

MOVE RECORD

REPRODUCTION

A. PURPOSE

TO TEST THE MOVE RECORD CIRCUITRY AS FOLLOWS:

1. A FIELD CHARACTERS ARE TRANSFERRED TO B FIELD.
2. WORD MARKS IN THE B FIELD ARE NOT REMOVED.
3. WORD MARKS IN THE A FIELD ARE NOT TRANSFERRED TO THE B FIELD
4. RECORD MARK IN A FIELD WILL STOP OPERATION
5. RECORD MARK IN B FIELD WILL NOT STOP OPERATION
6. GROUP MARK WORD MARK IN A FIELD WILL STOP OPERATION
7. GROUP MARK WORD MARK IN B FIELD WILL NOT STOP OPERATION
8. GROUP MARK IN A FIELD WILL NOT STOP OPERATION.

B. LOADING PROCEDURES

1. PLACE TEST IN 1402 READ HOPPER AND DEPRESS LOAD KEY.
2. A 11 IN S57 IS REQUIRED WHEN TEST IS RUN FROM TAPE.

C. PROGRAM CONTROL

1. SENSE SWITCHES

- B. ON TO REPEAT FOR SCOPING
 OFF TO CONTINUE
- C. ON TO PRINT CORRECT RESULTS
 OFF TO CONTINUE
- D. ON TO REPEAT SAME DETAIL CARD
 OFF TO CONTINUE
- E. ON TO STOP ON ERROR
 OFF TO PRINT ERROR

2. COUNTER

A COUNTER (LOCATION 967-970) IS USED TO ALLOW THE PROGRAM TO REPEAT 90 TIMES FOR EACH DETAIL CARD. WHEN SENSE SWITCH C IS ON, ONLY ONE CORRECT

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DIAGNOSTIC FUNCTION TEST

REPRODUCTION

C. CONTINUED

PRINTOUT OCCURS PER DETAIL CARD. AN ERROR TEST IS MADE EACH TIME THE PROGRAM IS REPEATED. AN ERROR PRINTOUT OCCURS FOR EACH FAILURE.

D. TEST PROCEDURE

THE A FIELD (COLUMNS 1-12) AND DUPLICATE B FIELDS (COLUMNS 21-32, AND 61-72) ARE LOADED INTO THE CORRESPONDING PRINT AREA (STORAGE LOCATIONS 201-272). THESE FIELDS IN THE PRINT AREA ARE LABELED A FIELD, B FIELD, AND RESULT IS.

THE RESULT SHOULD BE FIELD IS LOADED INTO STORAGE LOCATIONS 241-252 FROM THE A FIELD AND THEN MODIFIED TO REPRESENT THE CORRECT RESULT.

WORD MARKS ARE SET WITHIN BOTH THE A FIELD AND THE RESULT IS FIELD, AND THE A FIELD IS MOVED BY A MOVE RECORD OPERATION INTO THE RESULT IS FIELD. THE RESULT IS CHECKED FOR THE ADDITION OR REMOVAL OF WORD MARKS IN THE B (RESULT IS) FIELD. NEXT, THIS FIELD IS COMPARED TO THE RESULT SHOULD BE FIELD.

E. STOPS

920 IN STORAGE ADDRESS REGISTER:
 ERROR WITH SENSE SWITCH E ON.

F. PRINTOUTS

1. CORRECT

<u>A FIELD</u>	<u>B FIELD</u>	<u>RESULT SHOULD BE</u>	<u>RESULT IS</u>
1+111111111+E 444+4444444+E 8888+888888 E		1+111111111+ 444+4444444+ 8888+888888	1+111111111+ 444+4444444+ 8888+888888

2. ERROR

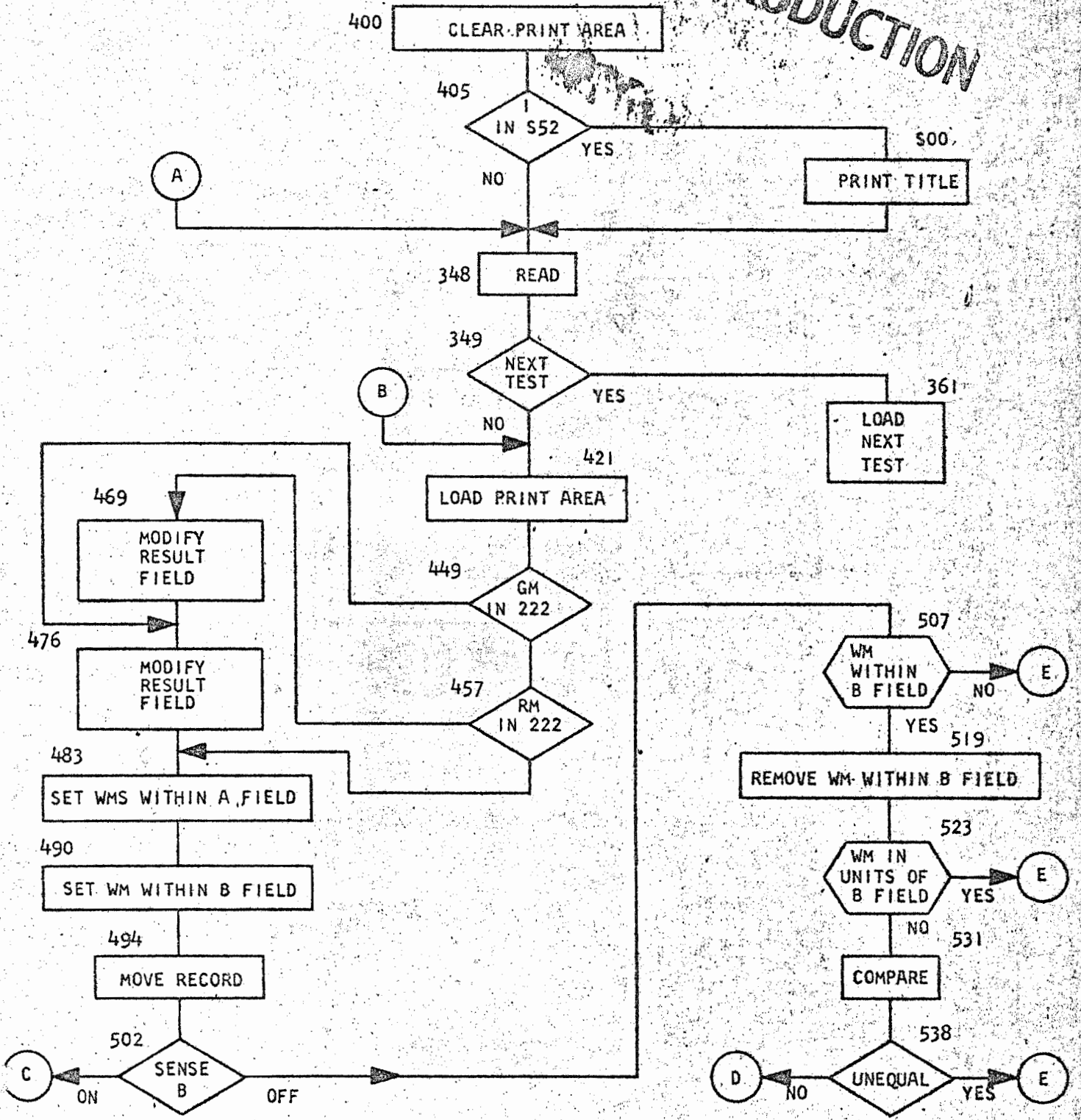
<u>A FIELD</u>	<u>B FIELD</u>	<u>RESULT SHOULD BE</u>	<u>RESULT IS</u>
1+111111111+E 444+4444444+E 8888+888888 E		1+111111111+ 444+4444444+ 8888+888888	1+ ERROR 444+ ERROR 8888+ ERROR

G. COMMENTS

THE BRANCH INSTRUCTION AT LOCATION 927 CAN BE CHANGED MANUALLY TO CAUSE THE PROGRAM TO LOOP AS FEW AS 1 OR AS MANY AS 9,000 TIMES PER DETAIL CARD. THE PROGRAM CALLS FOR 90 LOOPS PER CARD.

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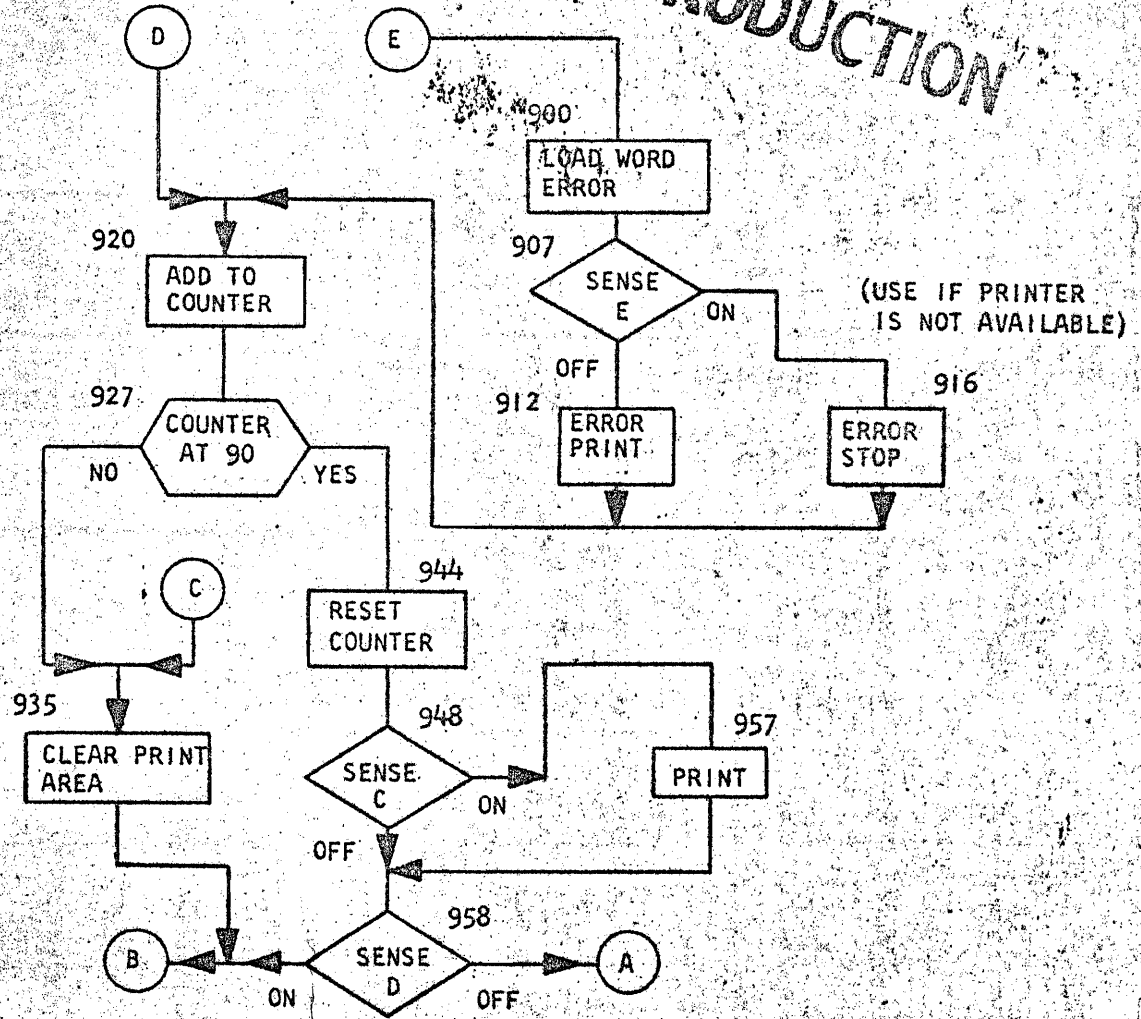
FLOW CHART



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DIAGNOSTIC FUNCTION TEST

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PROGRAM LISTING FOR USE WITH FLOW CHART

MOVE RECORD 3110D

INSTRUCTION ADDRESS	OP	A	B	REMARKS
377	377	B	389 5571	USE WHEN TESTS ARE RUN FROM TAPE
385	385	B	588	''
389	389	N	000	''
393	393	M	360 392	''
400	400	/	332	START TEST
404	404	/		''
405	405	B	500 5521	BR TO TITLE PRINT ROUTINE IF 1 IN 552
413	413	/	080	CLEAR READ AREA
417	417	B	348	BRANCH TO PROGRAM CHAINING ROUTINE
421	421	.	001 078	LOAD PRINT AREA
428	428	L	080 299	''
435	435	L	072 272	''
442	442	L	012 252	''
449	449	B	476 222	TEST FOR GM IN 222
457	457	B	469 222*	TEST FOR RM IN 222
465	465	B	483	NO GM OR RM IN 222
469	469	M	992 252	MODIFY RESULT SHOULD BE IF RM IN 222
476	476	M	989 252	MODIFY RESULT SHOULD BE IF GM IN 222
483	483	.	205 212	SET WMS IN MIDDLE OF A FIELD
490	490	.	266	SET WM IN MIDDLE OF B FIELD
494	494	P	201 261	MOVE RECORD
501	501	P		''
502	502	B	935 B	LOOP ON SW B FOR SCOPING SS
507	507	V	519 2661	CHECK FOR WM IN MIDDLE OF B FIELD
515	515	B	900	BRANCH ERROR
519	519	□	266	REMOVE WM IN MIDDLE OF B FIELD
523	523	V	900 2721	ERROR IF WM IN UNITS OF B FIELD
531	531	C	272 252	COMPARE B FIELD TO CORRECT RESULT
538	538	B	900 /	BRANCH ERROR
543	543	B	920	GO TO CORRECT ROUTINE
900	900	L	/14 285	BEGIN ERROR PRINT ROUTINE
907	907	B	916 E	E ON TO ERROR STOP SS
912	912	2	920	ERROR PRINT
916	916	.	920	ERROR STOP
920	920	A	920 970	ADD ONE TO OPERATION COUNTER
927	927	B	944 9699	BRANCH AFTER 90 OPERATIONS C FOR TA
935	935	/	332	CLEAR PRINT AREA
939	939	/		''
940	940	B	421	BRANCH TO REPEAT
944	944	S	970	RESET OPERATION COUNTER
948	948	B	957 C	C ON FOR CORRECT PRINT SS
953	953	B	958	BRANCH TO SENSE D
957	957	2		PRINT CORRECT RESULTS

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1401 DATA PROCESSING SYSTEM
DIAGNOSTIC FUNCTION TEST

4517-30
PART NO.
SHEET 6 OF 8
BLOCK NO. 31100

REPRODUCTION

958 958 B 421 D
963 963 B 971
967 967 0 00+
971 971 / 299
975 975 / 080
979 979 B 348
983 983
1110 /10 E RRO R
1115 /15
1120 /20 A FI ELD
1140 /40 B FI ELD
1160 /60 R ESU LT SHOULD BE
1180 /80 R ESU LT IS

D ON TO REPEAT
GO AND CLEAR PRINT AND READ
OPERATION COUNTER
CLEAR PRINT AREA
CLEAR READ AREA
BRANCH TO PROG. CHAINING ROUTINE

SS

CONSTANTS

''
''
''
''
''

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TABLE OF UNPRINTABLE CHARACTERS

LP-LEFT PARENTHESIS	12 5 8	SE-SEMICOLON	11 6 8	DE-DELTA	11 7 8
WS-WORD SEPARATOR	0 5 8	LT-LESS THAN	12 6 8	PZ-PLUS ZERO	12 0
TS-TAPE SEGMENT MARK	0 7 8	GT-GREATER THAN	6 8	TM-TAPE MARK	7 8
GM-GROUP MARK	12 7 8	MZ-MINUS ZERO	11 0	CO-COLON	5 8
RP-RIGHT PARENTHESIS	11 5 8	AP-APOSTROPHE	0 6 8		

,008015,022029,033033N	1001	MOVE RECORD	31100 0A
,008015,022029,033033N	1001	SET WORDMARK CARD	31100 02
L067367,340344,348349,3573611001	008012,001100118361080AB421/340080		31100 03
L069404,377385,389393,4004041001	838955718588N000M360392/332/		31100 04
L069441,413417,421428,4354421001	BS005521/080B348,001078L080299L072272		31100 05
L066475,449457,465469,4764761001	L012252B476222G8469222+B483M992252		31100 06
M			
L071514,483490,494501,5025071001	M989252,205212,266P201261PB9358V5192661		31100 07
L072554,519523,531538,5435431001	B900+266V9002721C272252B900/B920		31100 08
L071938,907912,916920,9279351001	L/14285B916E2920.920A92097089449699/332		31100 09
L056962,940944,948953,9579581001	/B421S970B957C895828421D		31100 10
L072+02,967971,975979,9799831001	B971000P/299/080B348		31100 11
Z			
L065/39+07/07,/10/15,/20/401001	ERROR A FIELD		31100 12
L072/79,/60/80,/80/80,/80/801001	B FIELD RESULT SHOULD BE		31100 13
L070S17,SC0S01,S05S12,S13S171001	RESULT IS 2,049L0772772/2772		31100 14
L059S44,S25S29,S36S37,S41S451001	+40/60+80L/892702/2702413		31100 15
/333080N	CLEAR WORDMARK CARD		31100 16
,019027,031,038042B031T98GB400L0463528W04B588	MOVE RECORD		31100 17

DETAIL CARDS

8888G0SY888GE	GGGGGGGGGGGG	GGGGGGGGGGGG	31100 18
M M	M MMMMMMMMMM	M MMMMMMMMMM	
+++++	++	++	31100 19
+GGGGGGGGGGGG	+G888	+G888	31100 20
MMMMMMMMMMMM	M	M	
8888G0SY888GE	GGGGGGGGGGGG	GGGGGGGGGGGG	31100 21
M M	M MMMMMNMMMM	M MMMMMMMMMM	
8888G0SY888GE	GHGGGGGGGGGG	GHGGGGGGGGGG	31100 22
M M	M MMMMMMMMMM	M MMMMMMMMMM	
8888G0SY888GE	+H+++++	+H+++++	31100 23
M M			
+ GE			31100 24
M			
1+11111111+E			31100 25
22+22222222GE			31100 26
M			
444+4444444+E			31100 27
8888+8888888GE			31100 28
M			
////T+////+E			31100 29
S			

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1401 DATA PROCESSING SYSTEM
DIAGNOSTIC FUNCTION TEST

451436

PART NO. 451436
SHEET 8 OF 8
BLOCK NO. 31100

REPRODUCTION

---D---GE
E M
1111G11*111+E
2222.22222+GE
M
□444G44444+E
M
8888G0SY888GE
M M

31100 30
31100 31
31100 32
31100 33
31100 34

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