Modification Kit CD-Drive C221 MKI 1.747.506.00

Material list

• 1	CD-drive	1.747.102.00
• 1	Extender board	1.747.208.00
• (1)	Switch board	1.747.209.00
	(Shipped with extender board, break off before installation)	
• 1	Holder left	1.747.010.04
• 1	Holder right	1.747.010.05
• 1	Holder mounting frame	1.747.010.06
• 1	Spring fastening bolt	1.747.010.07
• 1	Pressure spring D 4.1x16.0	1.010.220.37
• 2	Torx head screw M3x6	21.46.0354
• 2	Torx head screw M3x8	21.46.0355
• 4	Self tapping screw Torx D 3x10	20.24.8356
• 5	Flat washer D 3.2/7x0.5	23.01.2032
• 5	Lock washer D 3.2/5.5	24.16.1030
• 1	Cylinder head screw M3x20	21.53.0360
• 1	Description modification instructions (this paper)	10.27.4312

Modification

Remove old drive

- Disconnect cables and remove complete old drive including the front mounting frame [1].
  (2 screws at front frame, 1 at rear end of drive)
- Replace bolt and spring with new ones (mounted from bottom of chassis).

Assemble new drive

- Attach new mounting frame [1] with the 2 separate holders to the drive, with the smaller U-shaped one [2] at the right, and [3] at the left (Fig. 1). Use the M3x8 screws between holder and drive, and the M3x6 ones between holder and frame (each with washer and lock washer).
- Mount the 2 new boards to the bottom of the drive (self tapping screws) and connect the flat cable (Fig. 2).
- Connect the disc tray motor cable (from the old drive).
- Modify the disc motor cable (remove the connector at the drive end, disconnect the blue and violet wires.
  Solder the orange wire to the + terminal of the motor (red dot) and the white one to its - terminal (black dot).

Modify the servo PCB 1.747.515.20

- Add 3 wires for the following connections
  IC 7 pin 7 → IC 6 pin 6
  IC 6 pin 5 → pin 3
  IC 6 pin 3 → D19 / Anode
  and remove wire bridge W101.

Install new drive

- Mount the new drive with the 3 screws and connect all cables. Tighten the back screw first, and loosen it then until the drive is in a even position and enough distance to absorb shocks.

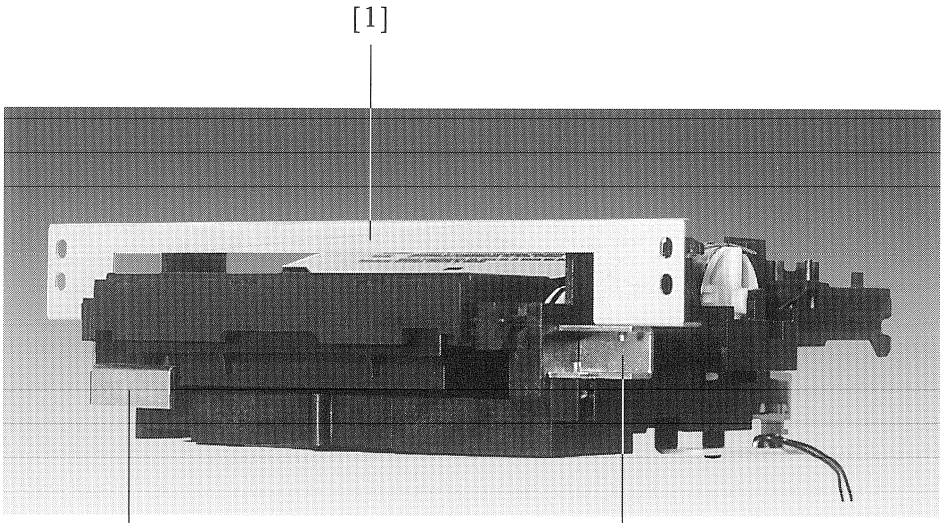

Fig. 1

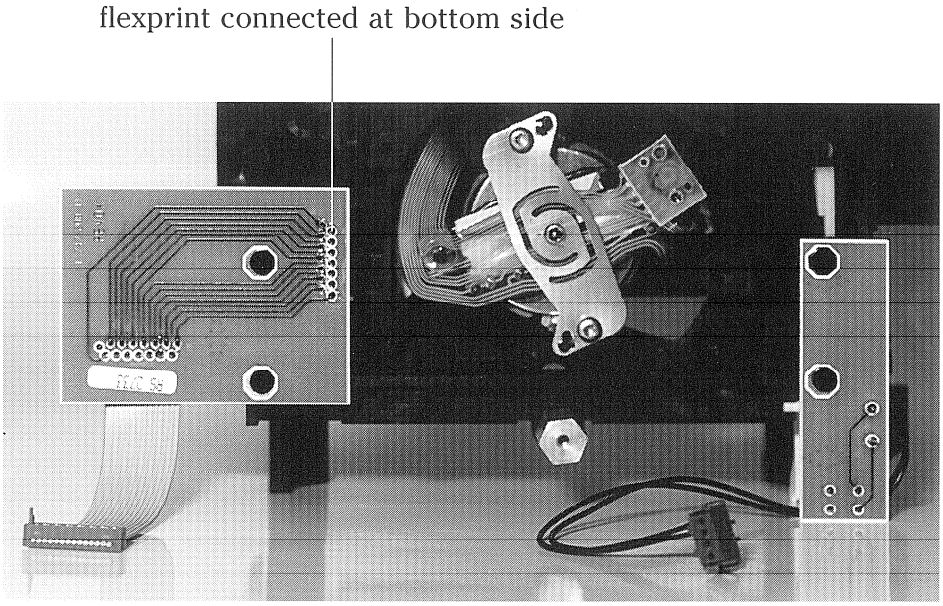

Fig. 2

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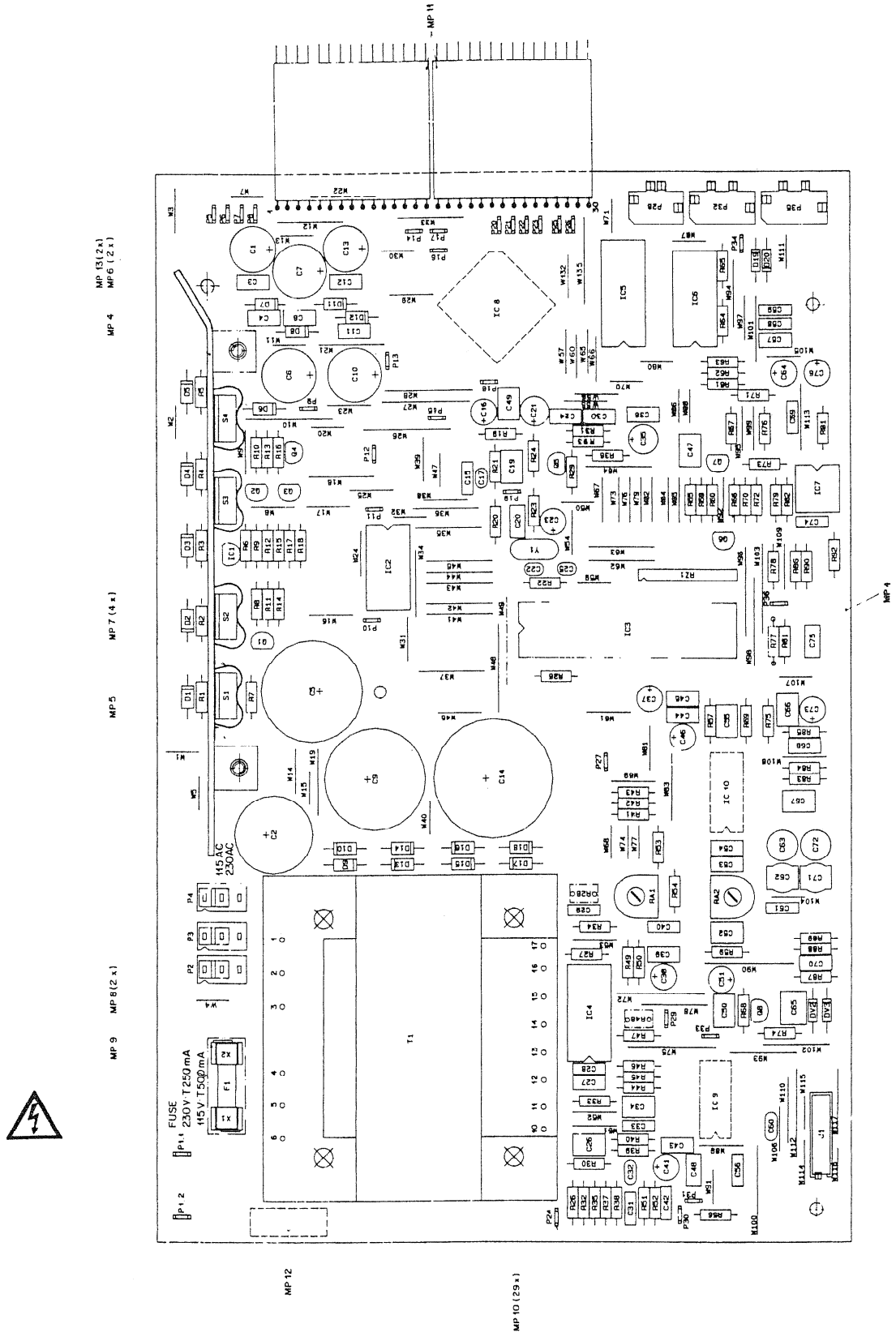
1.747.515.20 Servo Board



1.747.515.20 Servo Board