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Title:

TECHNICAL MANUAL

for

MEX703

Keywords: RC759, PICCOLINE, MEX703, Technical Manual

Abstract: This paper contains all technical information about MEX703, Memory EXpansion module to RC759.

(12 printed pages)

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1.0

Introduction

1.0

The MEX 703 (Memory EXpansion) module expands the ram memory capacity of RC759 with 512 kbytes. This module is placed as a "babyprint" inside to the central unit in connector J13 and power supplied from this connector. Figure 1 shous the installation of MEX703.

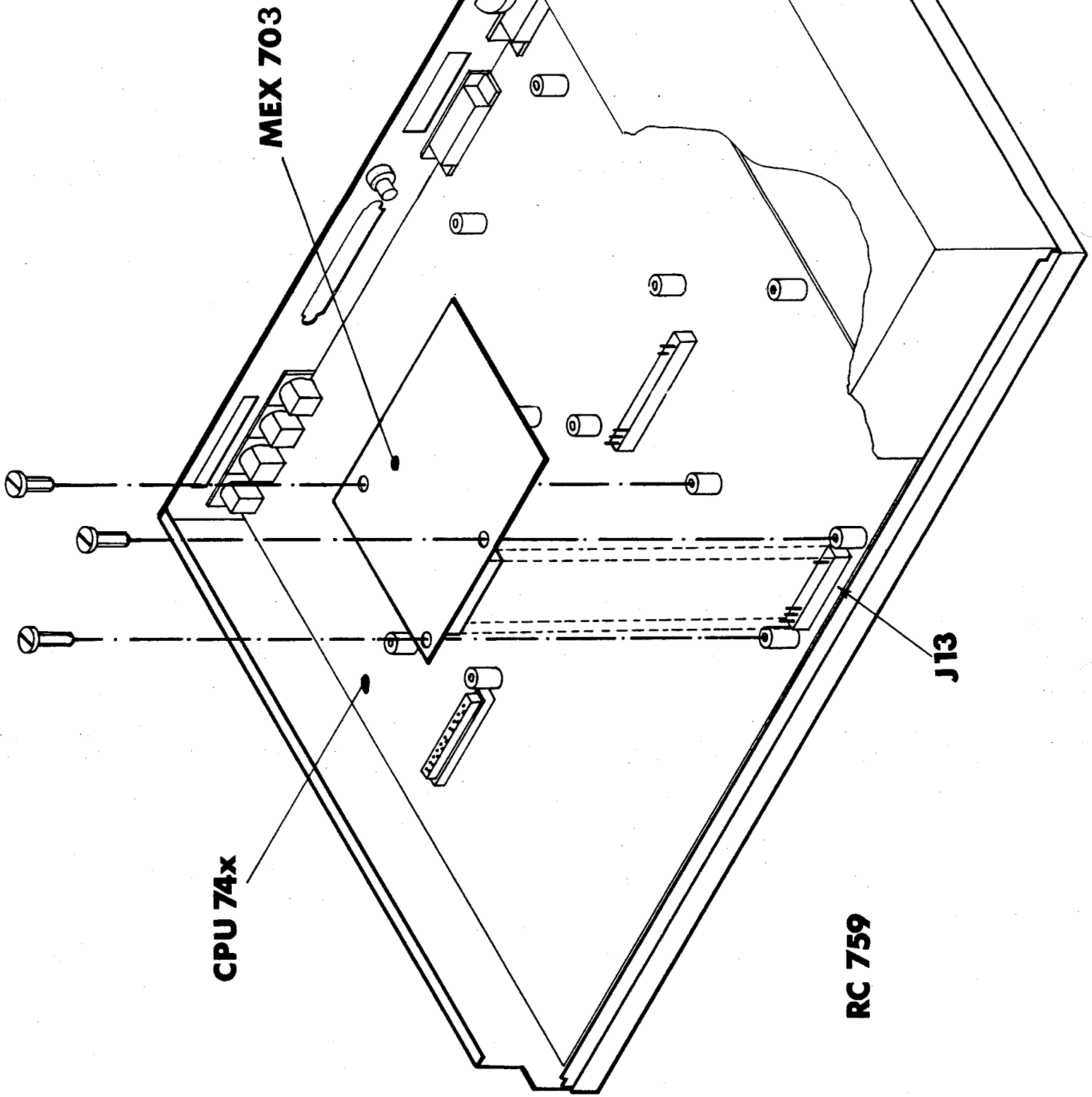


Fig. 1. Installation of MEX 702.

2.0 Technical Description

2.0

This module is placed in the memory address area 40000H - D0000H

All control circuits for the memory chips are placed on the cpu board.

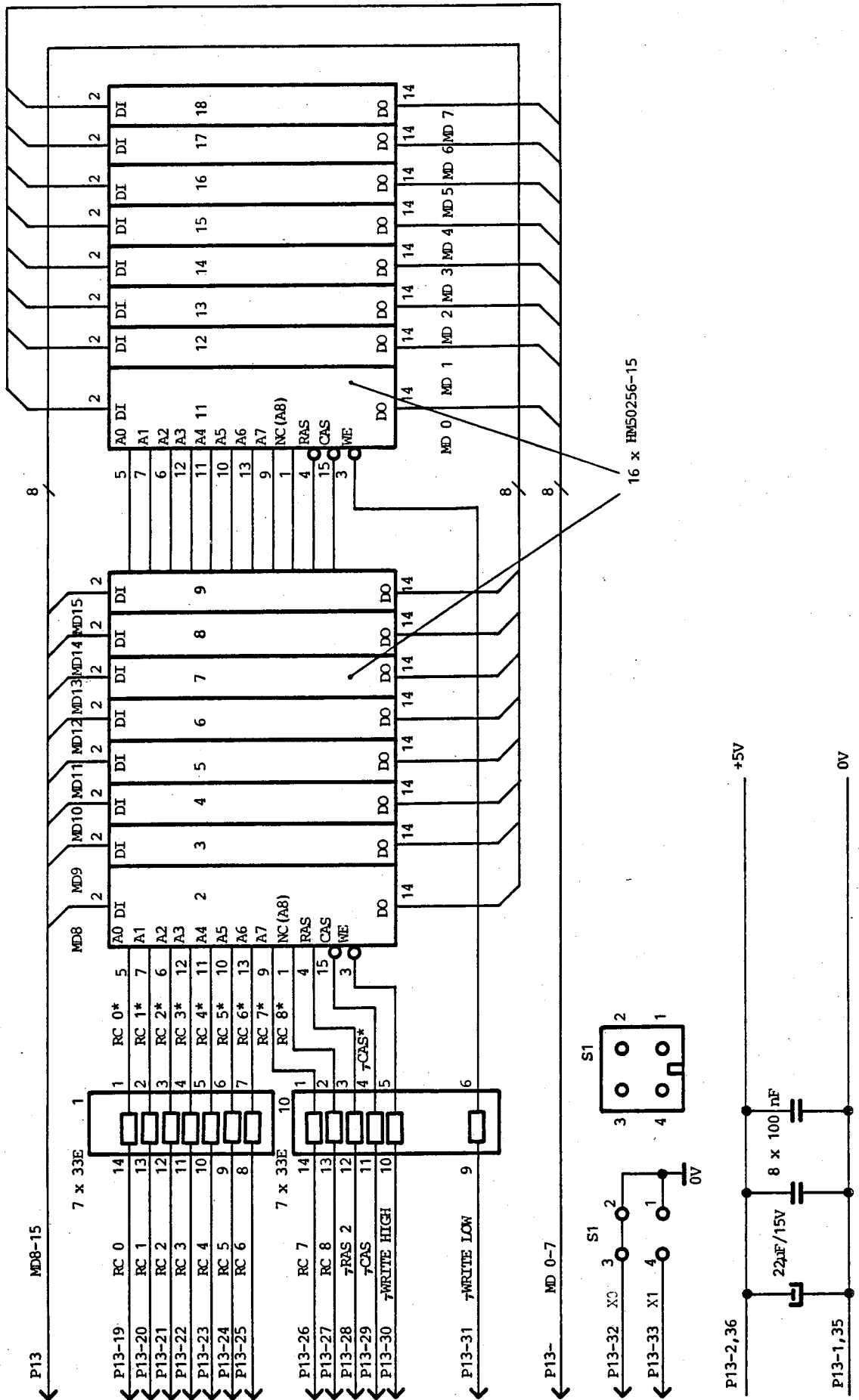
The signals X0 and X1 tells the cpu board which of extension board is installed.

X0	X1	Extension type
1	1	no extension
1	0	128 kbytes ram extension
0	1	512 kbytes ram extension
0	0	not used

fig. 2.0 Extension type table

3.0 Logic diagram

3.0



Pin number	Signal name	Description
1,35	0V	ground
2,36	+5V	power supply
3-18	MD0 - MD15	Memory Data bus bit 0-15
19-27	RC0 - RC8	Row/Column address bit 0-8. RC8 is only used by 256K x 1 bits memory chip.
28	/RAS 2	Row Address Select. Decodes the address area 40000H - D0000H.
29	/CAS	Column Address Select
30	/WRITE HIGH	WRITE Enable HIGH byte
31	/WRITE LOW	WRITE enable low byte.
32	X0	Module type indication
33	X1	

X0	X1	TYPE
1	1	no extension
1	0	128 kbytes extension
0	1	512 kbytes extension
0	0	not used

Fig. 3.0 P13 pluglist

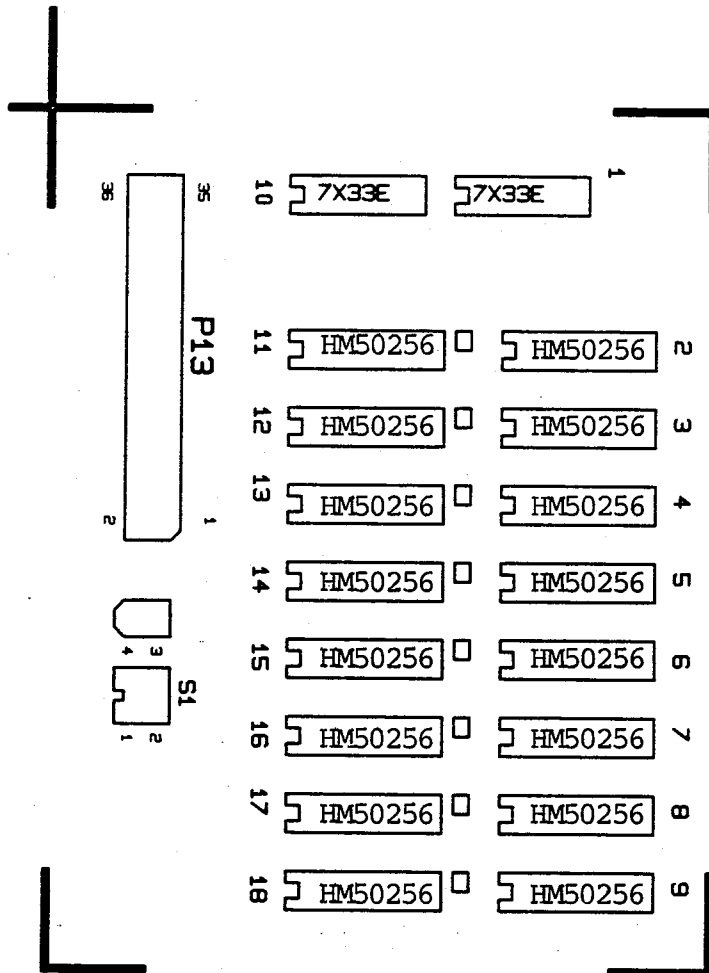


Fig. 4.0 Assembly drawing

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