

8TC20A

RECORD COUNTER SERVICE AID TEST

December 27, 1961

8TC20A - 7080 Record Counter Test

A. Purpose of Test:

This test is designed to check the proper operation of the Record Counter and its ability to decrement to zero.

B. Method of Test:

The program will select any ready tape (except zero) on any ready channel and write 999 four character records. A series of SRC operations are then performed, followed by backspace and read operations. The units, hundreds and tens position of the counter are checked in that order.

The record read after the backspace is compared to a constant as follows:

- Units position check - record 0990
- Hundreds position check - record 0090
- Tens position check - record 0001.

C. Area of Machine Required:

One ready tape on each available channel. Any tape address except zero.

D. Alteration Switches

- 911 ON - Bypass error type-out and halt.
- 913 ON - Halt on error if 911 off.
- 914 ON - Loop in program.

E. Printed Results:

A "Z" will typeout when all ready drives on all channels have been checked.

The error type-out will appear as follows:

RC - Units Position
CH - XX - XX Indicates the channel on which the failure occurred.

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CHECK PROPER DECREMENTING
OF RECORD COUNTER

000004 EEM 3 14 0000 08-0
000009 CHR 3 13 0000 08 0
000014 SPC 0000

000019 SET B 0005
000024 LOD 8 0689
000029 UNL 7 1004
000034 RCV U 1009
000039 SET B 0200
000044 SND / 1004
000049 SET B 0200
000054 SND / 2004
000059 SET B 0200
000064 SND / 3004
000069 SET B 0200
000074 SND / 4004
000079 SET B 0200
000084 SND / 5004

GENERATE WRITE FIELD
G.M.
WR FIELD G.M.
1000 (A B C D E) WR FLD
1000
1000
1000
1000

000089 SET B 0004
000094 LOD 8 0717
000099 UNL 7 1003
00104 LOD 8 0711
00109 UNL 7 1453
00114 LOD 8 0701
00119 UNL 7 5953

SET UP SPECIAL CMP CHARS
RCD #1 = 0001
RCD #90 = 0090
RCD #990 = 0990

A03.....
B03.....

000124 SET B 0004
000129 LOD 8 0721
000134 UNL 7 0139
000139 SEL 2 2001
000144 TRS 0 01 0154 01V4
000149 TR 1 0579

TAPE SELECTOR
2001
D03

000154 SET B 0002
000159 LOD 8 0137
000164 UNL 7 0744
000169 UNL 7 0771
000174 UNL 7 0794

000179 SET B 0004
000184 LOD 8 0827
000189 UNL 7 0209
000194 RAD H 01 0697 06Z7
000199 SET B 02 0006 00-6
000204 LOD 8 02 0707 07-7

1000
999
000005
ASU 02 000005 WR ADD MOD

NEXT PAGE

```

00209 WR R 1000
00214 TRS O 03 0219 02A9
00219 TRS O 0244
00224 SUB P 01 0713 0773
00229 TRZ N 01 0264 02W4
00234 ADM 6 02 0209 02-9
00239 TR 1 0209

```

↑ COUNT 999 RECORDS
 INCREASE WR ADD, BY 5

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00244 EIA , 10 0000 0--0
00249 SEL 2 0139
00254 RWD 3 0002
00259 TR 1 0579

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D03

```

00264 WR R 02 0090 00R0
00269 BSP 3 0004
00274 EIA , 10 0000 0--0
00279 SEL 2 0139
00284 TRS O 01 0294 02Z4
00289 TR 1 0284

```

SET RECORD TR TO 9
 CHECK UNITS POSITION
 DECREMENT OF
 RECORD CTR

```

00294 RCV U 0804
00299 BLM $ 0003
00304 RD Y 0800
00309 TRS O 03 0314 03A4
00314 SET B 0004
00319 LOD 8 0803
00324 CMP 4 0701
00329 TRE L 0364

```

PK MEM 15 POS 800-815

RD RCD #990

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00334 TRA I 01 0364 03W4
00339 SEL 2 0500
00344 WR R 0722
00349 TRA I 03 0359 03E9
00354 TR 1 0364
00359 HLT J 0001

```

ERROR ROUTINE
 UNITS POSITION
 CHECK

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00364 EIA , 10 0000 0--0
00369 SEL 2 0139
00374 BSP 3 0004
00379 WR R 02 9000 90-0
00384 BSP 3 0004
00389 TRS O 01 0399 03Z9
00394 TR 1 0389

```

CHECK HUNDREDS
 POSITION DECREMENT
 OF RECORD CTR

PK 900

```

00399 RCV U 0804
00404 BLM $ 0003
00409 RD Y 0800
00414 TRS O 03 0419 04A9
00419 SET B 0004
00424 LOD 8 0803
00429 CMP 4 0711
00434 TRE L 0469

```

15 POS 800-815

RD RCD #090

0090

C03

NEXT PAGE

CONSTANTS AND DATA AREA

2	004	00688	ABCD
2	001	00689	□
2	004	00693	0001
2	001	00694	
2	003	00697	&999
2	004	00701	0990
2	006	00707	000005
2	004	00711	0090
2	001	00712	
2	001	00713	&1
2	004	00717	0001
2	004	00721	2001
2	018	00739	RC-UNITS POSITION
2	005	00744	CH-XX
2	001	00745	□
2	021	00766	RC-HUNDREDS POSITION
2	005	00771	CH-XX
2	001	00772	□
2	017	00789	RC-TENS POSITION
2	005	00794	CH-XX
2	001	00795	□
2	002	00797	01
2	002	00799	10
2	002	00821	24
2	001	00822	2
2	001	00823	□
2	004	00827	1000