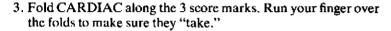
CARDIAC

ASSEMBLY INSTRUCTIONS

- 1. Remove all parts from the die cut sheet. The 5 "bugs" and the 4 input/output cards won't be needed for the assembly and should be set aside for now. Incidentally, 4 of the bugs are spares, as are 2 of the input/output cards.
- 2. Punch out all the die cut holes—including the 100 circular holes in the memory section. Be sure to punch out *all* 5 windows on the "Op Code" slide.

Holes are black with rounded edges.



Score marks are highlighted with dashed lines.

- 4. Unfold CARDIAC and lay it face down (blank side up) on a clean surface (see Fig. 1). The windows and slots should be on the lower right page. Notice the 4 sets of slots cut into the top and bottom edges of this page. These will accommodate the 4 function slides, which are to be inserted (printed sides down) in the following order:
 - A. Slip the "Op Code" slide into the 3rd pair of slots (top and bottom) from the left (see Fig. 2). This slide must be inserted first.
 - B. Slip the "Address (2)" slide into the 2nd pair of slots from the left.
 - C. Slip the "Address (1)" slide into the 1st pair of slots from the left.
 - D. Slip the "Accumulator Test" slide into the 4th pair of slots from the left.
- 5. Fold the top half of CARDIAC down over the bottom half. Check the slides for free movement and correct position (see Fig. 3). If everything is in order, run a thin bead of glue along the full length of the bottom edge of CARDIAC. Repeat this assembly on left-hand side (back of CARDIAC and memory cells). Be careful not to get any glue on the slides or the slots. Now, fold up the bottom edge and hold, or weight, it until the glue dries. Your CARDIAC should now look like Fig. 4.

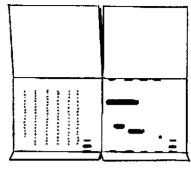


Fig. 1

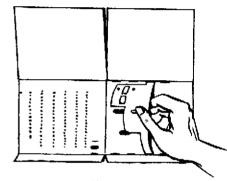


Fig. 2

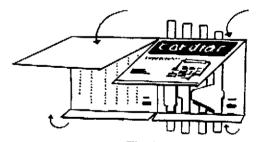


Fig. 3

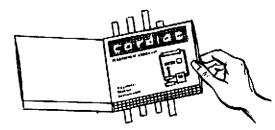


Fig. 4

AA	E	AA	\circ	D	V	С	F	1	- 1	ς
m		M	U	ĸ	1	_	_	L	L	- 3

CELL CONTEN	TS CELL CONTENT	IS CELL CONTENT	S CELL CONTENTS	CELL CONTENTS	CELL CONTENTS
00 00	1 17	34	51	68	85
01	18	35	52	69	86
02	19	36	53	70	87
03	20	37	54	71	88
04	21	38	55	72	89
05	22	39	56	73	90
06	23	40	57	74	91
07	24	41	58	75	92
08	25	42	59	76	93
09	26	43	60	77	94
10	27	44	61	78	95
11	28	45	62	79	96
12	29	46	63	80	97
13	30	47	64	81	98
14	31	48	65	82	99 8
15	32	49	66	83	
16	33	50	67	84	SYSTEM

OUTPUT -

OP CODE

Abbr. INP

CLA

ADD

TAC

SFT OUT

STO

SUB

JMP

HRS

Code

0

2

Meaning

Input

Clear and add Add

Test Accumulator contents Shift

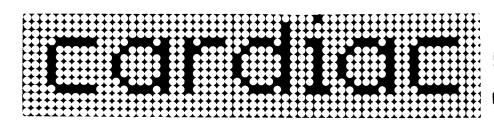
Output

Subtract Jump

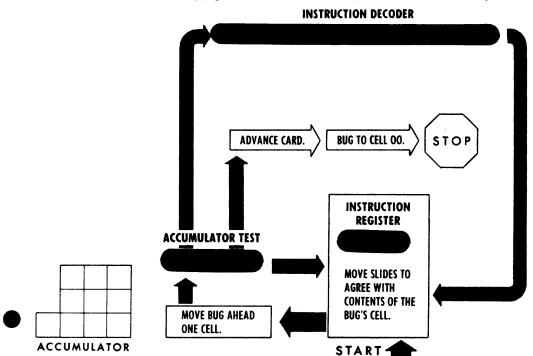
and reset

Store

Halt



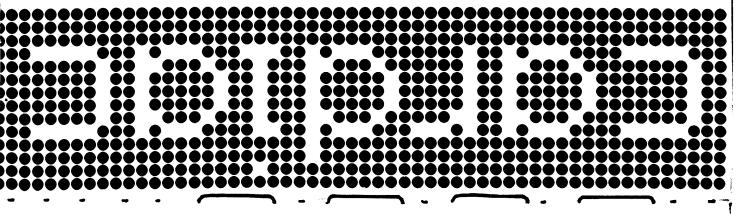
Copyright © 1966, 1968 Bell Telephone Laboratories, Incorporated



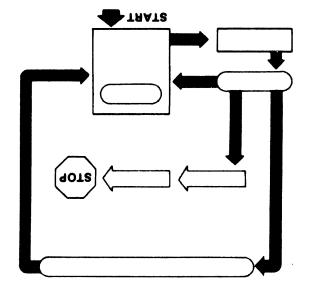


"cardiac" developed by David Hagelbarger

.



A cardboard illustrative aid to computation



Bell System Educational Aid Developed by Bell Telephone Laboratories

