB3
	04	TP	OE18	1SA	1E18	OTF	CP6	.	02	04A
	KFST	KT32	K	.	.	.	.	.	.	01
	1SA	B4	CL7	CP6	D	04	TSO	OE18	1SA	1E18
	OTF	CP6	.	03	KEO	.	.	.	.	.
248	1SA	CP6	E	FS	K	04	E3	OE18	1SA	1E18
	OTF	CP6	.	03	DA-	01	KFST	KT32	K	.
	1SA	AK	CP6	D	E	FS	K	OB2	PE	OE18
	1SA	1E18	OTF	CP6	.	03	04A-	01	KFST	KT32
	.	04	KD1	D	.	.	.	.	.	.
	1SA	CL3	CP6	DSP	D	E	FS	K	OB4	OB3
	04	OE18	1SA	1E18	OTF	CP6	.	03	CL3	01
	KT32	K	.	02	04A	04	.	.	.	KFST
	1SA	CP6	DSP	D	E	FS	K	OB4	OB3	04
	TP	OE18	1SA	1E18	OTF	CP6	.	03	TPA	01
	KT32	K	.	02	04A	04	.	.	.	KFST
	1SA	AK	B4	CL7	CL3	CP6	DSP	D	E	K
	OB4	OB3	PE	TSO	OE18	1SA	1E18	OTF	CP6	.
	KD1	.	02	OSHA	OSH	AK	.	.	.	04

249	1SA	CP6	FS	K	OE18	1SA	1E18	OTF	CP6	.	04
	EAKO	.	01 KFST	KT32	K	.	.	.	.	.	.
	1SA	AK	CP6	E	FS	K	04	PE	E3	OE18	.
	1SA	1E18	OTF	CP6	.	04 *FB	E3	.	01 KFST	KT32	.
	K	.	03	DA-	D-	.	.	.	.	.	.
	1SA	AK	CP6	E	FS	K	PE	TP	OE18	1SA	.
	1E18	OTF	CP6	.	04 TPA	.	01 KFST	KT32	K	.	.
250	CP6 or test, zero side. Logic for zero side CP6 is on board 234.										
	OSA	B4	CP6	K	TSO	OE18	OSA	1E18	OTF	CP6	.
	.	01	.	.	.	.	.	.	.	.	.
	1SA	CL7	FS	OE18	OSA	1E18	OTF	CP6	.	01	.
	OSA	CP6	E	OE18	OSA	1E18	OTF	CP6	.	02	.
	1SA	K	OE18	OSA	1E18	OTF	CP6	.	02	.	.
251	CP6 and test, zero side.										
	1SA	FS	OE18	OSA	1E18	1TF	CP6	.	01 CL7-	.	02
	KA-	K-	.	.	.	.	.	.	.	.	.
	1SA	B4	CL7	E	K	TSO	OE18	OSA	1E18	1TF	.
	CP6	.	01 KFST	.	02 E	.	.	.	.	.	.
	1SA	B4	TSO	OE18	OSA	1E18	1TF	CP6	.	02 KA-	.
252	K or test, one side. Logic for one side K is on boards 214, 215. Logic for shorting cable										
	012.	.	.	.	.	.	.	.	.	.	.
	OSA	AK	E	LC	05	04	TP	OE18	1SA	1E18	.
	1TF	K	.	01	.	.	.	.	.	.	.
	1SA	D	K	PE	OE18	1SA	1E18	1TF	K	.	01
	OSA	OP3	TP	OE18	1SA	1E18	1TF	K	.	02	.
	1SA	AK	D	E	K	OP2	OP1	PE	PS	OE18	.
	1SA	1E18	1TF	K	.	02	.	.	.	.	.
	OSA	AK	CL3	OB2	04	03	TP	OE18	1SA	1E18	.
	1TF	K	.	03	.	.	.	.	.	.	.
	1SA	DSP	D	E	IP	K	OB3	02	PE	OE18	.
	1SA	1E18	1TF	K	.	03	.	.	.	.	.
	OSA	AK	CL3	OB2	04	02	TP	OE18	1SA	1E18	.
	1TF	K	.	04	.	.	.	.	.	.	.
	1SA	DSP	D	E	IP	K	OB3	03	PE	OE18	.
	1SA	1E18	1TF	K	.	04	.	.	.	.	.
253	OSA	AK	CP6	OB2	TP	OE18	1SA	1E18	1TF	K	.
	.	05	.	.	.	.	.	.	.	.	.
	1SA	DSP	D	E	K	OB3	04	PE	OE18	1SA	.
	1E18	1TF	K	.	05	.	.	.	.	.	.

Tape stops

Marker number

Tape stops	Marker number	K and test, one side.									
	254	1SA	AK	CL3	K	E	OP3	03	02	PE	OE18
		1SA	1E18	OTF	K	.	01 KSU1	.	.	.	.
		1SA	D	IP	K	OB3	05	04	PE	OE18	1SA
		1E18	OTF	K	.	01 054	.	.	.	.	.
		1SA	DSP	D	IP	K	LC	OB3	PE	OE18	1SA
		1E18	OTF	K	.	01 LC	.	03 OSH	E-	.	04 OSH
		E-	.	.	.	.	.	.	.	.	.
		1SA	AK	D	E	ND	OP2	OP1	PE	PS	OE18
		BSC	K	1E18	OTF	K	.	02 KA-	.	.	.
		1SA	AK	E	K	OP2	OP1	PE	PS	OE18	1SA
		1E18	OTF	K	.	02 DA-	.	.	.	.	.
		1SA	CL3	CP6	D	K	LC	OB2	OP2	OP1	05
		03	02	PE	PS	OE18	1SA	1E18	OTF	K	.
		EAKO	.	.	.	.	.	.	.	.	02
		1SA	AK	DSP	D	E	IP	K	OB3	OP3	OP2
		OP1	PE	PS	OE18	1SA	1E18	OTF	K	.	02 *GPS-
		OP3	.	03 OSH	AK	.	04 OSH	AK	.	.	.
	255	1SA	AK	DSP	D	E	IP	K	OB3	OP1	PE
		PS	OE18	1SA	1E18	OTF	K	.	02 *GPS-	OP2-	.
		OSH	AK	.	04 OSH	AK	.	.	.	.	03
		1SA	AK	DSP	D	E	IP	K	OB3	OP2	PE
		PS	OE18	1SA	1E18	OTF	K	.	02 *GPS-	OP1-	.
		OSH	AK	.	04 OSH	AK	.	.	.	.	03
		1SA	AK	DSP	D	E	IP	K	OB3	OP2	OP1
		PE	OE18	1SA	1E18	OTF	K	.	02 *GPS-	PS-	.
		OSH	AK	.	04 OSH	AK	.	.	.	.	03
		1SA	CL3	CP6	DSP	D	E	IP	K	OB3	OP2
		04	02	PE	PS	OE18	1SA	1E18	OTF	K	.
		CL34	.	05 CP6	.	.	.	.	.	.	03
		1SA	DSP	D	E	K	OB3	OP2	OP1	PE	PS
		OE18	1SA	1E18	OTF	K	.	03 IP-	.	01 KSU1	KED2
		E	.	02 EAKO	AKA-	AK-	.	04 IP-	.	05 04A-	04-
	256	1SA	DSP	D	E	IP	K	OB3	OP2	OP1	03
		02	PE	PS	OE18	1SA	1E18	OTF	K	.	03 03
		.	01 KSU1	KED2	E	.	02 EAKO	AKA-	AK-	.	04 02A
		02	.	05 04A-	04-	.	.	.	.	.	.
		1SA	IP	K	LC	OB2	OP3	05	02	PE	OE18
		1SA	1E18	OTF	K	.	03 OSH	.	.	.	.
		1SA	CL3	CP6	DSP	D	E	IP	K	OB3	OP2
		04	03	PE	PS	OE18	1SA	1E18	OTF	K	.
		CL34	.	.	.	.	.	.	.	.	04
		1SA	DSP	D	E	IP	K	OB3	OP2	OP1	03

02		PE	PS	OE18	1SA	1E18	OTF	K	.	04	02A	
.	01	KSU1	KED2	E	.	02	EAKO	AKA-	AK-	.	03	03
.	05	04A-	04-	.	.	.	.	.	.	.	.	.
257		IP	K	LC	OB2	OP3	05	03	PE		OE18	
1SA		1E18	OTF	K	.	04	OSH	.	.	.	.	
1SA		CP6	DSP	D	E	IP	K	OB3	OP2		OP1	
04		PE	PS	OE18	1SA	1E18	OTF	K	.	05	CP6	
.	02	EAKO	AKA-	AK-	.	03	CL34	04	.	04	CL34	04
1SA		CL3	DSP	D	E	K	OB3	OP2	OP1		03	
02		PE	PS	OE18	1SA	1E18	OTF	K	.	05	04A-	
.	01	KSU1	KED2	E	.	02	EAKO	AKA-	AK-		.	
1SA		K	OB2	OP3	04	PE	OE18	1SA	1E18		OTF	
K		.	05	OSH	.	.	.	.	.	.	.	
1SA		DSP	D	E	K	OB3	04	PE	TP		OE18	
1SA		1E18	OTF	K	.	05	TPB	.	.	.	.	
1SA		DSP	D	E	K	OB3	04	OE18	1SA		1E18	
OTF		K	.	05	PE-	.	.	.	.	.	.	

258 K or test, zero side. Logic for zero side K is on boards 215, 216, 408, 409.

OSA	TX	CR6	E	K	ND	06	03	E2	E3	
OE18	OSA	1E18	OTF	K	.	01	.	PE	TP	
1SA	AK	CR5	IC	OB5	OB4	OFLO	05	01	.	
E1	PS	OE18	OSA	1E18	OTF	K	.	PS	OE18	OSA
OSA	CR6	K	ND	05	E2	E3	.	.	.	.
1E18	OTF	K	.	02	.	.	.	.	.	.
1SA	TX	AK	CR5	E	IC	OB5	OB4	OFLO	06	.
03	PE	TP	E1	OE18	OSA	1E18	OTF	K	.	02
OSA	AK	CR6	K	05	TP	E1	E2	E3	OE18	.
OSA	1E18	OTF	K	.	03	.	.	.	.	.
1SA	TX	CR5	E	IC	ND	OB5	OB4	OFLO	06	.
03	PE	PS	OE18	OSA	1E18	OTF	K	.	03	.
OSA	AK	CR5	IC	K	OB5	OB4	OB3	OB2	05	.
TP	E2	E3	OE18	OSA	1E18	OTF	K	.	04	.

Tape stops	Marker number											
	259	1SA E1 OSA OE18 1SA PS OSA E3 1SA 03 OSA 1E18 1SA PE	TX PS K OSA TX OE18 CR6 OE18 TX PE K OTF TX E1	CR6 CR3 OB6 1E18 AK OSA K OSA AK E1 OB2 K AK PS	E OE18 OB3 OTF E 1E18 OB5 1E18 CR5 PS OFLO E OE18	ND OSA OB2 K ND OTF OB3 OTF E OE18 05 ND OB6 OSA 1E18	OB6 1E18 OFLO OB5 K OB2 K IC OSA TP K OB6 1E18 OTF	OFLO OTF 05 06 05 OFLO 06 ND 1E18 E2 E3 OB5 OB3 K	06 K TP 03 05 05 06 OB6 OTF E3 06 OB3 K	03 04 E2 PE TP K OB4 K OE18 06 03 07	PE E3 E1 E2 E2 06 OSA 03 06 07	
	260	OSA 1E18 1SA PE OSA 1E18 1SA 06 OSA OTF 1SA 03 OSA OTF	K OTF TX E1 CR6 OTF TX 03 AK K TX PE AK K	OB3 K AK PS K K AK E1 CR6 K CR5 E1 E1 CR6 K	OFLO K E OE18 05 K CR5 PS K E E3 K K	05 ND OSA PE E OE18 05 IC OSA TP ND OE18 PS 05	TP OB6 1E18 TP K IC OSA TP ND OE18 OSA E3 TP E3	E2 05 OB5 OTF E2 E3 ND 1E18 E2 OB5 OSA E3 05 E3 05	E3 06 K E3 OB4 OTF OE18 06 OB4 1E18 OTF OE18 05 05 05	OE18 06 08 OE18 OB4 K OSA 06 OTF OSA 1E18 06 1E18 06 1E18	OSA 03 OSA 09 1E18 09 K 06 K 1E18 06 1E18	
	261	1SA 03 .	TX PE .	CR5 E1 .	E E2 .	IC PS .	ND OE18 .	OB5 OSA .	OB4 1E18 .	OFLO OTF .	06 K .	
	262	K and test, zero side.										
		1SA 03 .	TX PE KIOX TX PE *TD TX 06 .	AK TP .	CR5 E1 *TD CR5 E1 .	E PS PS E PS .	IC OE18 .	OB5 OSA .	OB4 1E18 .	OFLO 1TF .	06 K .	
		1SA 03 .	TX PE *TD TX 06 .	AK TP .	CR5 E1 .	E PS .	IC OE18 .	OB5 OSA .	OB4 1E18 .	OFLO 1TF .	06 K .	
		1SA OFLO K .	TX 06 OFLO .	CR5 03 *GPR .	E PE .	IC E1 *TD .	ND PS PS *FBH .	OB5 OE18 E3- .	OB4 OSA OFLO .	OB3 1E18 .	OB2 1TF OFLO E2- .	07

	1SA OB2 K .	TX OFLO 08 OFLO	AK 06 AKA .	CR5 03 .	E PE *TD .	IC PS PS .	ND OE18 .	OB5 OSA OFLO .	OB4 1E18 .	OB3 1TF OFLO .	
263	1SA OFLO 1TF .	TX 06 K OFLO .	CR6 03 .	E PE OBN OFLO .	ND E1 .	OB6 CR3 *TD PE .	OB5 PS PS .	OB4 OE18 .	OB3 1SA *GPR- E3- .	OB2 1E18 E1 .	11
	*FH 1SA PE AKA 1SA PS *TO PE 1SA PE .	TX E1 .	AK PS *TO CR6 OE18 .	CR6 CR3 PS E OSA *GPR- E3- E OE18 .	E OE18 .	ND OSA OFLO 1TF .	OB6 1E18 .	OFLO 1TF PE 03 .	06 K PE .	03 .	04
	1SA PE .	TX E1 *TD *FBH	AK PS PS E3- .	CR5 PS PS E3- .	E OE18 .	IC OSA *GPR- *FH E2- .	ND 1E18 E1 E2- .	OB6 OFLO K OFLO .	06 K OFLO .	03 CR65 PE .	09
264	1SA 06 .	TX 03 OB6 .	AK PE .	CR5 E1 *TD .	E PS PS .	IC OE18 .	ND OSA OB5 .	OB6 1E18 .	OB5 1TF OB3- .	OB4 K .	08
	OB2- 1SA OB2 1E18 .	TX OFLO 1TF OFLO .	AK 06 K .	CR5 03 .	E PE AKA .	IC E1 .	ND E3 *TD .	OB5 PS PS .	OB4 OE18 .	OB3 OSA OFLO .	05
	1SA OB2 1E18 .	TX OFLO 1TF OFLO .	AK 06 K .	CR5 03 .	E PE AKA .	IC E1 .	ND E2 *TD .	OB5 PS PS .	OB4 OE18 .	OB3 OSA OFLO .	05
	1SA OE18 .	TX OSA .	CR6 1E18 .	E 1TF .	OB6 K .	OB6 K .	03 ND- .	E2 .	E3 *TD .	PS PS .	02
265	1SA 03 K	TX PE .	CR5 TP KTP	E E1 .	IC E2 *TD	ND PS PS	OB5 OE18 .	OB4 OSA .	OFLO 1E18 .	06 1TF .	

Tape  
stopsMarker  
number

266	MC or test, one side. Logic for one side MC is on boards 215, 216, 217, 206, 401, 402.									
	OSA	TX	E	K	ND	05	OE18	1SA	1E18	1TF
	MC	.	01	.	.	.	.	.	.	.
	1SA	B2	MC	06	03	OE18	1SA	1E18	1TF	MC
	.	01	.	.	.	.	.	.	.	.
	OSA	TX	E	K	06	OE18	1SA	1E18	1TF	MC
	.	.	.	.	.	.	.	.	.	.
	1SA	MC	05	03	OE18	1SA	1E18	1TF	MC	02
	OSA	TX	CR7	CR6	E	K	06	05	04	OE18
	1SA	1E18	1TF	MC	.	03	.	.	.	.
	1SA	MC	03	02	ND	B2	OE18	1SA	1E18	1TF
	MC	.	03	.	.	.	.	.	.	.
	OSA	B6	B2	C7	C6	E	K	06	05	OE18
	1SA	1E18	1TF	MC	.	04	.	.	.	.
	1SA	B4	MC	04	03	02	OE18	1SA	1E18	1TF
	MC	.	04	.	.	.	.	.	.	.
	OSA	B6	E	K	05	04	03	02	TSO	OE18
	1SA	1E18	1TF	MC	.	05	.	.	.	.
	1SA	TX	MC	06	TP	OE18	1SA	1E18	1TF	MC
	.	05	.	.	.	.	.	.	.	.
267	OSA	TX	E	K	06	05	04	03	02	OE18
	1SA	1E18	1TF	MC	.	06	.	.	.	.
	1SA	MC	OE18	1SA	1E18	1TF	MC	.	06	.
	OSA	E	04	OE18	1SA	1E18	1TF	MC	.	07
	1SA	AK	D	K	MC	OFLO	PE	OE18	1SA	1E18
	1TF	MC	.	07	.	.	.	.	.	.
	OSA	TX	AK	D4	D2	OB4	OB2	05	04	OE18
	1SA	1E18	1TF	MC	.	08	.	.	.	.
	1SA	B2	D3	D1	D	E	K	MC	OB3	03
	02	OE18	1SA	1E18	1TF	MC	.	08	.	.
	OSA	TX	E	K	06	05	02	OE18	1SA	1E18
	1TF	MC	.	09	.	.	.	.	.	.
	1SA	MC	04	03	OE18	1SA	1E18	1TF	MC	09
	OSA	K	E	05	04	B6	TSO	C7	C6	OE18
	1SA	1E18	1TF	MC	.	10	.	.	.	.
	1SA	06	03	MC	OE18	1SA	1E18	1TF	MC	10
268	MC and test, one side.									
	1SA	B2	CR7	CR6	D4	D2	E	MC	OB4	OB2
	05	03	OE18	1SA	1E18	OTF	MC	.	01	OMD
	OW	K06	E	.	.	.	.	.	.	.
	1SA	AK	D	MC	ND	OFLO	06	03	02	PE
	TSO	C7	C6	OE18	1SA	1E18	OTF	MC	.	01
	.	07	KSUO	KED2	K-	.	.	.	.	.



1SA	B6	CR7	CR6	C7	C6	D4	D2	E	MC
ND	OB4	OB2	OE18	1SA	1E18	OTF	MC	.	02 OW
.	06 OY	E	.	.	.	.	.	.	.
1SA	TX	B4	MC	05	04	03	02	OE18	1SA
1E18	OTF	MC	.	02 TX	MC	04 ORB	K065	05	.
1SA	B6	B2	C7	C6	MC	ND	04	03	02
OE18	1SA	1E18	OTF	MC	.	03 04	.	02 OW	05A-
05-	.	09 OEL	02	.	.	.	.	.	.
1SA	AK	B2	CR7	D	MC	ND	OFLO	03	02
PE	OE18	1SA	1E18	OTF	MC	.	03 CR7	.	02 OW
05A-	05-	.	07 KSUO	KED2	K-	.	10 OD	.	.
269 1SA	AK	B2	CR6	D	MC	ND	OFLO	03	02
PE	OE18	1SA	1E18	OTF	MC	.	03 CR6	.	02 OW
05A-	05-	.	07 KSUO	KED2	K-	.	10 OD	.	.
1SA	TX	AK	B4	D	MC	OFLO	03	02	PE
OE18	1SA	1E18	OTF	MC	.	03 NDX-	.	04 04-	.
KSUO	KED2	K-	.	10 OD	06-	.	.	.	07
1SA	B4	C7	MC	04	03	02	OE18	1SA	1E18
OTF	MC	.	04 C7	.	02 OW	05A-	05-	.	09 OEL
02	.	.	.	.	.	.	.	.	.
1SA	B4	C6	MC	04	03	02	OE18	1SA	1E18
OTF	MC	.	04 C6	.	02 OW	05A-	05-	.	09 OEL
02	.	.	.	.	.	.	.	.	.
1SA	B6	MC	04	03	02	OE18	1SA	1E18	OTF
MC	.	04 TOP	.	02 OW	05A-	05-	.	09 OEL	02
1SA	B4	B2	MC	04	03	02	OE18	1SA	1E18
OTF	MC	.	04 B2	.	01 OMD	06-	.	02 OW	05A-
05-	.	09 OEL	02	.	.	.	.	.	.



272	1SA		TX	B4	MC	03	OE18	1SA	1E18	OTF	MC
	1SA	09	04X	.	.	.	.	.	.	.	.
	1SA		E	06	03	MC	OE18	1SA	1E18	OTF	MC
	1SA	10	OD	E	.	.	.	.	.	.	.
	1SA		06	05	03	MC	OE18	1SA	1E18	OTF	MC
	1SA	10	OD	05	02	OW	06	.	.	.	.
	1SA		06	04	03	MC	OE18	1SA	1E18	OTF	MC
	1SA	10	OD	04	01	NDX	TXF	B2-	09	OEL	06
	1SA		06	MC	OE18	1SA	1E18	OTF	MC	.	10
	03-		.	0Y	06	.	.	.	.	.	.
	1SA		06	03	B6	MC	OE18	1SA	1E18	OTF	MC
	1SA	10	T32	B6	01	NDX	TXF	B2-	.	.	.
	1SA		06	03	TSO	MC	OE18	1SA	1E18	OTF	MC
	1SA	10	T32	TSO	01	NDX	TXF	B2-	.	.	.
	1SA		06	03	C7	MC	OE18	1SA	1E18	OTF	MC
	1SA	10	C7	.	01	NDX	TXF	B2-	.	.	.
	1SA		06	03	C6	MC	OE18	1SA	1E18	OTF	MC
	1SA	10	C6	.	01	NDX	TXF	B2-	.	.	.
273	MC or test,	zero side.	Logic for zero	side	MC is	on boards	214, 215,	217, 216.			
	OSA	K	MC	03	02	TP	OE18	OSA	1E18	OTF	
	MC	.	01	.	.	.	.	.	.	.	.
	1SA	B5	B3	06	05	OE18	OSA	1E18	OTF	MC	
	OSA	01	B5	B3	E	K	MC	06	05	OE18	OSA
	1E18		OTF	MC	.	02	.	.	.	.	.
	1SA		03	02	TP	OE18	OSA	1E18	OTF	MC	02
	OSA		TX	AK	D4	D2	MC	03	OB4	OB2	05
	04		OE18	OSA	1E18	OTF	MC	03	03	03	OE18
	1SA		B2	B3	D	E	K	OB3	.	.	.
	OSA		1E18	OTF	MC	.	03	.	.	.	.
	OSA		E	MC	OE18	OSA	1E18	OTF	MC	04	1E18
	1SA		AK	D	K	OFLO	04	PE	OE18	OSA	.
	OTF		MC	.	04	.	.	.	.	.	.

Tape stops

Marker number

274	MC and test, zero side.									
1SA	TX	B5	B3	D4	D2	D1	OB4	OB2	06	
05	TP	OE18	OSA	1E18	1TF	MC	.	01	KTP	.
1SA	TX	D4	D2	D1	OB4	OB2	06	05	TP	
OE18	OSA	1E18	1TF	MC	.	02	ORB	01	KTP	TP
1SA	AK	B5	D	OFLO	04	03	02	01	PE	TP
OE18	OSA	1E18	1TF	MC	.	02	B5	01	KTP	TP
.	04	KSUO	KED2	K-	.	.	.	.	.	.
1SA	AK	B3	D	OFLO	04	03	02	01	PE	TP
OE18	OSA	1E18	1TF	MC	.	02	B3	01	KTP	TP
.	04	KSUO	KED2	K-	.	.	.	.	.	.
1SA	TX	B5	B3	D3	OB4	OB2	06	05	03	
02	TP	OE18	OSA	1E18	1TF	MC	.	03	OCT	01
KTP	TP	.	.	.	.	.	.	.	.	.
1SA	B2	D3	D	E	K	OB3	OE18	OSA	1E18	
1TF	MC	.	03	OL4	.	01	KTP	K	.	.
275	1SA	B2	D4	D	E	K	OB3	03	02	OE18
OSA	1E18	1TF	MC	.	03	D43-	.	01	KTP	K
1SA	B2	D3	D2	D	E	K	OB3	03	02	
OE18	OSA	1E18	1TF	MC	.	03	D2	01	KTP	K
1SA	B2	D3	D1	D	E	K	OB3	01	03	02
OE18	OSA	1E18	1TF	MC	.	03	D1	01	KTP	K
1SA	B5	B3	OFLO	06	05	04	PE	TP	OE18	
OSA	1E18	1TF	MC	.	04	KSUO	.	01	KTP	TP
1SA	AK	D	K	OFLO	03	02	PE	OE18	OSA	
1E18	1TF	MC	.	04	04-	01	KTP	K	02	ORB
K065	K	.	.	.	.	.	.	.	.	.
1SA	AK	D	K	04	03	02	OE18	1SA	1E18	
1TF	MC	.	04	ERR-	.	01	KTP	K	02	ORB
K	.	.	.	.	.	.	.	.	.	.
276	PE or test, one side. Logic for one side PE is on boards 206, 208, 209, 210, 211, 213, 214, 406.									
OSA	TX	C7	C6	D	K	MC	PP	OE18	1SA	
1E18	1TF	PE	.	01	.	.	.	.	.	
1SA	B2	PE	TP	E4	OE18	1SA	1E18	1TF	PE	
.	01	.	.	.	.	.	.	.	.	
OSA	B2	C6	D	E	K	TP	OE18	1SA	1E18	
1TF	PE	.	.	.	.	.	.	.	.	
1SA	TX	C7	MC	MN	PE	PN	PP	E4	OE18	
1SA	1E18	1TF	PE	.	02	.	.	.	.	
OSA	B2	C7	D	E	K	TP	OE18	1SA	1E18	
1TF	PE	.	.	.	.	.	.	.	.	
1SA	TX	C6	MC	MN	PE	PN	PP	E4	OE18	

	1SA OSA OB4	1E18 AK OB3	1TF B4 TP	PE B3 OE18	03 B2 1SA	B1 1E18	CP7 1TF	C7 PE	DSP .	04 .	IP .
277	1SA O2 OSA OB4 1SA O2 OSA 1E18 1SA PE OSA OB4 1SA E4	B6 PE AK OB3 B6 PE B2 1TF TX .	C7 PN B4 TP C6 PN D PE MC .	D E4 B3 OE18 D E4 E .	K OE18 B2 1SA K OE18 K .	MC 1SA B1 1E18 MN 1SA MN .	MN 1E18 CP7 1TF MN 1E18 PN .	ND 1TF C7 PE ND 1TF TP .	OB2 PE DSP .	04 .	04 IP .
					06 PP	E4	OE18	1SA	1E18	1TF	
		06 AK OB3 B6 OE18	B4 PN D 1SA	B3 TP K 1E18	B2 OE18 MC 1TF	B1 1SA ND PE	CP7 1E18 OB2 .	DSP 1TF O4 .	IP PE O2 .	MN .	07 PE .
278	OSA O4 1SA K 1TF OSA MC PE 1SA PE OSA 1SA 1SA E 1SA	AK OE18 B4 OB4 PE AK ND .	B6 1SA B3 OB3 .	C7 1E18 B2 O2 .	C6 1TF B1 PE .	D8 PE CP7 TP .	D7 .	MC .	ND .	OB2 .	
			08 B4 OB2	B3 O4	B2 O2	B1 TP	CP7 TP .	DSP E4 .	D OE18 .	E 1SA .	IP 1E18 .
		09 B6 E4 AK 1E18 B4 IP 1E18	CP7 OE18 B6 1TF B3 K 1TF	DSP 1SA C7 PE B2 OB4 PE	D 1E18 C6 .	E 1TF MC .	IP PE ND .	OB2 .	OB4 .	04 OE18 .	03 OB3 .
					10 B1 OB3	CP7 O2	DSP PE .	D8 TP .	D7 E4 .	D OE18 .	
279	OSA OB2 1SA OB4 OSA 1E18 1SA .	AK O4 B6 OB3 B2 1TF TX .	B4 O2 CP7 PE C7 PE PE	B3 TP DSP E4 C6 .	B2 OE18 D8 OE18 D .	B1 1SA D7 1SA K .	C7 1E18 D 1E18 MC .	C6 1TF E 1TF E4 .	MC PE IP PE OE18 .	ND .	11 K .
		12 B4 OB4 TX PP	B3 OB3 AK TP	B2 E4 B6 OE18	B1 OE18 D 1SA	CP7 1SA IP 1E18	C7 1E18 K 1TF	C6 1TF OB2 PE	DSP PE .	MC .	13 MC .
										13 O2 .	

**Tape stops**      **Marker number**

280	PE and test, one side.										
	1SA	B2	PE	PP	TP	E4	OE18	1SA	1E18	OTF	
	PE	.	01 PP	.	12 *ER	E4	.	.	.	.	
	1SA	TX	PE	TP	E4	OE18	1SA	1E18	OTF	PE	
	.	01 TXF	.	12 *ER	E4	.	.	.	.	.	
	1SA	AK	B6	B2	IP	K	OB2	04	02	PE	
	TP	E4	OE18	1SA	1E18	OTF	PE	.	01 K	.	
	1SA	TX	MC	MN	PE	PN	PP	E4	12 OE18	1SA	
	1E18	OTF	PE	.	02 C7-	.	03 C6-	.	12 *ER	E4	
	1SA	TX	C7	MC	PE	PN	PP	E4	12 OE18	1SA	
	1E18	OTF	PE	.	02 MNA-	.	06 PN	.	12 *ER	E4	
	1SA	AK	B2	C7	IP	K	MN	MN	PE	PN	
	E4	OE18	1SA	1E18	OTF	PE	.	02 K	.	01 K	
	1SA	TX	C7	C6	E	MC	MN	PE	PN	PP	
	E4	OE18	1SA	1E18	OTF	PE	.	02 E	.	03 E	
	.	12 *ER	E4	.	.	.	.	.	.	.	
281	1SA	TX	C7	MN	PE	PN	PP	TP	E4	OE18	
	1SA	1E18	OTF	PE	.	02 MMPT	.	12 *ER	E4	1SA	
	1SA	TX	C6	MC	PE	PN	PP	E4	12 OE18	E4	
	1E18	OTF	PE	.	03 MNA-	.	06 PN	.	12 *ER	PN	
	1SA	AK	B2	C6	IP	K	MC	MN	PE	01 K	
	E4	OE18	1SA	1E18	OTF	PE	.	03 K	.	OE18	
	1SA	TX	C6	MN	PE	PN	PP	TP	E4	.	
	1SA	1E18	OTF	PE	.	03 MMPT	.	12 *ER	E4	02	
	1SA	B6	D	K	MC	MN	ND	OB2	04	03 C7-	
	PE	PN	E4	OE18	1SA	1E18	OTF	PE	.	04	
	.	05 C6-	.	13 *ER	E4	.	.	.	.	.	
	1SA	B6	C7	D	K	MC	ND	OB2	04	02	
	PE	PN	E4	OE18	1SA	1E18	OTF	PE	.	04 MNA-	
	.	07 PN	.	13 *ER	E4	.	.	.	.	.	
282	1SA	B6	C7	C6	D	K	MC	MN	OB2	04	
	02	PE	PN	E4	OE18	1SA	1E18	OTF	PE	.	04
	ND-	.	02 K	.	03 K	.	05 ND-	.	13 *ER	E4	
	1SA	TX	AK	B6	C7	E	IP	MC	MN	ND	
	OB2	04	02	PE	PN	PP	E4	OE18	1SA	1E18	
	OTF	PE	.	04 KIOP	.	02 E	.	12 *ER	E4	.	
	1SA	B6	C7	D	K	MN	ND	OB2	04	02	
	PE	PN	TP	E4	OE18	1SA	1E18	OTF	PE	.	04
	MMPT	.	13 *ER	E4	.	.	.	.	.	.	
	1SA	B6	C6	D	K	MC	ND	OB2	04	02	
	PE	PN	E4	OE18	1SA	1E18	OTF	PE	.	05 MNA-	
	.	07 PN	.	13 *ER	E4	.	.	.	.	.	

	1SA		AK	B6	C6	E	IP	MC	MN	ND	
	OB2		02	PE	PN	PP	E4	OE18	1SA	1E18	
	OTF		.	05	KIOP	E	.	*ER	E4	.	
283	1SA	B6	C6	D	K	MN	ND	OB2	04	02	
	PE	PN	TP	E4	OE18	1SA	1E18	OTF	PE	.	05
	MMPT	.	*ER	E4	.	.	.	.	.	.	
	1SA	B6	C7	C6	D	K	MC	MN	ND	OB2	
	04	02	PE	E4	OE18	1SA	1E18	OTF	PE	.	05
	PN-	.	MNA	.	*ER	E4	.	.	.	.	
	1SA	TX	C7	C6	MC	MN	PE	PP	E4	OE18	
	1SA	1E18	OTF	PE	.	MNA	.	*ER	E4	.	
	1SA	AK	B2	IP	K	MC	PE	E4	OE18	1SA	
	1E18	OTF	PE	.	K	.	K	.	.	.	
	1SA	TX	E	MC	PE	PP	E4	OE18	1SA	1E18	
	OTF	PE	.	E	.	*ER	E4	.	.	.	
	1SA	TX	PE	PP	TP	E4	OE18	1SA	1E18	OTF	
	PE	.	MMPT	.	*ER	E4	.	.	.	.	
		06		12							
284	1SA	B6	C7	C6	D	K	MC	MN	ND	OB2	
	04	02	PE	E4	OE18	1SA	1E18	OTF	PE	.	07
	MNA	.	PN-	.	*ER	E4	.	.	.	.	
	1SA	B6	D	K	MN	OB2	04	02	PE	E4	
	OE18	1SA	1E18	OTF	PE	.	ND-	.	K	.	13
	*ER	E4	.	.	.	.	.	.	.	.	
	1SA	TX	AK	B6	E	IP	MC	ND	OB2	04	
	02	PE	PP	E4	OE18	1SA	1E18	OTF	PE	.	07
	KIOP	.	E	.	*ER	E4	.	.	.	.	
	1SA	B6	D	K	ND	OB2	04	02	PE	TP	
	E4	OE18	1SA	1E18	OTF	PE	.	MMPT	.	*ER	13
	E4	.	.	.	.	.	.	.	.	.	
	1SA	B4	B3	B2	B1	CP7	DSP	D8	D	E	
	IP	K	OB4	OB3	PE	TP	E4	OE18	1SA	1E18	
	OTF	PE	.	D8	.	K	.	D7-	.	*ER	13
	E4	.	.	.	.	.	.	.	.	.	





288	1SA			AK		B6		IP		K		OB2		04		02		PE		
	PP			OE18		1SA		1E18		OTF		PE		.	13	DA-		.		12
	KA			.		.		.		.		.		.	.	.		.		.
	1SA			AK		B6		D		IP		OB2		04		02		PE		
	PP			E4		OE18		1SA		1E18		OTF		PE		.		.	13	*ER
	.	12	*ER	E4		.		.		.		.		.		.		.		.
289	PE or test, zero side. Logic for zero side PE is on board 209.																			
	OSA			B6		B5		D		PE		E4		OE18		OSA		1E18		OTF
	PE			.	01	.		.		.		.		.		.		.		.
	1SA			AK		B4		K		OE18		OSA		1E18		OTF		PE		01
	OSA			AK		B4		D		PE		OE18		OSA		1E18		OTF		PE
	.	02		.		.		.		.		.		.		.		.		.
	1SA			B6		B5		K		E4		OE18		OSA		1E18		OTF		PE
	.	02		.		.		.		.		.		.		.		.		.
290	PE and test, zero side.																			
	1SA			AK		B4		K		E4		OE18		OSA		1E18		1TF		PE
	.	01		*ER		.		.		.		.		.		.		.		.
	1SA			AK		B4		D		OE18		OSA		1E18		1TF		PE		01
	KD1			.		.		.		.		.		.		.		.		.
	1SA			B4		D		E4		OE18		OSA		1E18		1TF		PE		02
	KHRS			.		.		.		.		.		.		.		.		.
	1SA			AK		B6		K		E4		OE18		OSA		1E18		1TF		.
	PE			.	02	AKA		.	01	*ER		E4		.		.		.		.
291	05 or test, one side. Logic for one side 05 is on boards 328, 329, 330, 331, 332, 333. Logic for shorting cable 012.																			
	OSA			IC		K		OB5		TP		OE18		1SA		1E18		1TF		05
	.	01		.		.		.		.		.		.		.		.		.
	1SA			D		05		OE18		1SA		1E18		1TF		05		.	01	.
	OSA			AK		D1		OB2		OE18		1SA		1E18		1TF		05		02
	1SA			CP7		DSP		D7		D		E		K		OB4		OB3		05
	04			PP		TSO		TP		S		OE18		1SA		1E18		1TF		05
	.	02		.		.		.		.		.		.		.		.		.
	OSA			AK		D6		D5		OB2		S		OE18		1SA		1E18		1TF
	05			.	03	.		.		.		.		.		.		.		.
	1SA			CP7		DSP		D7		D1		D		E		K		OB4		OB3
	05			04		PP		TSO		TP		OE18		1SA		1E18		1TF		05
	.	03		.		.		.		.		.		.		.		.		.
	OSA			AK		D1		OB2		04		S		OE18		1SA		1E18		1TF
	05			.	04	.		.		.		.		.		.		.		.
	1SA			CP7		DSP		D7		D		E		K		OB4		OB3		05
	PP			TSO		TP		OE18		1SA		1E18		1TF		05		.	04	.
	OSA			AK		D6		D5		OB2		04		OE18		1SA		1E18		1TF
	05			.	05	.		.		.		.		.		.		.		.

Tape stops	Marker number											
	292	1SA 05	CP7 PP	DSP TSO	D7 TP	D1 S	D OE18	E 1SA	K 1E18	OB4 1TF	OB3 05	
		OSA 1E18	AK 1TF	D7 05	D6 D5	D5 D	OB2 E	TSO K	TP OB4	OE18 OB3	1SA 05	
		OE18	CP7 1SA	DSP 1E18	D4 1TF	D5 D5	E OB2	K TSO	OB4 TP	OB3 OE18	05 1SA	
		OSA 1E18	AK 1TF	CP7 05	D6 D4	D5 D	OB2 E	TSO K	TP OB4	OE18 OB3	1SA 05	
		1SA OE18	DSP 1SA	D7 1E18	D4 1TF	D5 05	E TSO	K OE18	OB4 1SA	OB3 1E18	05 1TF	
		OSA 05	AK 08	OB2	02	TSO	TP	OE18	1SA	1E18	1TF	
		1SA D	CP7 E	DSP K	D7 OB4	D6 OB3	D5 05	D4 OE18	D3 1SA	D2 1E18	D1 1TF	
		05 OSA	AK 08	D4	D3	D2	D1	OB2	TSO	TP	OE18	
		1SA	1E18	1TF	05	.	09	.	.	.	.	
	293	1SA 02	CP7 OE18	DSP 1SA	D7 1E18	D 1TF	E 05	K 1SA	OB4 1E18	OB3 1TF	05 05	
		OSA	CL5	E	04	TP	OE18	1SA	1E18	1TF	05	
		1SA	AK	D	K	05	OE18	1SA	1E18	1TF	05	
		OSA	E	TP	OE18	1SA	1E18	1TF	05	11	1E18	
		1SA	AK	CL5	D	K	05	04	OE18	1SA	1E18	
		1TF	05	.	11	.	.	.	.	.	.	
		OSA	AK	E	TP	OE18	1SA	1E18	1TF	05	.	12
		1SA	CL2	D	K	05	QC	QX	RC	OE18	1SA	
		1E18	1TF	05	.	12	.	.	.	.	.	
		OSA	AK	OB3	OB2	OP3	PP	TP	PS	OE18	1SA	
		1E18	1TF	05	.	13	.	.	.	.	.	
		1SA	D	E	K	OB4	OP2	OP1	05	04	OE18	
		1SA	1E18	1TF	05	.	13	.	.	.	.	
	294	OSA	AK	OB3	OB2	OP2	OP1	PP	OE18	1SA	1E18	
		1TF	05	.	14	.	.	.	.	.	.	
		1SA	D	E	K	OB4	OP3	05	04	TP	PS	
		OE18	1SA	1E18	1TF	05	.	14	.	.	.	
	295	05 and test, one side.										
		1SA	DSP	D	E	OB5	OB4	OB3	05	04	02	
		PP	TSO	S	OE18	1SA	1E18	OTF	05	.	01	OB5
		.	09	OSHA	OSH	K-	.	.	.	.	.	.

	1SA	CP7	D7	IC	OB2	OP2	OP1	05	TP	OE18	
	1SA	1E18	OTF	05	.	01 ICP	.	.	.	.	
	1SA	CP7	DSP	D7	D1	D	E	K	OB4	OB3	
	05	04	PP	TSO	TP	S	OE18	1SA	1E18	OTF	
	05	.	02 D1	.	03 S	.	05 04	.	.	.	
	1SA	CP7	DSP	D7	D	E	K	OB4	OB3	05	
	04	02	PP	TSO	TP	OE18	1SA	1E18	OTF	05	
	.	02 S-	.	03 D1-	.	04 04	.	09 TPA	TP	.	
	1SA	CP7	DSP	D7	D	E	K	OB4	OB3	OP3	
	05	04	02	TSO	TP	S	PS	OE18	1SA	1E18	
	OTF	05	.	02 PP-	.	09 TPA	TP	.	14 OTR	KIOS	
	OB3	.	.	.	.	.	.	.	.	.	
296	1SA	CP7	DSP	D7	D	E	K	OB4	OB3	05	
	04	02	PP	TP	S	OE18	1SA	1E18	OTF	05	
	.	02 TSO-	.	09 TPA	TP	.	.	.	.	.	
	1SA	CP7	DSP	D7	D	E	K	OB4	OB3	05	
	02	PP	TSO	TP	S	OE18	1SA	1E18	OTF	05	
	.	02 04-	.	04 S	.	05 D1-	.	09 TPA	TP	.	
	1SA	CP7	DSP	D7	D1	D	E	K	OB4	OB3	
	OP3	05	04	TSO	TP	PS	OE18	1SA	1E18	OTF	
	05	.	03 PP-	.	14 OTR	.	OB3	.	.	.	
	1SA	CP7	DSP	D7	D1	D	E	K	OB4	OB3	
	05	PP	TSO	TP	OE18	1SA	1E18	OTF	05	.	03
	04-	04	D1	.	05 S-	.	.	.	.	.	
297	1SA	CP7	DSP	D7	D	E	K	OB4	OB3	05	
	02	TSO	TP	OE18	1SA	1E18	OTF	05	.	04 PP-	
	.	09 TPA	TP	.	.	.	.	.	.	.	
	1SA	CP7	DSP	D7	D	E	K	OB4	OB3	05	
	02	PP	TP	OE18	1SA	1E18	OTF	05	.	04 TSO-	
	.	09 TPA	TP	.	.	.	.	.	.	.	
	1SA	CP7	DSP	D7	D1	D	E	K	OB4	OB3	
	05	TSO	TP	S	OE18	1SA	1E18	OTF	05	.	05
	PP-	.	.	.	.	.	.	.	.	.	
	1SA	CP7	DSP	D7	D1	D	E	K	OB4	OB3	
	05	PP	TP	S	OE18	1SA	1E18	OTF	05	.	05
	TSO-	.	.	.	.	.	.	.	.	.	
	1SA	CL2	CP7	DSP	D7	D4	D	E	K	OB4	
	OB3	05	04	02	PP	QC	QX	RC	S	OE18	
	1SA	1E18	OTF	05	.	06 D7	.	01 ICP	KDIC	K	
	E	02 TSO-	.	07 CP7	.	09 D43	.	.	12 KSU1	KED2	
	.	.	.	.	.	.	.	.	.	.	

Tape stops

Marker number

298	1SA	CP7	DSP	D	E	K	OB4	OB3	05	04	
	02	PP	TP	S	OE18	1SA	1E18	OTF	05	.	06
	TPA	.	02 TSO-	.	09 TPA	TP	.	.	.	.	
	1SA	DSP	D7	D	E	K	OB4	OB3	05	04	
	02	PP	TP	S	OE18	1SA	1E18	OTF	05	.	07
	TPA	.	02 TSO-	.	09 TPA	TP	.	.	.	.	
	1SA	CL2	CP7	DSP	D7	D6	D5	D4	D3	D2	
	D1	D	E	K	OB4	OB3	05	04	02	PP	
	QC	QX	RC	OE18	1SA	1E18	OTF	05	.	08 02A	
	.	01 ICP	KDIC	K	.	03 TSO-	.	06 D7	.	07 CP7	
	.	12 KSU1	KED2	E	.	.	.	.	.	.	
	1SA	CL2	CP7	DSP	D7	D5	D4	D3	D2	D1	
	D	E	K	OB4	OB3	05	04	PP	QC	QX	
	RC	OE18	1SA	1E18	OTF	05	.	08 D6-	.	01 ICP	
	KDIC	K	.	03 TSO-	.	06 D7	.	07 CP7	.	12 KSU1	
	KED2	E	.	.	.	.	.	.	.	.	
299	1SA	CL2	CP7	DSP	D7	D6	D	E	K	OB4	
	OB3	05	04	PP	QC	QX	RC	S	OE18	1SA	02
	1E18	OTF	05	.	08 D51	.	01 ICP	KDIC	K	KED2	
	TSO-	.	06 D7	.	07 CP7	.	09 02-	.	12 KSU1	.	
	E	.	.	.	.	.	.	.	.	.	
	1SA	CP7	DSP	D7	D6	D5	D4	D3	D2	D1	
	D	E	K	OB4	OB3	05	04	PP	TP	OE18	
	1SA	1E18	OTF	05	.	08 TPA	.	03 TSO-	.	.	
	1SA	CL2	CP7	DSP	D7	D4	D	E	K	OB4	
	OB3	05	04	02	PP	QC	QX	RC	S	OE18	
	1SA	1E18	OTF	05	.	09 D43	.	01 ICP	KDIC	K	
	.	02 TSO-	.	06 D7	.	07 CP7	.	12 KSU1	KED2	E	
	1SA	CL2	CP7	DSP	D7	D2	D	E	K	OB4	
	OB3	05	04	02	PP	QC	QX	RC	S	OE18	
	1SA	1E18	OTF	05	.	09 D2	.	01 ICP	KDIC	K	
	.	02 TSO-	.	06 D7	.	07 CP7	.	12 KSU1	KED2	E	
300	1SA	CL2	CP7	DSP	D7	D1	D	E	K	OB4	
	OB3	05	04	02	PP	QC	QX	RC	OE18	1SA	
	1E18	OTF	05	.	09 D1	.	01 ICP	KDIC	K	.	03
	TSO-	.	06 D7	.	07 CP7	.	12 KSU1	KED2	E	.	
	1SA	CP7	DSP	D7	D	E	K	OB4	OB3	05	
	04	02	TP	S	OE18	1SA	1E18	OTF	05	.	
	.	09 TPA	.	02 TSO-	.	.	.	.	.	.	
	1SA	AK	CP7	D7	IC	K	OB5	OB2	OP2	OP1	
	05	02	OE18	1SA	1E18	OTF	05	.	09 OSHA	.	10
	KSU0	KED2	0-	.	.	.	.	.	.	.	
	1SA	AK	CL5	CL2	D	K	QC	QX	RC	OE18	
	BSC	05	1E18	OTF	05	.	10 05-	.	01 ICP	KDIC	
	K	.	11 05-	.	12 KSU1	AK	.	.	.	.	



Tape stops

Marker number

304	1SA	D	E	K	OB4	OP3	OP1	05	04	TP	
	PS	OE18	1SA	1E18	OTF	05	.	14	*FTF-	OP1	13
	TPA	TP	.	.	.	.	.	.	.	.	.
	1SA	D	E	K	OB4	OP3	05	04	TP	OE18	
	1SA	1E18	OTF	05	.	14	*FTF-	PS-	.	13	TPA
305	05 or test, zero side. Logic for zero side 05 is on boards 330, 331.										
	OSA	OB2	IC	K	NC	05	04	03	TP	OE18	
	OSA	1E18	OTF	05	.	01	.	.	.	.	.
	1SA	TX	D	ND	OB5	06	OE18	OSA	1E18	OTF	
	05	.	01	.	.	.	.	.	.	.	.
	OSA	AK	E	OB2	05	QX	TP	OE18	OSA	1E18	
	OTF	05	.	02	.	.	.	.	.	.	.
	1SA	D	K	LC	OE18	OSA	1E18	OTF	05	.	02
	OSA	E	LC	OB2	05	PP	TP	OE18	OSA	1E18	
	OTF	05	.	03	.	.	.	.	.	.	.
	1SA	AK	D	K	QX	OE18	OSA	1E18	OTF	05	
	.	.	.	.	.	.	.	.	.	.	.
	OSA	03	OB3	OB2	05	TP	OE18	OSA	1E18	OTF	05
	.	.	.	.	.	.	.	.	.	.	.
	1SA	04	E	K	PP	OE18	OSA	1E18	OTF	05	04
	OSA	D	E	K	06	05	TP	OE18	OSA	1E18	
	OTF	05	.	05	.	.	.	.	.	.	.
	1SA	NC	03	02	OE18	OSA	1E18	OTF	05	.	05
	OSA	AK	B6	B5	OB2	05	OE18	OSA	1E18	OTF	
	05	.	06	.	.	.	.	.	.	.	.
306	1SA	DSP	D	E	K	OB3	TP	OE18	OSA	1E18	
	OTF	05	.	06	.	.	.	.	.	.	.
	OSA	AK	TP	E	K	OB5	OB2	06	05	02	
	OE18	OSA	1E18	OTF	05	.	07	.	.	.	.
	1SA	B2	IC	ND	04	03	OE18	OSA	1E18	OTF	
	05	.	07	.	.	.	.	.	.	.	.
	OSA	D	E	05	OE18	OSA	1E18	OTF	05	.	08
	1SA	K	OE18	OSA	1E18	OTF	05	.	08	.	.
	OSA	05	PP	OE18	OSA	1E18	OTF	05	.	09	.
	1SA	D	E	K	OB2	TP	OE18	OSA	1E18	OTF	
	05	.	09	.	.	.	.	.	.	.	.
	OSA	AK	CL2	CP4	E3	OB3	OB2	05	03	02	
	PP	OE18	OSA	1E18	OTF	05	.	10	.	.	.
	1SA	CP3	CP2	D	E	E1	E2	K	LC	OB4	
	QC	TP	OE18	OSA	1E18	OTF	05	.	10	.	.

307	05 and test, zero side.										
	1SA	TX	D	ND	06	OE18	OSA	1E18	1TF	05	
	.	01	OB5-	.	02	KSU1	KED2	K-	LC	ND	OB5
	1SA	TX	B6	B5	D	IC	K	1E18	1TF	05	.
	OB2	06	QX	TP	OE18	OSA	09	KEO	D-	.	01
	ICP	.	08	KED3	ED3	D	OB5	OB2	04	03	PP
	1SA	B2	D	K	NC	OB5	02	QX	.	01	ICP
	QX	OE18	OSA	1E18	1TF	05	04	KEO	E-	.	07
	KDIC	K	.	03	KSU0	AKA-	AK-	ED3	09	KEO	E-
	OEL	K065	K	.	08	KED3	IC	D	LC	ND	09
	1SA	TX	AK	B6	B5	B5	IC	LC	ND	08	06
	OE18	OSA	1E18	1TF	05	.	02	KSU1	.	08	KED3
	K-	.	09	KEO	.	OB5	05	PP	OE18	.	BSC
	1SA	AK	D	K	05	OB2	03	05	01	ICP	OE18
	05	1E18	1TF	05	.	05	08	08	08	KED3	KDIC
	.	02	KSU1	AK	04	KEO	E-	.	.	.	ED3
	.	09	KEO	E-	.	.	.	.	.	.	D
308	1SA	TX	B6	B5	E	IC	ND	OB2	09	06	QX
	OE18	OSA	1E18	1TF	05	.	03	KSU0	.	09	KEO
	K-	.	.	.	D	IC	LC	ND	OB2	04	06
	1SA	TX	CP3	CP2	OSA	1E18	1TF	05	.	04	KEO
	PP	QC	QX	OE18	.	.	.	.	.	.	OE18
	.	09	KEO	10	OQR	D	K	OB5	OB3	PP	KDIC
	1SA	B6	B5	D	E	.	04	09	OB2-	01	ICP
	OSA	1E18	1TF	05	E	.	09	09	OB5	OE18	OSA
	.	02	KSU1	KED2	E	.	01	02	02	02	KSU1
	1SA	DSP	D	E	K	ICP	09	09	OB2-	01	ICP
	05	.	04	PP-	01	ICP	09	09	OB2-	01	ICP
	E	.	06	OSH	05	ORB	01	01	01	01	ICP
	1SA	TX	E	NC	.	.	.	.	.	.	.
	1E18	1TF	05	.	05	ORB	01	01	01	01	ICP
	KEO	KC-	K-	.	.	.	.	.	.	.	.
309	1SA	D	IC	03	02	OE18	OSA	1E18	1TF	05	
	.	05	.	02	KED2	K-	.	OE18	OSA	1E18	
	1SA	EM	NC	04	03	02	TP	OE18	OSA	1E18	
	1TF	05	.	05	TPA	.	08	KED3	K-	06	QX
	1SA	TX	D	IC	K	LC	ND	OB2	06	08	KED3
	TP	OE18	OSA	1E18	1TF	05	.	06	OSH	.	.
	ED3	D	.	09	KEO	E-	.	.	.	.	.
	1SA	B6	B5	D	DSP	D	E	06	06	01	03
	OE18	OSA	1E18	1TF	05	.	.	04	04	04	04
	K	.	02	KSU1	KED2	E	.	04	04	04	04
	1SA	AK	B6	B5	B2	D	IC	K	LC	NC	08
	OB2	06	04	QX	OE18	OSA	1E18	1TF	05	.	.
	KED3	ED3	D	.	09	KEO	E	.	03	LC	.

Tape stops Marker number

310	1SA	B2	IC	NC	03	OE18	OSA	1E18	1TF	05	
	.	07 04A-	.	08 KED3	KC-	K-	.	1E18	1TF	05	
	1SA	B2	IC	04	03	OE18	OSA	1E18	1TF	05	
	.	07 NC-	.	08 KED3	KC-	K-	.				
	1SA	TX	IC	NC	ND	04	03	TP	OE18	OSA	
	1E18	1TF	05	.	07 TP	.	08 KED3	KC-	K-		
	1SA	TX	B6	B5	D	E	IC	K	LC	NC	
	ND	OB4	06	04	QC	QX	OE18	OSA	1E18	1TF	
	05	.	08 KED3	.	09 OB2-	.	07 OEL	.	10 CPL4	.	
	1SA	CP3	CP2	D	E	K	OB4	03	02	QC	
	OE18	OSA	1E18	1TF	05	.	10 032	.	.	.	
	1SA	CP3	CP2	CL2	D	E	K	OB4	QC	OE18	
	OSA	1E18	1TF	05	.	10 CL2	.	.	.	.	
	1SA	CP3	CP2	D	E	K	OB4	OE18	OSA	1E18	
	1TF	05	.	10 QC-	.	.	.	.	.	.	
311	X1 or test, one side. Logic for one side X1 is on boards 212, 214, 405. Logic for shorting cable 012.										
	OSA	TX	DSP	OE18	1SA	1E18	1TF	X1	.	01	.
	1SA	B2	X1	S	OE18	1SA	1E18	1TF	X1	.	01
	OSA	AK	OB4	OB2	OP1	TP	OE18	1SA	1E18	1TF	
	X1	.	02	.	.	.	.	.	.	.	
	1SA	DSP	D	E	K	OB5	OB3	OP3	OP2	X1	
	PS	OE18	1SA	1E18	1TF	X1	.	02	.	.	
	OSA	AK	OB4	OB2	OP2	TP	OE18	1SA	1E18	1TF	
	X1	.	03	.	.	.	.	.	.	.	
	1SA	DSP	D	E	K	OB3	OP3	OP1	04	X1	
	PS	OE18	1SA	1E18	1TF	X1	.	03	.	.	
312	X1 and test, one side.										
	1SA	B2	D	E	K	OB5	OB3	OP3	OP2	S	
	PS	OE18	BSC	X1	1E18	OTF	X1	.	01	X1-	.
	1SA	TX	AK	OB4	OB2	TP	X1	OE18	1SA	1E18	
	OTF	X1	.	01 XCT	.	.	.	.	.	.	
	1SA	B2	DSP	D	E	K	OB5	OB3	OP2	X1	
	S	PS	OE18	1SA	1E18	OTF	X1	.	02	*IFS	OP3
	.	01 XCT	DSP	.	.	.	.	.	.	.	
	1SA	B2	DSP	D	E	K	OB5	OB3	OP3	04	
	X1	S	PS	OE18	1SA	1E18	OTF	X1	.	02	*IFS
	OP2-	.	01 XCT	DSP	.	03 *OFS	OP1-	.	.	.	
	1SA	B2	DSP	D	E	K	OB5	OB3	OP3	OP2	
	OP1	04	X1	S	PS	OE18	1SA	1E18	OTF	X1	
	.	02 *IFS	OP1	.	01 XCT	DSP	.	03 *OFS	OP2	.	



313	1SA X1	B2 S	DSP OE18	D 1SA	E 1E18	K OTF	OB5 X1	OB3 .	OP3 02 *IFS	OP2 PS-	
	.	01 XCT	DSP	.	.	.	.	.	.	.	
	1SA S	B2 PS	DSP OE18	D 1SA	E 1E18	K OTF	OB3 X1	OP3 .	OP2 02 OB5-	X1 .	01
	XCT	DSP	.	.	.	.	.	.	.	.	
	1SA S	B2 PS	DSP OE18	D 1SA	E 1E18	K OTF	OB3 X1	OP1 .	04 03 *OFS	X1 OP3-	
	.	01 XCT	DSP	.	.	.	.	.	.	.	
	1SA X1	B2 S	DSP OE18	D 1SA	E 1E18	K OTF	OB3 X1	OP3 .	OP1 03 *OFS	04 PS-	
	.	01 XCT	DSP	.	.	.	.	.	.	.	
	1SA S	B2 PS	DSP OE18	D 1SA	E 1E18	K OTF	OB3 X1	OP3 .	OP1 03 04-	X1 .	01
	XCT	DSP	.	.	.	.	.	.	.	.	
314	1SA OE18	TX 1SA	AK 1E18	OB4 OTF	OB2 X1	OP3 .	OP1 03 OSHB	04 .	X1 .	PS .	
	1SA	B2	DSP	D	E	K	OB3	OP3	OP1	04	
	TP	X1	S	PS	OE18	1SA	1E18	OTF	X1	.	03
	TP	.	01 XCT	DSP	.	.	.	.	.	.	
315	X1 or test, zero side. Logic for zero side X1 is on board 213.										
	OSA	TX	DSP	X1	OE18	OSA	1E18	OTF	X1	.	01
	1SA	B2	S	OE18	OSA	1E18	OTF	X1	.	.	
	OSA	AK	B6	OB4	OB2	06	TSO	X1	OE18	OSA	
	1E18	OTF	X1	.	02	.	.	.	.	.	
	1SA	DSP	D	E	K	OB3	OE18	OSA	1E18	OTF	
	X1	.	02	.	.	.	.	.	.	.	
316	X1 and test, zero side.										
	1SA	B2	D	E	K	OB3	X1	S	OE18	BSC	
	X1	1E18	1TF	X1	.	01 X1	.	02 OSHB	OSH	DSP-	
	1SA	TX	AK	B6	OB4	OB2	06	TSO	OE18	OSA	
	1E18	1TF	X1	.	01 XCT	.	.	.	.	.	
	1SA	TX	AK	OB4	OB2	OE18	OSA	1E18	1TF	X1	
	.	02 OSHB	.	.	.	.	.	.	.	.	
	1SA	B2	DSP	D	E	K	OB3	06	S	OE18	
	OSA	1E18	1TF	X1	.	02 06	.	01 XCT	DSP	.	
	1SA	B6	B2	DSP	D	E	K	OB3	TSO	S	
	OE18	OSA	1E18	1TF	X1	.	02 T32	.	01 XCT	DSP	

CH 317 End of tape D. 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.

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