

**IBM**

# DIAGNOSTIC FUNCTION TEST

PART NO. 451535  
SHEET 1 OF 3  
BLOCK NO. \_\_\_\_\_

## REPRODUCTION

1401 DATA PROCESSING SYSTEM

### TEST TAPE DECKS AND SELECTION DIGITS

ORDER PART NUMBER 451270 TO OBTAIN A TEST TAPE.

THIS DOCUMENT LISTS THE TEST DECKS IN THE ORDER THAT THEY ARE WRITTEN ON THE TEST TAPE PREPARED BY THE PLANT. FOR DETAILED RUNNING PROCEDURES AND FOR ADDITIONAL INFORMATION CONCERNING THE TEST DECKS, REFER TO THE 1401 DIAGNOSTIC TEST BOOK, PART NUMBER 451396.

SELECTION DIGITS ARE REQUIRED TO RUN SOME TESTS FROM TAPE. LISTED WITH EACH TEST ARE THE SELECTION DIGITS AND THE DIGIT LOCATION CORRESPONDING TO THE TEST. WHEN RUNNING THESE TESTS FROM TAPE, ENTER ONLY THE SELECTION DIGITS THAT APPLY TO THE FEATURES ON YOUR MACHINE. REFER TO THE FIRST LOGIC BOOK TO DETERMINE THE MFI CODE OF THE FEATURES ON YOUR MACHINE.

THE FOLLOWING TABLE LISTS THE TESTS ON THE TEST TAPE. ALSO GIVEN ARE SELECTION CODES, THE SELECTION LOCATIONS, THE MACHINE FEATURE INDEX, AND THE TITLE OF THE TEST. ENTER THE SELECTION DIGITS REQUIRED TO TEST THE FEATURES ON YOUR MACHINE.

DATE	SEE INDEX	5-15-62	3-18-63	5-6-63	7-1-63	17. 10. 63		
ENG. CHG. NO.	CARD	115283	116745	117635	117628	TA 1976		

# REPRODUCTION DIAGNOSTIC FUNCTION TEST

BLOCK NUMBER	TEST TITLE	*MFI	TAPE SELECTION DIGIT AND LOCATION
5310 E	READ TEST TAPE ROUTINE	MT	NONE
5320 E	COPY TEST TAPE ROUTINE	MT	1 IN 1254
0050 B	TEST CHARACTER AND BRANCH	BA	NONE
0060 B	TEST FOR ZONE OR WM AND BRANCH	BA	NONE
0100 B	COMPARE AND BRANCH UNEQUAL	BA	NONE
0110 B	LOAD MOVE COMPARE	BA	NONE
0210 C	LOAD MOVE DIGIT ZONE	BA	NONE
0230 B	MOVE AND ZERO SUPPRESS	BA	NONE
0300 B	TRUE ADD	BA	NONE
0310 B	COMPLEMENT AND RECOMPL ADD	BA	NONE
0330 B	RESET ADD AND SUBTRACT	BA	NONE
0350 B	ZONE ADD	BA	NONE
0360 B	BRANCH OVERFLOW	BA	NONE
**0370 D	EDIT	BA	**
1000 B	READ PUNCH PRINT SPEED	BA	3 IN 1278
1010 C	PRINT WORD MARKS	BA	1 IN 1261
1020 B	RIPPLE PRINT	BA	1 IN 1261
1022 B	NUMERICAL RIPPLE PRINT	NU	3 IN 1261
1030 B	RIPPLE PUNCH	BA	1 IN 1262
**1040 B	RIPPLE READ	BA	1 IN 1263
1050 B	PRINT PUNCH	BA	1 IN 1261 & 1262
1060 B	PRINT READ	BA	1 IN 1261 & 1263
1070 B	READ PUNCH	BA	1 IN 1262 & 1263
1080 B	PRINT READ PUNCH	BA	1 IN 1261, 1262 & 1263
**2020 C	CHANNEL 9 AND 12 LATCHES	BA	1 IN 1255
**2000 C	FORMS SPACING	BA	1 IN 1255
**2005 A	SINGLE LINE SKIP	BA	1 IN 1255
**2010 B	FORMS SKIPPING	BA	1 IN 1255
2030 B	SPACE SUPPRESSION	XSS	1 IN 1255
3000 C	MOVE AND BINARY DECODE	CH	1 IN 1256
3010 C	MOVE AND BINARY CODE	CH	1 IN 1256
3020 C	PUNCH COLUMN BINARY	CH	1 IN 1256
**3030 C	READ COLUMN BINARY	CH	1 IN 1256
3040 C	BIT TEST	CH	1 IN 1256
3100 D	INDEXING AND STORE STARS	IN	1 IN 1257
3110 D	MOVE RECORD	IN	1 IN 1257
3130 D	I-STAR TRANSFER	IN	1 IN 1257
3200 D	MULTIPLY	MD	1 IN 1258

ENTER STORAGE SIZE

1.4K  
2K  
4K  
8K  
12K  
16K

BLANK IN 1251  
1 IN 1251  
4 IN 1251  
8 IN 1251  
2 IN 1251  
6 IN 1251

\*OPTIONAL FEATURES REQUIRED TO OPERATE TEST.  
\*\*READ TEST DESCRIPTION BEFORE RUNNING TEST.

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# REPRODUCTION

TEST TITLE

BLOCK NUMBER	TEST TITLE	*MFI	TAPE SELECTION DIGIT AND LOCATION
3210 B	DIVIDE	MD	1 IN 1258
3300 B	BRANCH HIGH	HL	1 IN 1259
3310 B	BRANCH LOW	HL	1 IN 1259
3320 B	BRANCH EQUAL	HL	1 IN 1259
3330 B	FIELD COMPARE	HL	1 IN 1259
3500 C	READ AND PUNCH RELEASE	FP	1 IN 1279
**3502 B	PUNCH-FEED-READ RELEASE	FP + RP	1 IN 1272 AND 1279
**3504 A	PUNCH CHECK PLANE TEST FOR PFR OPERATION ENTER	BA	1 IN 1272
**3600 E	PUNCH-FEED READ	RP	1 IN 1272
3700 B	MODIFY ADDRESS	8M, 12M, 16M	1 IN 1264
5000 C	CARD TO TAPE	MT	1 IN 1268 AND 1263
5010 C	TAPE TO PUNCH/PRINTER	MT	1 IN 1268, 1261 AND 1262
5020 C	TAPE TO TAPE	MT	1 IN 1267
5030 C	BACKSPACE SKIP	MT	1 IN 1268
5040 D	MOVE TAPE	MT	1 IN 1268
5050 D	LOAD TAPE	MT	1 IN 1268
5070 D	MOVE BINARY TAPE	MT	1 IN 1268
5080 C	VERTICAL REDUNDANCY CHECK	MT	1 IN 1268
5330 C	COMPRESSED TAPE READ AND EXPAND	CW	1 IN 1270
5500 D	729 I R G MEASUREMENT	MT	1 IN 1269
5530 B	7330 I R G MEASUREMENT	MT	1 IN 1253
9000 C	SELECT STACKER	BA	1 IN 1278
**9010 D	BRANCH ON PRINTER ERROR	BA	4 IN 1278
**9020 D	BRANCH ON PROCESS ERROR	BA	5 IN 1278
**9030 D	BRANCH ON READER ERROR	BA	6 IN 1278
**9040 C	BRANCH ON PUNCH ERROR	BA	7 IN 1278
**9100 F	CORE STORAGE WORST PATTERN	BA	1 IN 1265
**9999 B	BRANCH LAST CARD ENTER STORAGE SIZE	BA	2 IN 1278
	1.4K	BLANK	IN 1251
	2K	1	IN 1251
	4K	4	IN 1251
	8K	8	IN 1251
	12K	2	IN 1251
	16K	6	IN 1251
9200 A	STORAGE LISTING ROUTINES	BA	

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