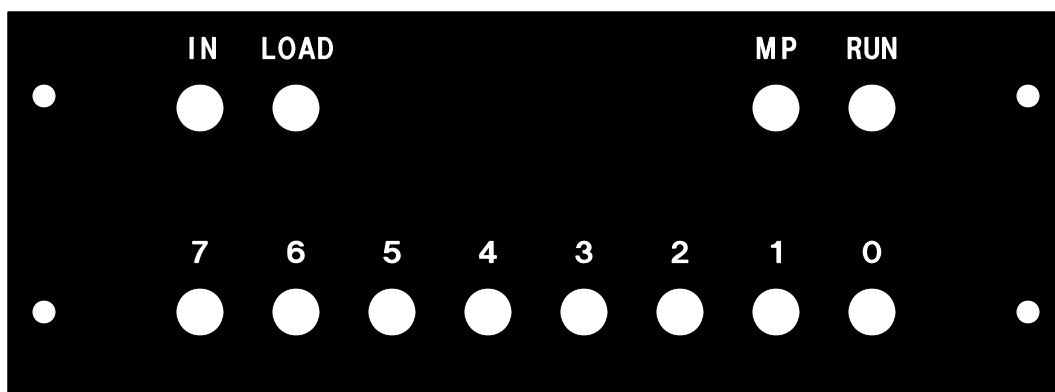


COSMAC “ELF”

Toggle Switch Panel & IC Labels

INSTRUCTIONS:

- 1) Each page of this PDF file has a single design that may be printed and used for your build of the COSMAC “ELF” computer. The software that generates these designs does not allow combining them onto a single sheet, so sorry about the wasted paper.
- 2) This PDF is intended to be printed to 100% scale on 8.5” x 11” paper or photocopier compatible plastic film. Make sure that your PDF viewer/printer software is NOT set to ‘fit to page’ or similar automatic scaling. If you are in a part of the world that does not normally use 8.5” x 11” paper, try the first page “Toggle Switch Front Panel” and print it, and measure the results; it should be exactly 5.5” wide and 2” tall. Adjust print scaling as required. Once you have that printing correctly, you can print the other pages using the same settings.
- 3) The text on the IC labels is too small to print well on paper using an inkjet printer. For best results, print using a laser printer. The IC labels will look best if printed in color; use white paper with a color laser printer, or appropriate colored paper with a regular laser printer using black toner.
- 4) For the IC labels, first mount the wire-wrap IC sockets to the “Vectorbord” (perforated board). Then print and cut out a label, place it image-side down on a piece of scrap paper, and apply permanent label adhesive to the un-printed surface. Then, using tweezers or a small needle-nosed pliers, grip the label at one end and carefully fit between the two rods of socket pins and align with the pins on the back side of the Vectorbord, and only press the label to the board when you have perfect alignment. Use the eraser end of a pencil, or similar blunt tool, to firmly press the label to the board. Repeat for other labels. Note that labels for displays IC11 & IC12 have different text orientation from the other labels.
- 5) The toggle switch panel should be made by ordering the computer engraved product from Front Panel Express in North America www.frontpanelexpress.com or Schaeffer in Germany www.schaeffer-ag.de (send them the FPD file via their free downloadable Front Panel Designer software). Alternately, print the design from this PDF and use as a template for dry-transfer lettering. Or as another option, laser print the panel image to plastic film and use permanent adhesive to attach to a pre-drilled piece of aluminum, then use a sharp modeling knife to cut the holes in the plastic to match those in the metal.



12	13	14	15	16	17	18	19	20	21	22
IC1										
11	10	9	8	7	6	5	4	3	2	1

12	13	14	15	16	17	18	19	20	21	22
IC2										
11	10	9	8	7	6	5	4	3	2	1

8	9	10	11	12	13	14
			IC3			
7	6	5	4	3	2	1

21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
IC4																			
20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1

8	9	10	11	12	13	14
			ICS			
7	6	5	4	3	2	1

9	10	11	12	13	14	15	16
8	7	6	5	4	3	2	1

9	10	11	12	13	14	15	16
8	7	6	5	4	3	2	1

8	9	10	11	12	13	14
IC8						
7	6	5	4	3	2	1

9	10	11	12	13	14	15	16
8	7	6	5	4	3	2	1

8	9	10	11	12	13	14
			IC10			
7	6	5	4	3	2	1

1 2 3 4 5 6 7
11 12 13 14 15 16 17

1 2 3 4 5 6 7

14	1
13	2
12	3
11	4
10	5
9	6
8	7