RCSL No: 52-AA1216

Edition: 1983 12.11

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Title: MF018 Graphic Option to RC702/703
Installation Guide

RCSL No 42-I 2184

A/S REGNECENTRALEN
af 1979

Keywords:

RC700, RC702, RC703, MF018, hardware installation

Abstract:

This manual contains instructions on how to connect the MF018 Graphic Option on the RC702/703 microcomputer.

(18 pages)

Printed by A/S Regnecentralen af 1979, Copenhagen

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1. INTRODUCTION

1.

Receiving the MF018 Grafik option, unpack and check for shipping damages. If any, immediately contact your dealer.

The shipment should contain:

1 VPB701 Video Processor Board
1 CBL753 signal cable
1 CBL754 power cable
4 screws
1 resistor 47E 1/8 W
2 spaces
1 CBL759 service plug.

The installation should only be made by technician familiar with the Piccolo microcomputer.

WARNING

Always unplug AC power cords of equipment before any deassembling.

2. INSTALLATION GUIDE 2.

The following list should be followed carefully.

1. Unplug AC power cord

2. Remove cover (4 screws, 2 each side).

3. Remove the 2 screws, pointed out by (A) on fig. 1.

   Point 4 - 10 should only be performed on RC702.

4. Remove all screws to the main circuit board (6 screws more).

5. Remove the main circuit board, giving access to the power supply (POW739) as shown on fig. 2. Recognize how the cables are connected to the board before removing them.

6. Insert the resistor, 47E, shown on fig. 3. This resistor is soldered to the connectors of an 27E resistor.

7. Measure the voltage across the terminals to the condensator, pointed out by (a) on fig. 3.

8. If this measured voltage differs from +5V, then adjust the potentiometer, in point (B) on fig. 3, until the measured voltage is +5V.

9. Insert the main printed circuit board again together with the unplugged cables.

10. Insert the screws holding the main printed board except the 2 removed in 3.

11. Remove IC68 (AM9517A or INTEL 8237) from socket. (B on fig. 1). Do it carefully, so the pins on the IC are not damaged.

12. Cut the printed circuit line shown
    on fig. 4 if RC702 or
    on fig. 5 if RC703 or (RC702 with RC703 board).
    Be carefully not to damage other printed circuit lines except the wanted line.

13. Insert the graphic board as shown on fig. 6. Use the same type of screws, as unplugged in 3.

14. Insert the printed board connector in position 68 as shown on fig. 7. Be sure that the connector is aligned correct in the socket of the main printed board; and the connector is pushed sufficient down in the socket.

15. Insert the IC (from 11) in position 68 again. Remark the orientation of the IC.

16. Insert the power cable, CBL754 (refer to fig. 7). The red wire is soldered to the +5V terminal. The black wire is soldered to the 0V terminal.

17. Insert the signal cable, CBL 753 (refer to fig. 7.
    The brown wire (pin 1) is soldered to IC104 - pin 3.
    The red wire (pin 2) is soldered to IC71 - pin 5.
    The orange wire (pin 3) is soldered to IC92 - pin 9.
    The yellow wire (pin 4) is soldered to IC84 - pin 2.
    The green wire (pin 5) is soldered to IC71 - pin 3.

18. Reassemble cover and housing (4 screws) - make sure the ventilation holes are placed to the left (viewing the computer from the frontend).

3. CONNECTION AND CHECK – OUT 3.

Plug the AC power cards of the microcomputer and connect to the AC power supply. Power-up the system. Insert system diskette in flexible disc drive, reset the system and recognize that the system works as before installating the graphic unit.

If the check out is not successful, repeat the procedures in section 2.0 step by step.

4. PREPARATION FOR SERVICE 4.

If for some reason, the VPB702, has to be removed from the microcomputer, the testplug CBL759 should be used to terminate the signal cable CBL753.

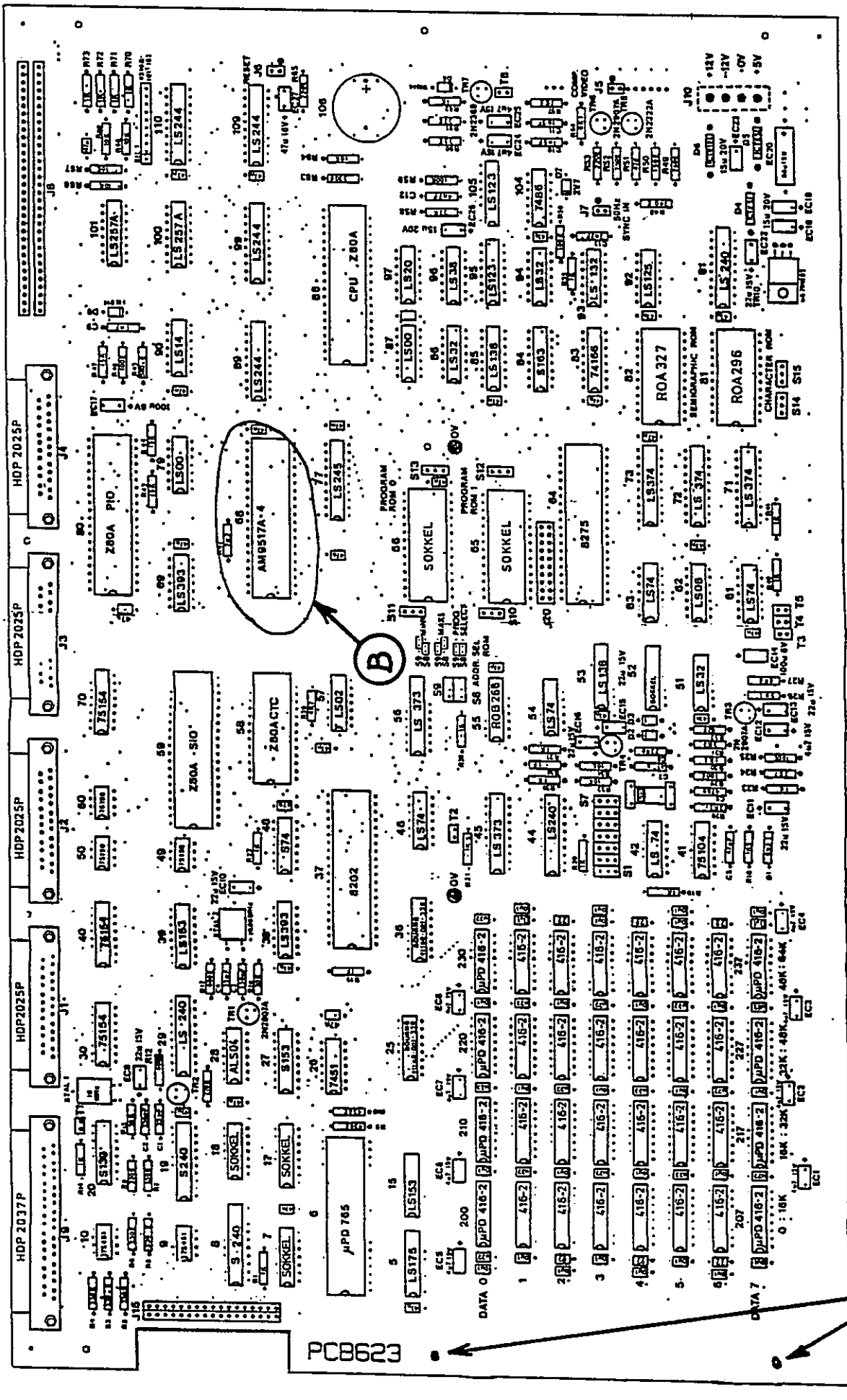


Fig. 1. The Main Circuit Board

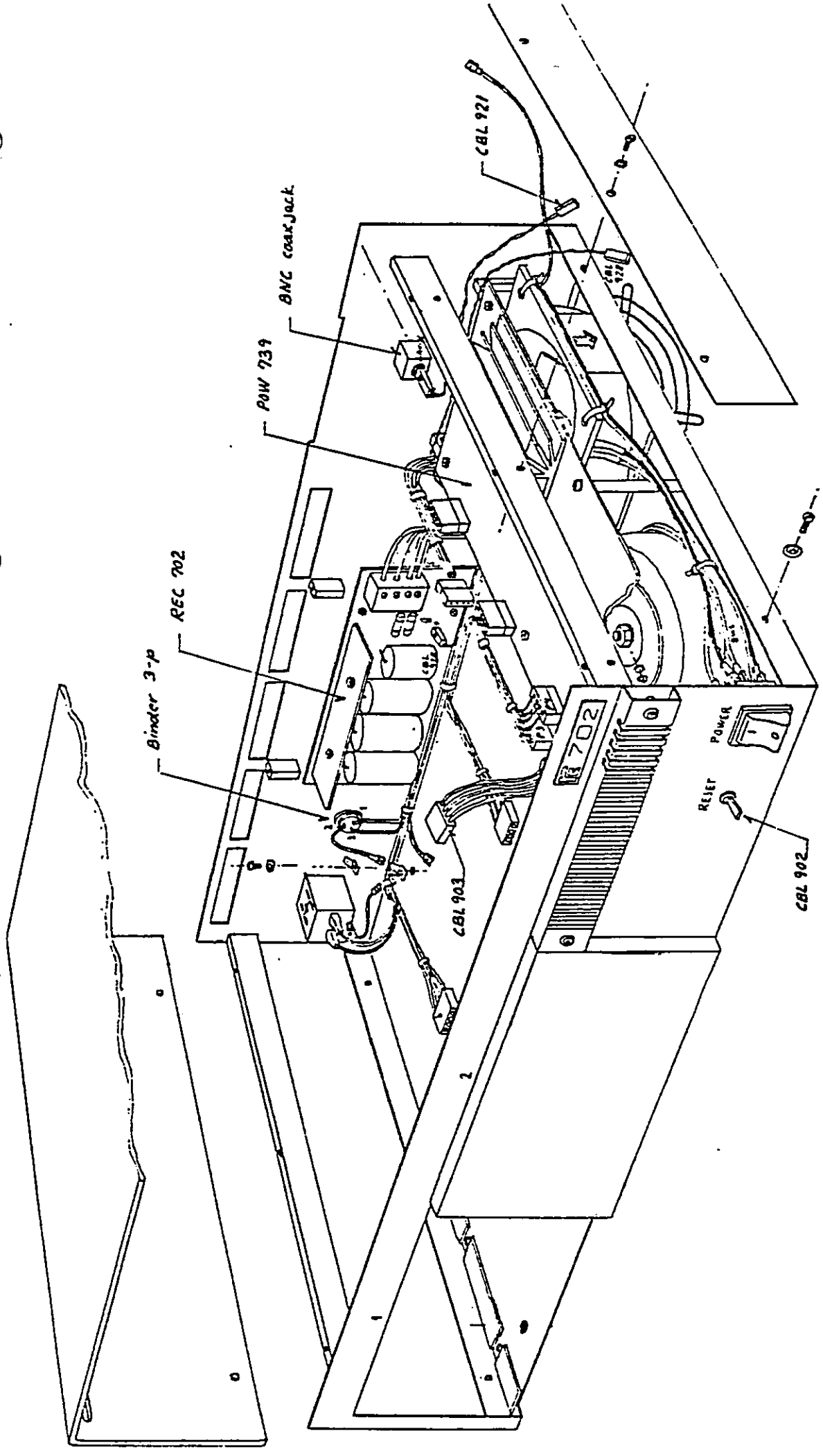


Fig. 2. KBN702 with POW739 mounted

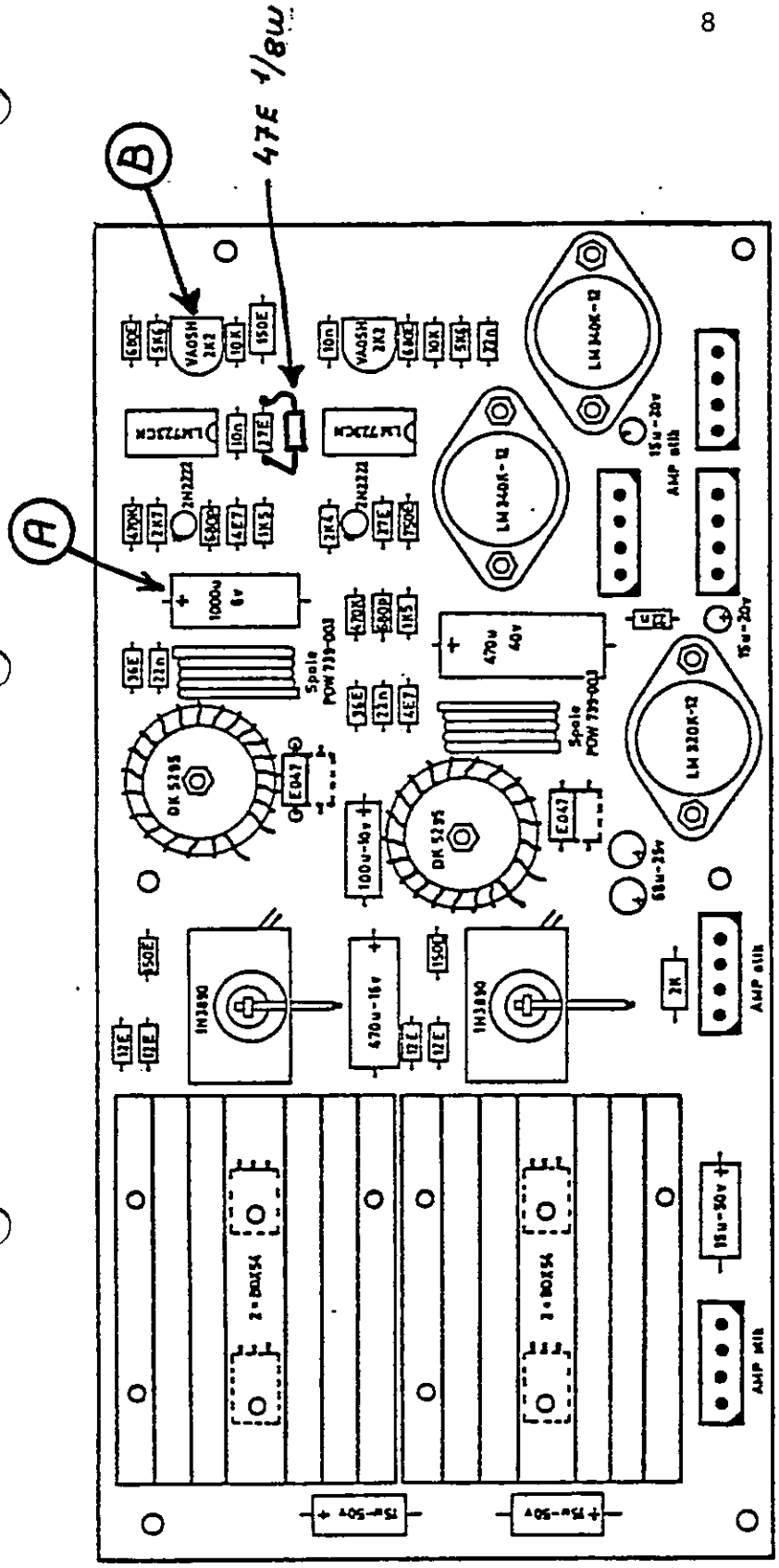
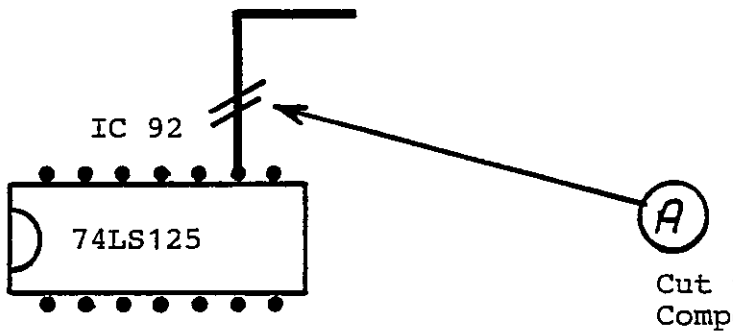
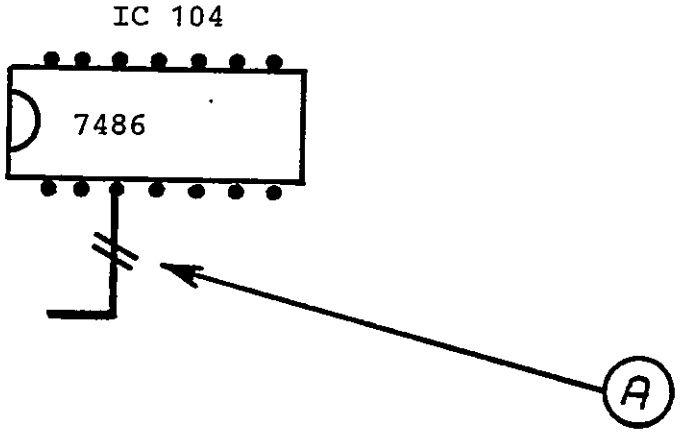


Fig. 3. POW739 Lay-out



Cut this line on the Componentside if RC 702.

Fig. 4. Modification on RC702 Board



Cut this line on the Componentside if RC 703. (Or RC 702 with RC 703 main printed circuit board).

Fig. 5. Modification on RC703 Board

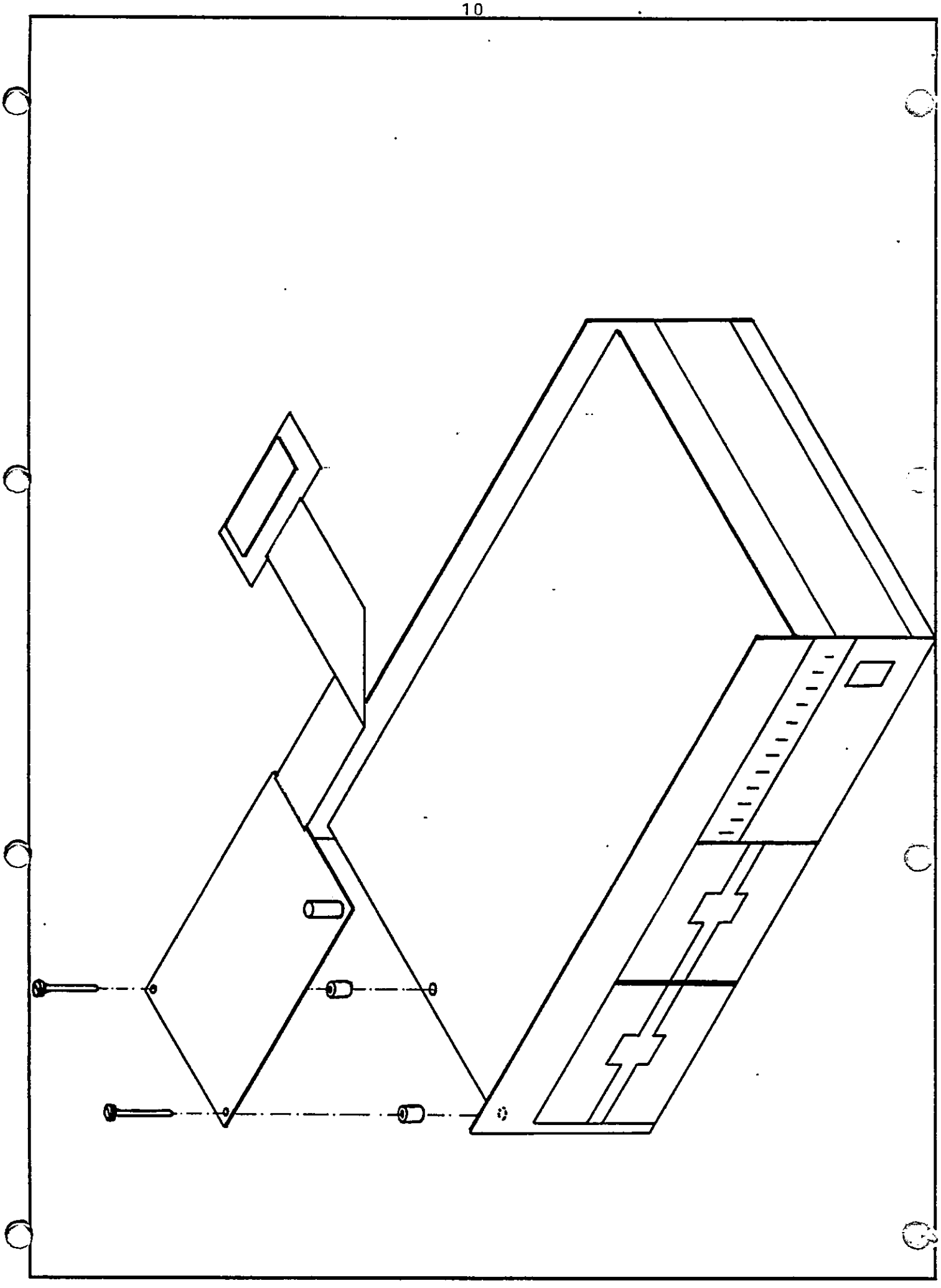


Fig. 6. Mounting the Graphic Board

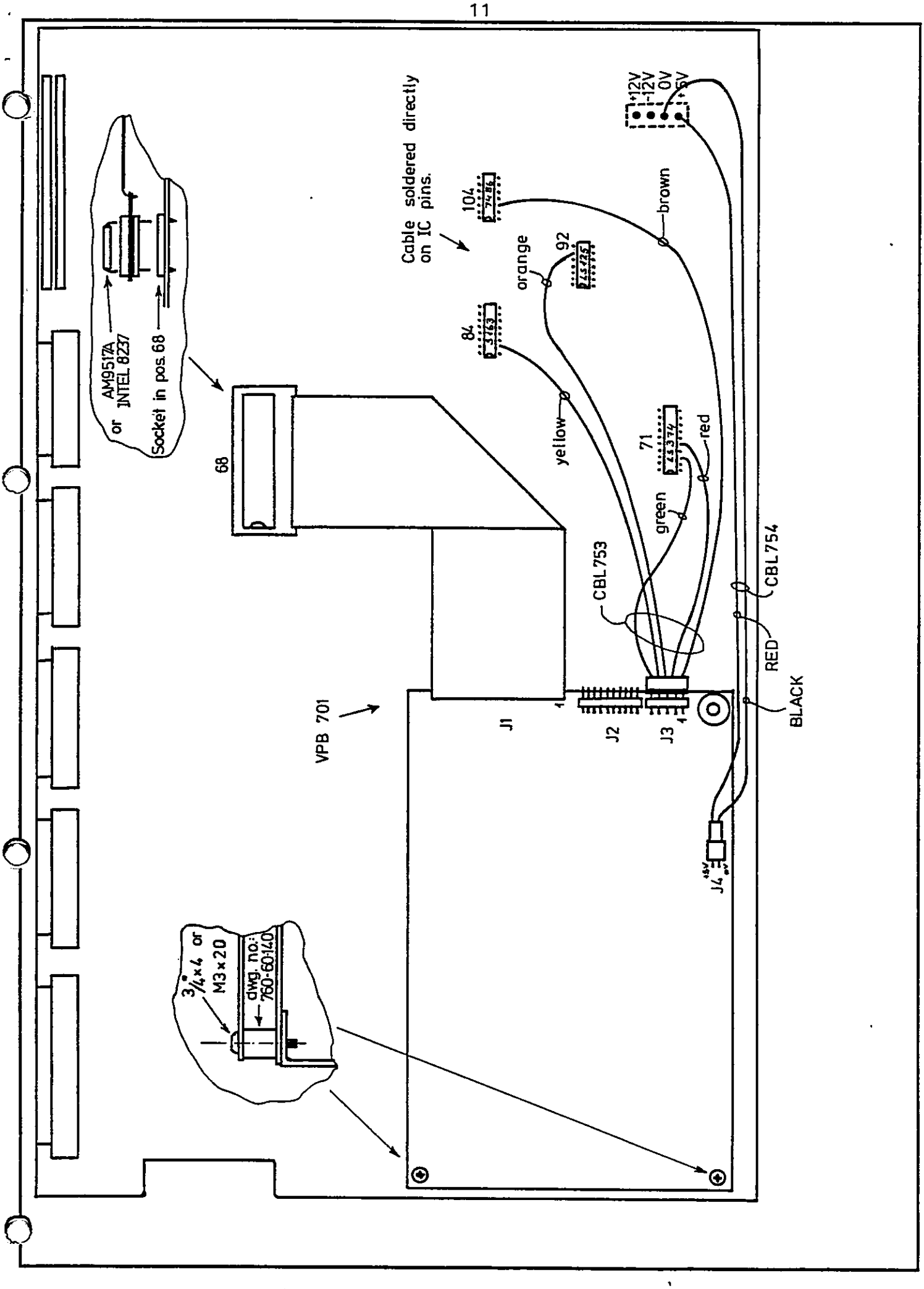


Fig. 7. Installation of MF018

A. INDICES

A.

A.1 Survey of Figures

A.1

RETURN LETTER

Title: MF018 Graphic Option to RC702/703 Installation Guide

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