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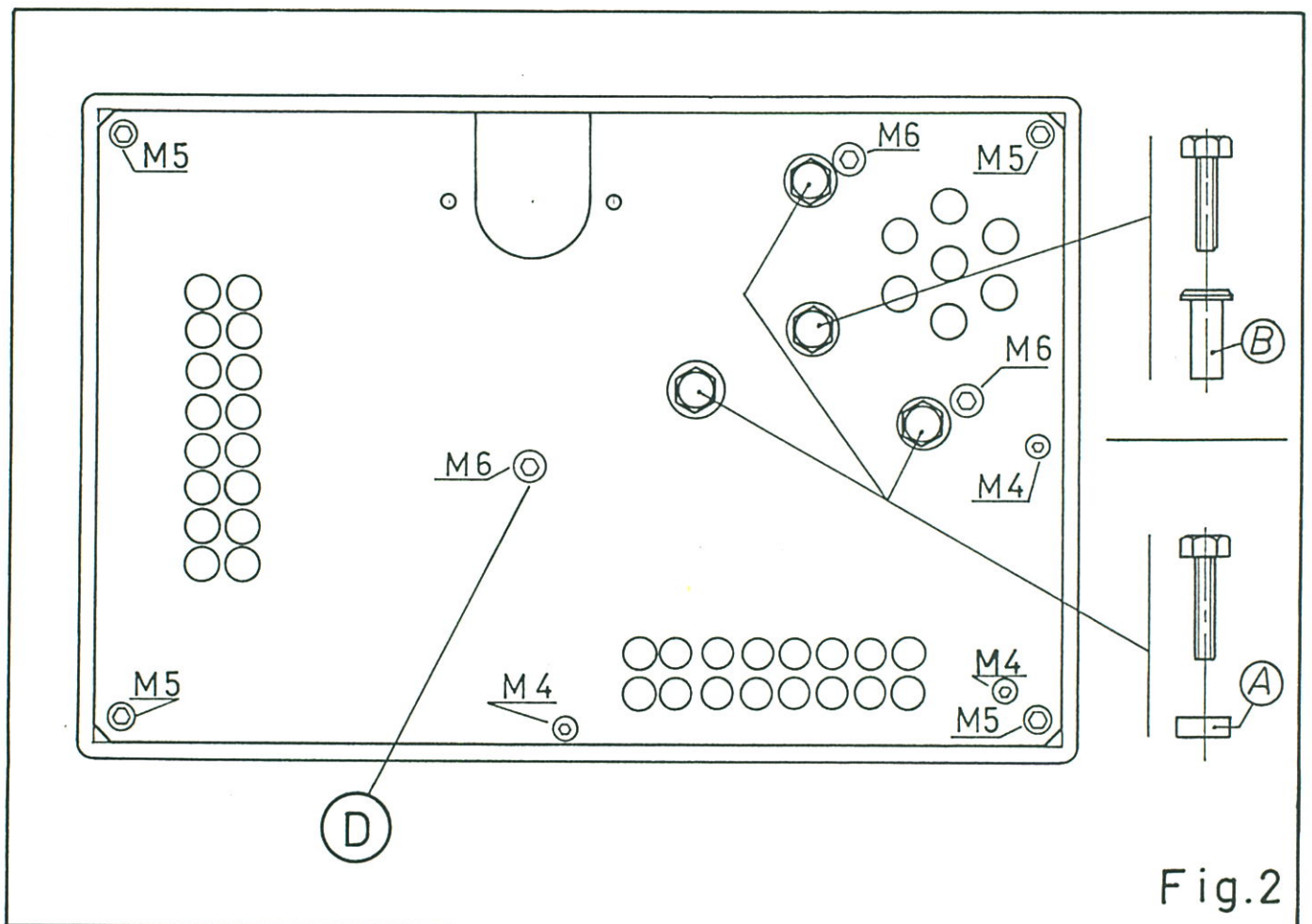
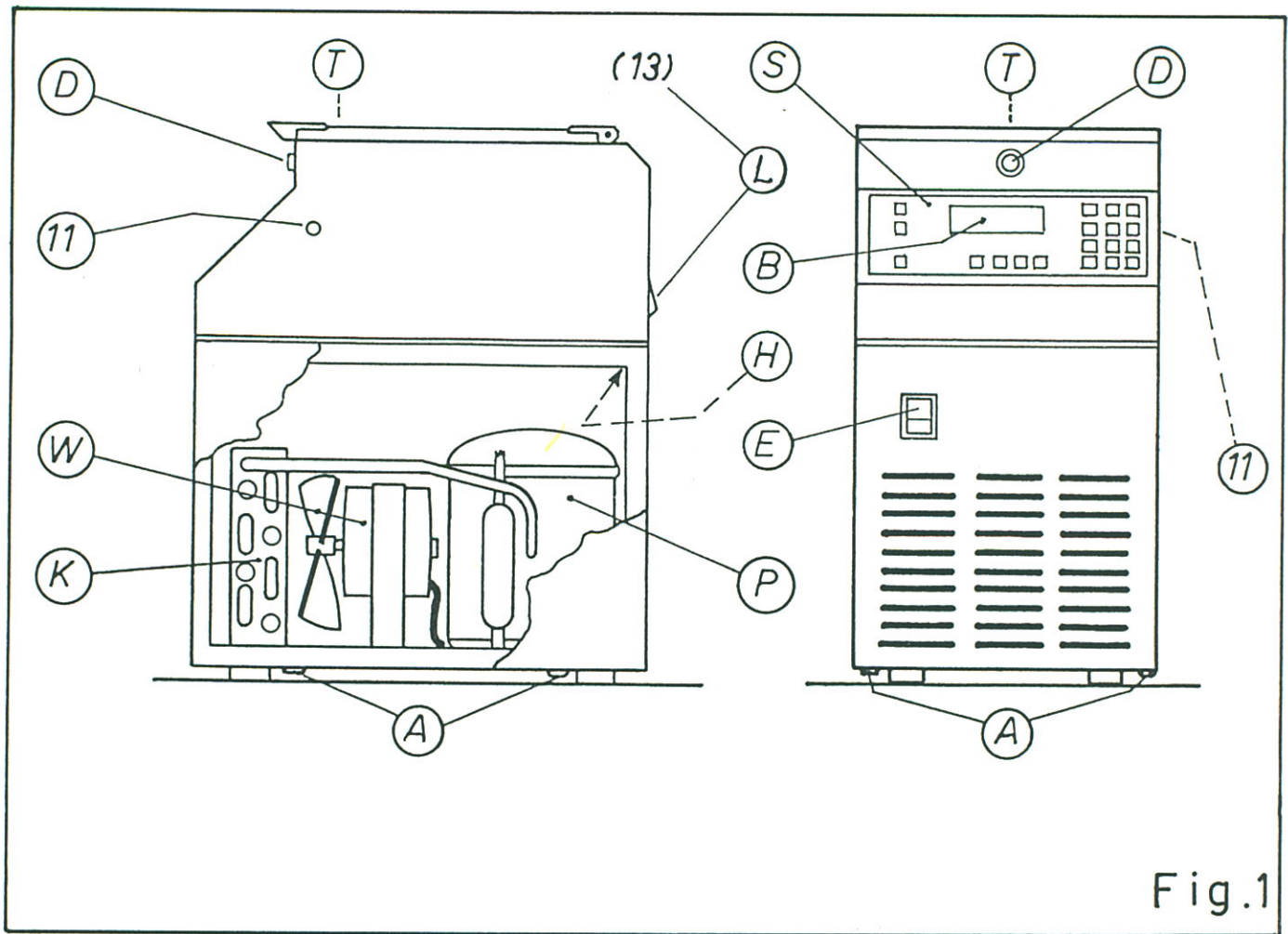
**MICROCENTRIFUGE**

**TYPE 157.MP.RF**

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**SERVICEMANUAL**

**PART 2**



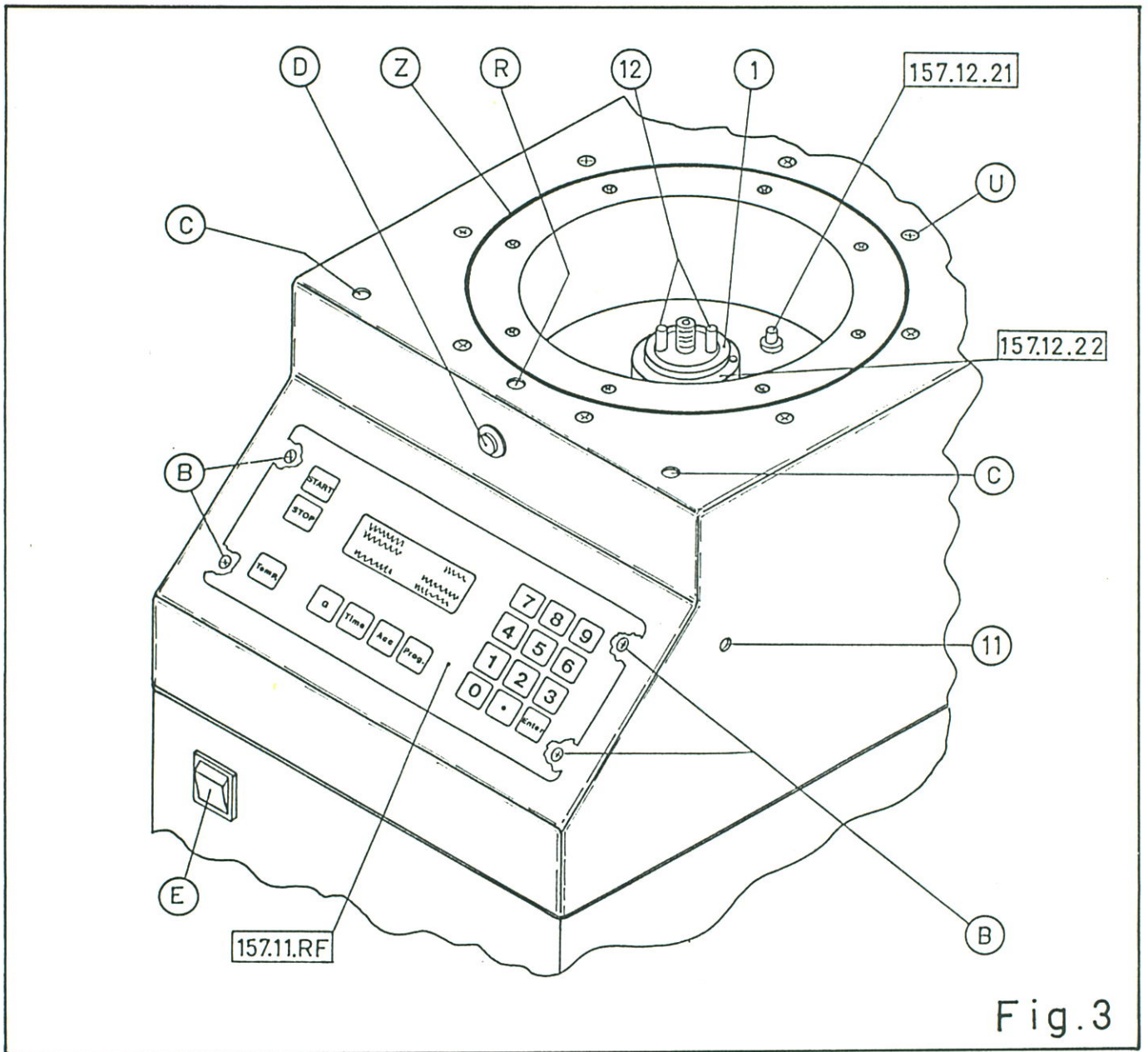


Fig.3

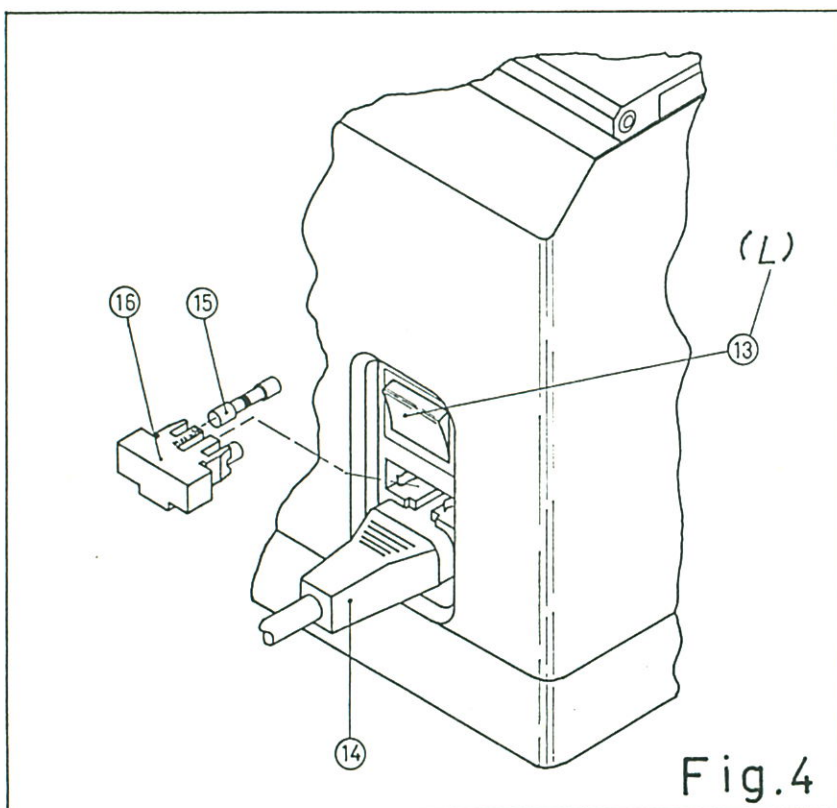


Fig.4

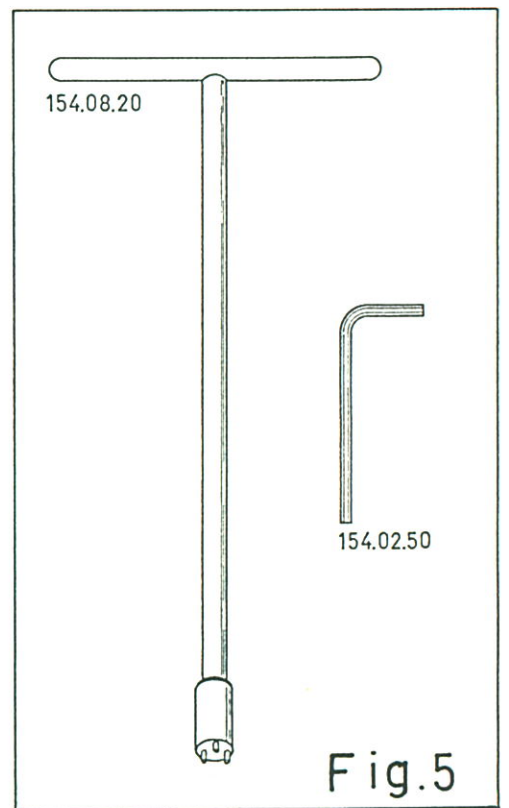


Fig.5

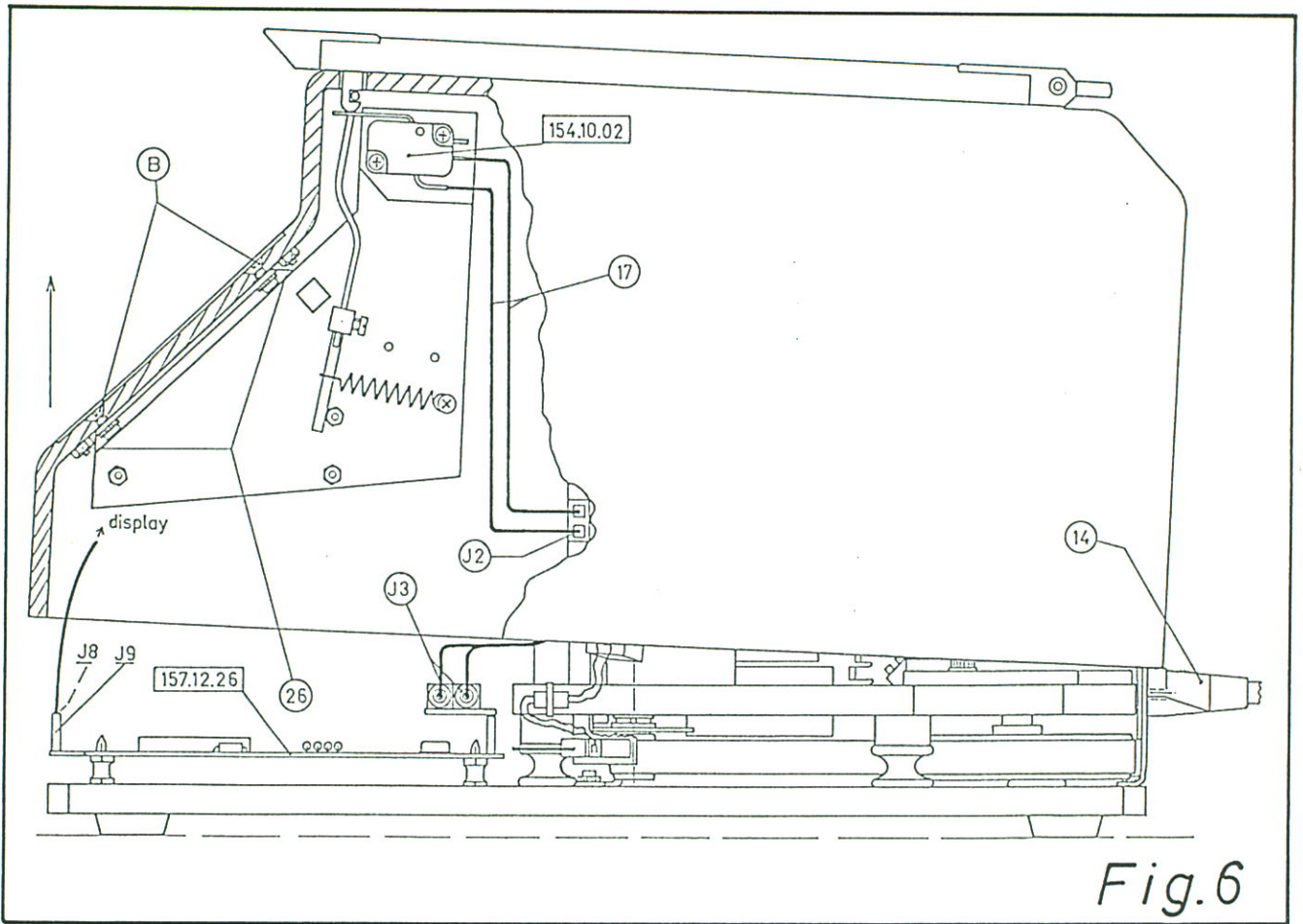


Fig. 6

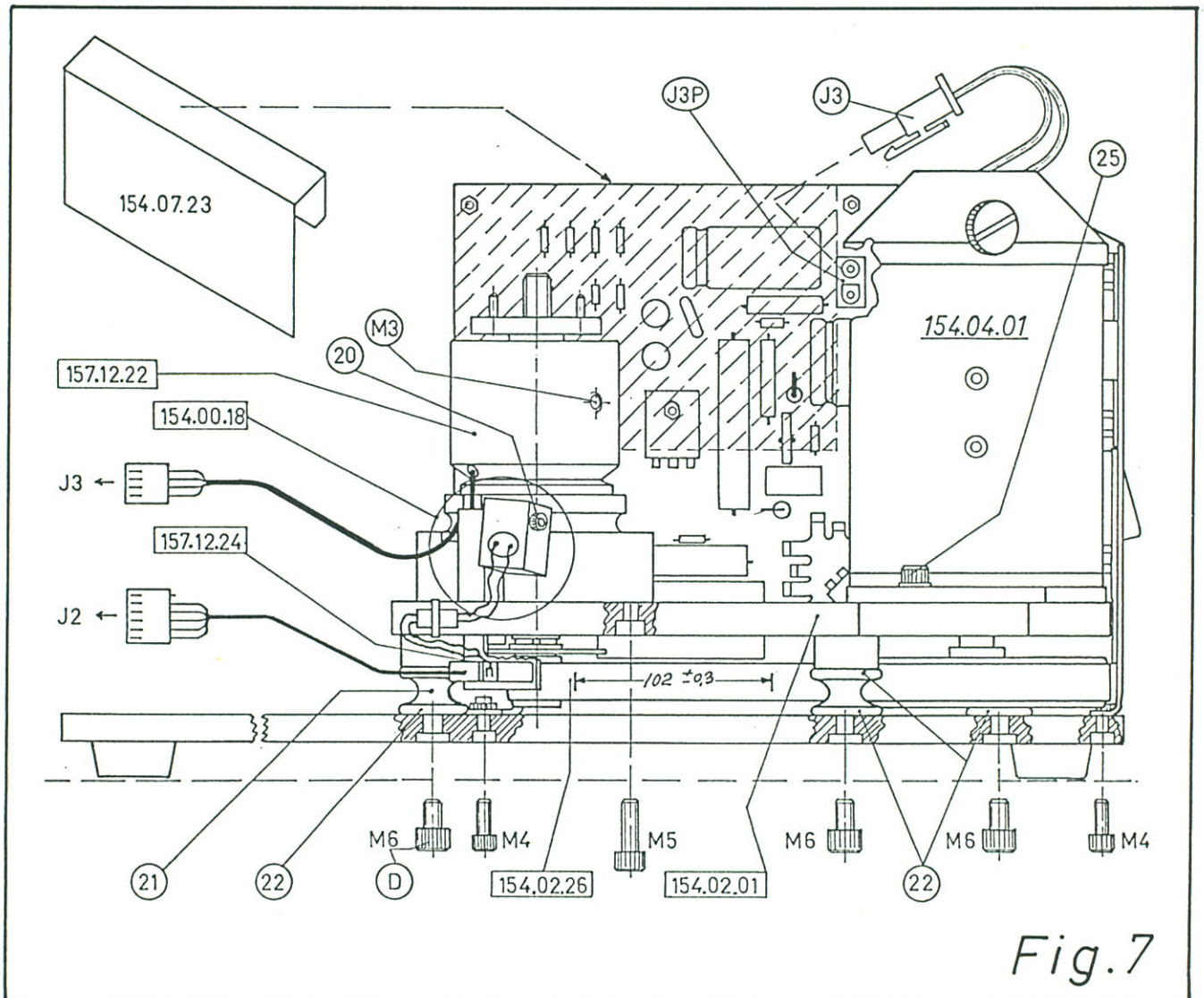


Fig. 7

Fig.8

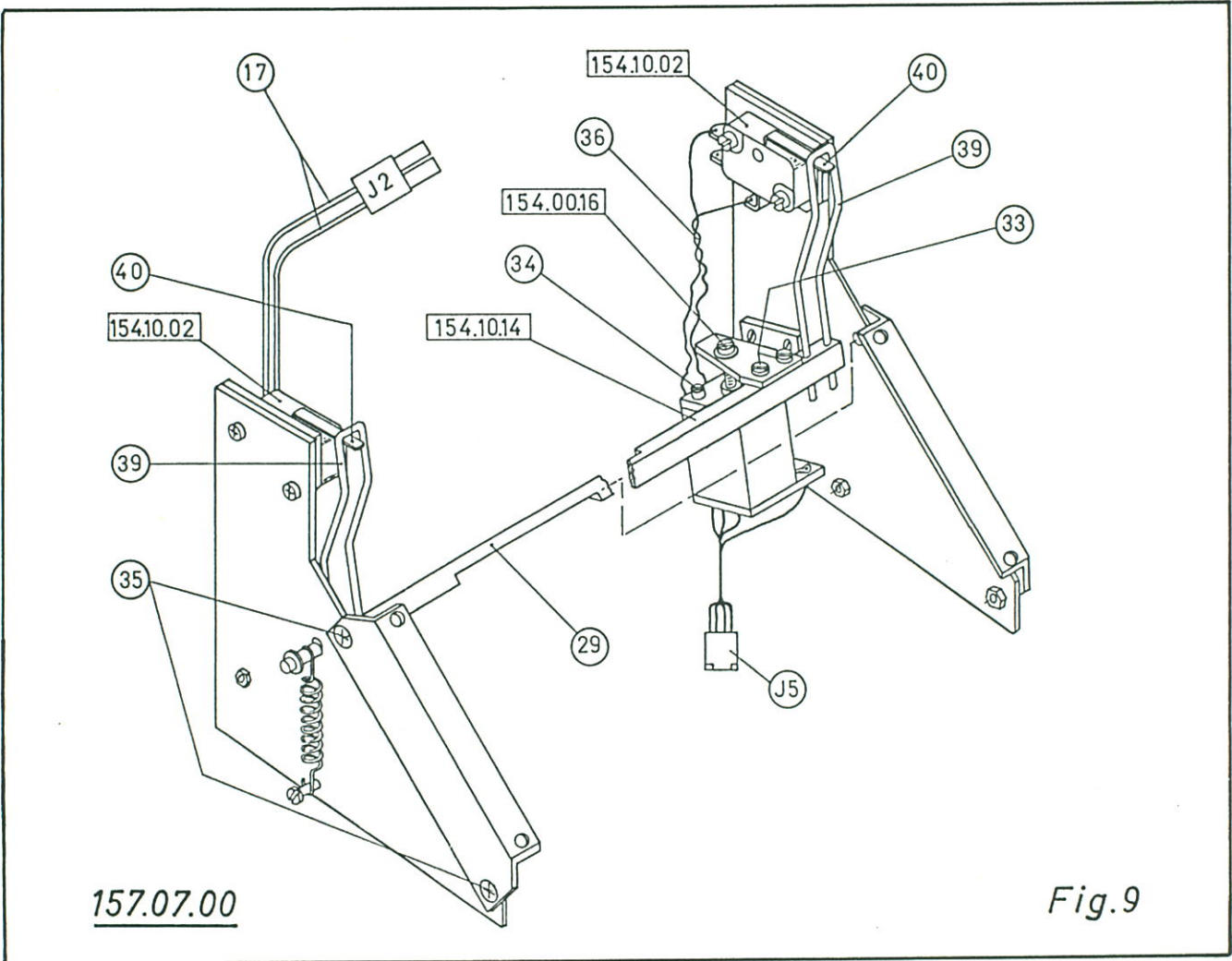
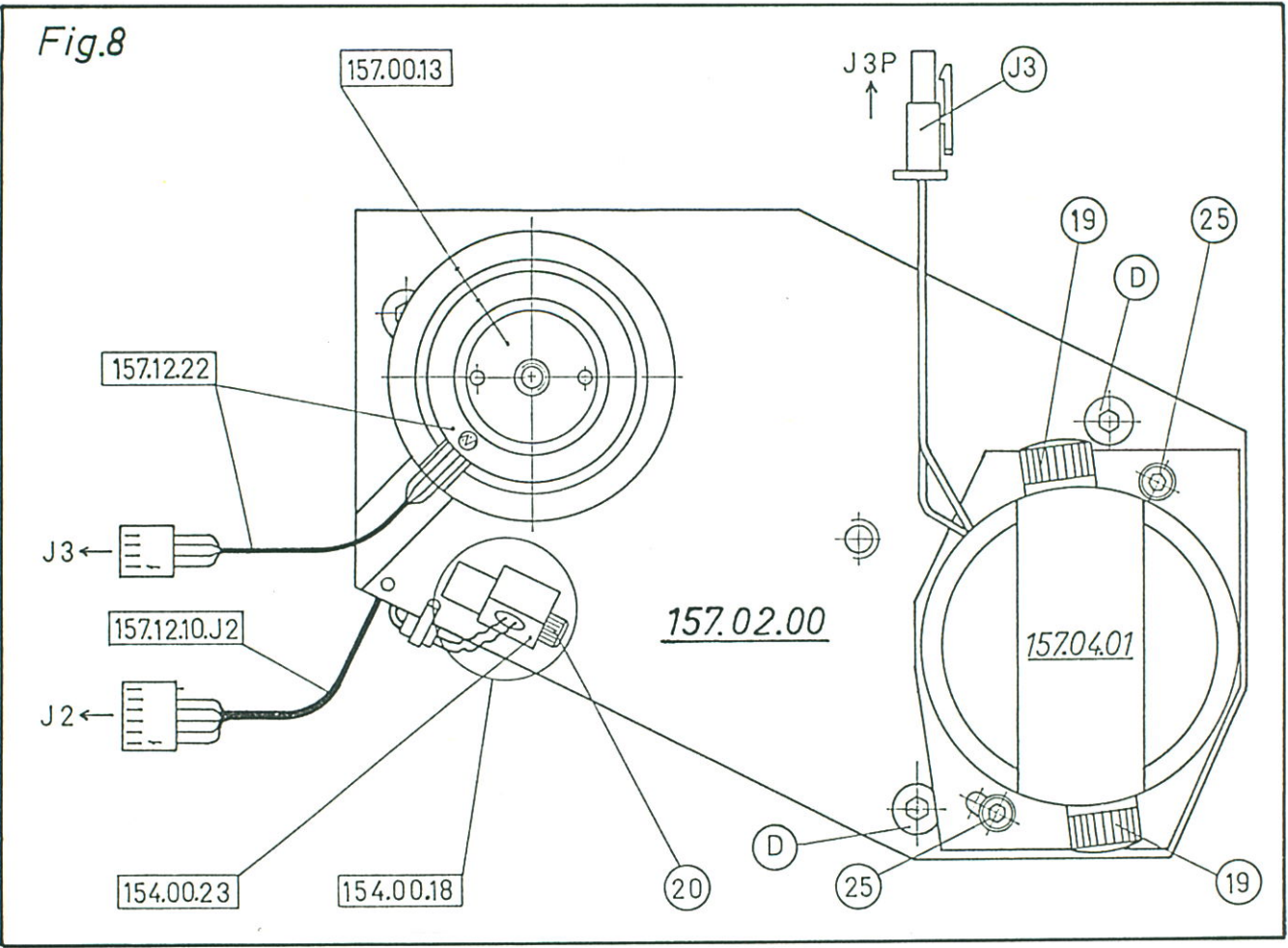


Fig.9

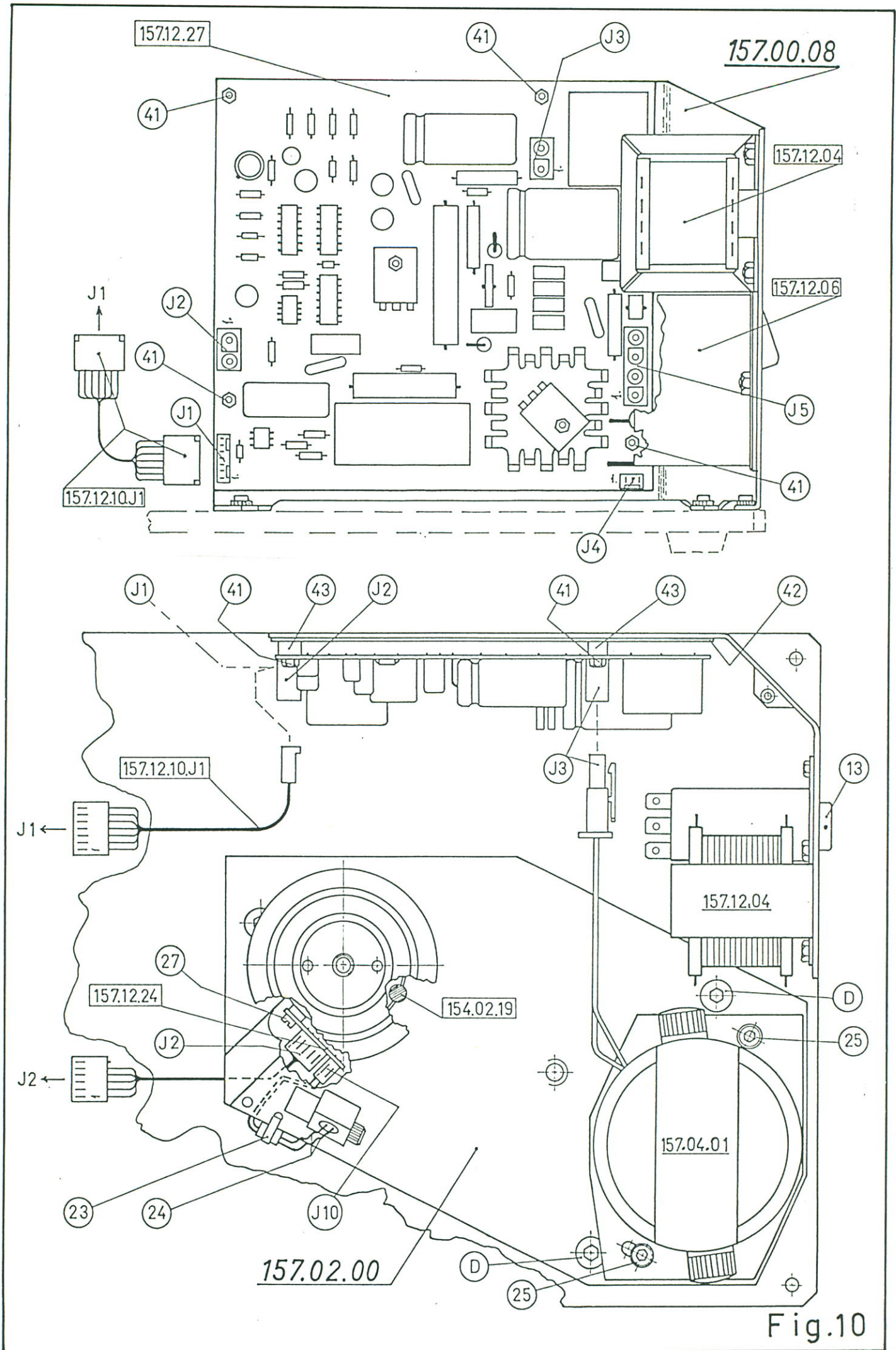


Fig.10

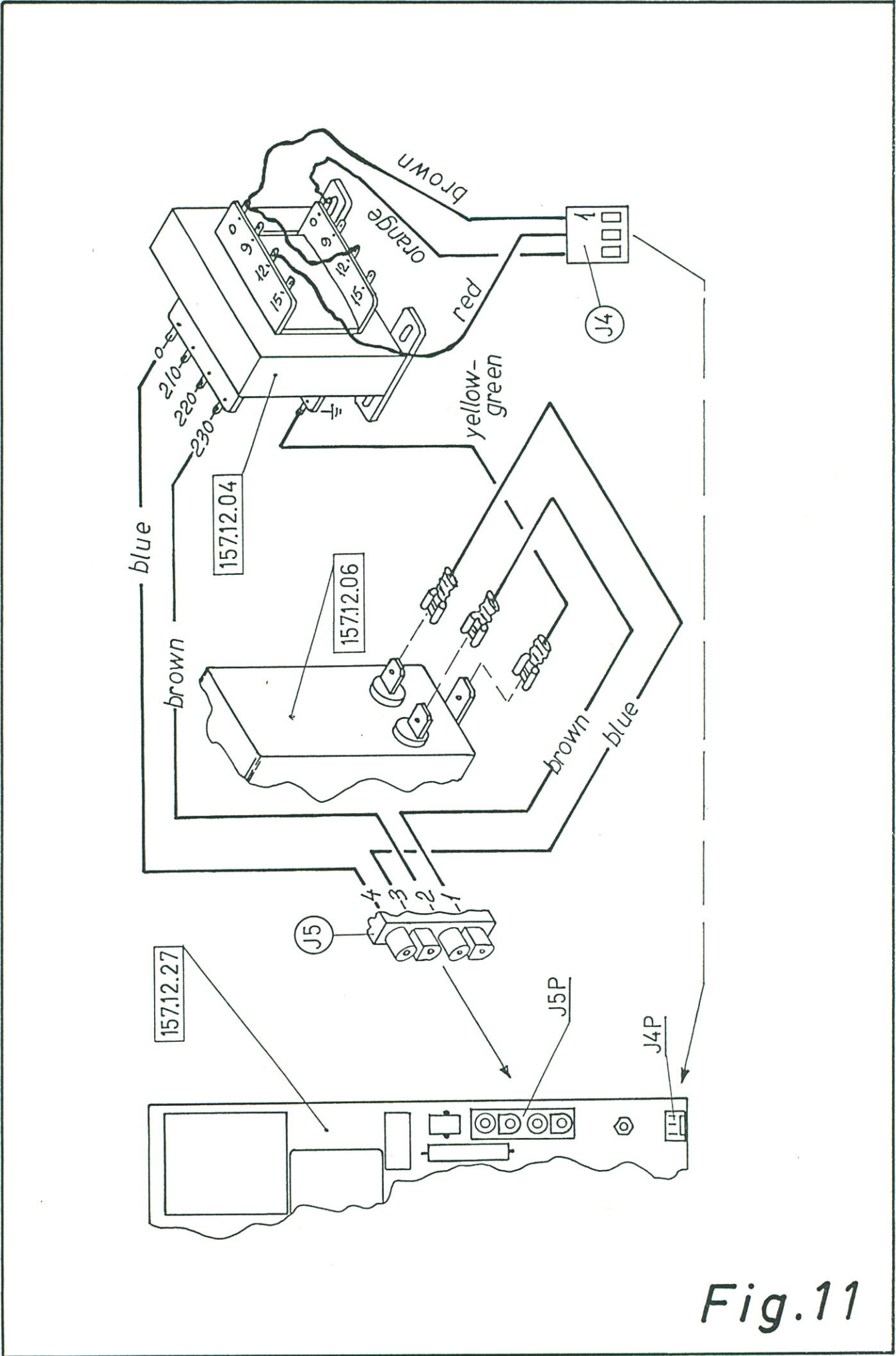


Fig.11

157.12.23

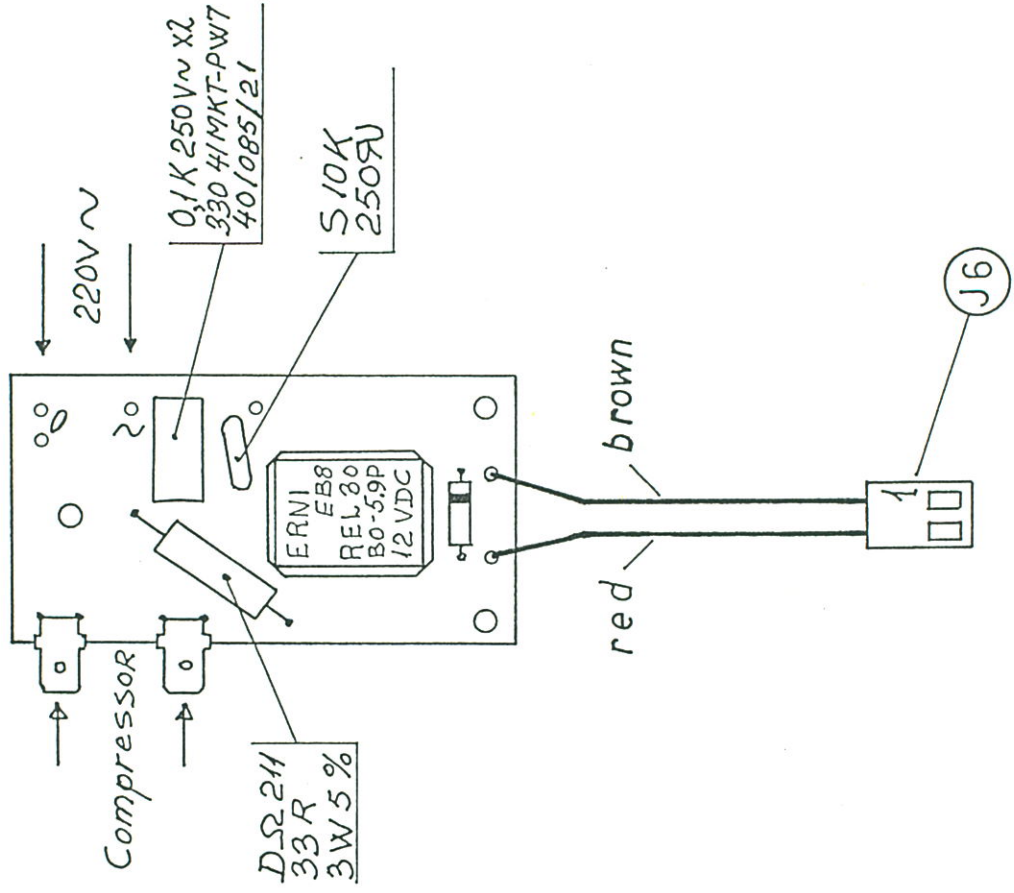


Fig.13

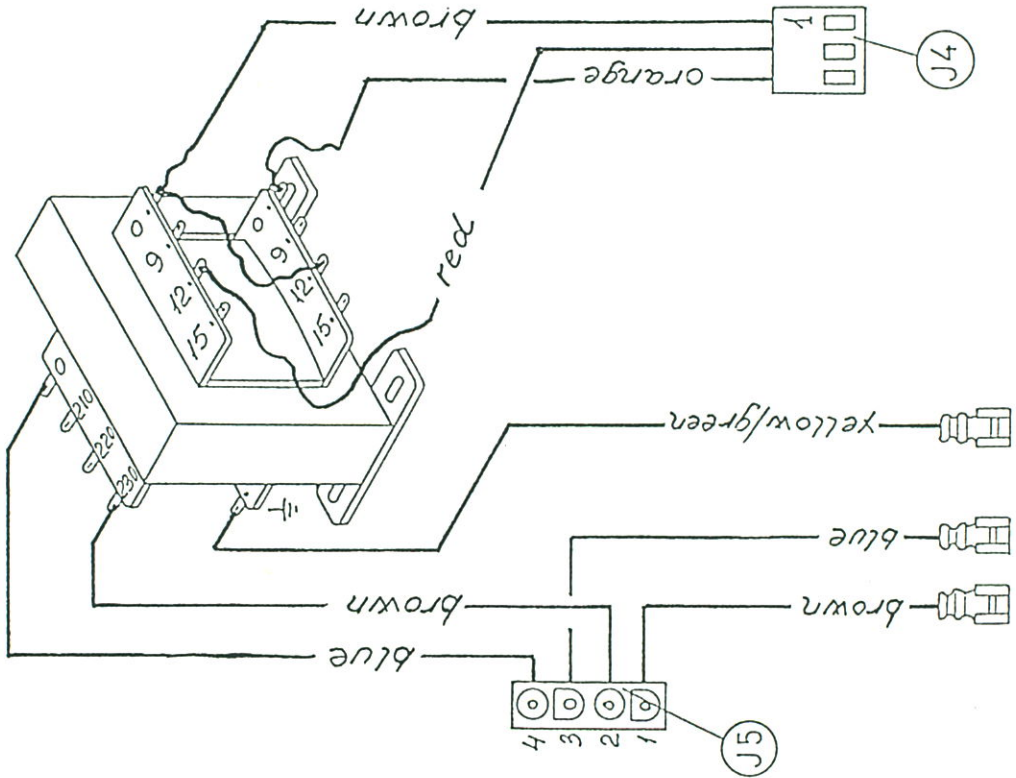


Fig.12



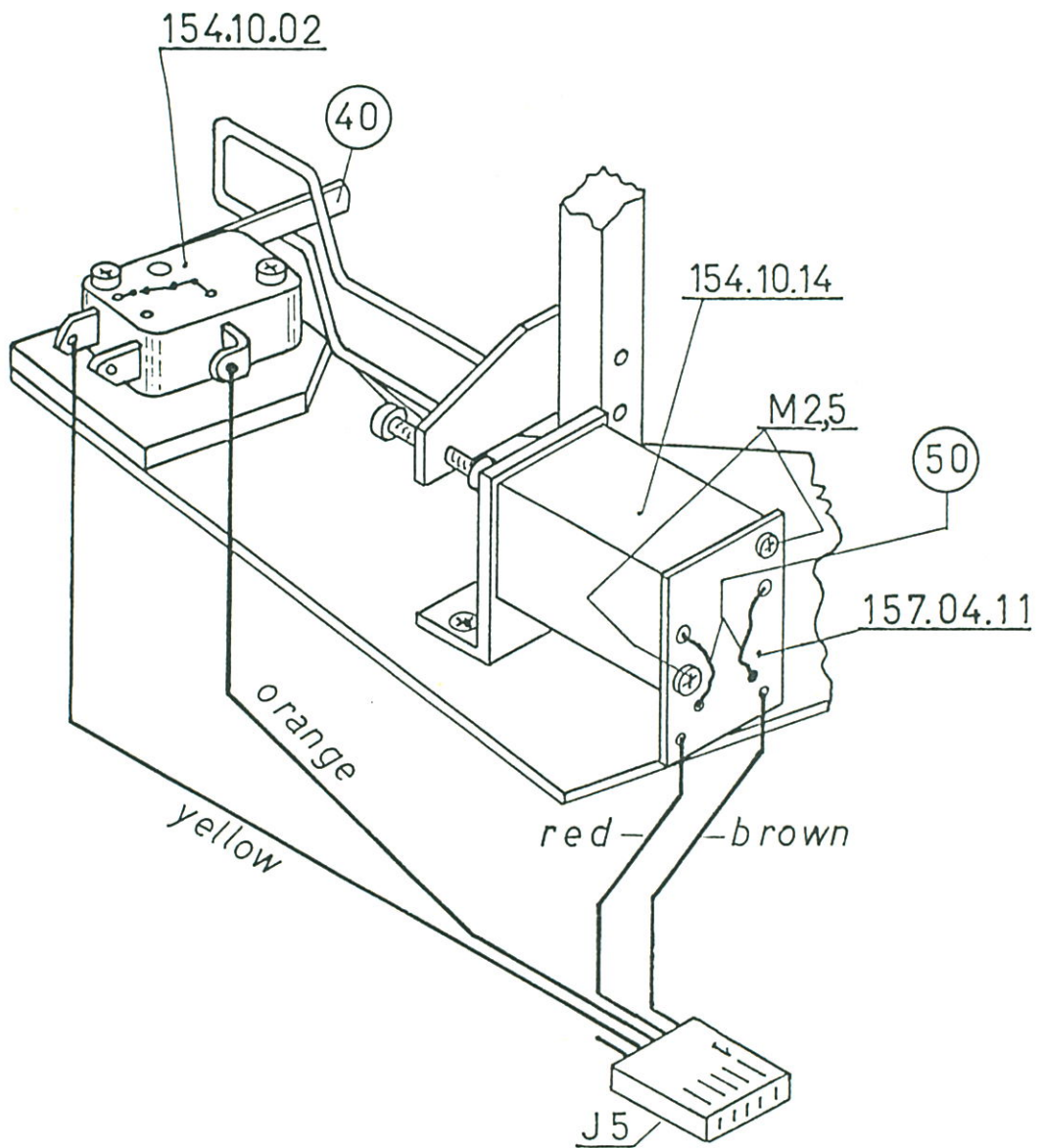
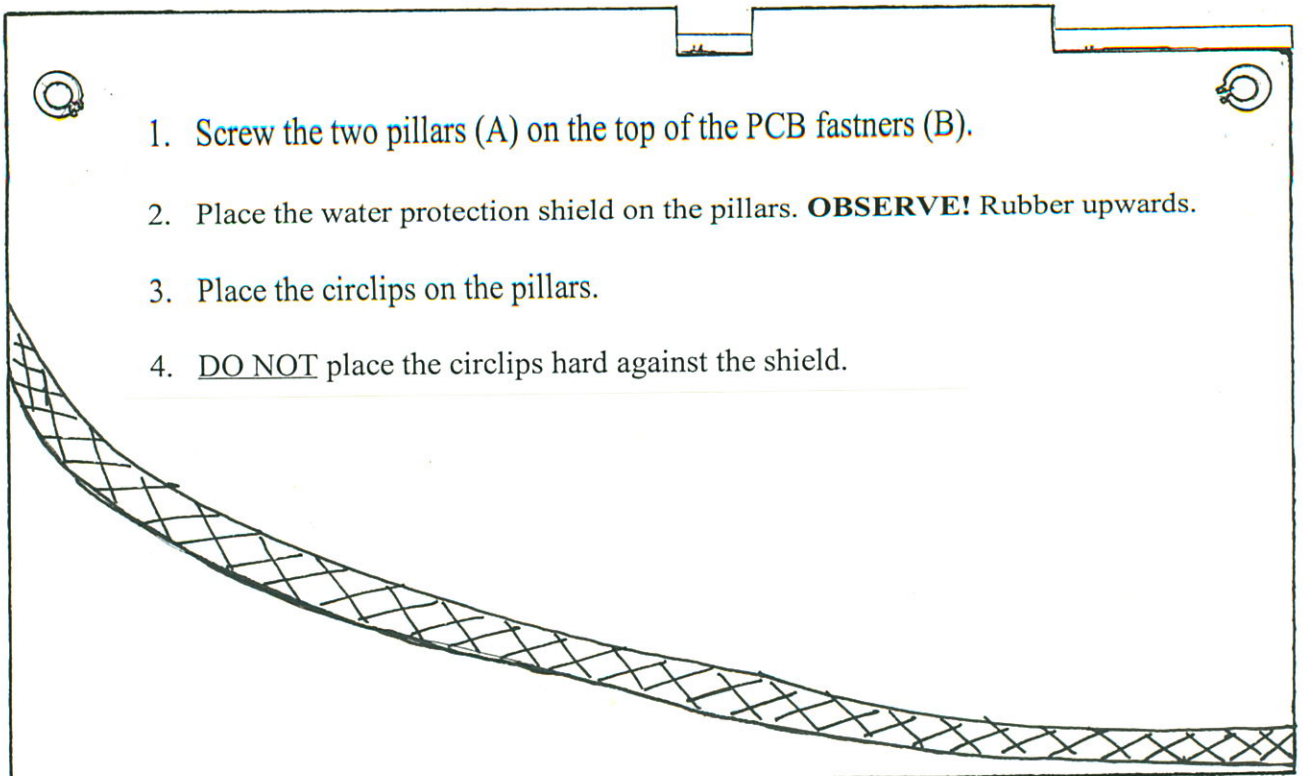
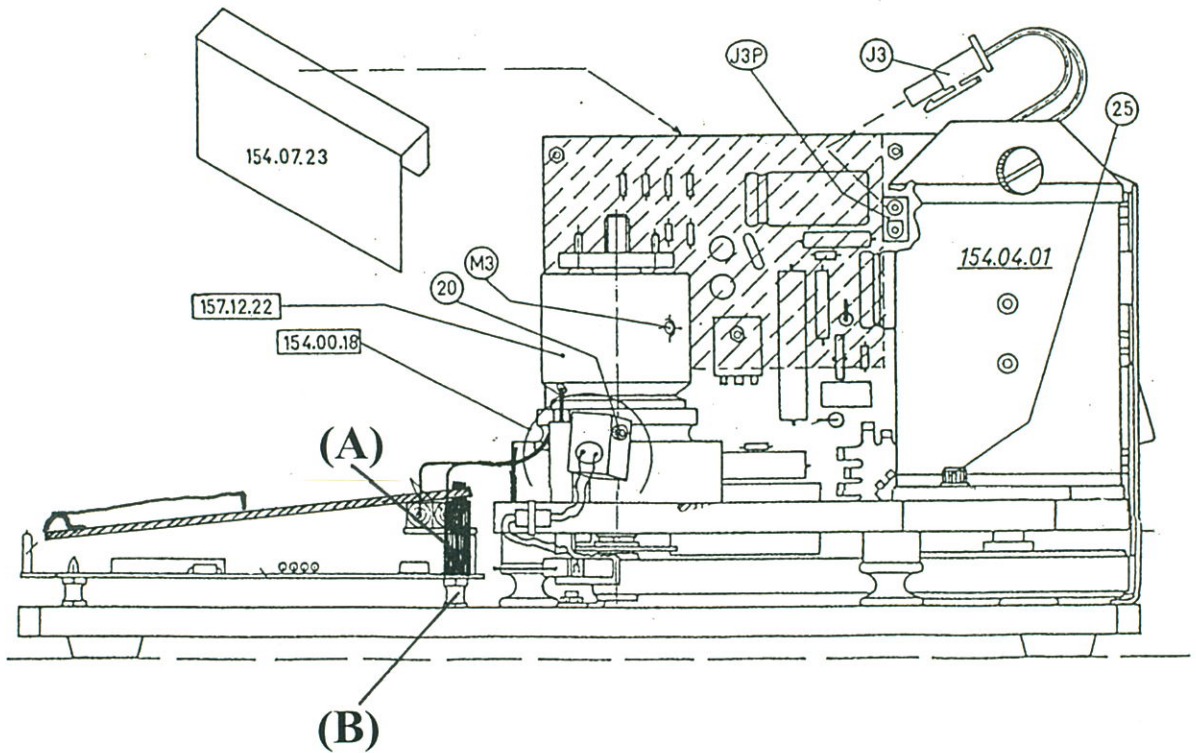


Fig.14

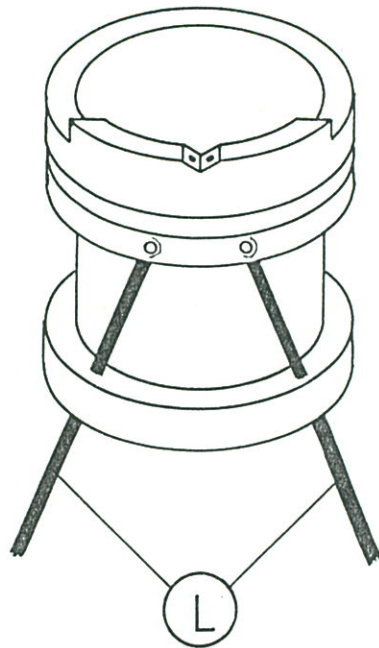


1. Screw the two pillars (A) on the top of the PCB fasteners (B).
2. Place the water protection shield on the pillars. **OBSERVE!** Rubber upwards.
3. Place the circlips on the pillars.
4. DO NOT place the circlips hard against the shield.



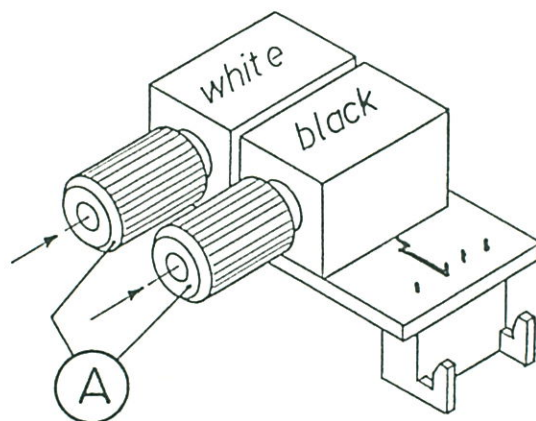
Værktøj	<b>OLE DICH Instrumentmakers ApS</b> Tårnfalkevej 18 - 2650 Hvidovre Tlf. 31 78 41 85 - Telefax 31 78 64 65	Målforhold	K. T. G.
Materiale	<b>PCB SHIELD COMPLETE          INCLUDING PILLARS AND          CIRCLIPS</b>	<b>157 19 24</b>	

157.12.2 2



*Fig. 23.A*

157.12.19



*Fig. 23.B*

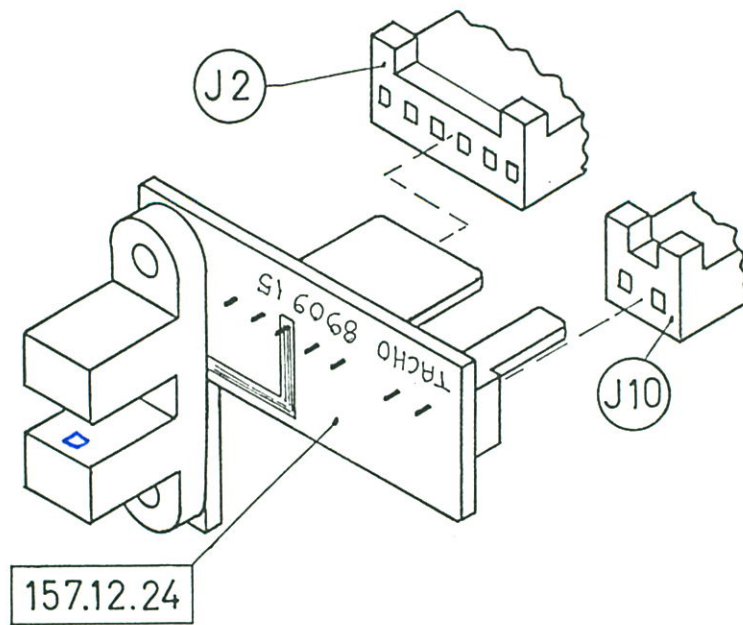


Fig.22

157.19.24

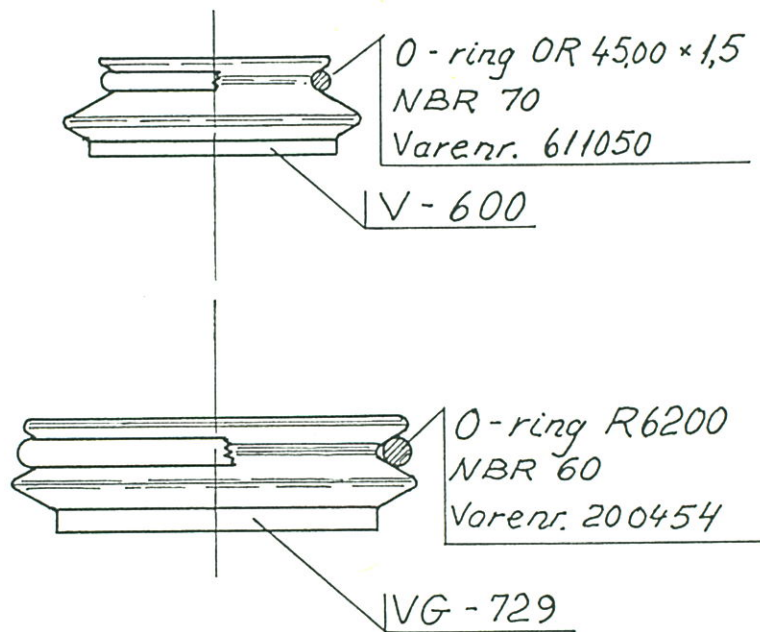
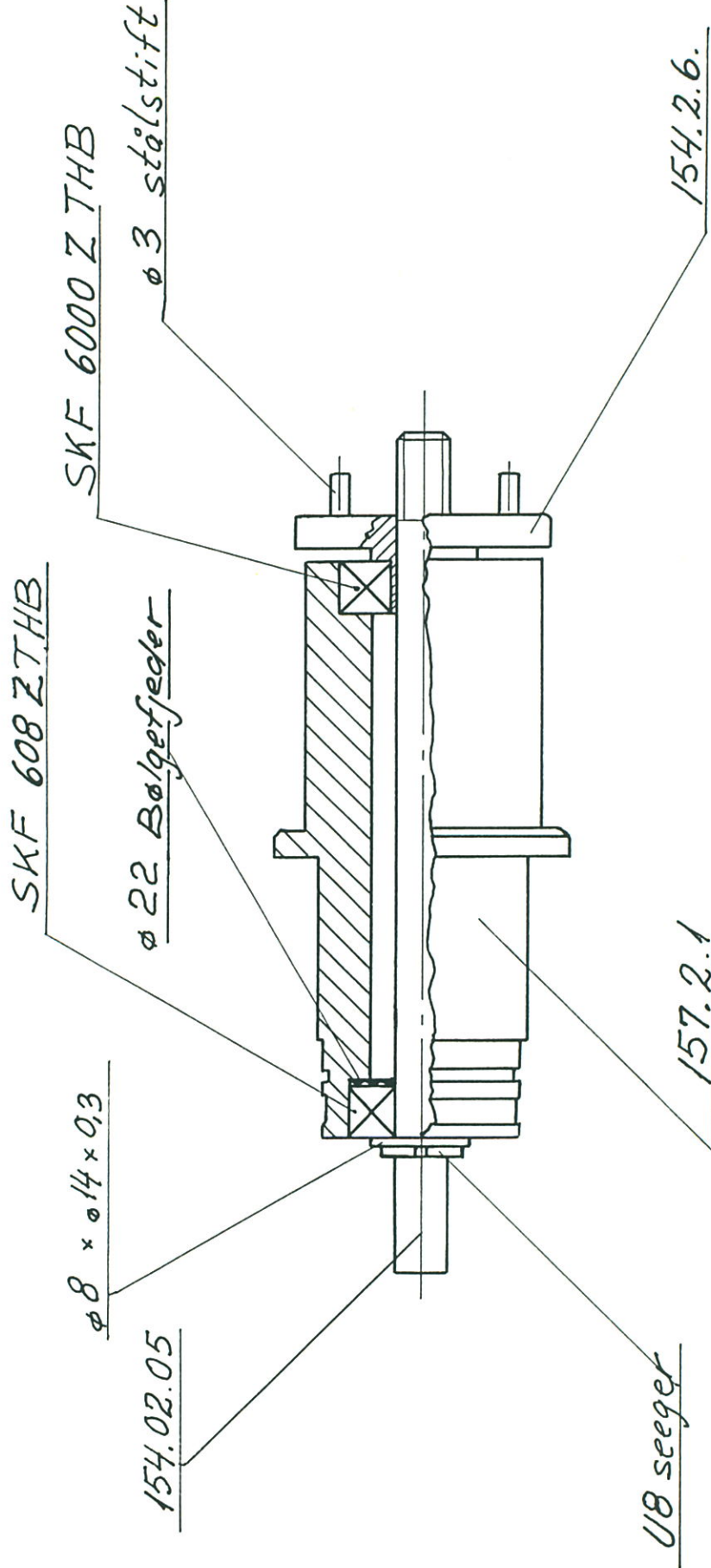


Fig.23

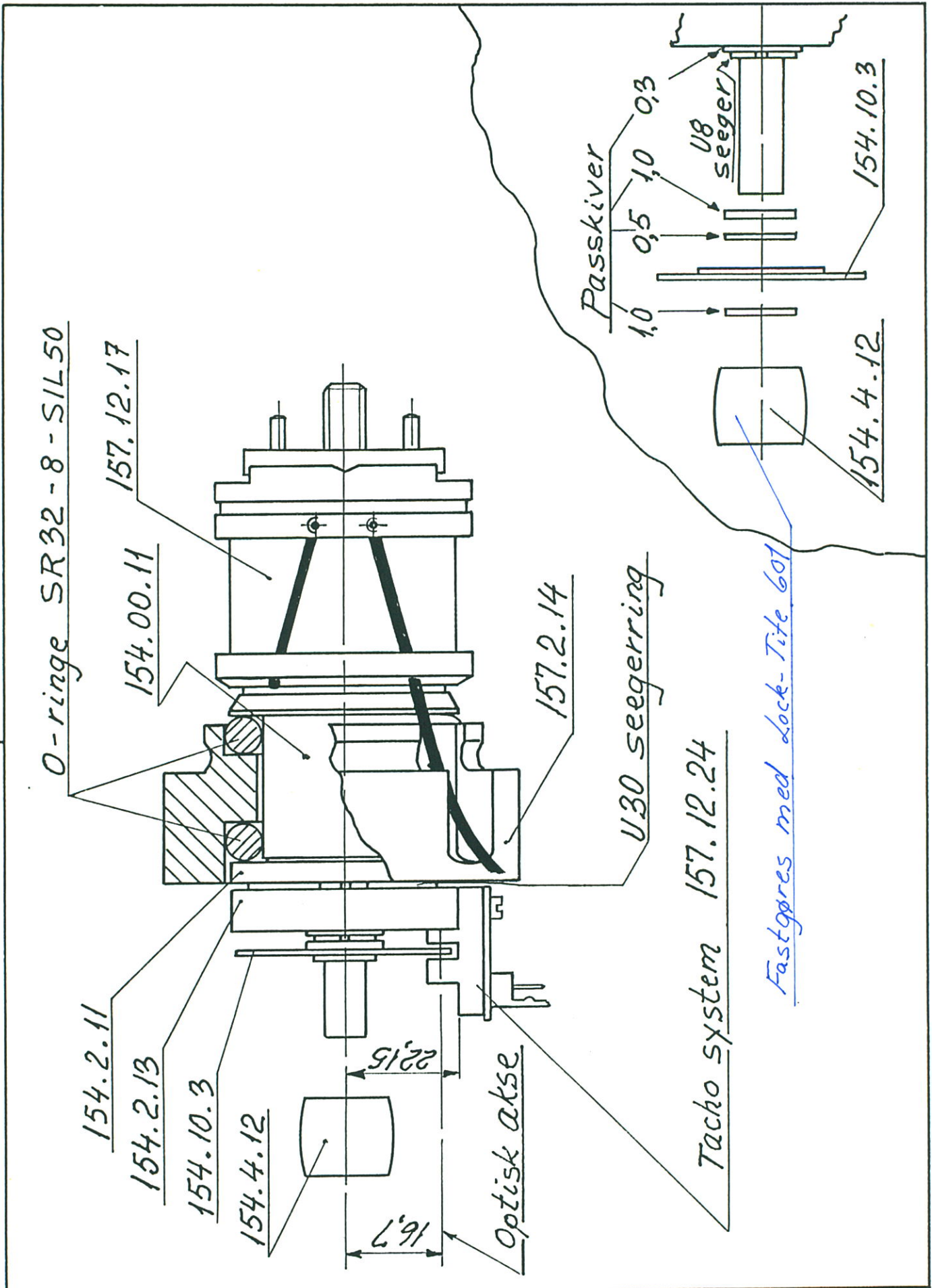
28.3.87

17.11.90

18.1.93

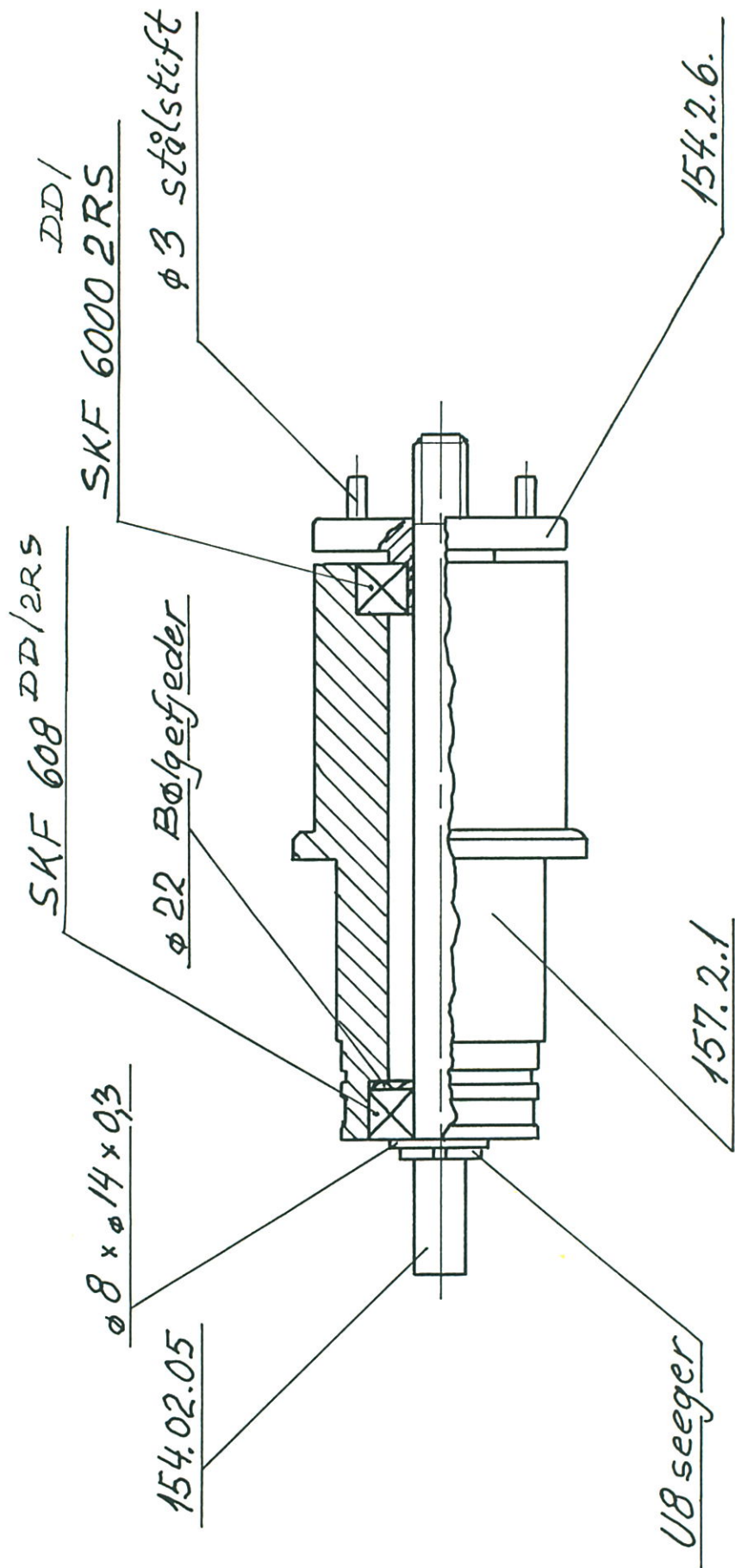


Materiale	Lære nr.:	<b>OLE DICH</b> Avedøreholmen 18 2650 Hvidovre (01) 78 41 85	Målforhold	K. <i>sk</i> 25.4.81
				T.
				G.
Model nr.:	Lejerør med Rotoraksel		157	00 11.81

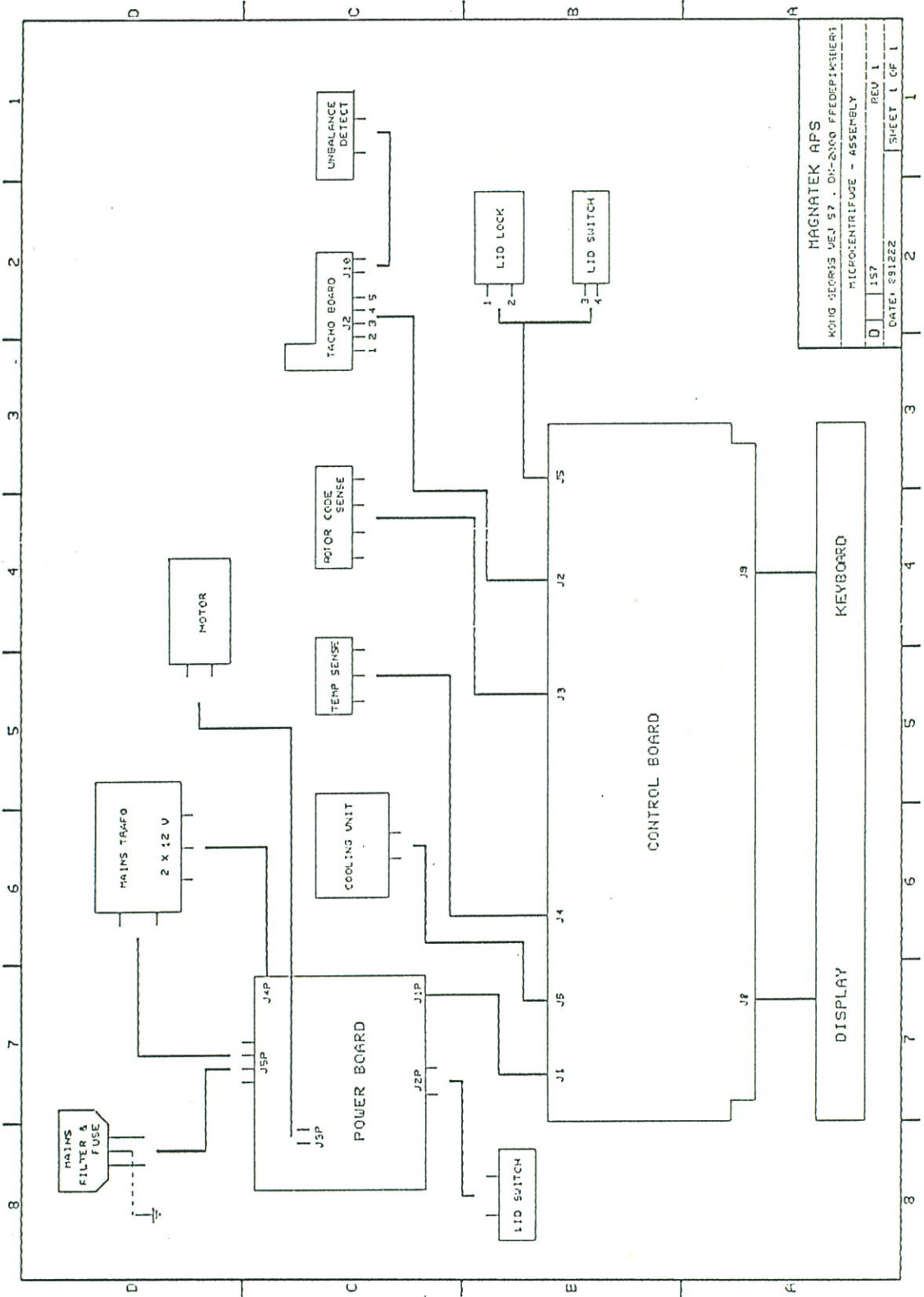


Materiale	Lære nr.:	<b>OLE DICH</b> Avedøreholmen 18 2650 Hvidovre (01) 78 41 85	Mållorhold	K. <i>slu</i> 18.11.90
			T.	
Model nr.:	<i>Rotorspindel system.</i>	<b>157</b>	00	
			13A.90	

18.1.93



Materiale	Lære nr:	<b>OLE DICH</b> Avedøreholmen 18 2650 Hvidovre (01) 78 41 85	Målforhold	K. <i>SM</i> 23.1.91
				T.
				G.
Model nr:	<b>Lejerør med Rotoraksel TYPE RF</b>		<b>157</b>	<b>00 H.RF</b>

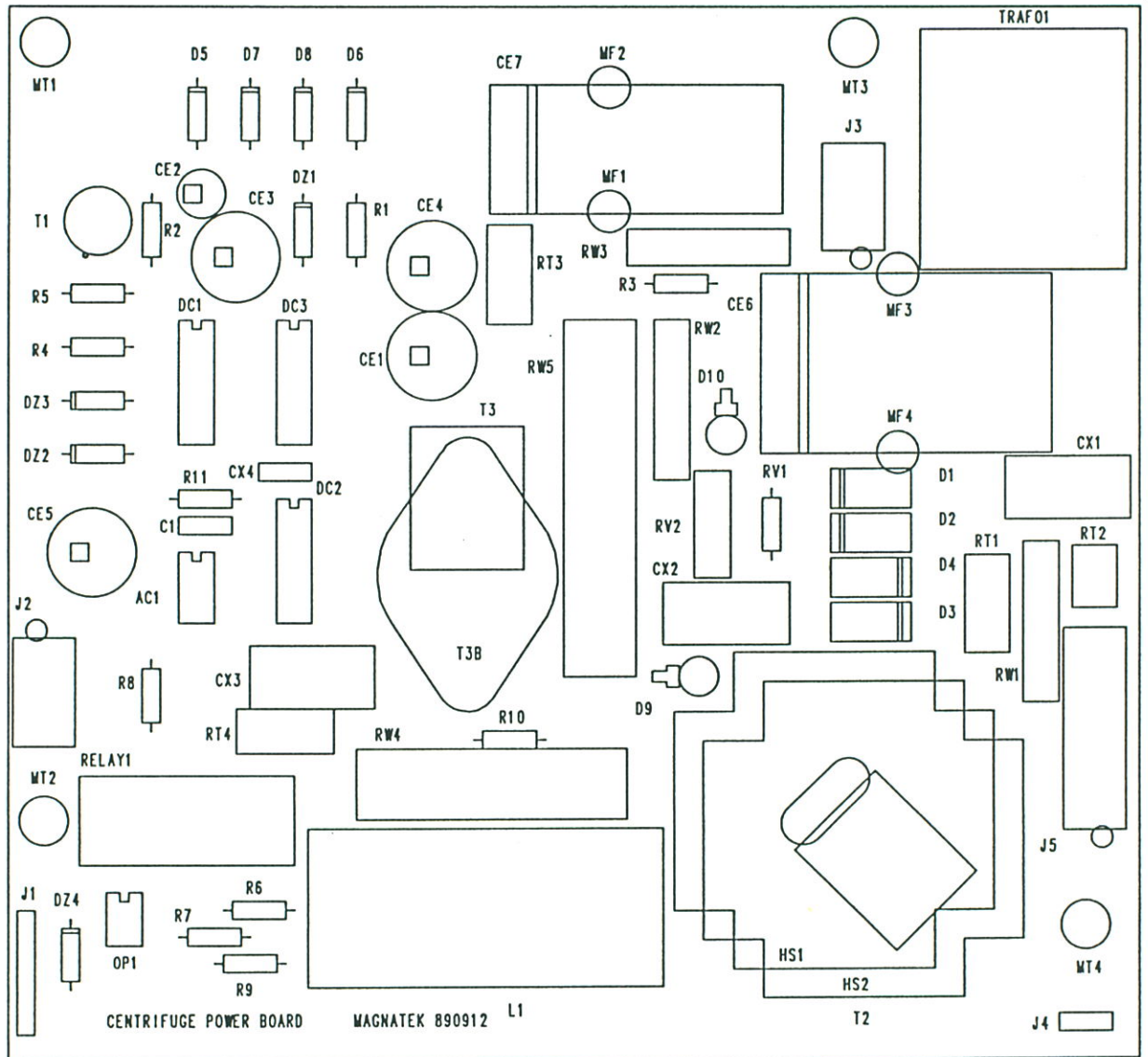


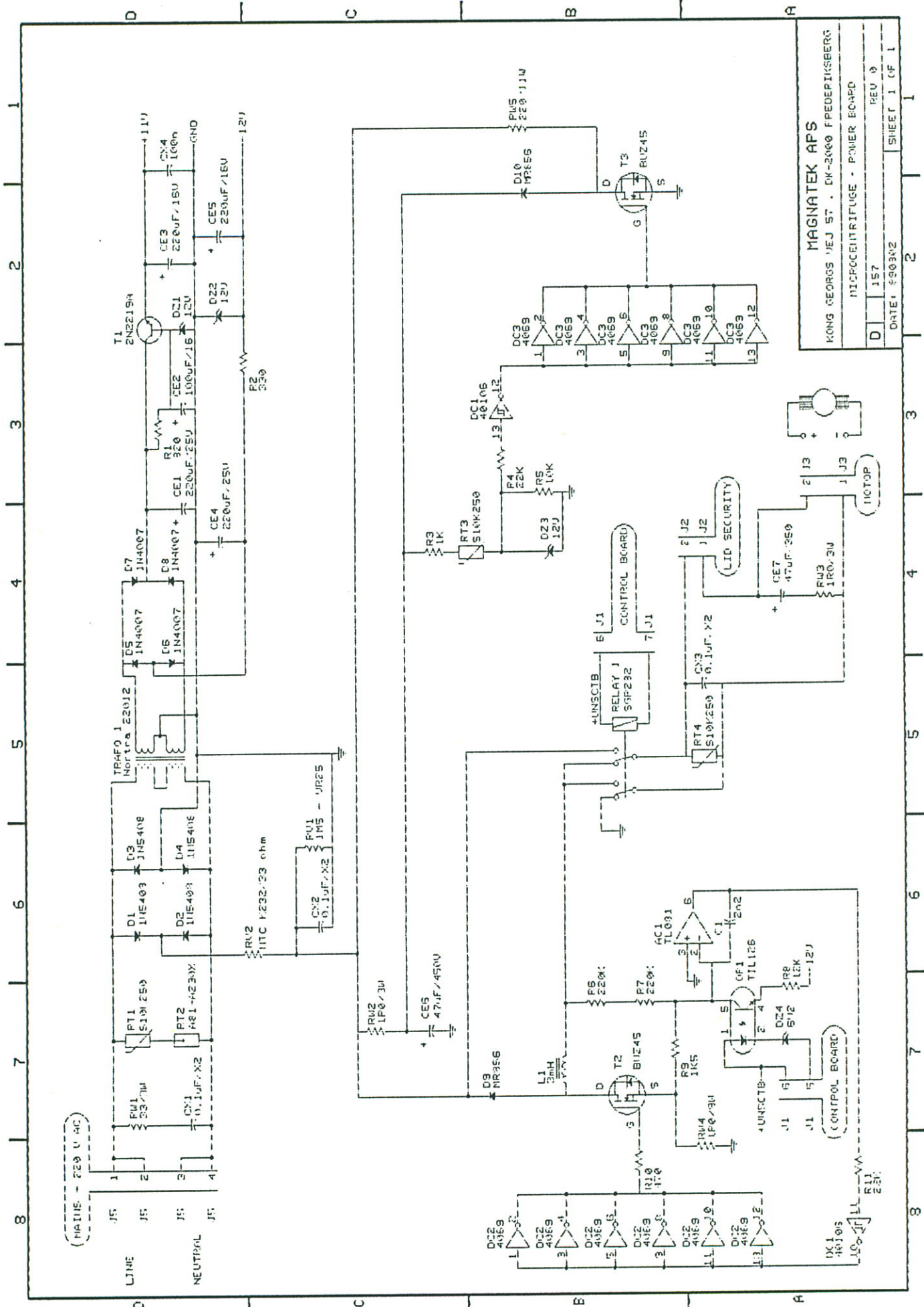
MAGNATEK APS  
 KONG GEORIS VEJ 97 . DM-2000 FFEDEFIKTERI  
 MICROCENTRALFUSE - ASSEMBLY  
 0 157 REV 1  
 DATE: 891222 SHEET 1 OF 1

Fig.15



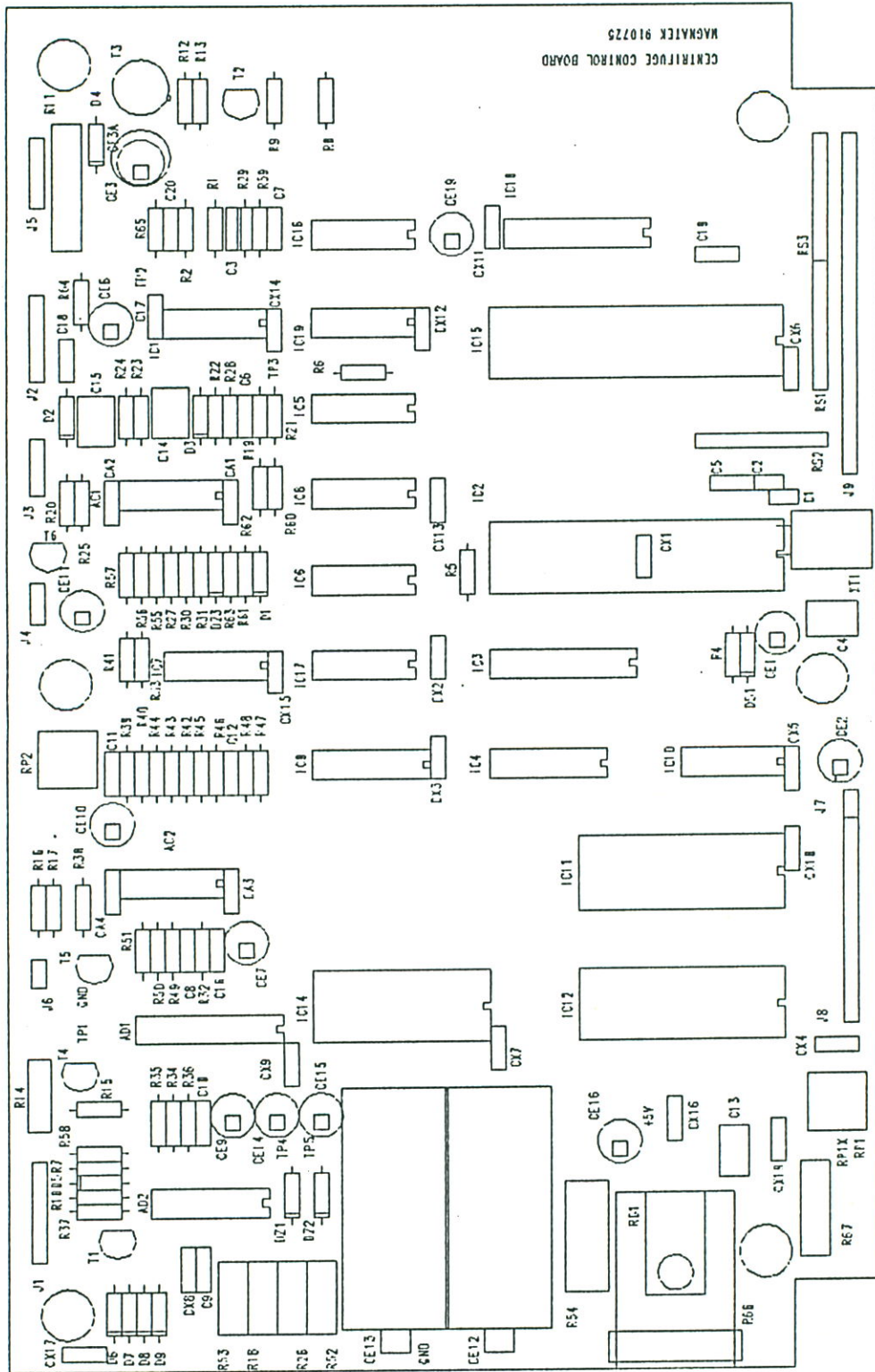
# Power-board





MAGNATEK APS  
 KONG GEORGS VEJ 57 · DK-2000 FREDERIKSBORG  
 MICROCENTRIFUGE - POWER BOARD  
 D 157 REV 0  
 DATE: 890302 SHEET 1 OF 1

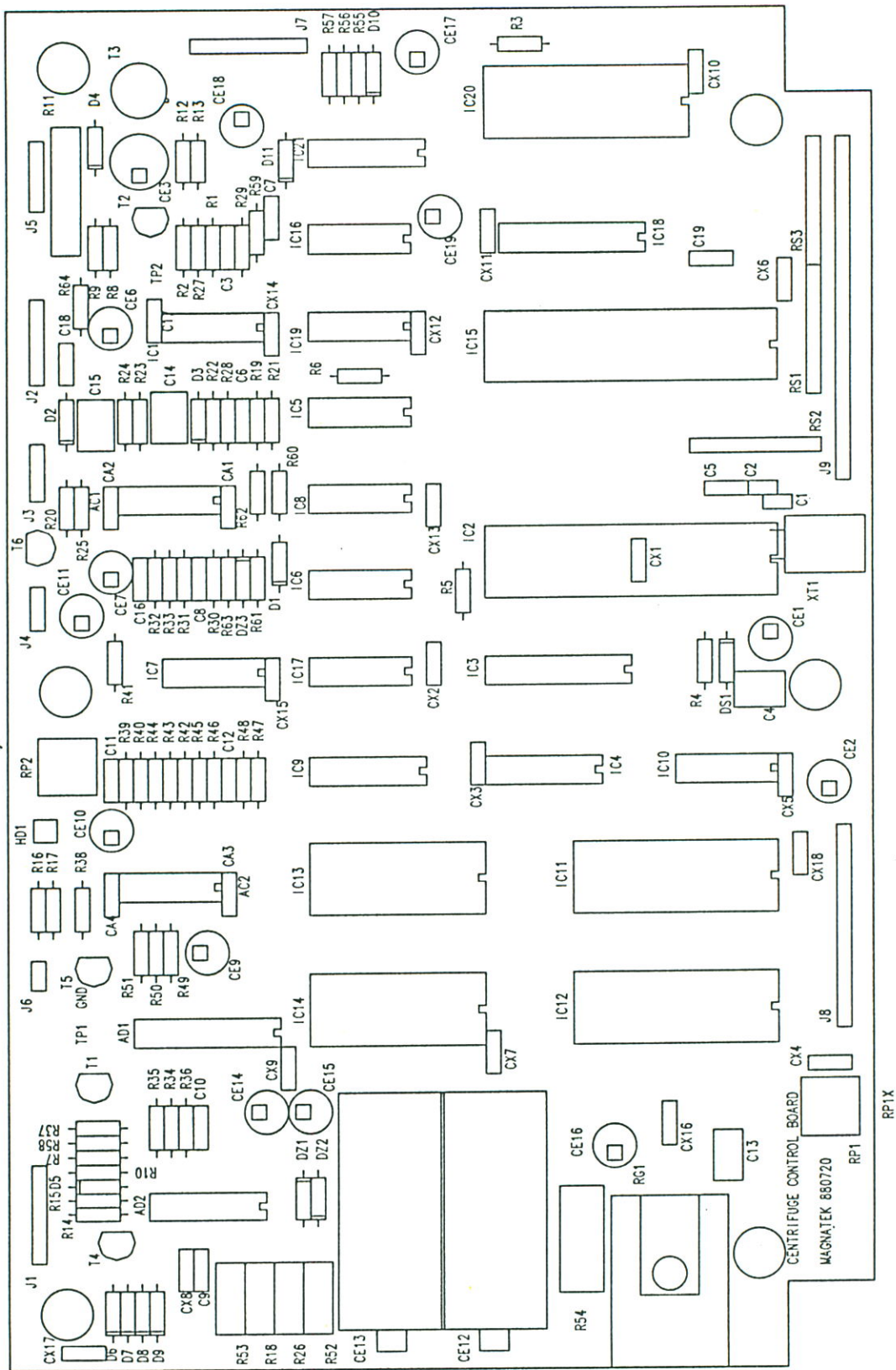
# MICROCENTRIFUGE CONTROL BOARD - MAGNATEK 910725



91 07 25

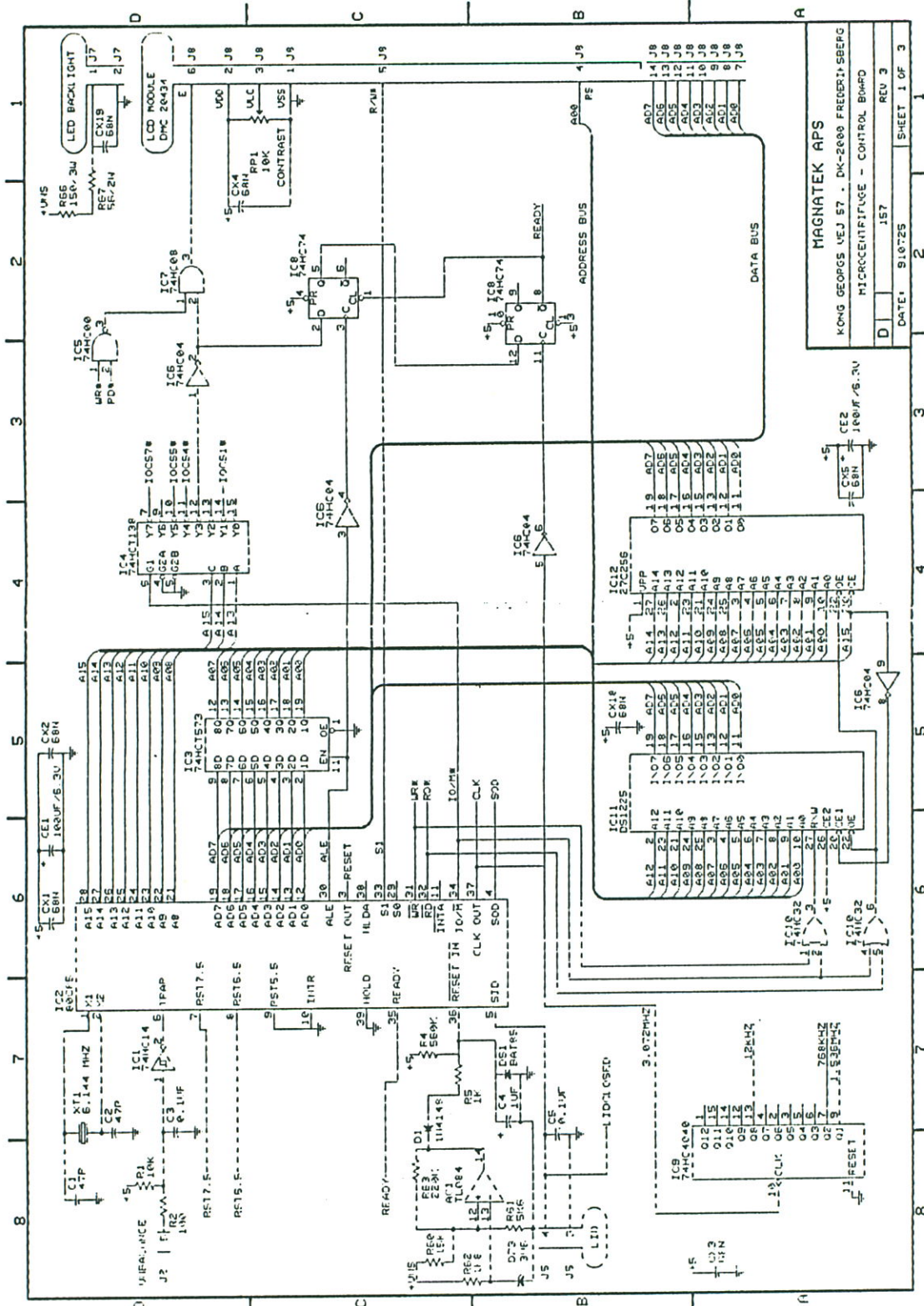
Fig.18

RP2



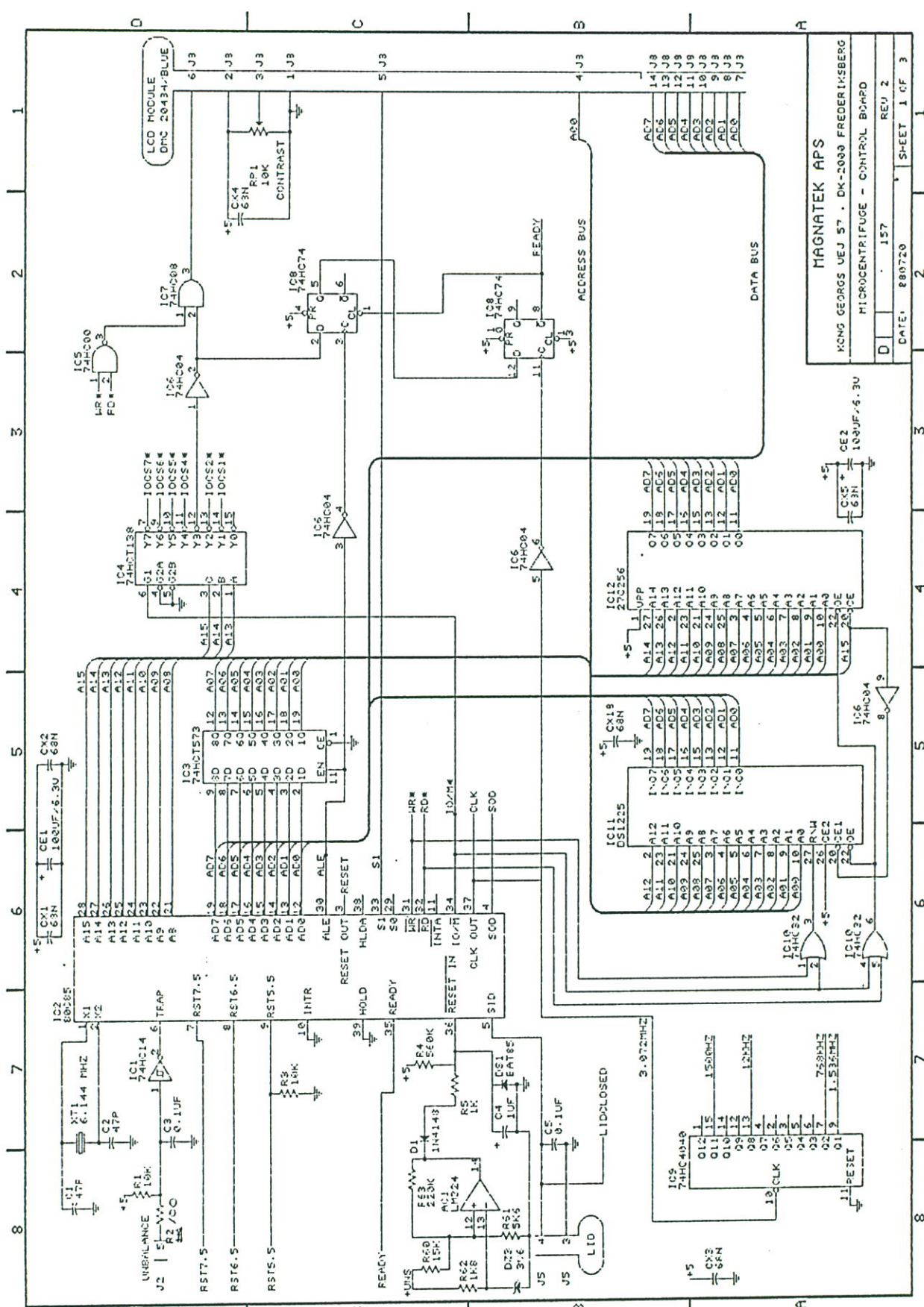
88.07.20

Fig.18



910725

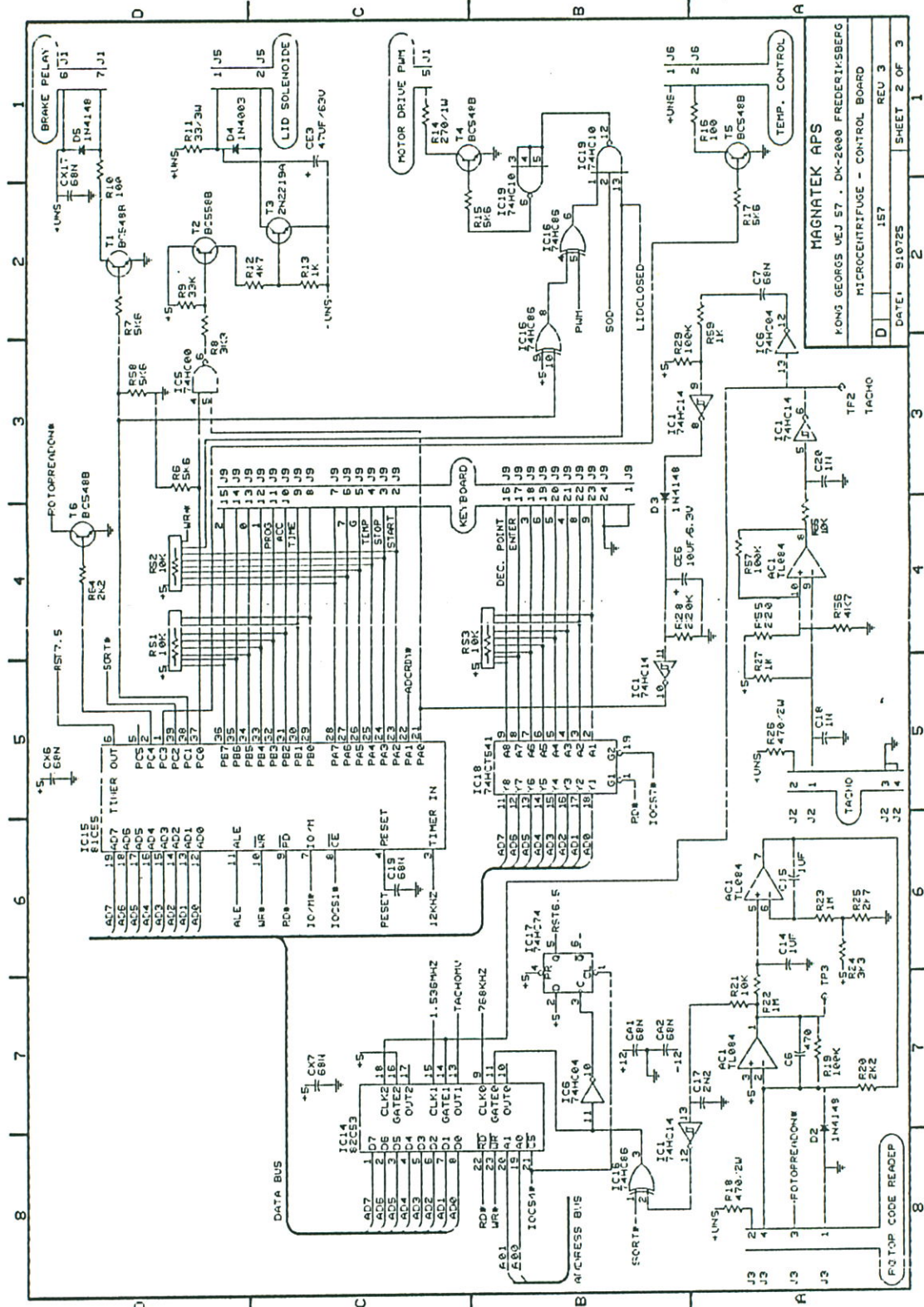
Fig. 19



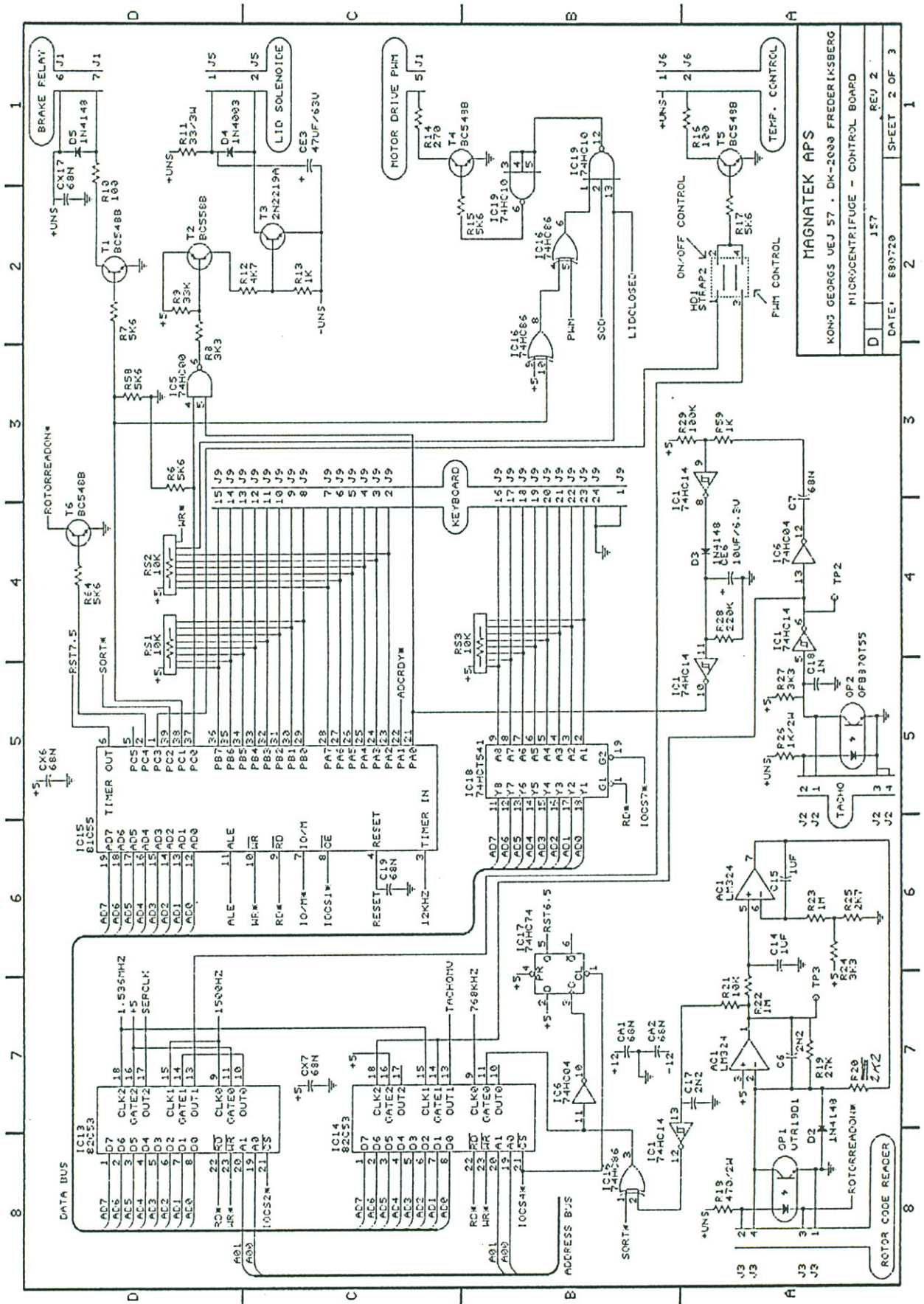
MAGNATEK APS  
 KING GEORGS UEJ 57 - DK-2000 FREDERIKSBERG  
 MICROCENTRIFUGE - CONTROL BOARD  
 DATE: 880720  
 REV 2  
 SHEET 1 OF 3

88 07 20

Fig.19



MAGNATEK APS  
 KONG GEORGE UJ 57 - DK-2000 FREDERTSBORG  
 MICROCENTRIFUGE - CONTROL BOARD  
 DATE: 510725 SHEET 2 OF 3



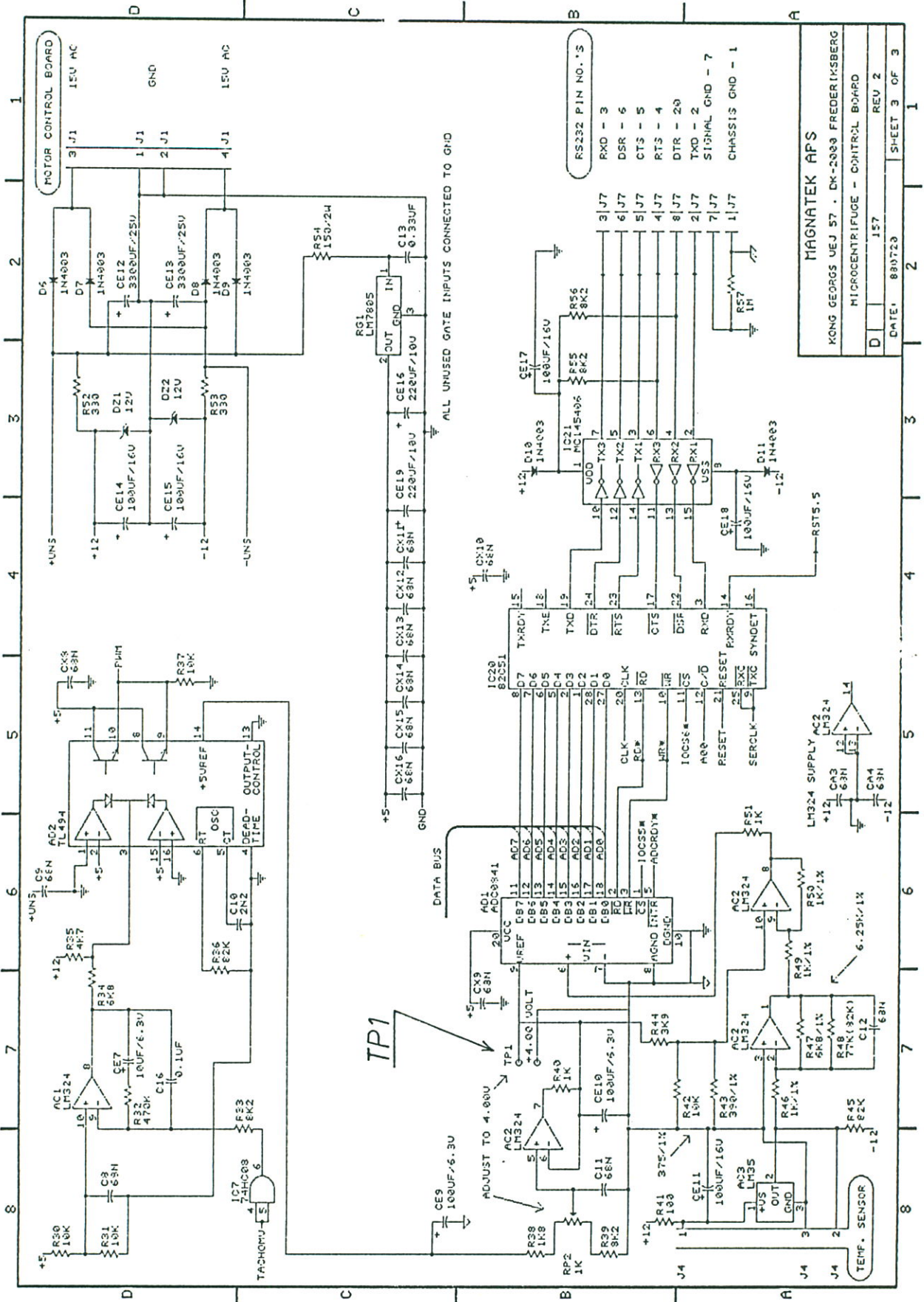
MAGNETEK APS  
 KONGS GEORGS VEJ 57 · DK-2000 FREDERIKSBERG  
 MICROCENTRIFUGE - CONTROL BOARD  
 D 157 REV 2  
 DATE: 690720 SHEET 2 OF 3

88 07 20

Fig.20







880720

Fig. 21

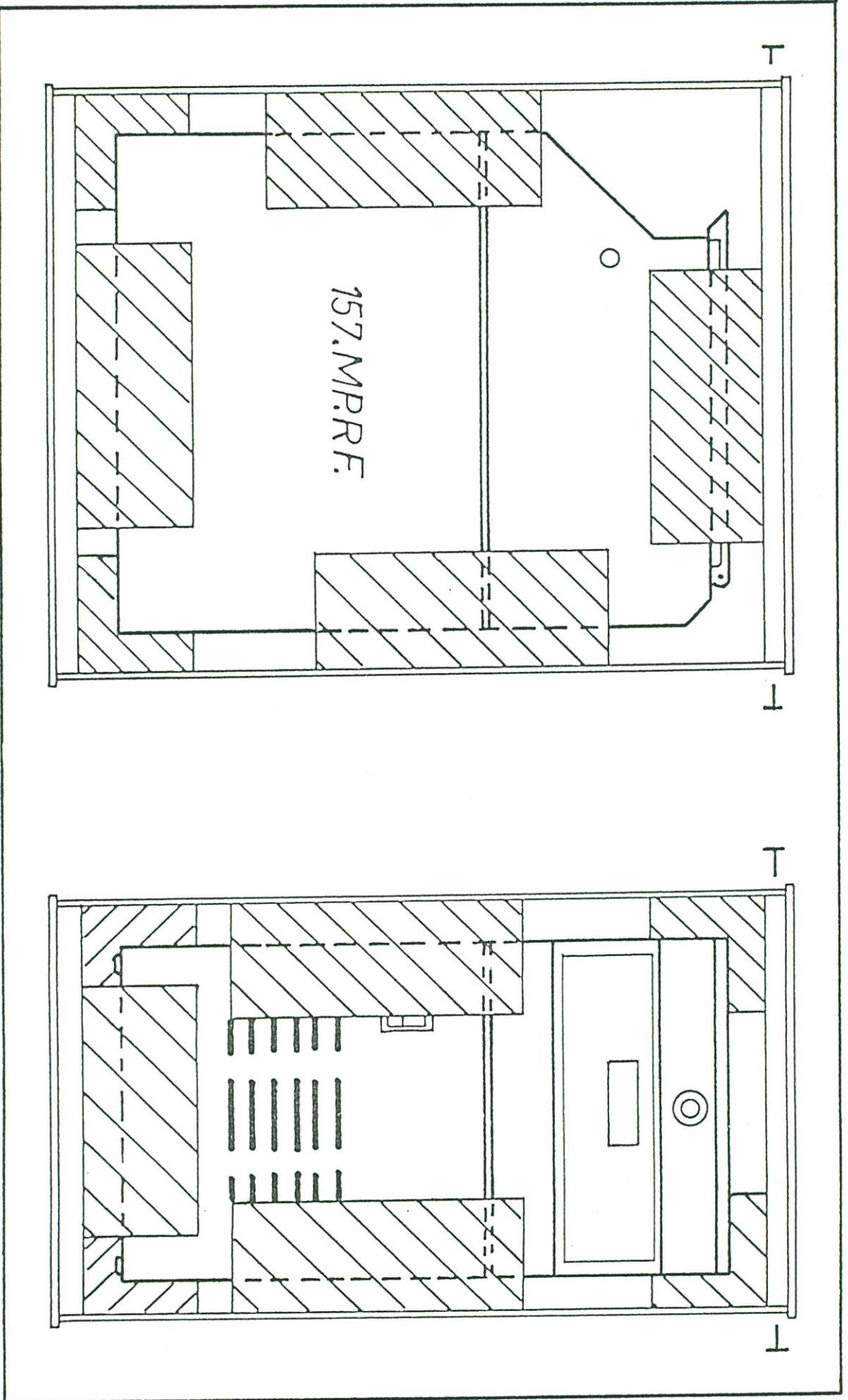


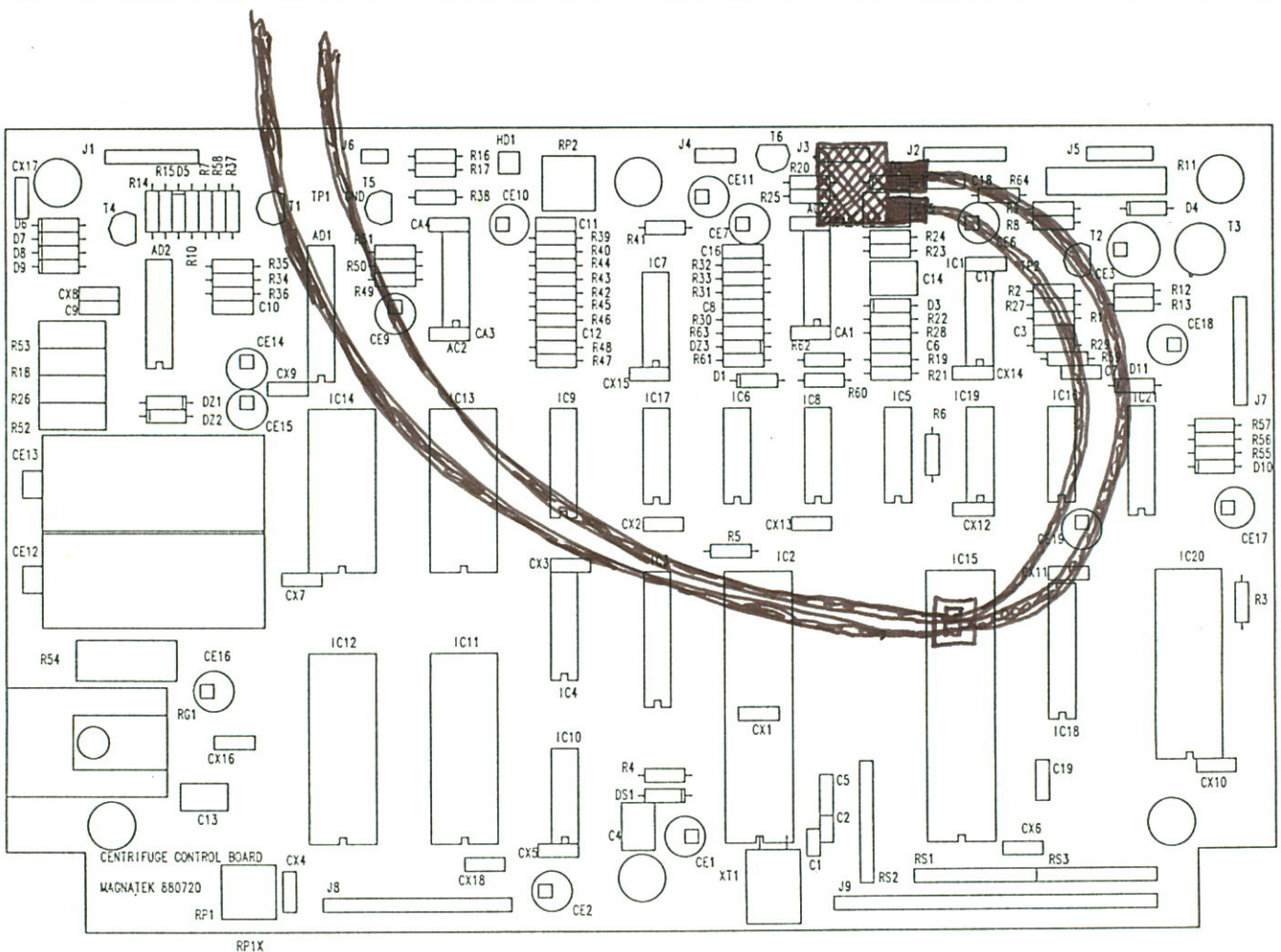
Fig. 24

Ole Dich Instrumentmakers Aps  
Tårnfalkevej 18 2650 Hvidovre.

Tlf + 45 31 78 41 85  
Fax + 45 31 78 64 65

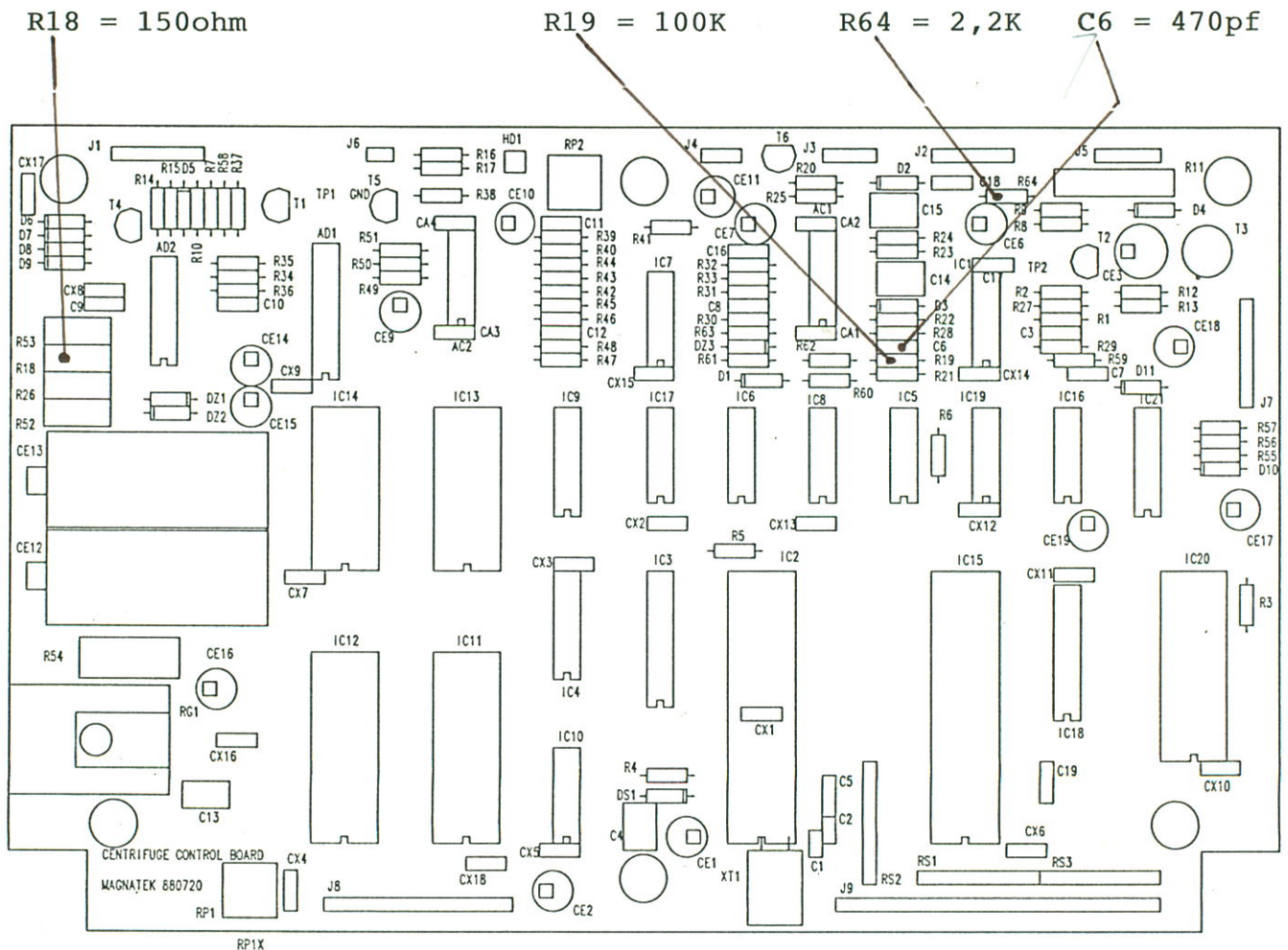
Replacement of electric rotorcodereader to optical cable rotorcodereader.

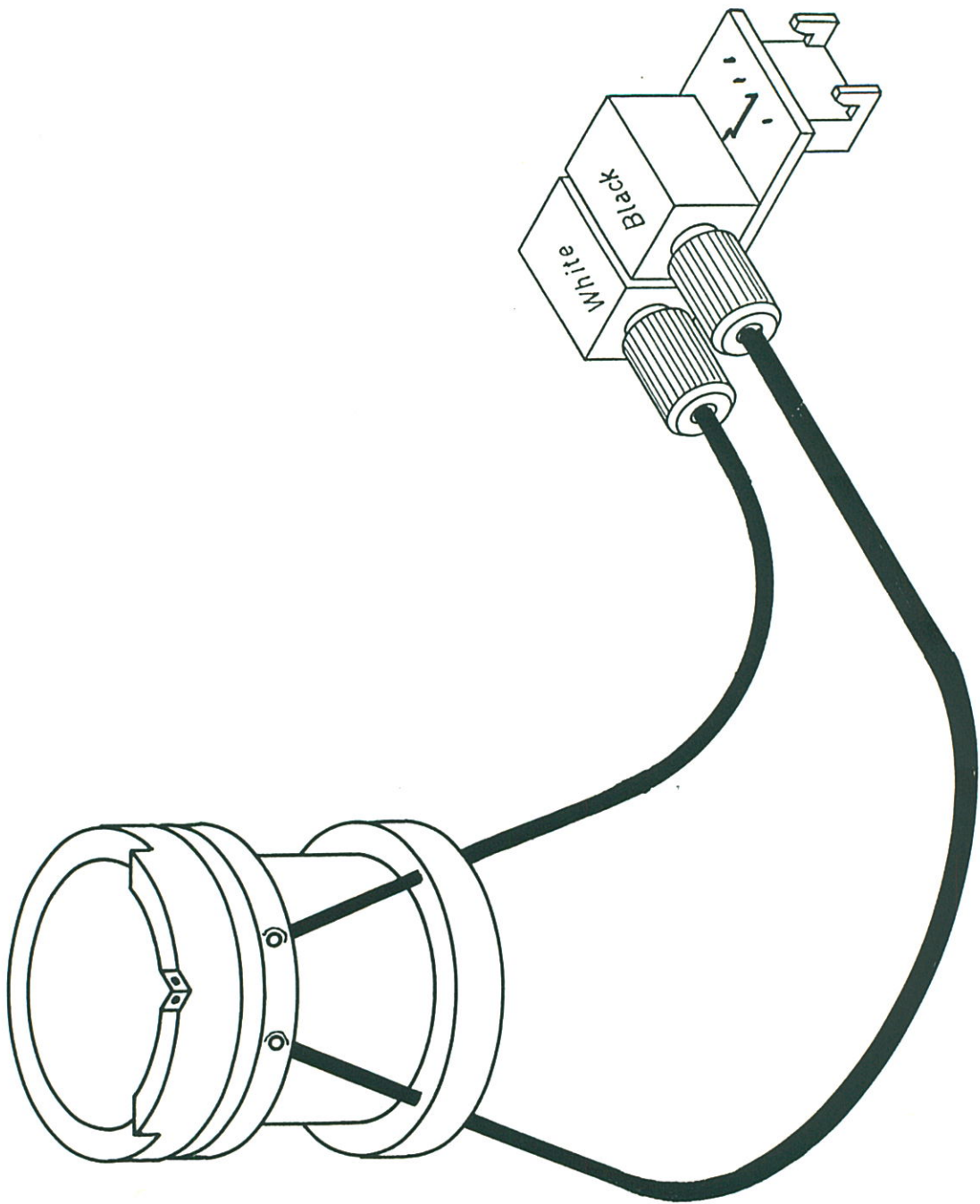
- 1 Dismantle the centrifuge in accordance with manual section:  
2.0.0 - 2.0.10 and 3.0.0 - 3.1.4.
- 2 Clean the opto-tacho unit in the notch. (Use a pipe cleaner or paper).
- 3 Mount the new unit 157.00.13 on the motorplate (optical cables point's to the left hand side).
- 4 Mount the motor and rotor system in accordance with manual section:  
5.2.0 - 5.2.1.
- 5 Place plug (J3) and glue this unit to the C15 capacitor.  
Fasten the optical cables in the holder on the top of IC 15.
- 6 Test the centrifuge in accordance with manual 2.2.0. - 2.2.6.
- 7 Short-circuit the transistor T6 and check AC voltage between GND and resistor R19's right hand side. (seen from the front of the control board). Rotor running at 200 x g. Voltage must be between 7 - 9 volt.
- 8 Assemble the cabinet and sideplates accordance with service manual  
5.3.0. - 5.3.6.



Replacement of electric rotorcodereader to optical cable rotorcodereader.

- 1 Dismantle the centrifuge in accordance with manual section:  
2.0.0 - 2.0.10 and 3.0.0 - 3.1.4.
- 2 Mount the new unit 157.00.13 on the motorplate (optical cables  
point's to the left hand side).
- 3 Mount the motor and rotor system in accordance with manual section:  
5.2.0 - 5.2.1.
- 4 Change resistor's R18, R19, R64 and capacitor C6 on the control  
board. (shown below).
- 5 Place plug (J3) and glue this unit to the C15 capacitor.  
(Use silicone glue)
- 6 Test the centrifuge in accordance with manual 2.2.0. - 2.2.6.
- 7 Short-circuit the transistor T6 and check AC voltage between GND and  
resistor R19's right hand side. (seen from the front of the control  
board). Rotor running at 200 x g. Voltage must be between 7 - 9 volt.
- 8 Assemble the cabinet and sideplates accordance with service manual  
5.3.0. - 5.3.6.





Materiale	Lære nr.:	<b>OLE DICH</b> Avedøreholmen 18 2650 Hvidovre (01) 78 41 85	Målforhold	K.	
				T.	
				G.	
Model nr.:					