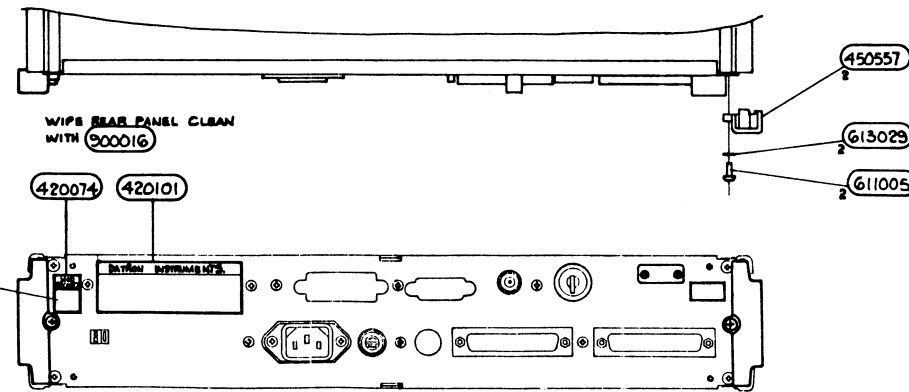
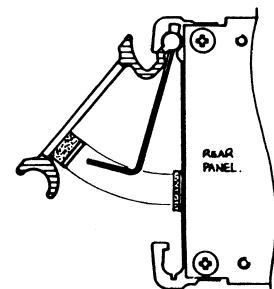
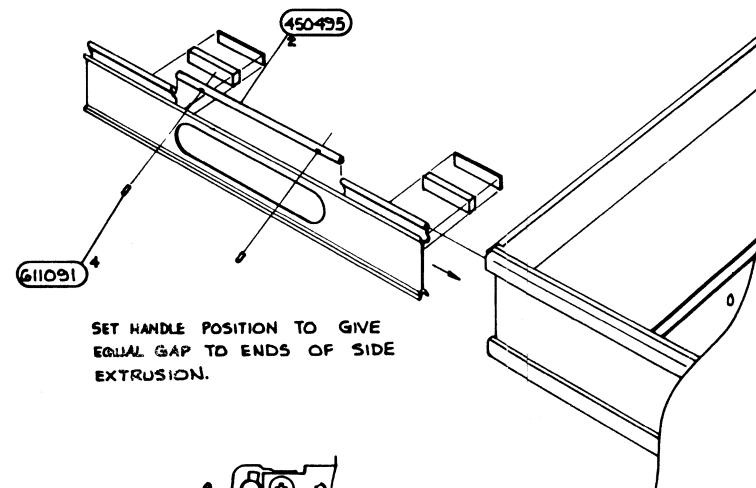
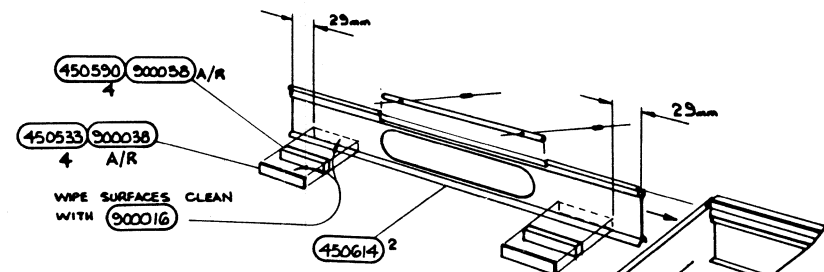
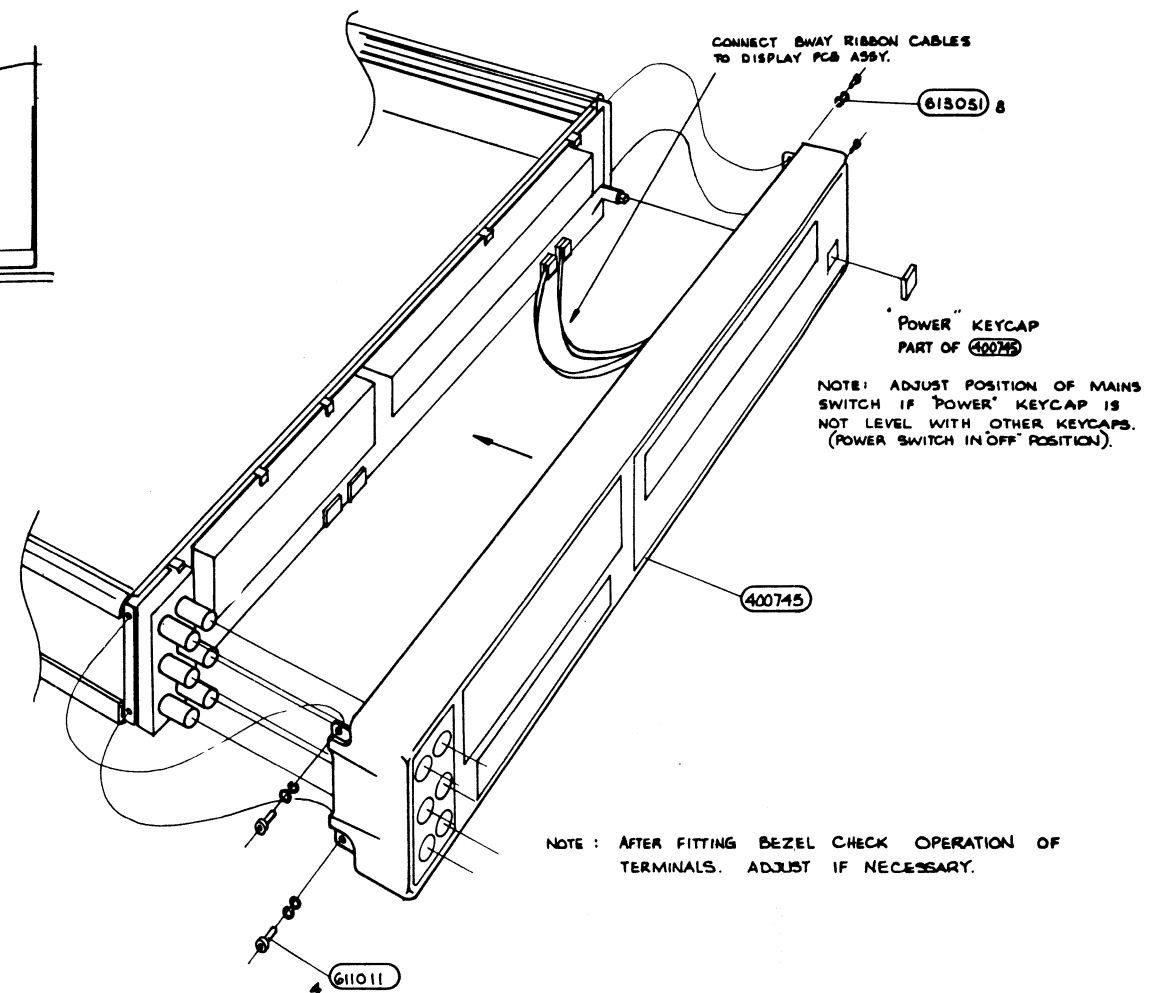
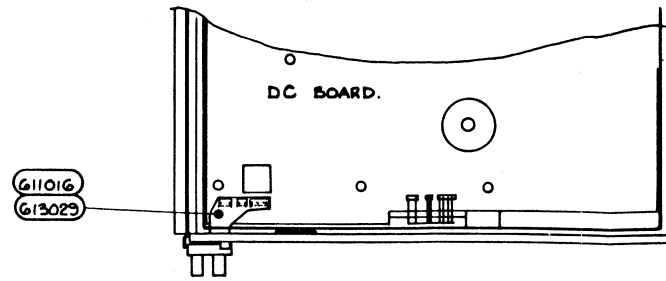
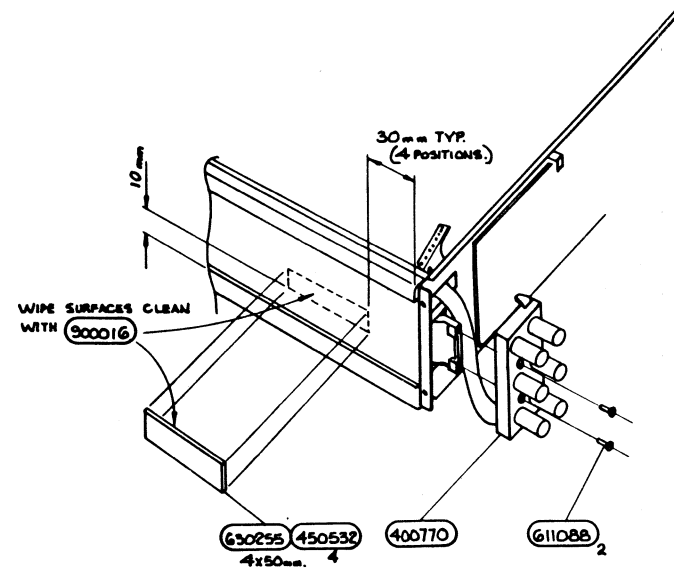
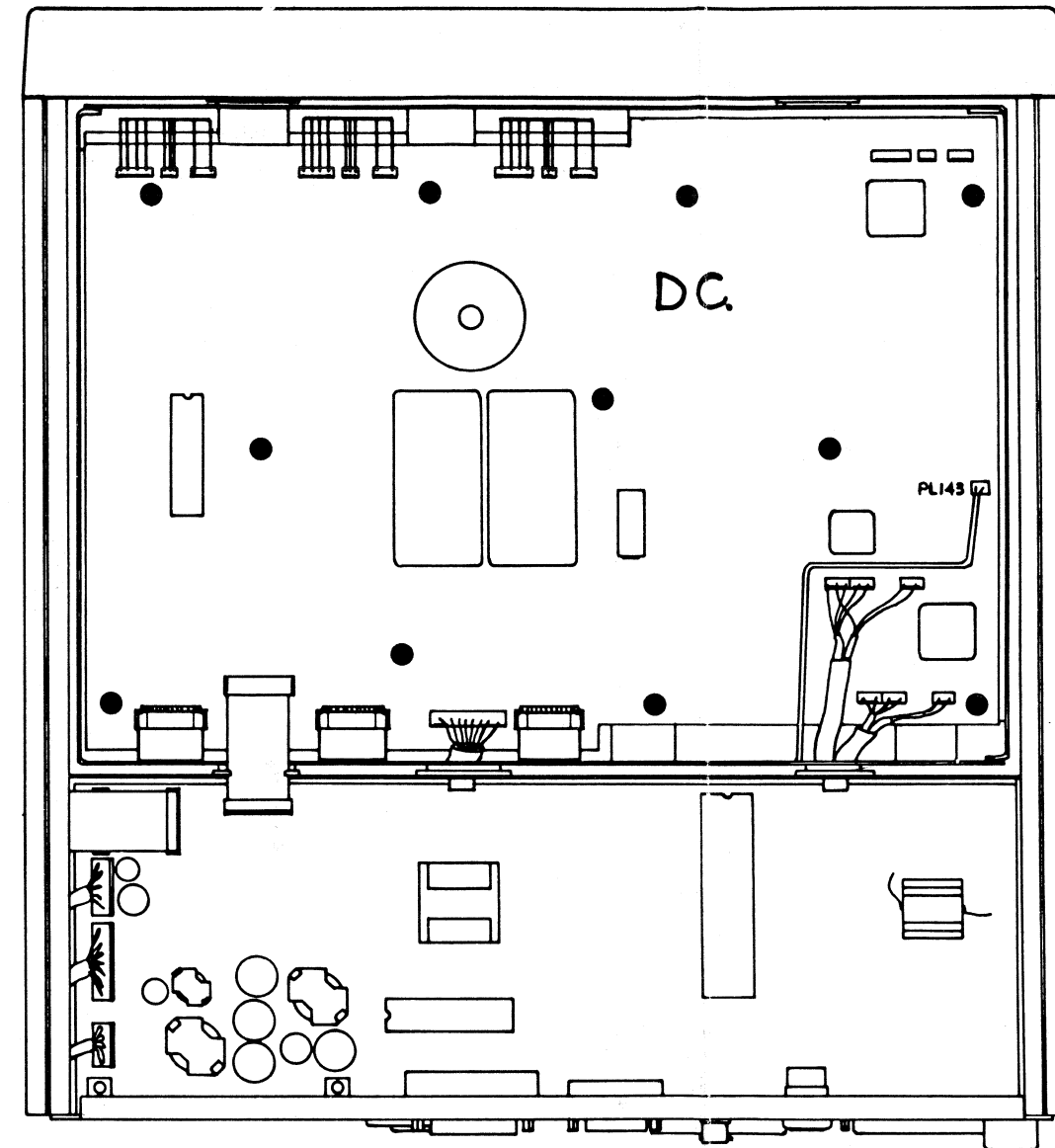
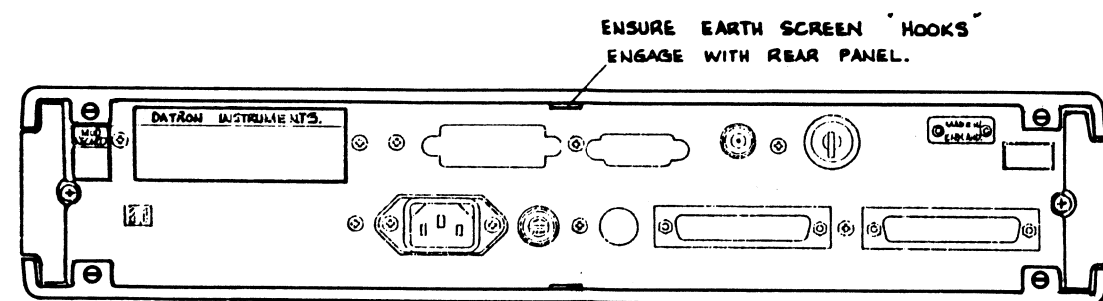
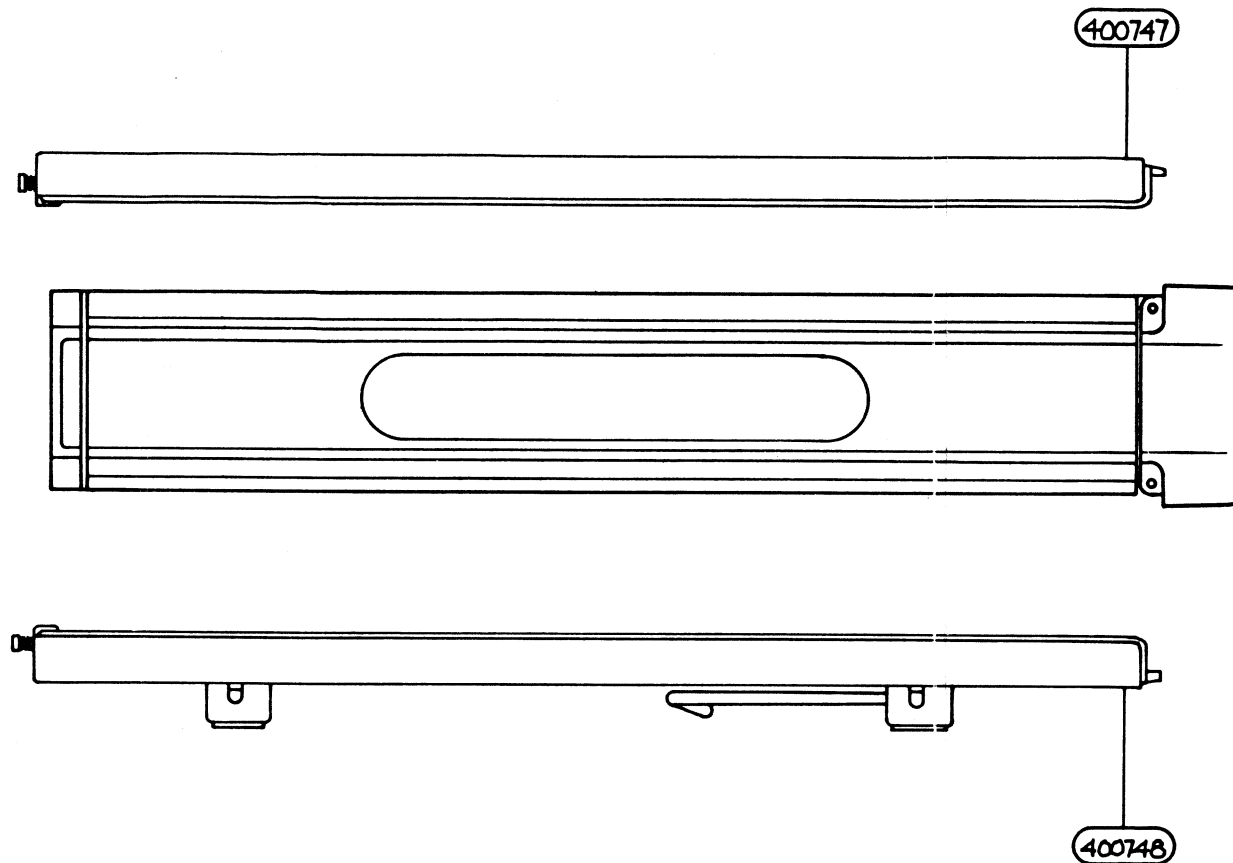


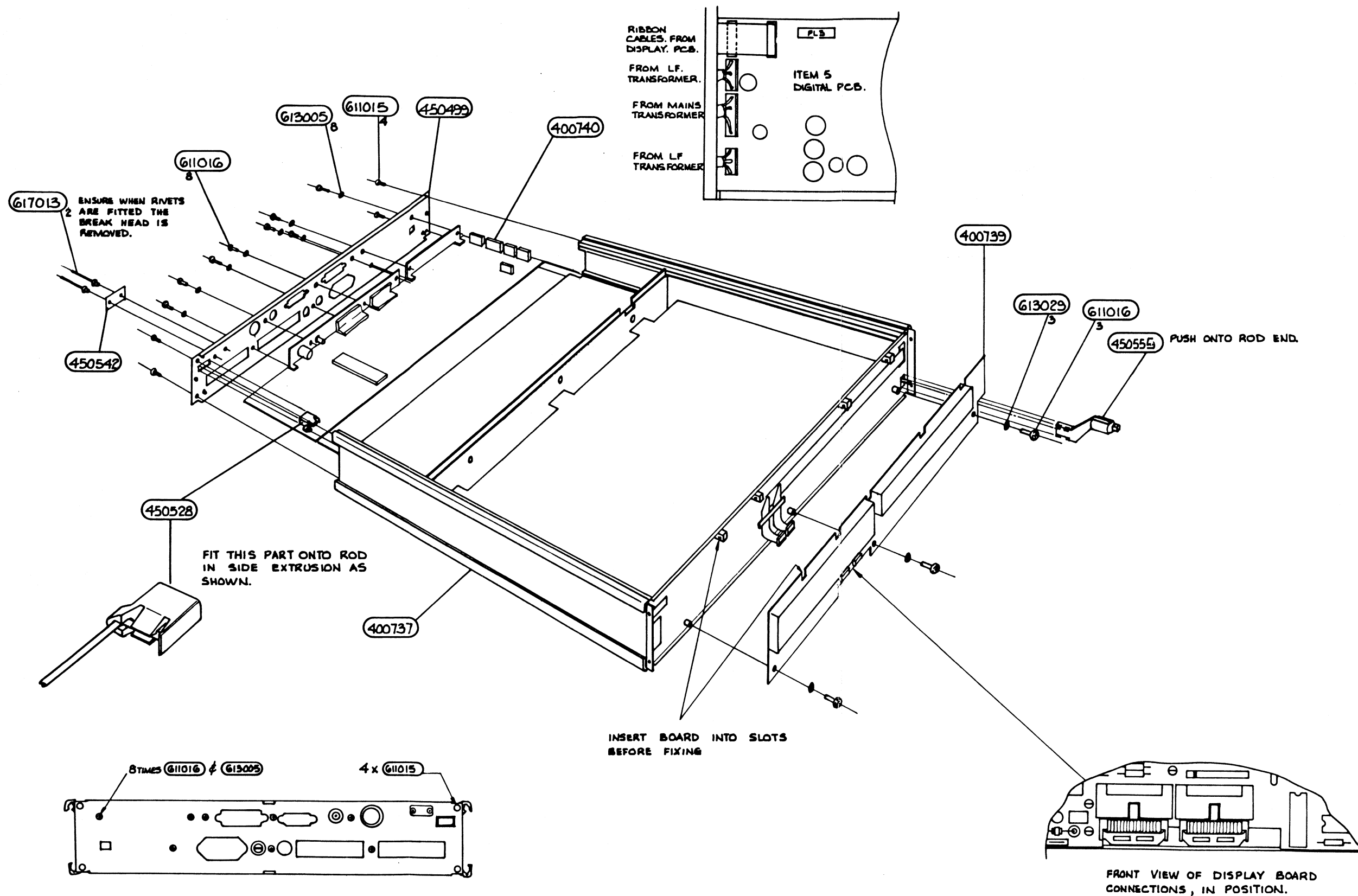
FIT REQUIRED OPTION BOARDS IN POSITIONS SHOWN, SECURE TO CENTRE SHIELD USING NYLATCH PRESS FASTENERS. (2 & 1)
(AC BOARD FIXED BY SCREWS).

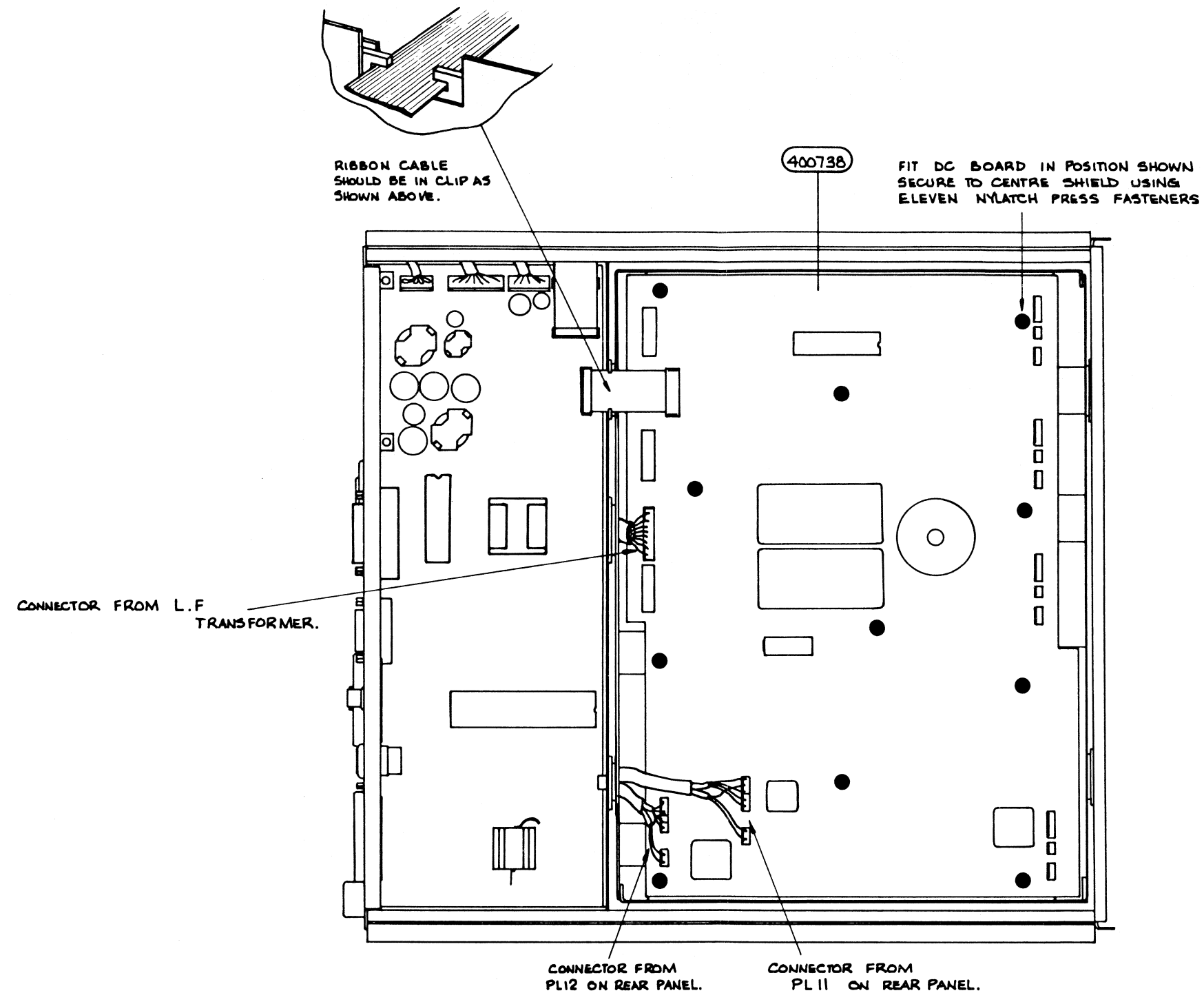


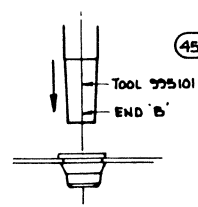
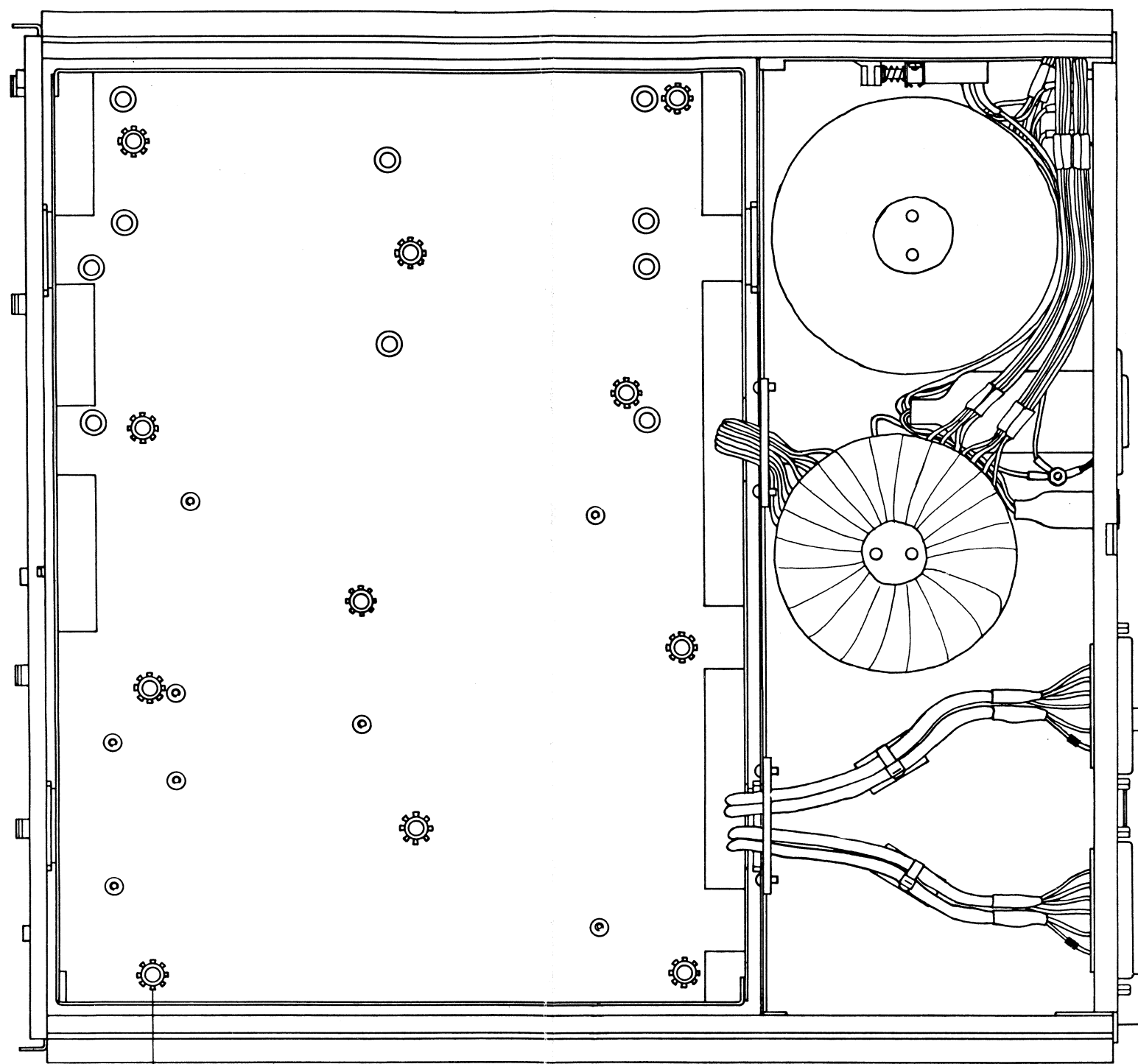
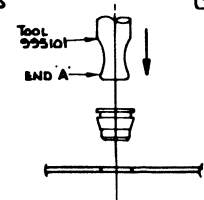
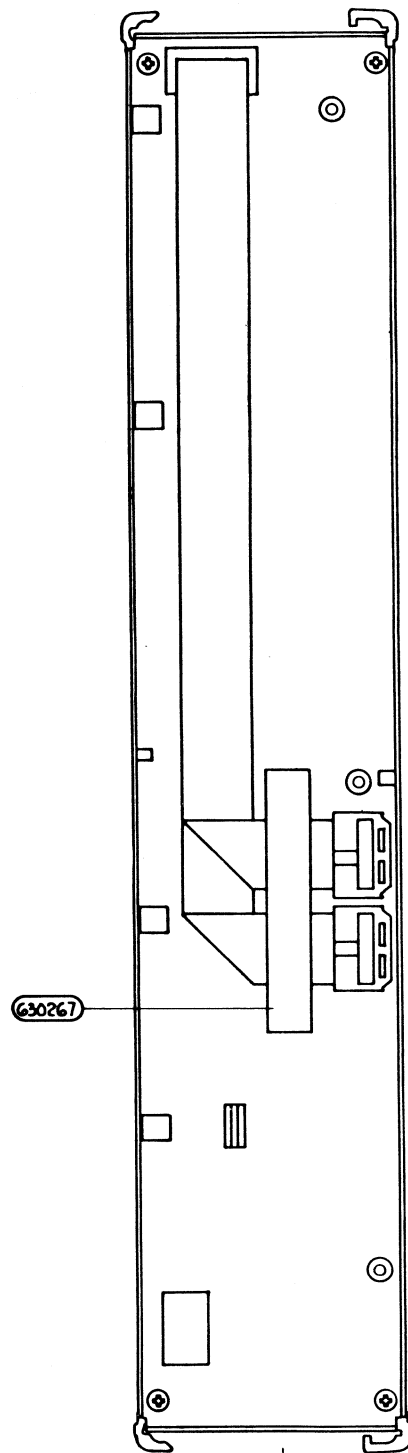
TOP VIEW

Sheet 2

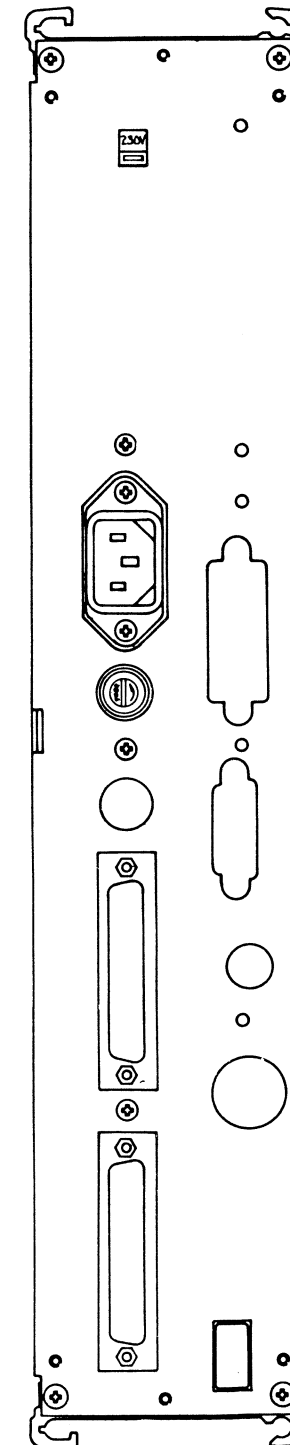


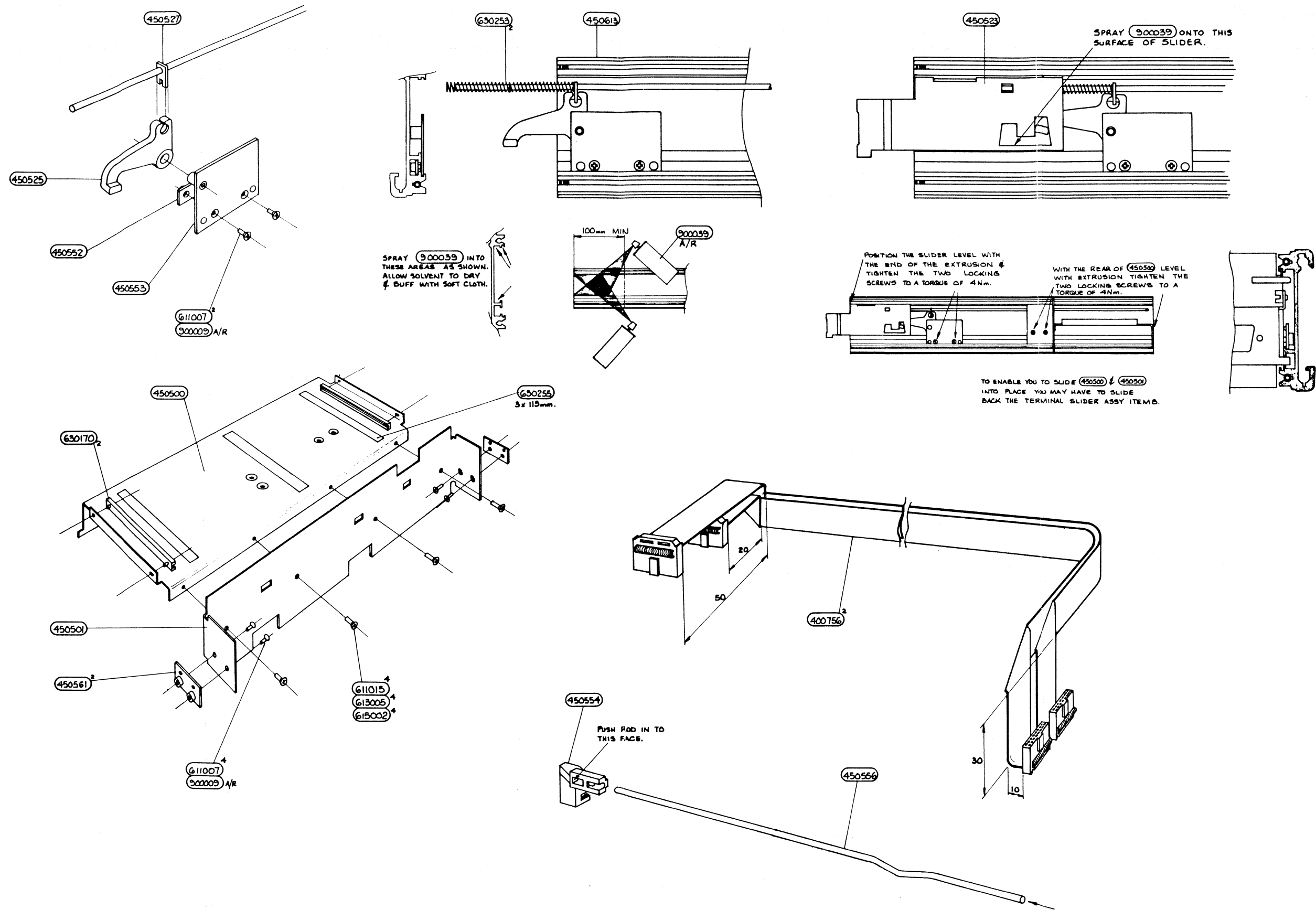






FIT IT FROM THIS SIDE & 10
FROM OPPOSITE SIDE. USE TOOLS
AS SHOWN.

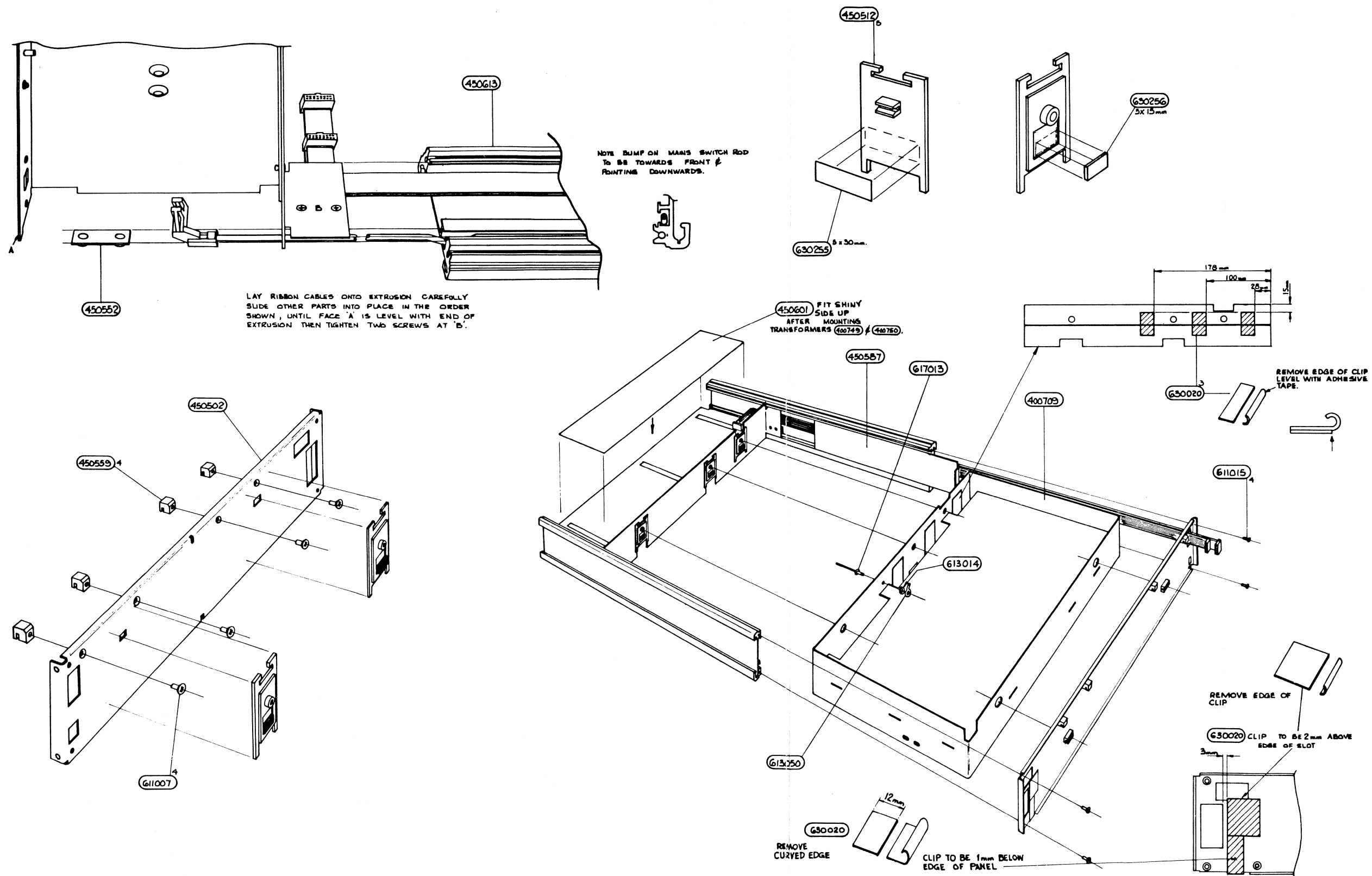




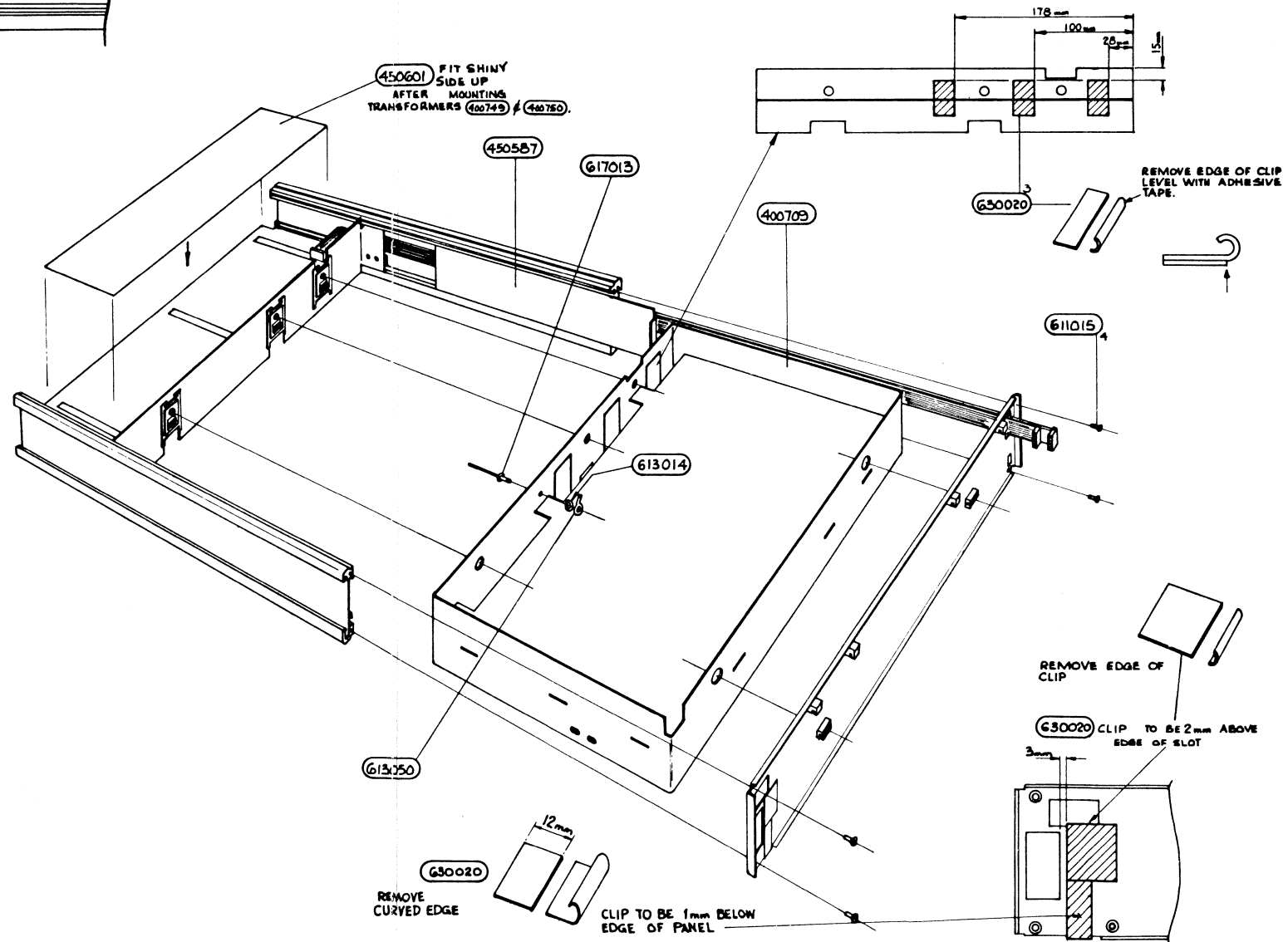
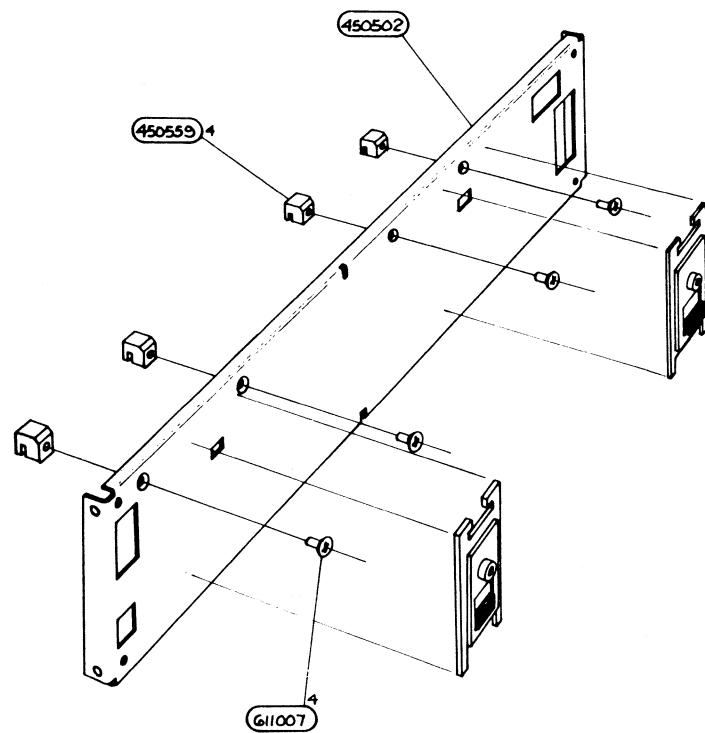
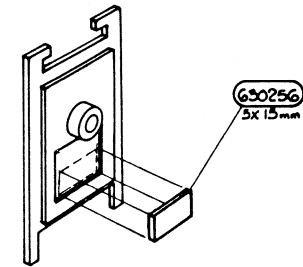
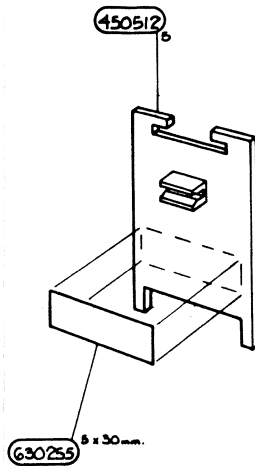
CHASSIS ASSEMBLY

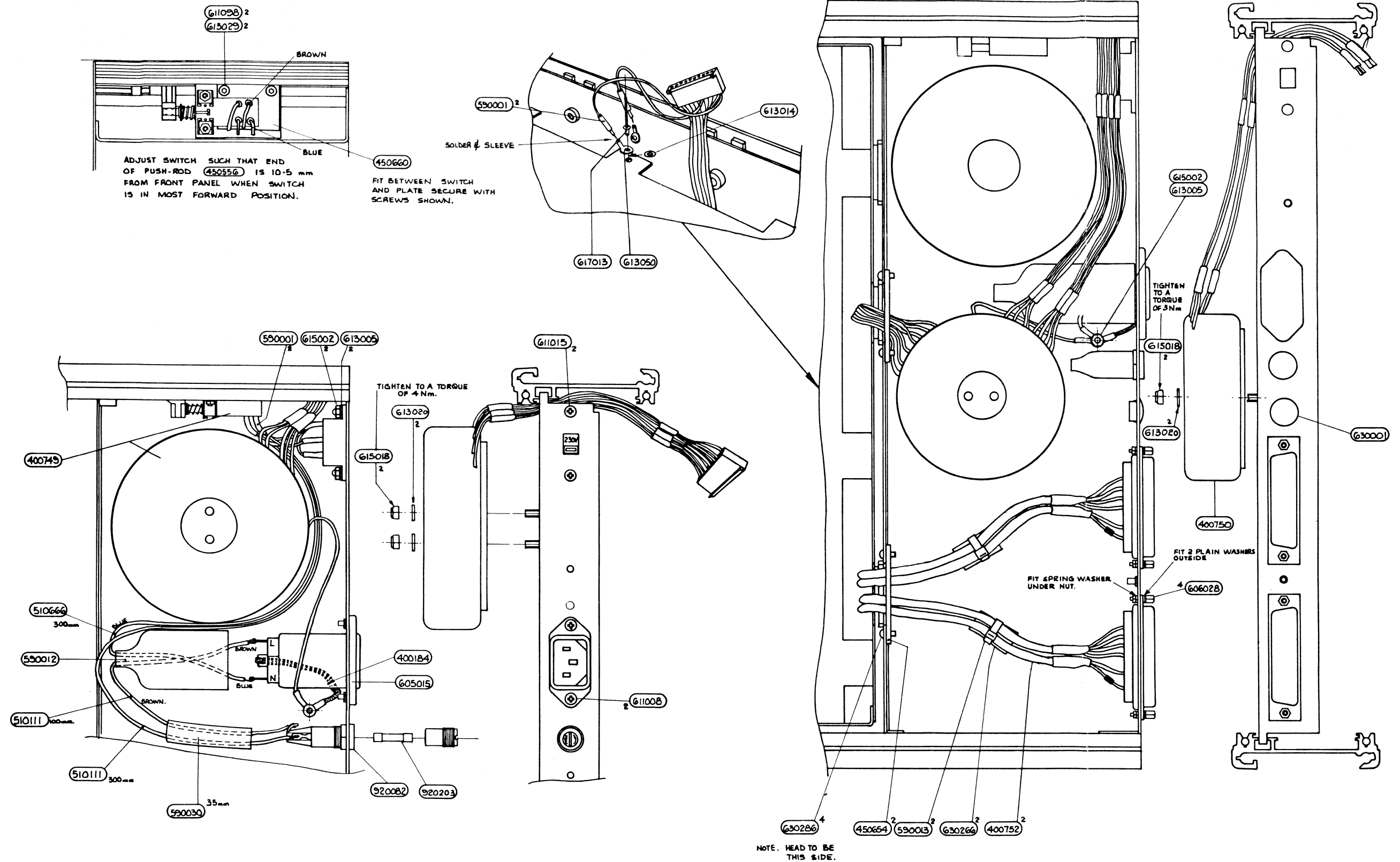
Drawing No. 480737

Sheet 2



LAY RIBBON CABLES ONTO EXTRUSION CAREFULLY
SLIDE OTHER PARTS INTO PLACE IN THE ORDER
SHOWN, UNTIL FACE 'A' IS LEVEL WITH END OF
EXTRUSION THEN TIGHTEN TWO SCREWS AT 'B'.

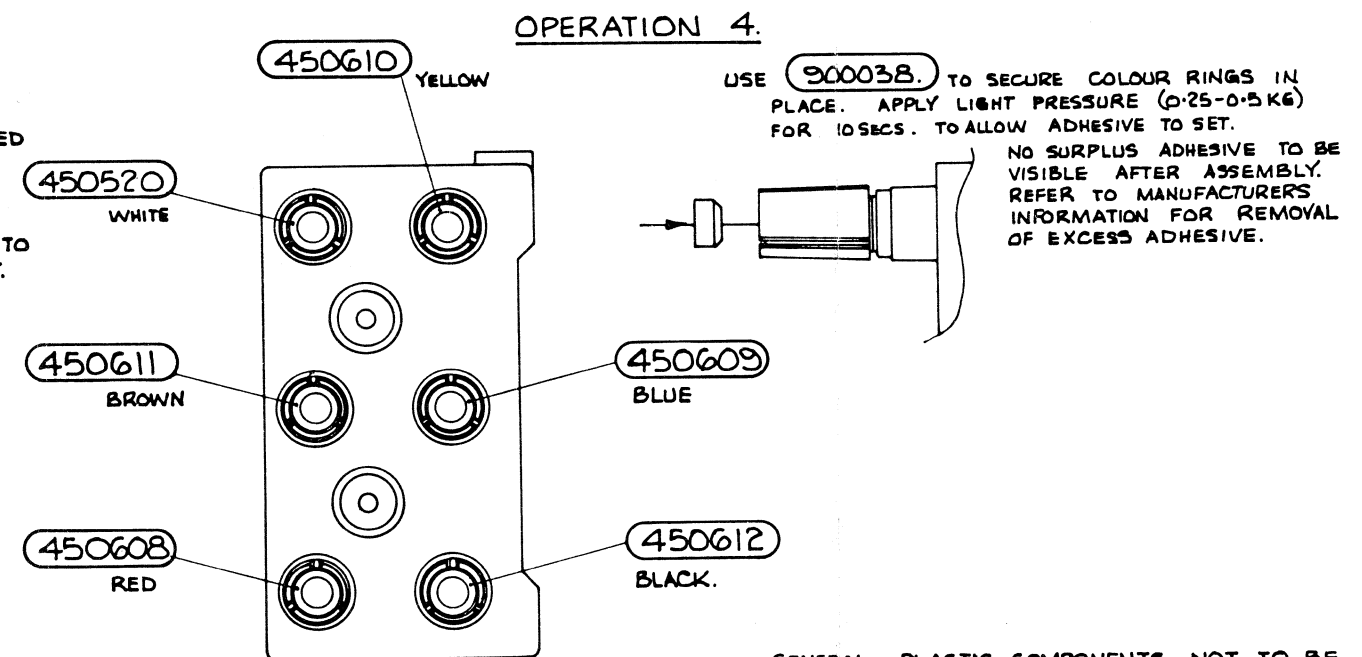
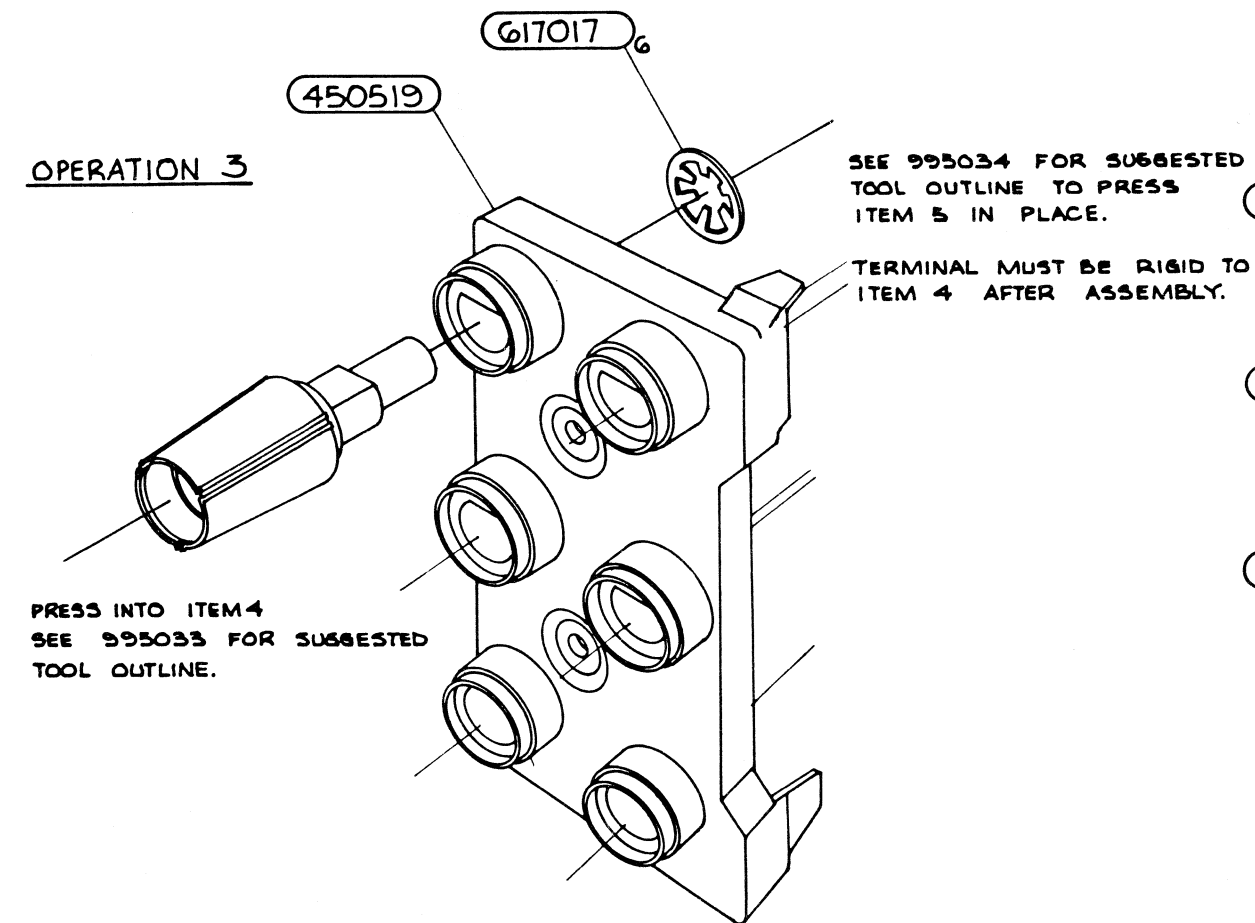
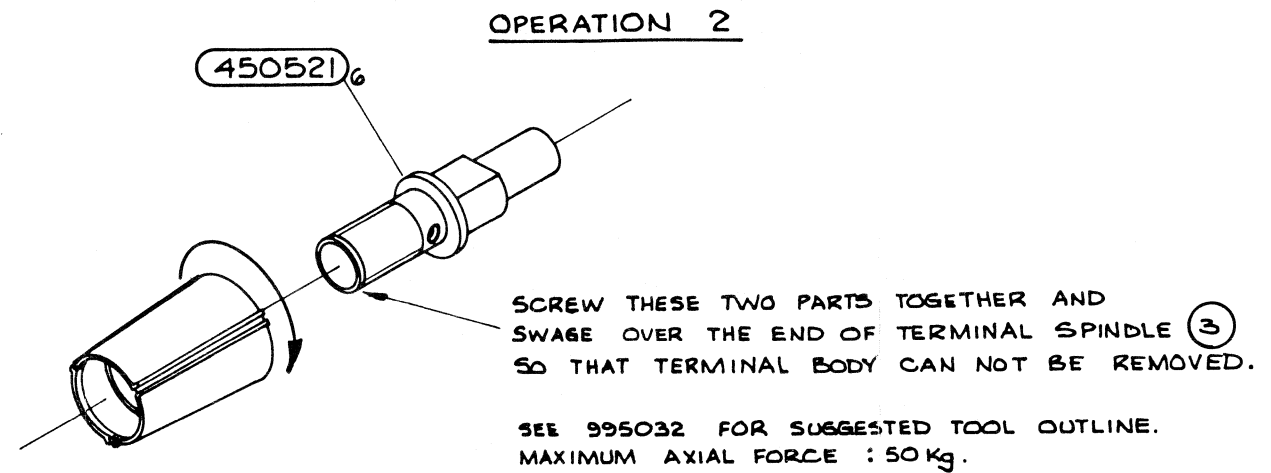
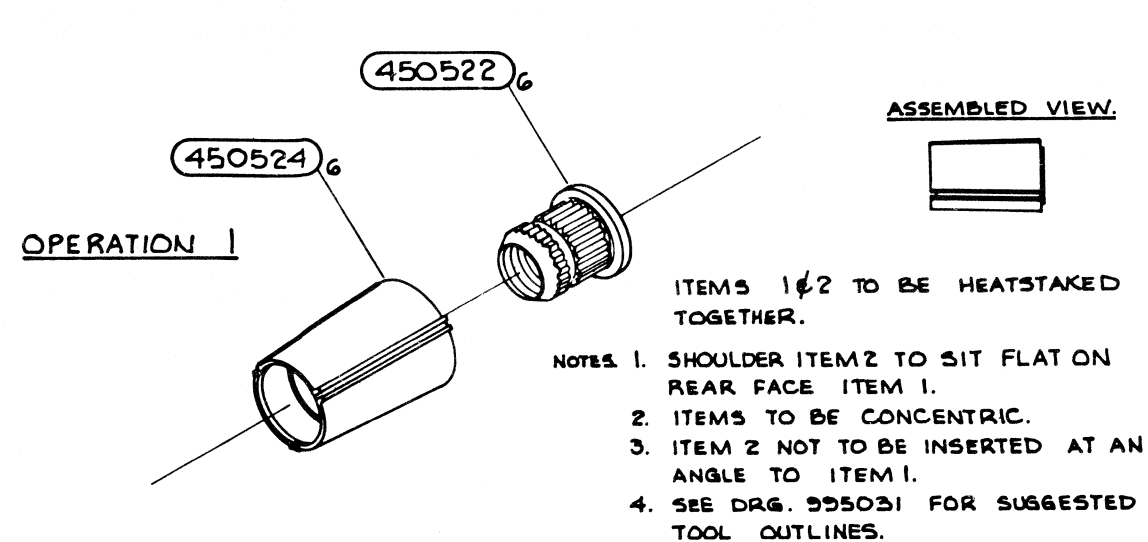




CHASSIS ASSEMBLY

Drawing No. 480737

Sheet 4

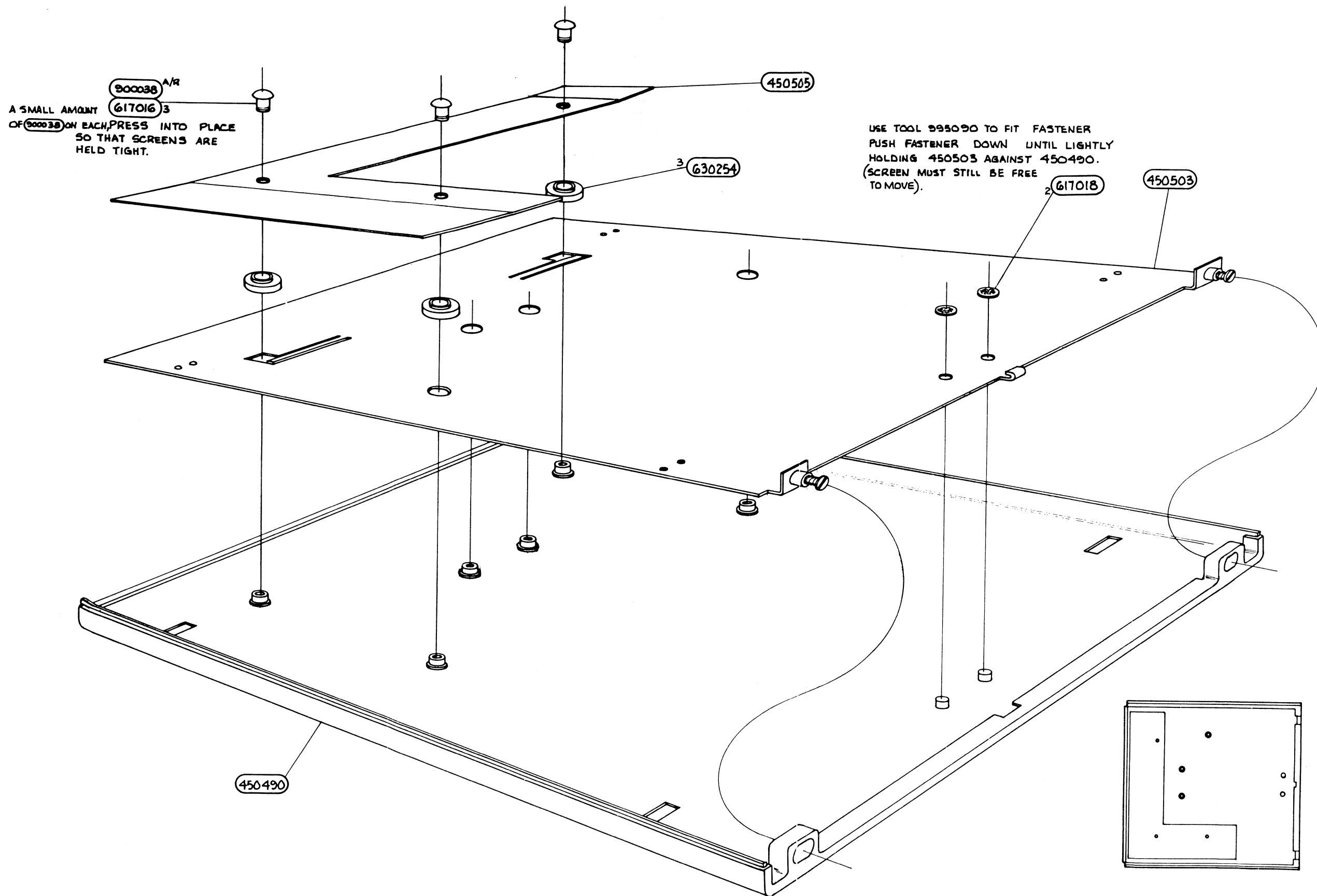


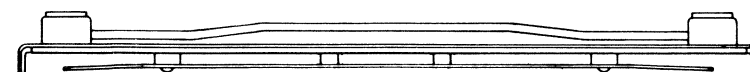
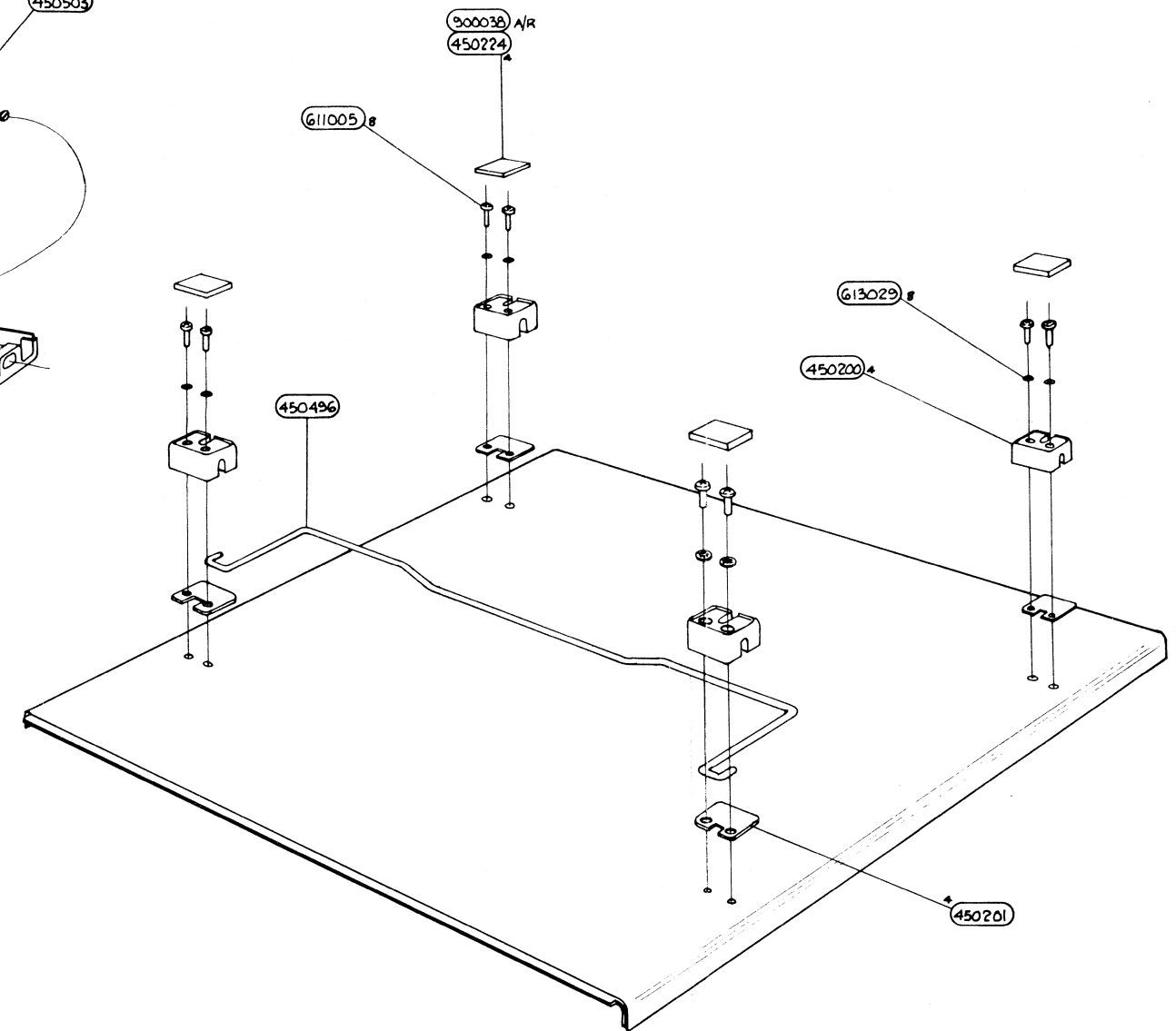
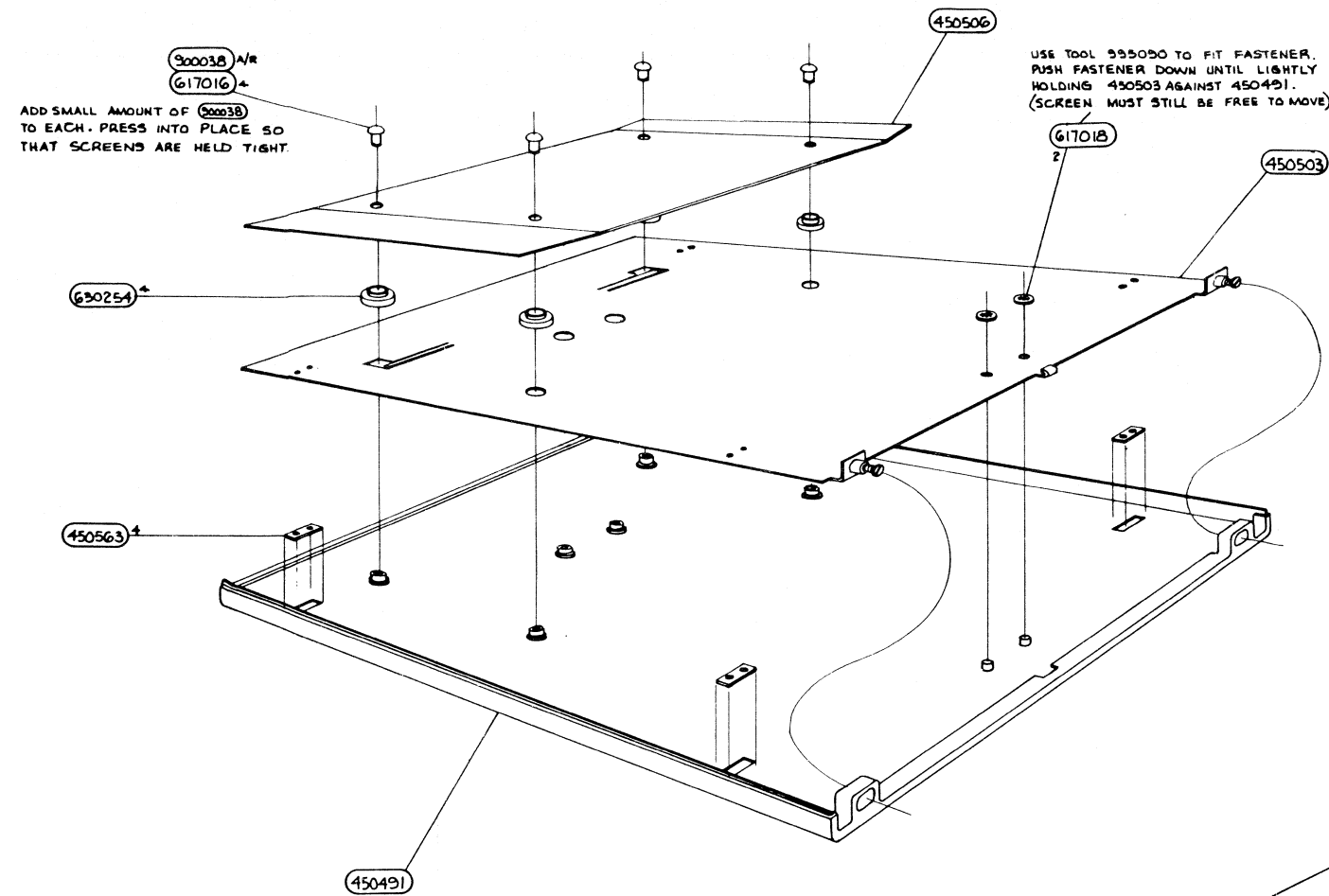
GENERAL. PLASTIC COMPONENTS NOT TO BE DAMAGED BY ASSEMBLY PROCESS. USE OF SUGGESTED TOOLS IS RECOMMENDED. ALL TERMINALS TO BE PERPENDICULAR TO BASE AND RUN TRUE ON THREADS.

TERMINAL MECHANICAL ASSEMBLY

Drawing No. 480746

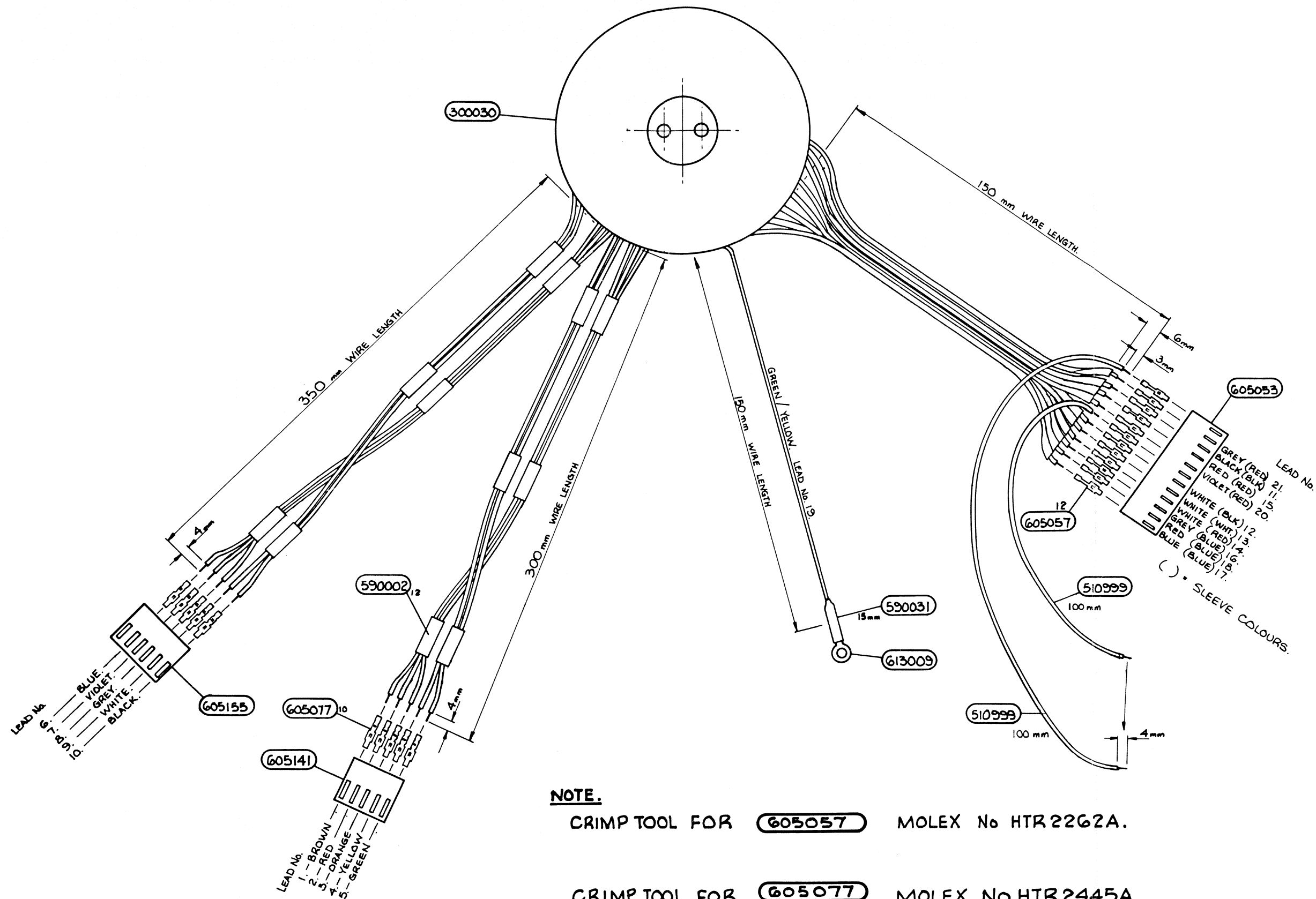
Sheet 1





VIEW FROM FRONT OF COVER.
NOTE DIRECTION OF BEND OF 450506 GUARD SCREEN
AND 450496 TILT STAND.

BOTTOM COVER ASSEMBLY Drawing No. 480748 Sheet 1



LOW VOLTAGE TRANSFORMER ASSEMBLY

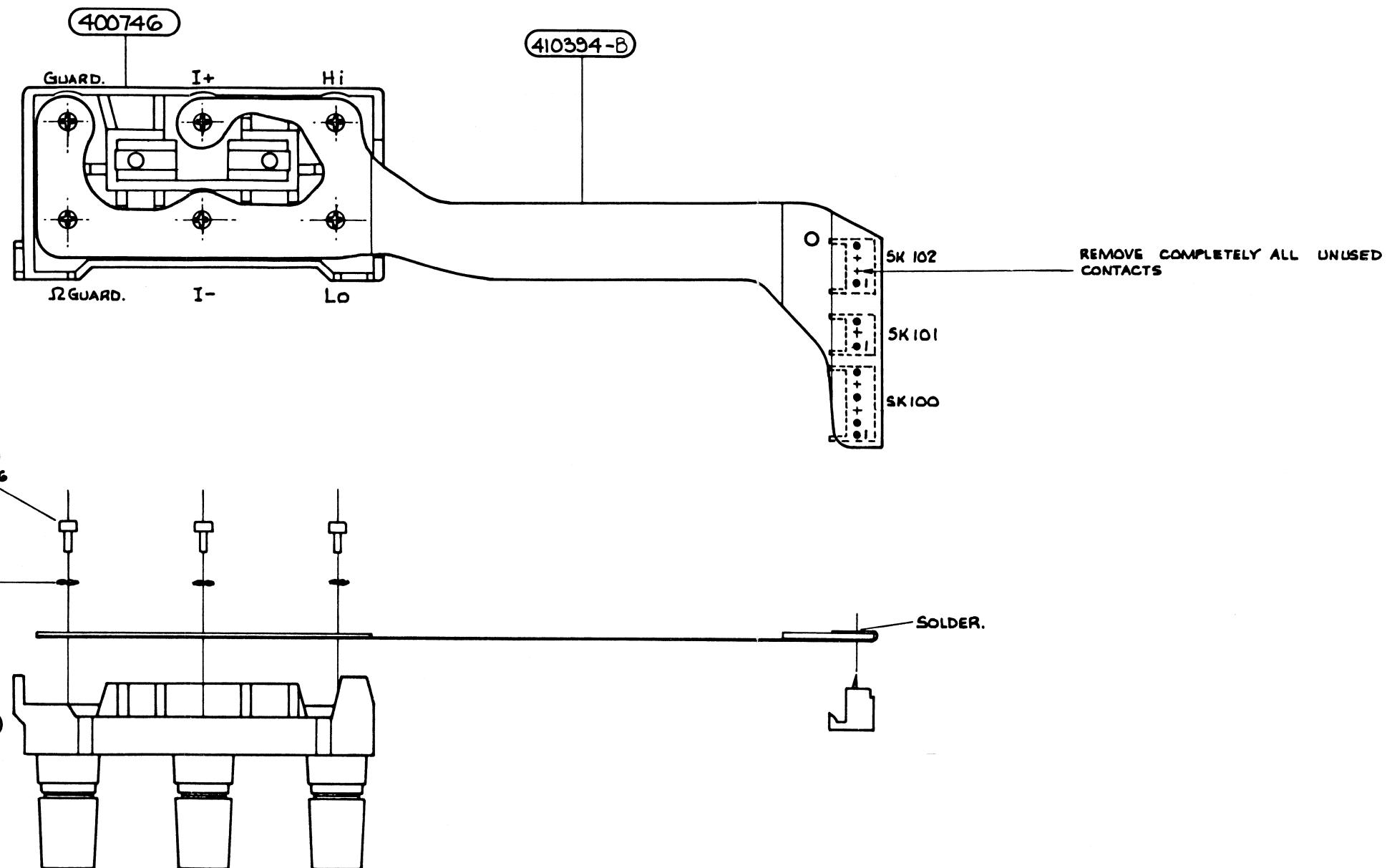
Drawing No. 480750

Sheet 1

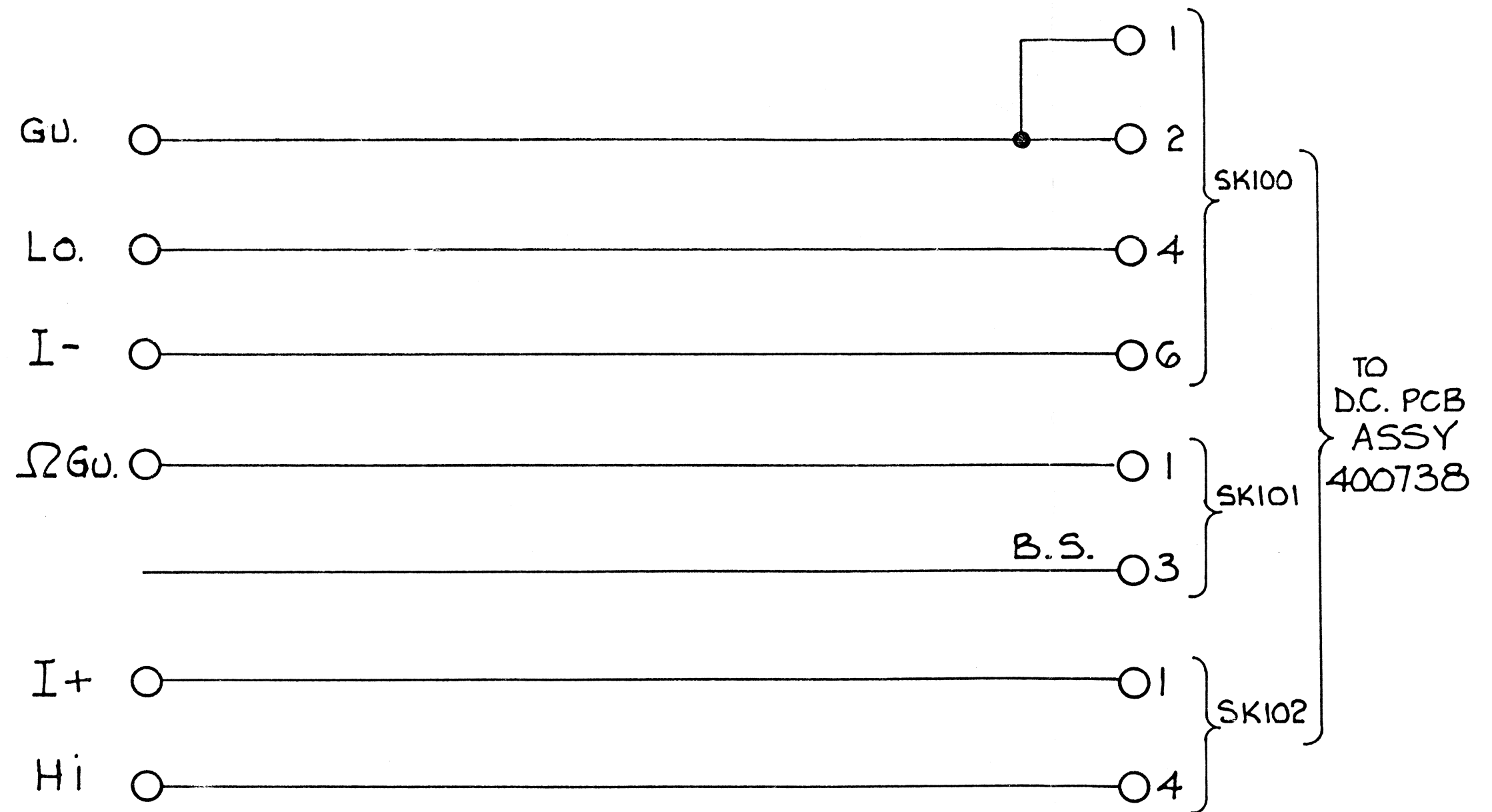
1281
datron
WAVETEK

© Datron Instruments 1989

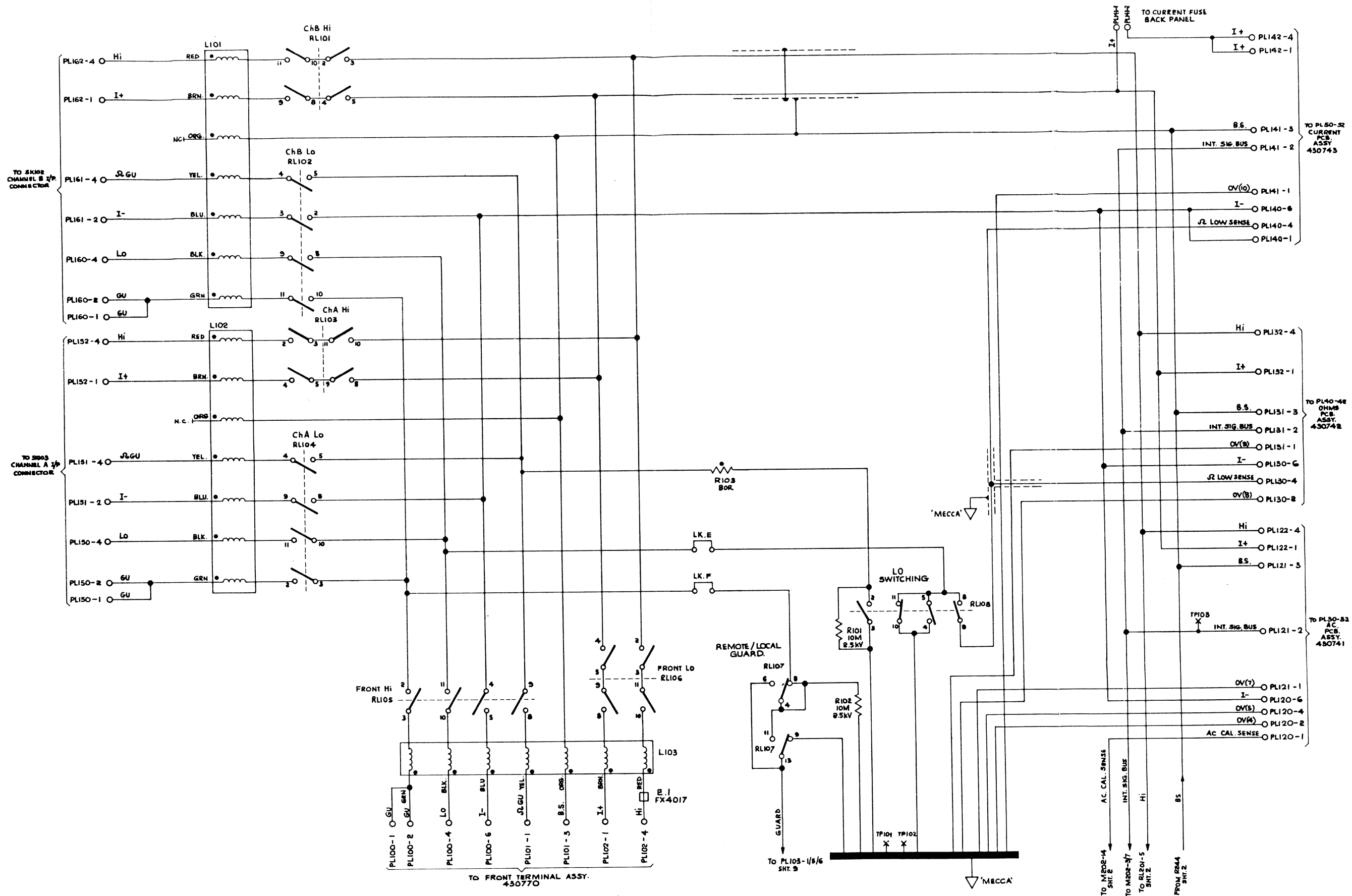
11.1-8

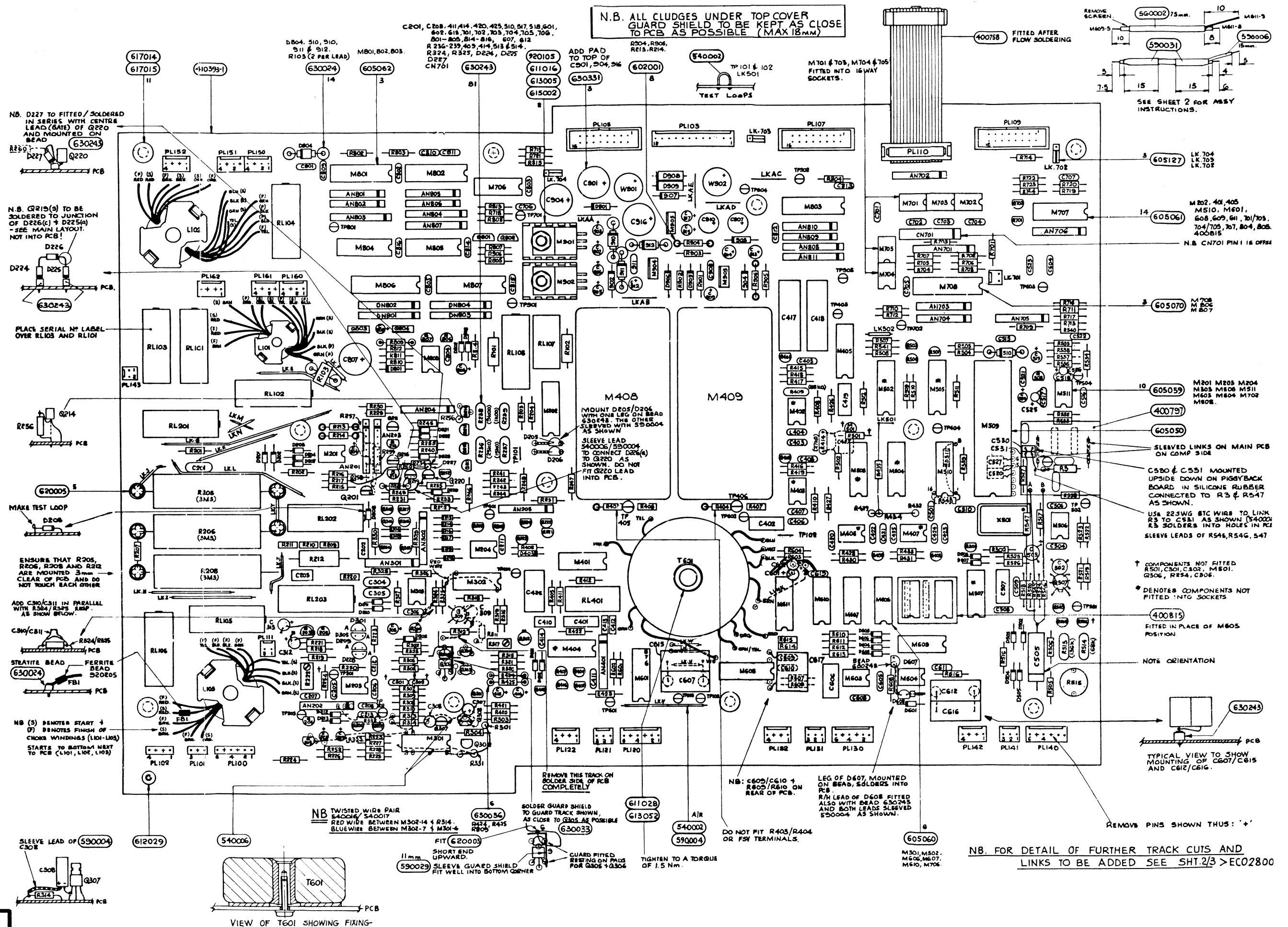


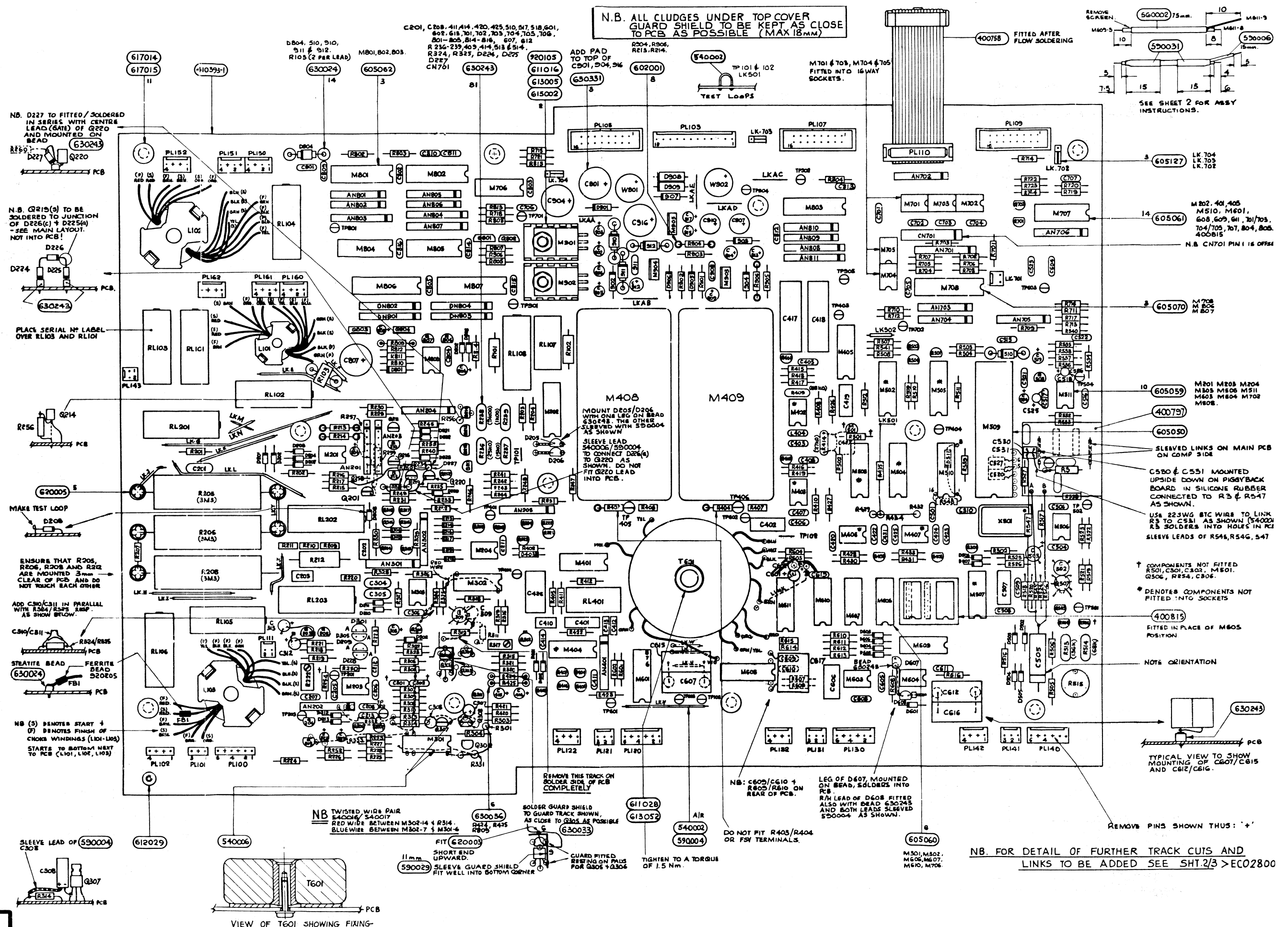
FRONT
PANEL
TERMINALS.

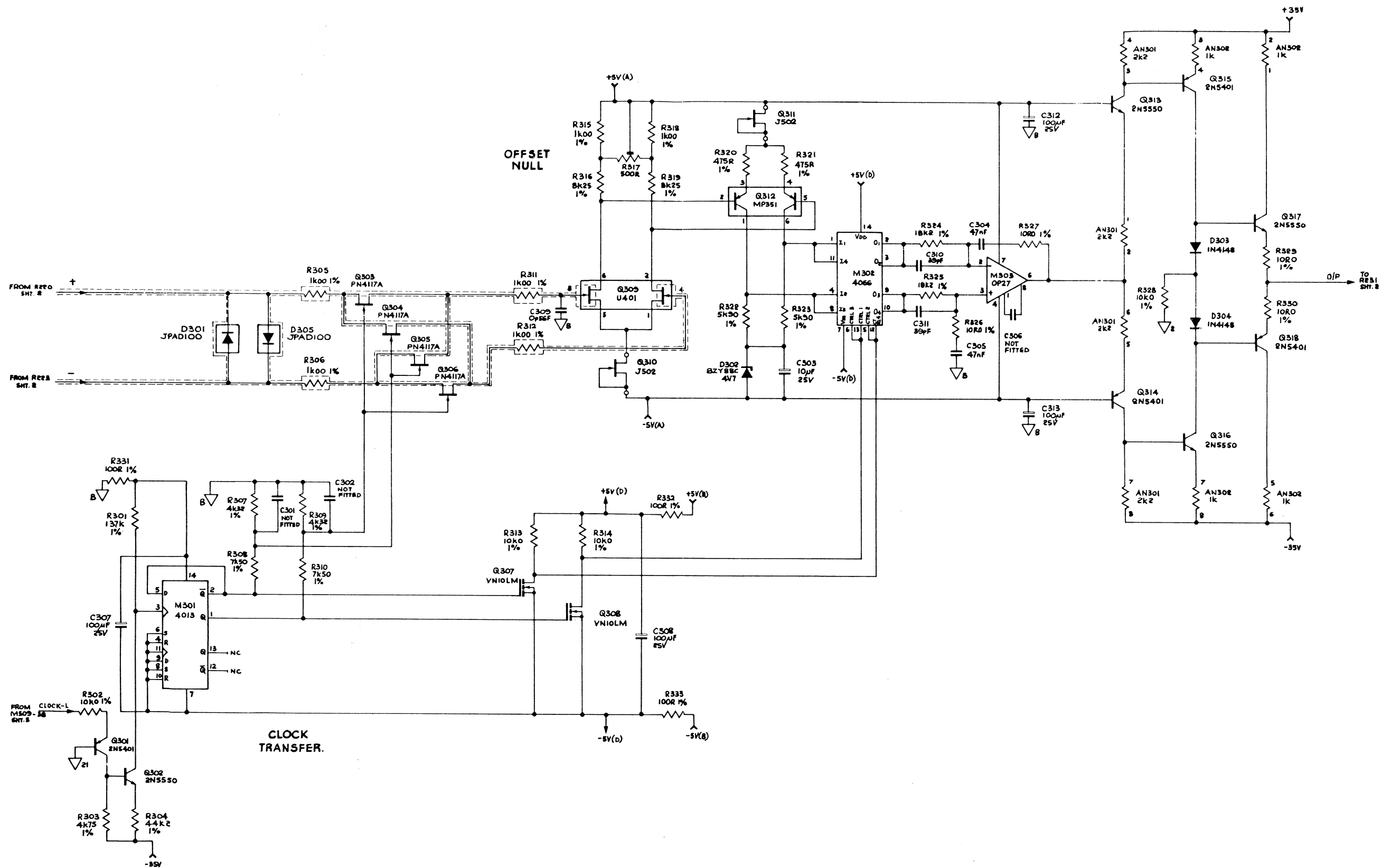












D.C. ASSEMBLY

D.C. Pre-amplifier

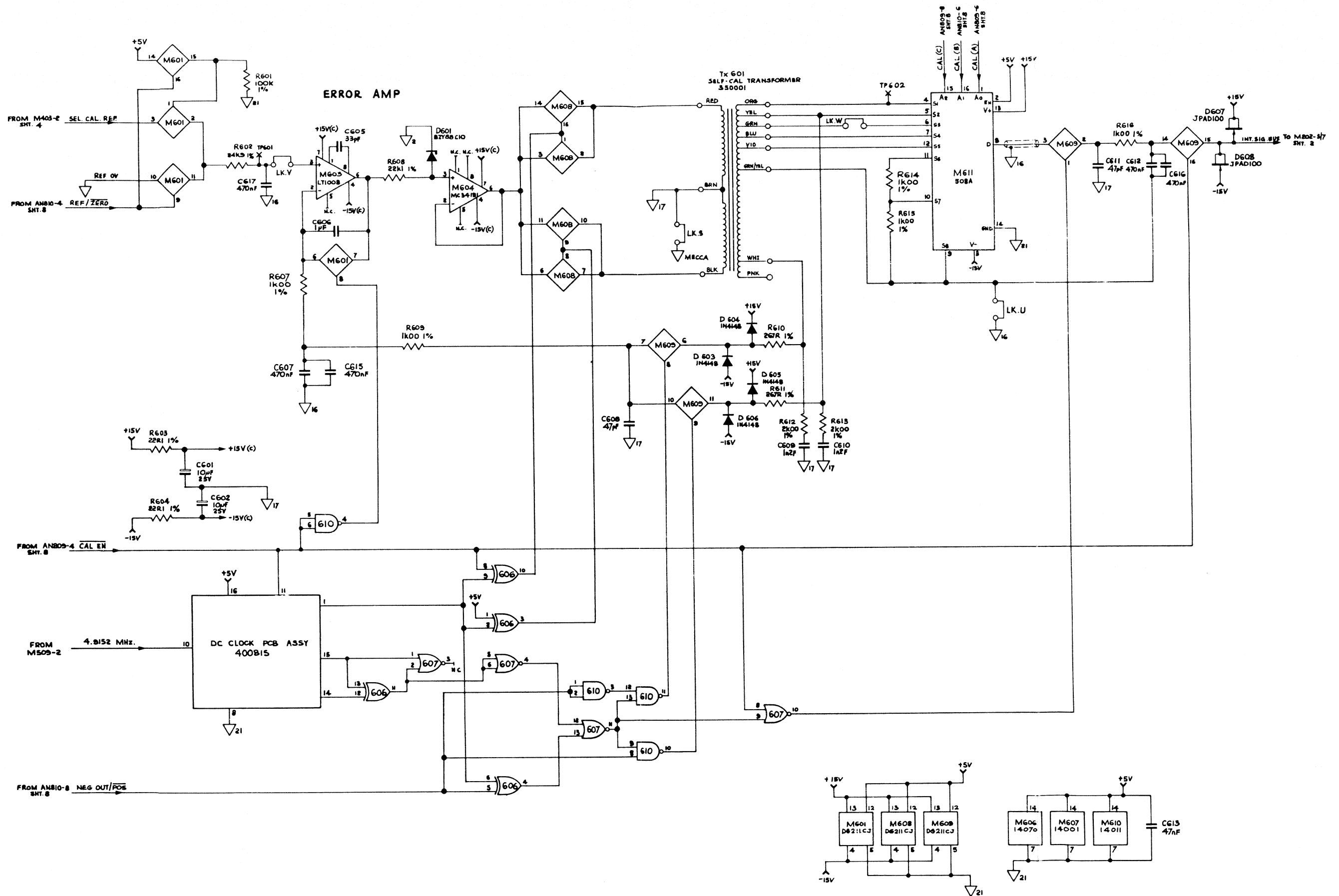
Drawing No. 430738

Sheet 3 of 9





11.2-4



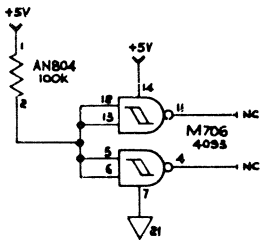
D.C. ASSEMBLY
Selfcal Multiplier
Drawing No. 430738

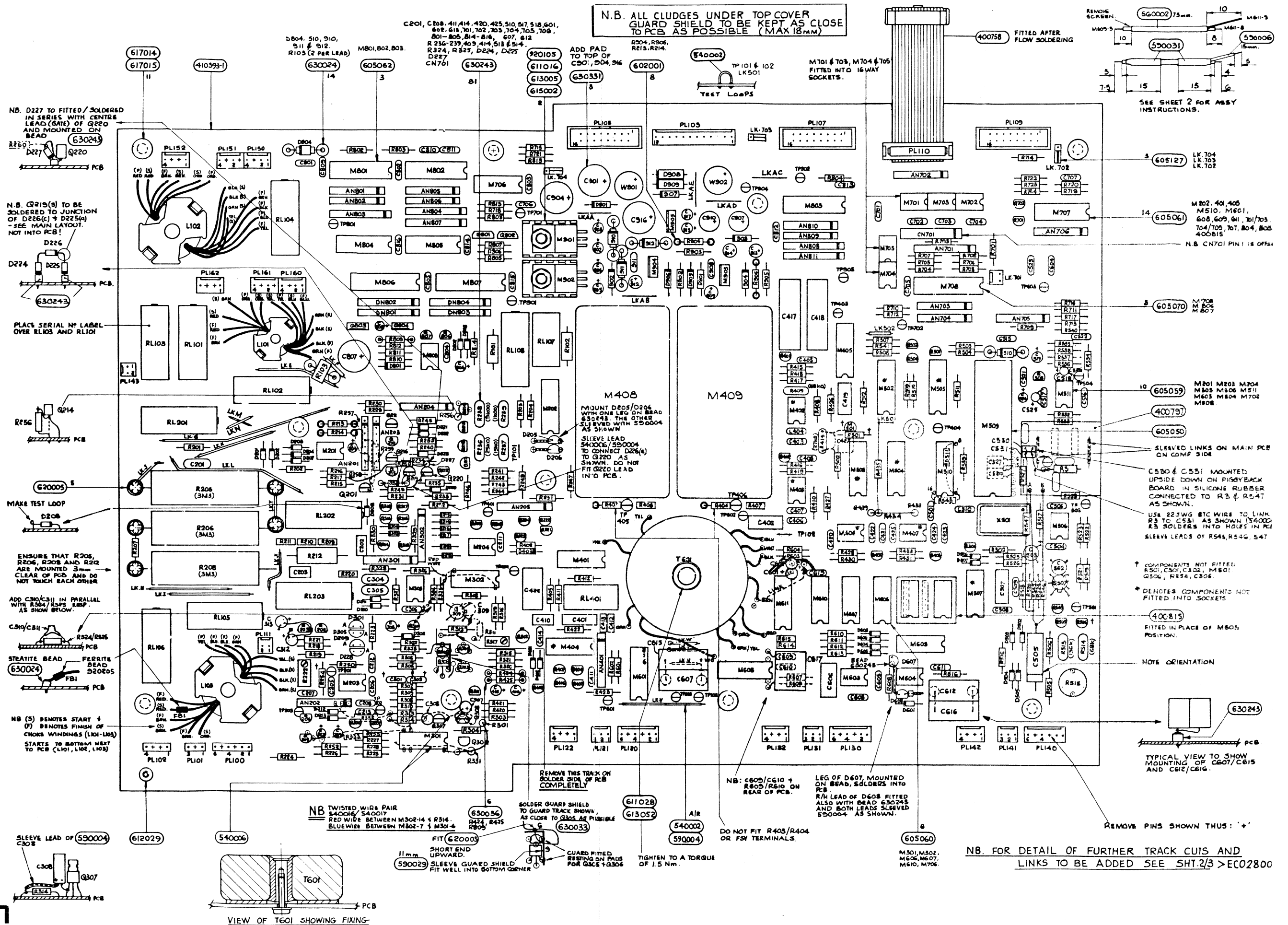
Sheet 6 of 9

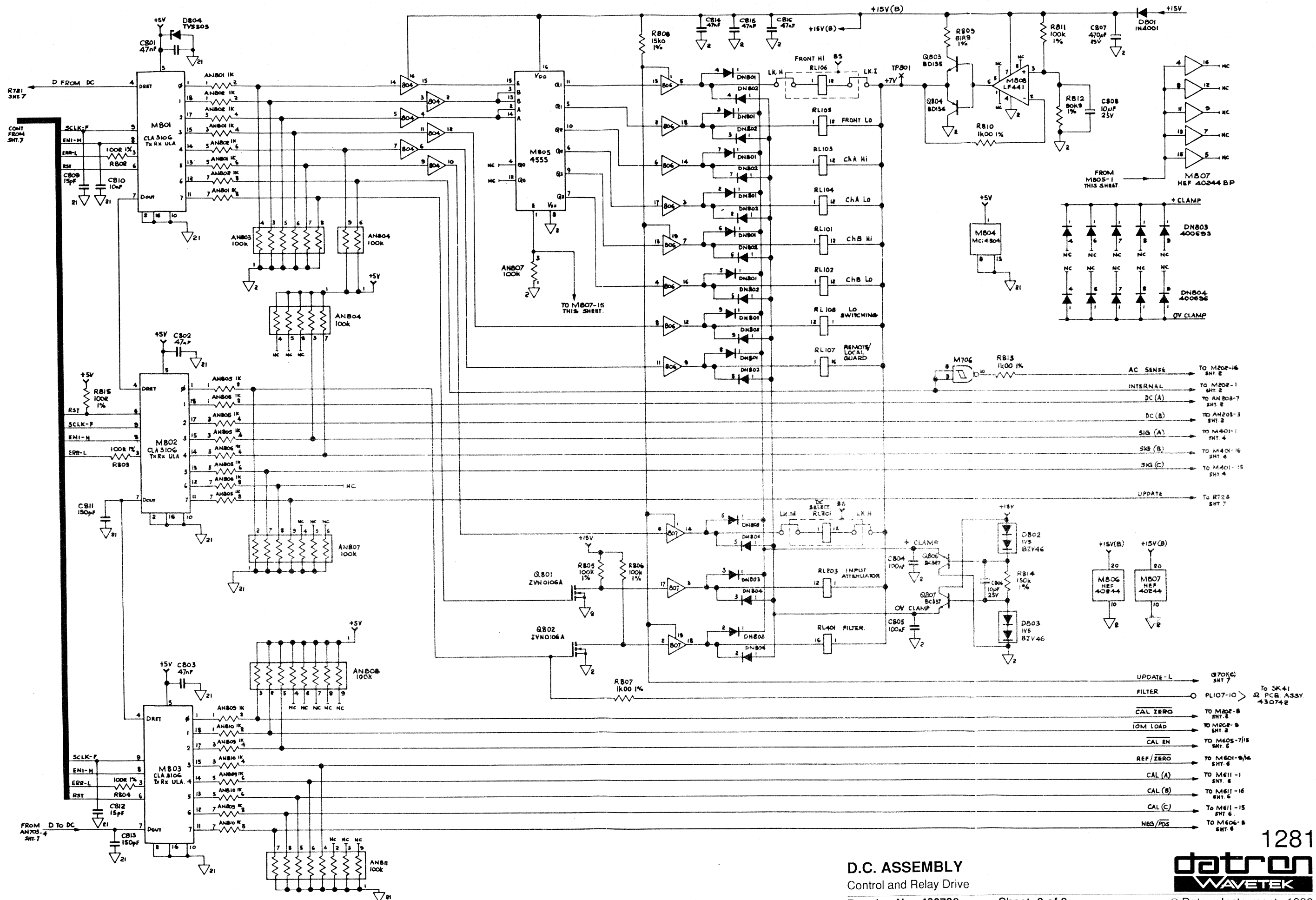
1281
datron
WAVETEK

© Datron Instruments 1989

11.2-6





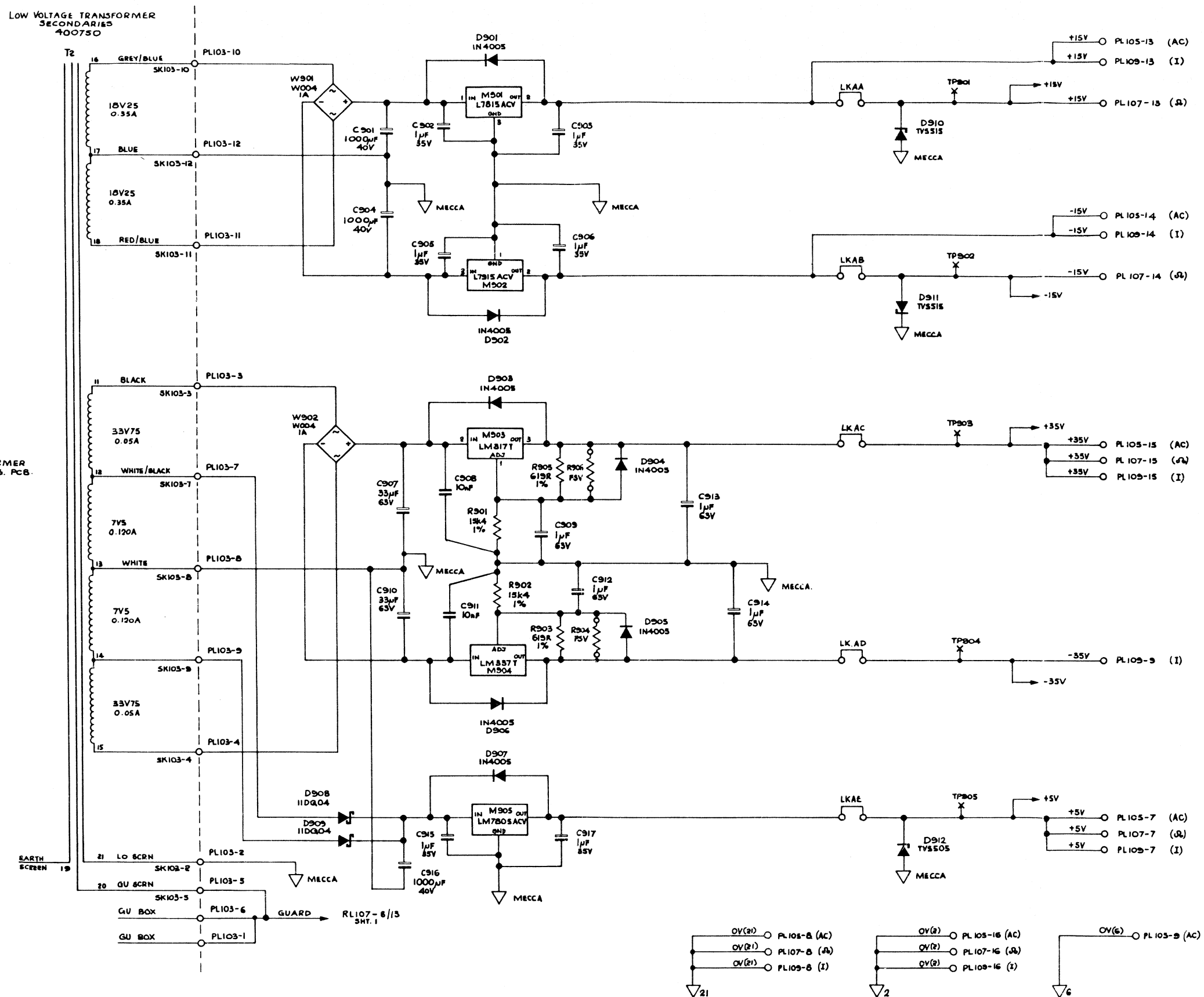


D.C. ASSEMBLY
Control and Relay Drive
Drawing No. 430738

Sheet 8 of 9



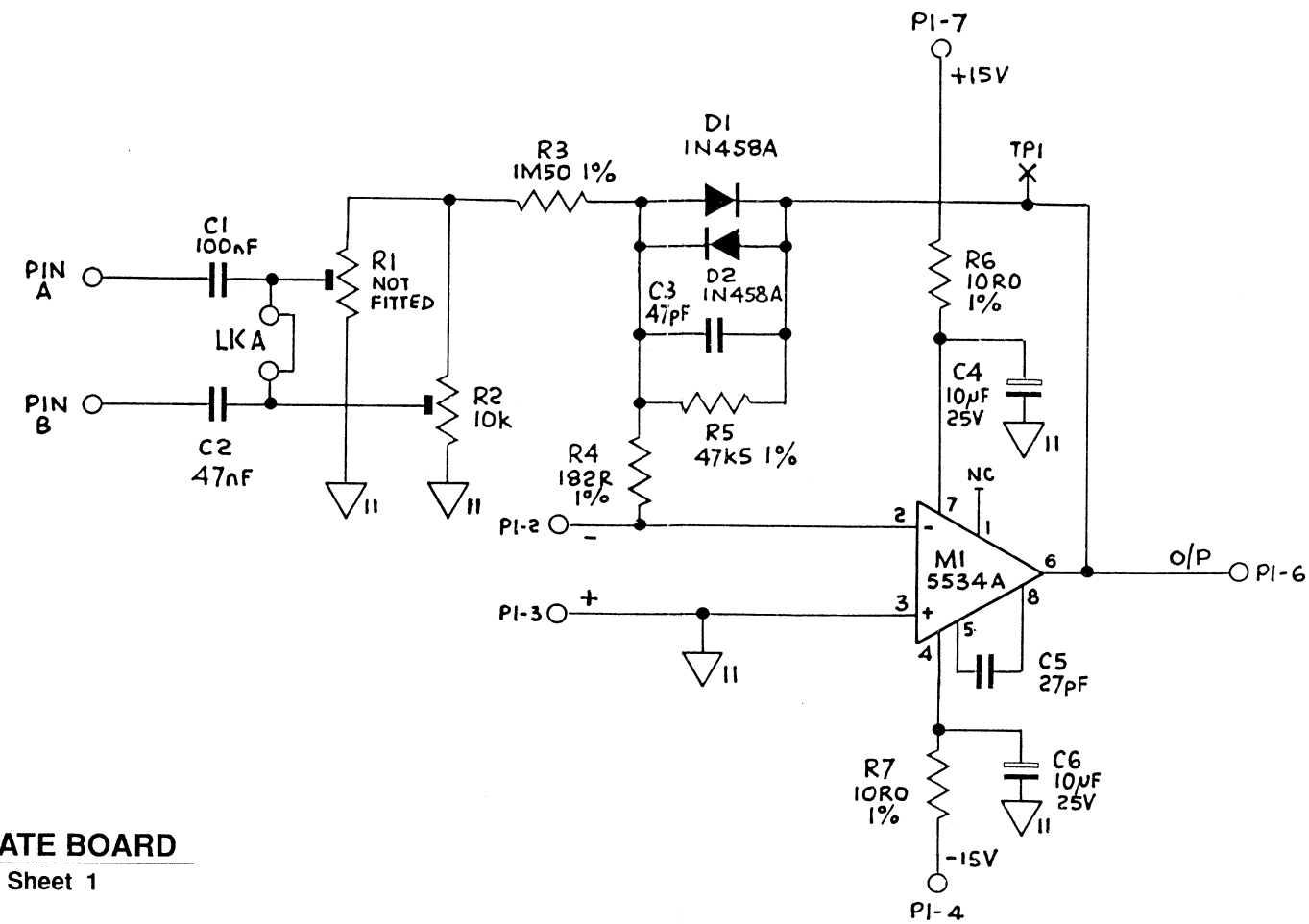
FROM L.V. TRANSFORMER
PRIMARYS SEE FIG. PCB.
430740.



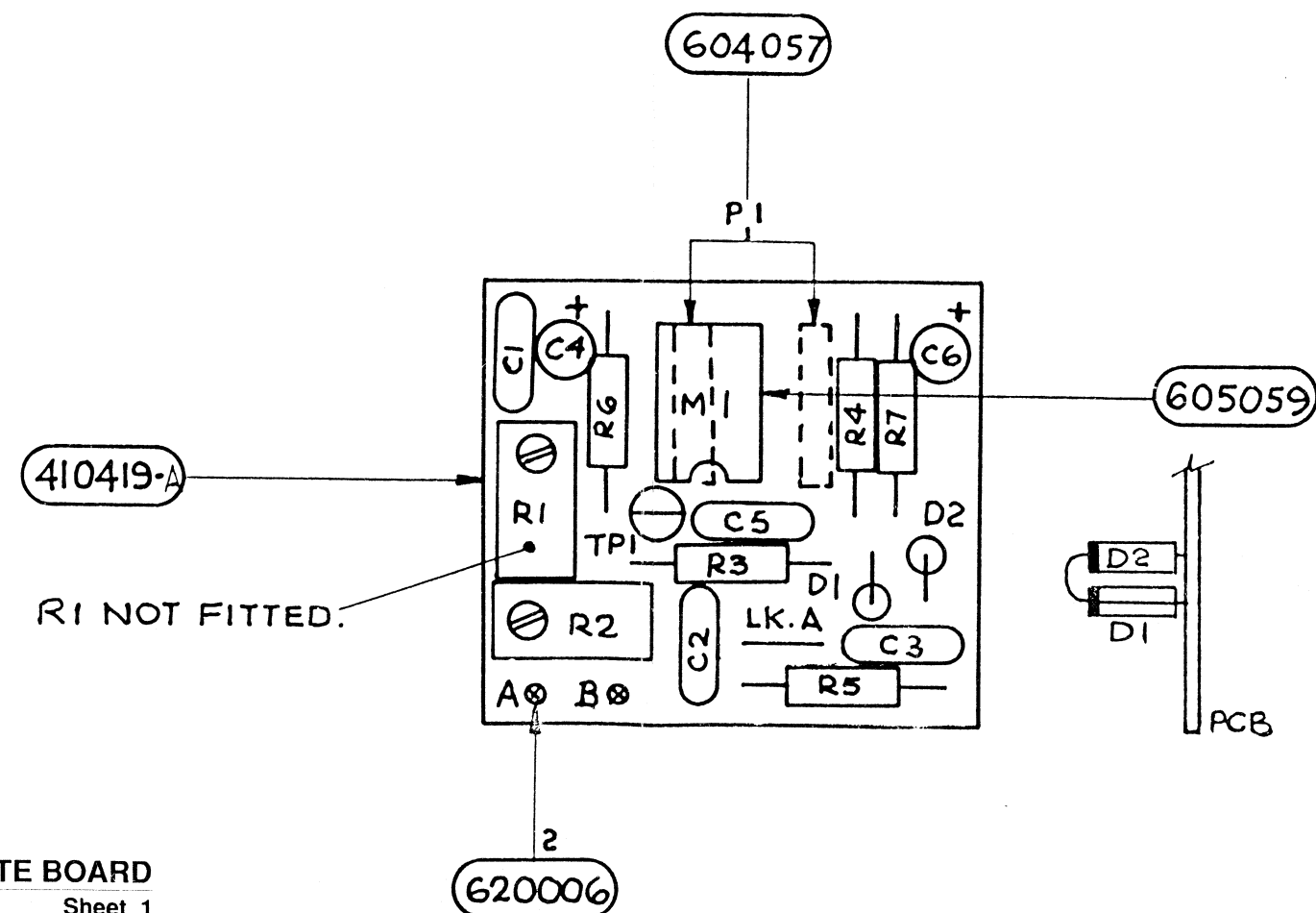
D.C. ASSEMBLY
In - Guard Power Supplies
Drawing No. 430738

Sheet 9 of 9

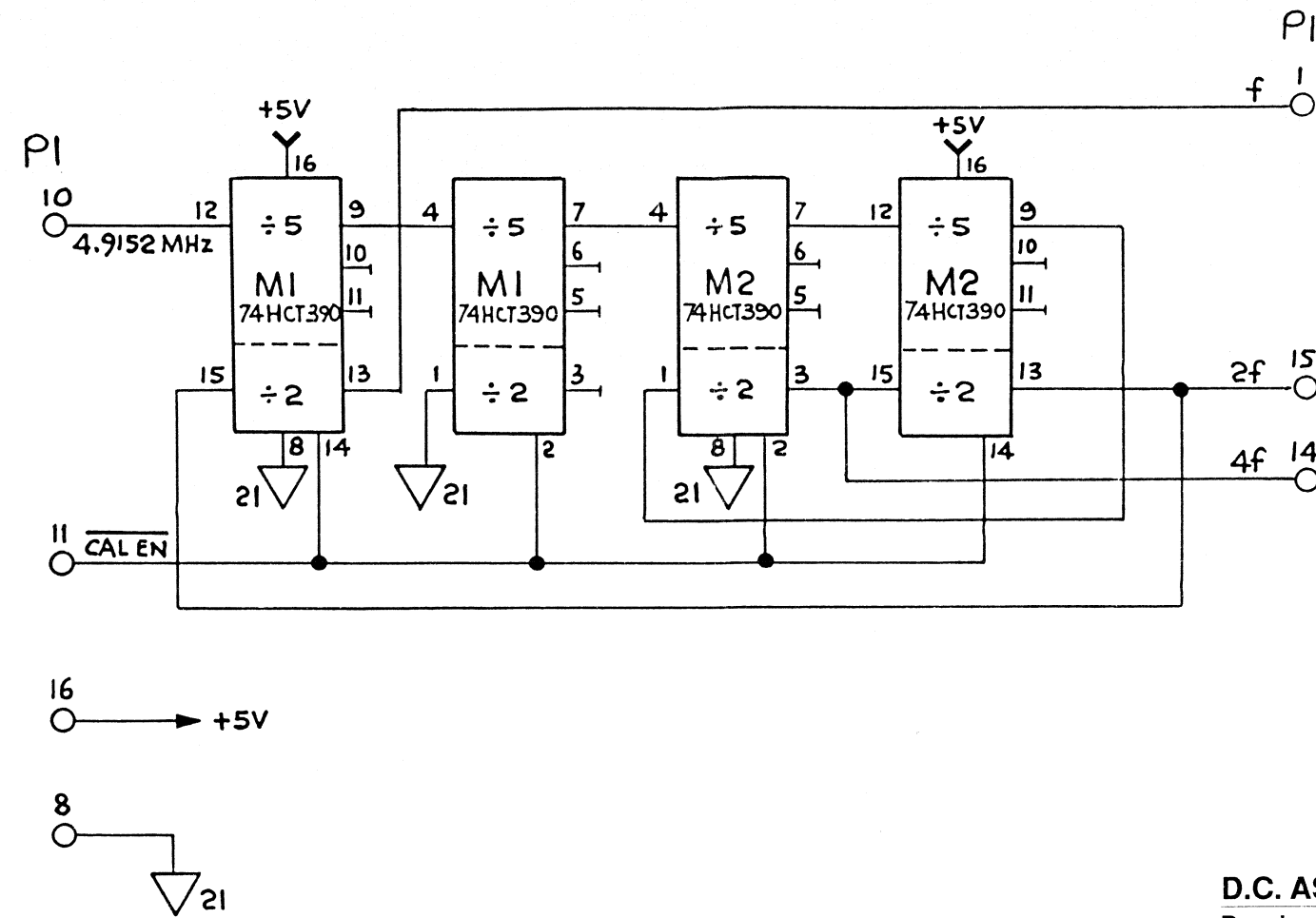
1281
datron
WAVETEK
© Datron Instruments 1989



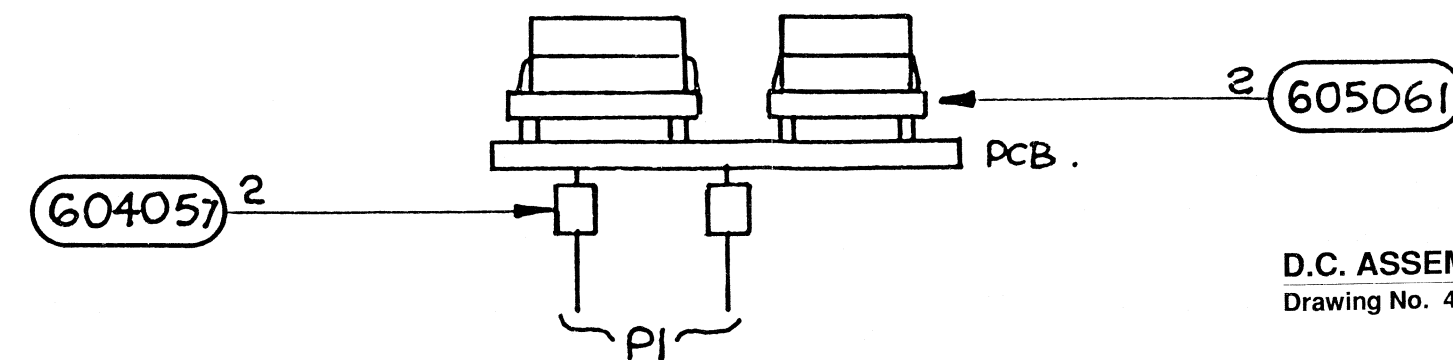
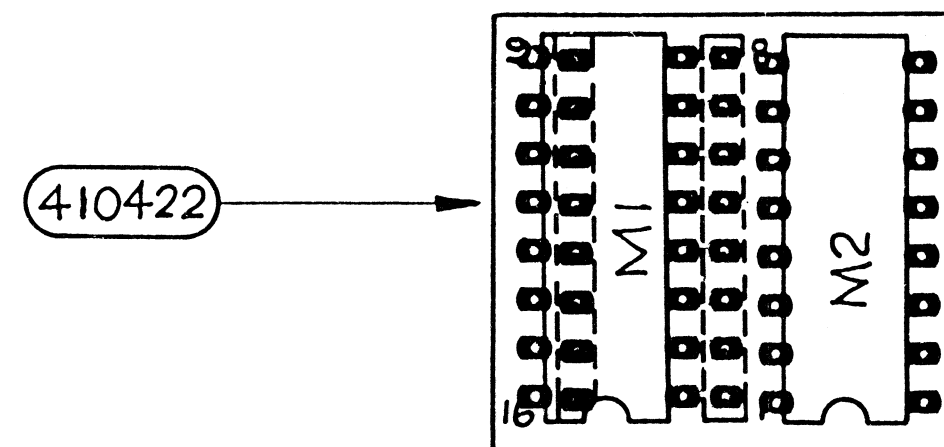
D.C. ASSEMBLY : READ RATE BOARD
Drawing No. 430797 Sheet 1



D.C. ASSEMBLY : READ RATE BOARD
Drawing No. 480797 Sheet 1

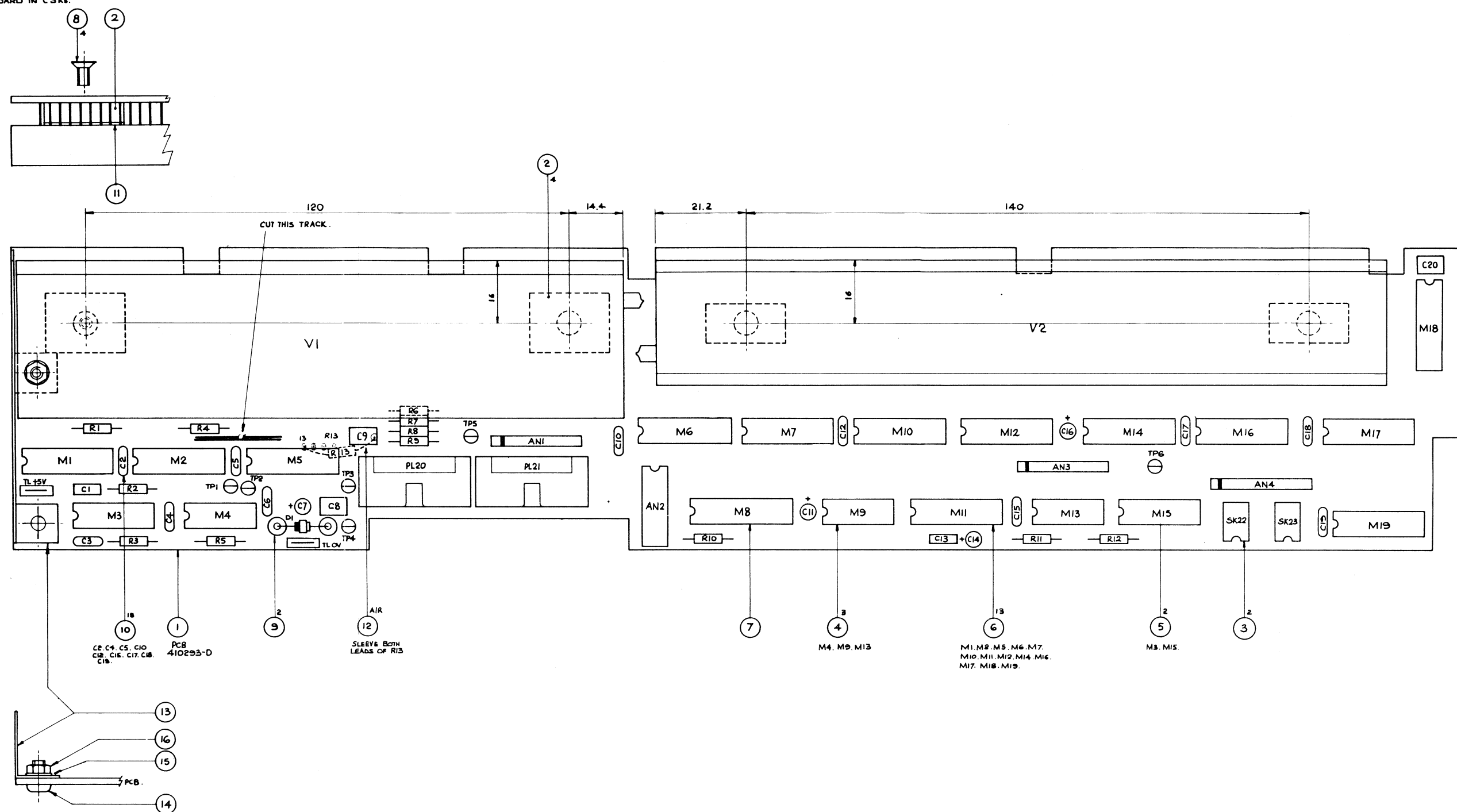


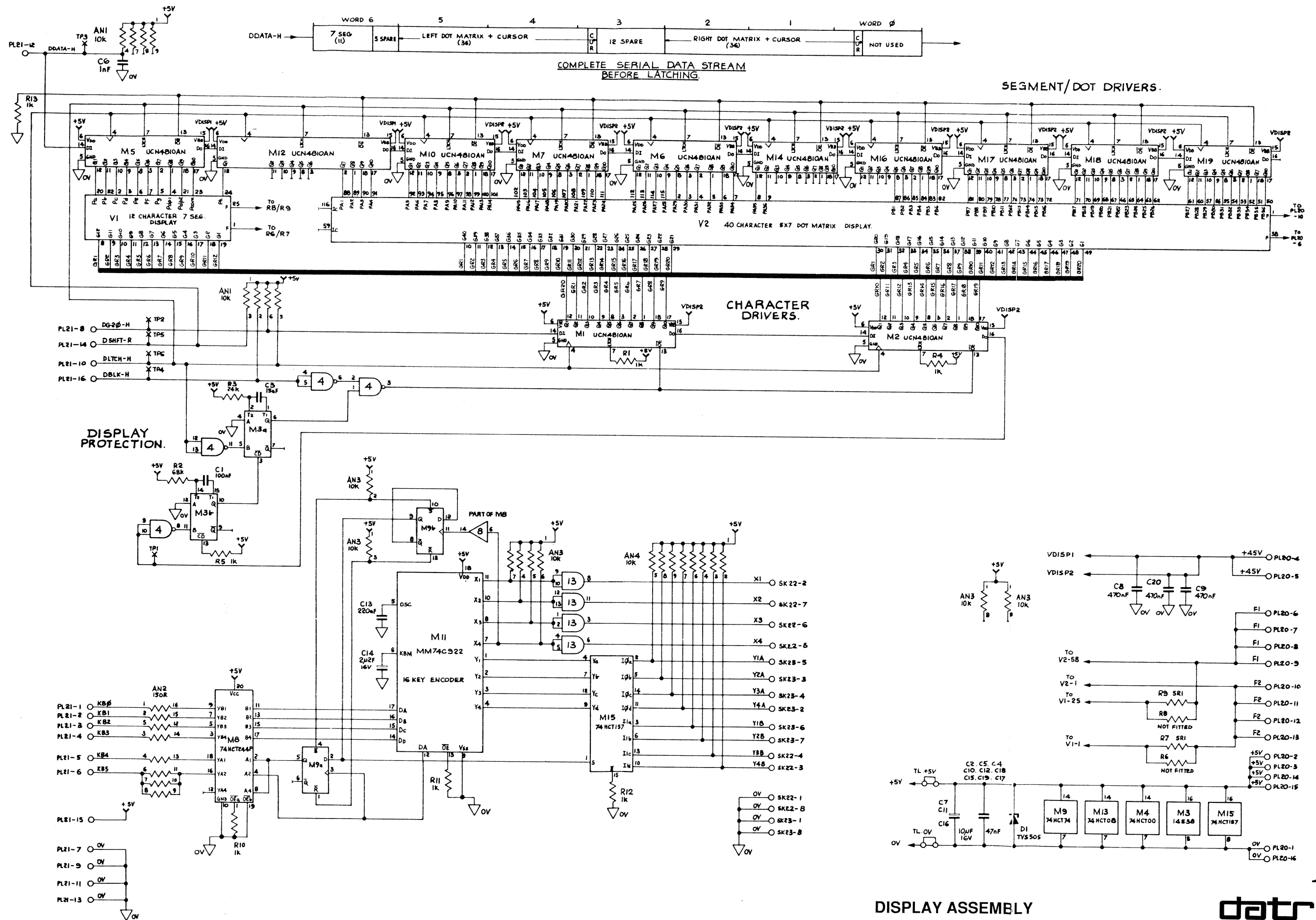
D.C. ASSEMBLY : CLOCK BOARD
 Drawing No. 430815 Sheet 1



D.C. ASSEMBLY : CLOCK BOARD
 Drawing No. 480815 Sheet 1

NOTE: SCREW HEAD
WILL SIT ABOVE
BOARD IN C/S'Ks.





1281 DISPLAY ASSEMBLY

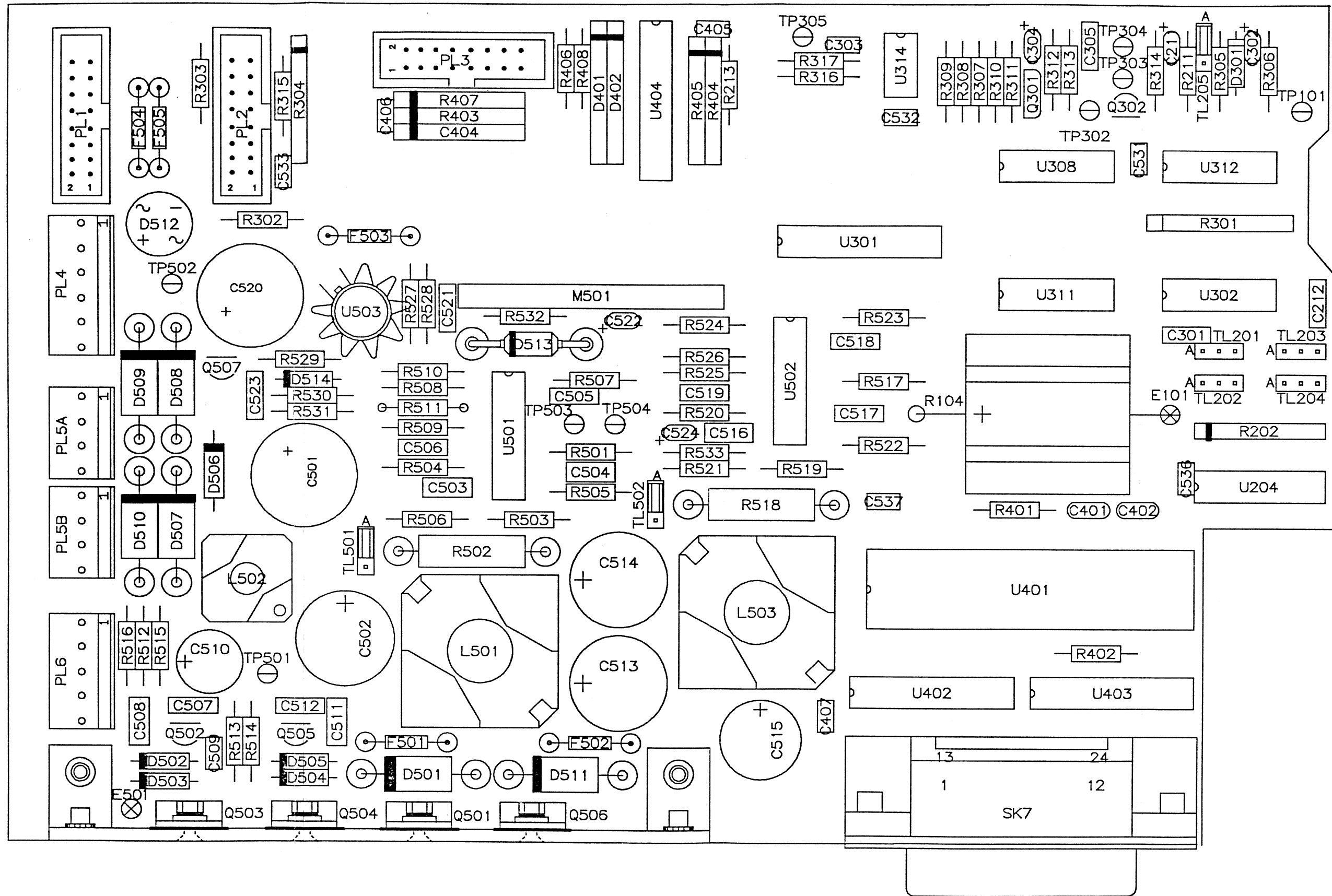
Display Driver

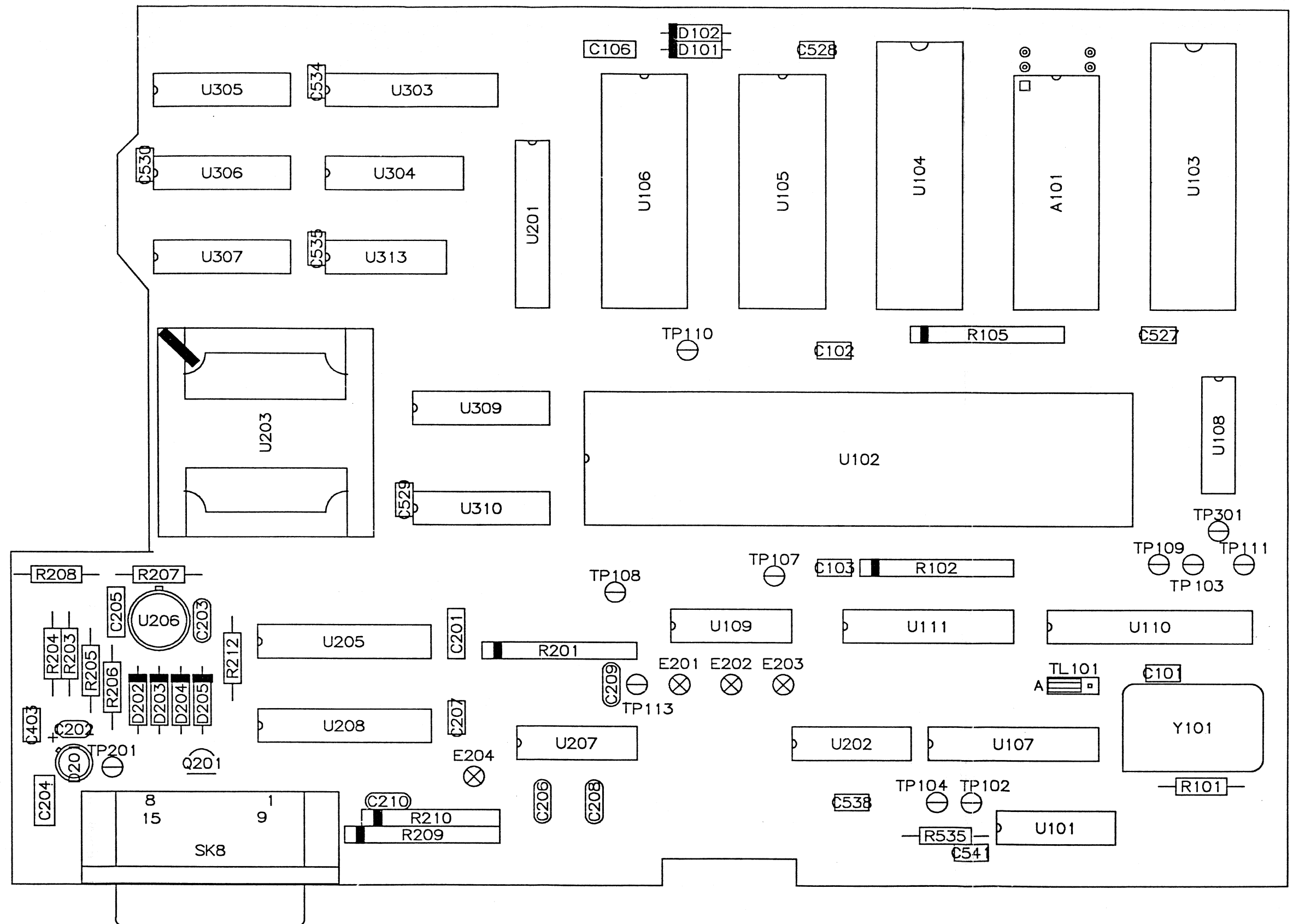
Drawing No. 430739

Sheet 1 of 1

datron
WAVETEK

© Datron Instruments 1989





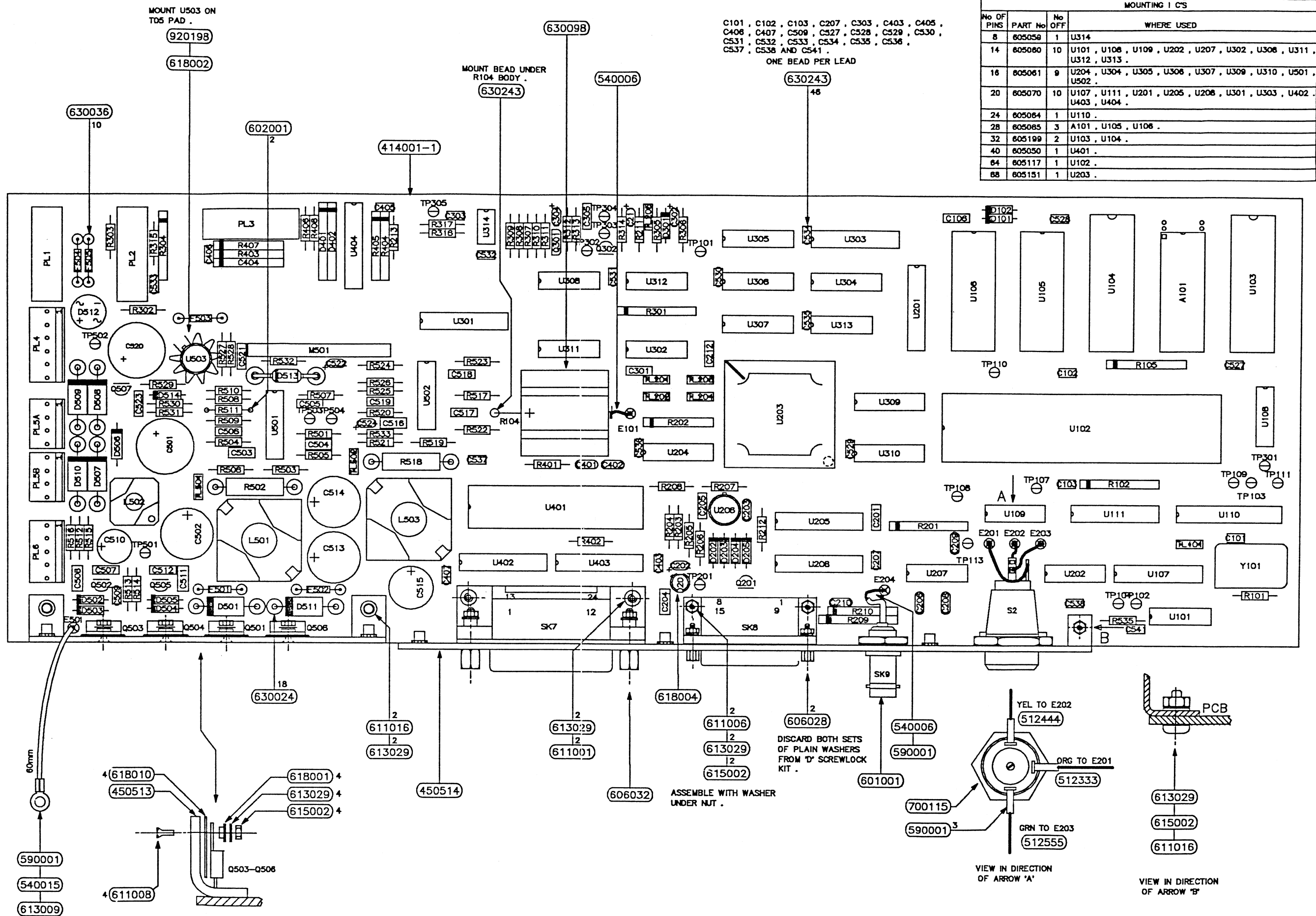
DIGITAL ASSEMBLY (right-hand - expanded)

Drawing No. DA400901 Sheet 3 of 3

1281
datron
WAVETEK

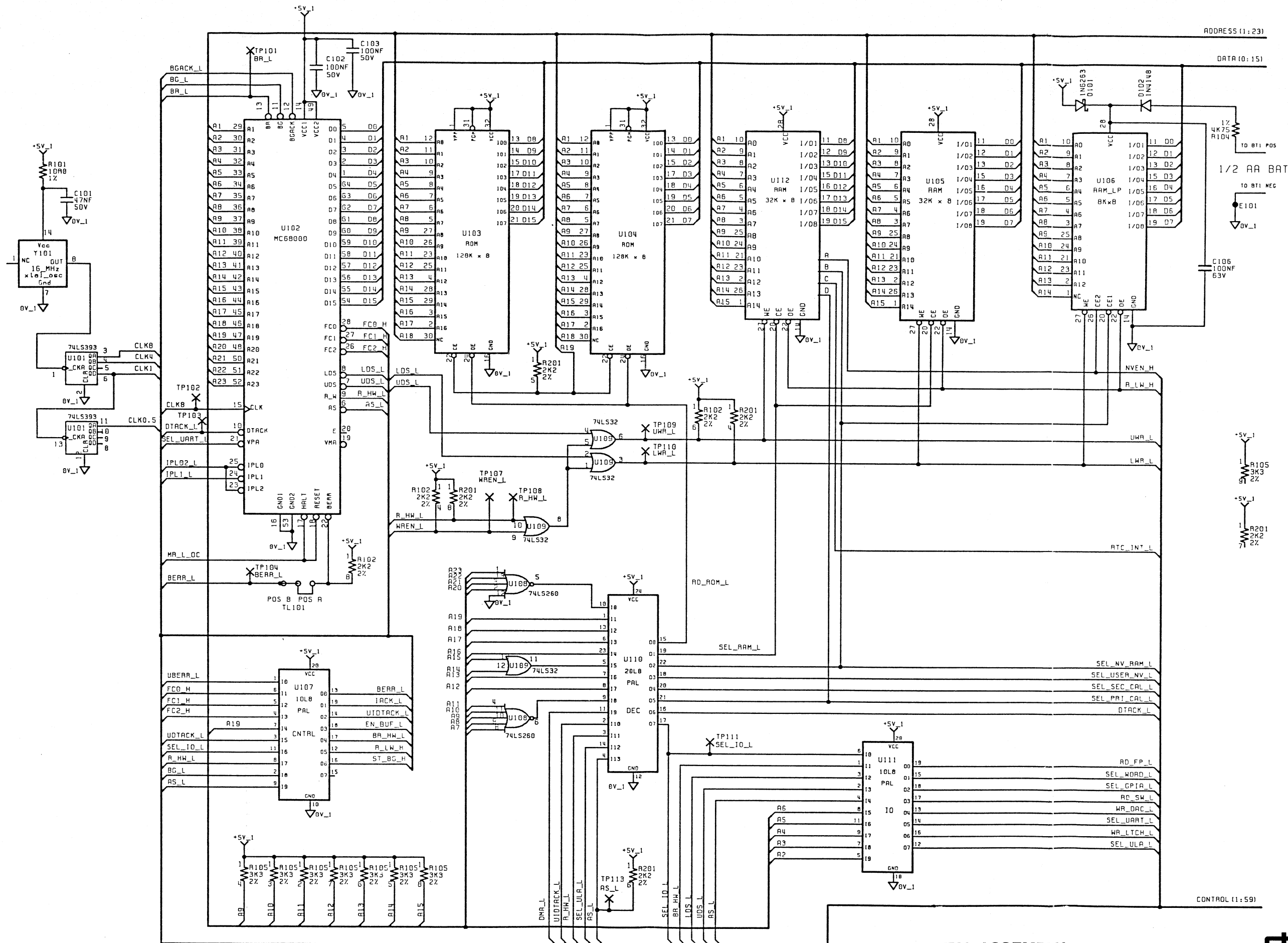
© Datron Instruments 1989

11.4-1



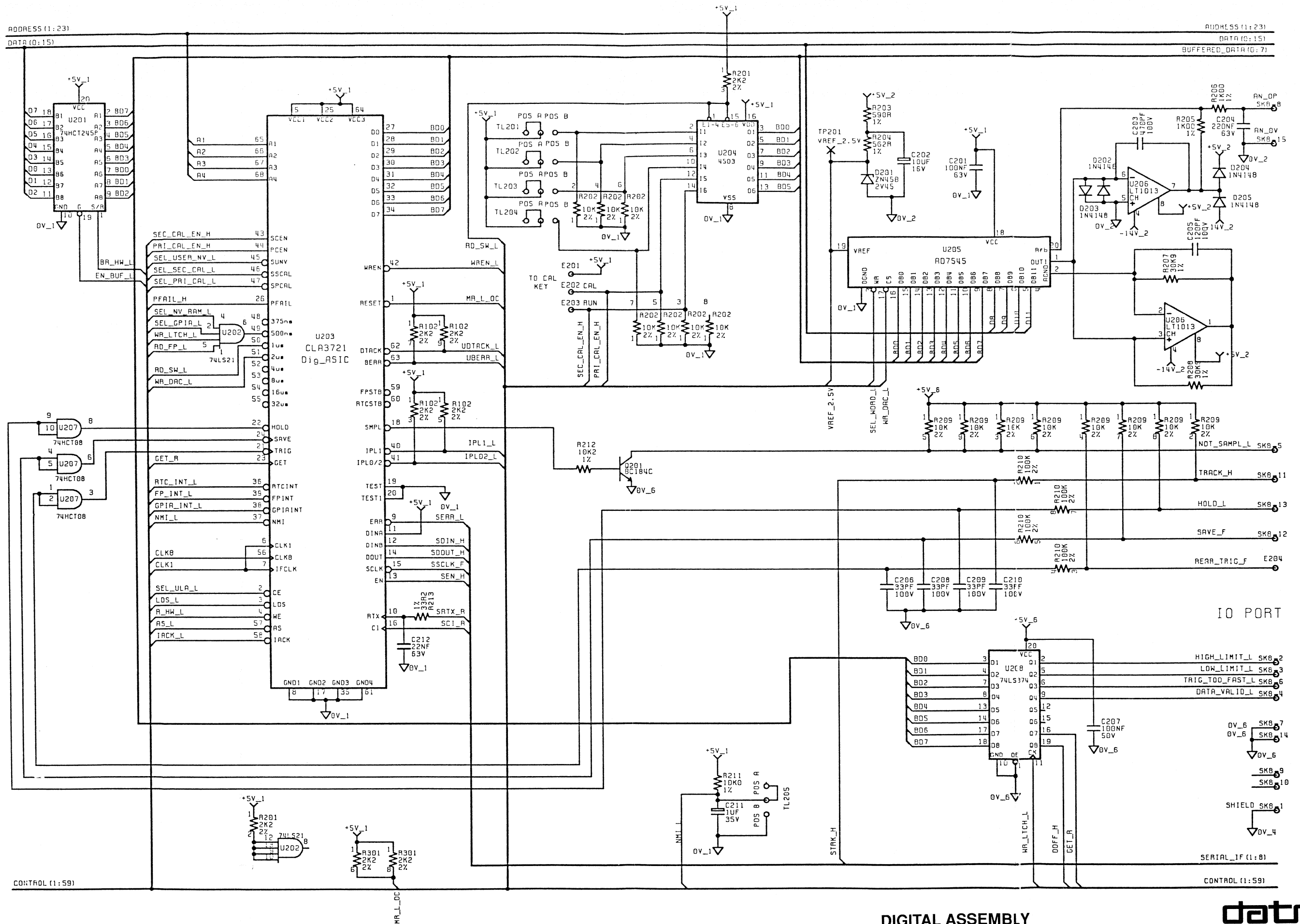
DIGITAL ASSEMBLY

Drawing No. DA400901 Sheet 1 of 3
N.B. expanded versions are on Sheets 2 and 3 (page 11.4-1)



DIGITAL ASSEMBLY
 Processor, Address Decoding and Memory
 Drawing No. DC400901 Sheet 1 of 5

1281
datron
WAVETEK
 © Datron Instruments 1989



DIGITAL ASSEMBLY

ASIC and I/O

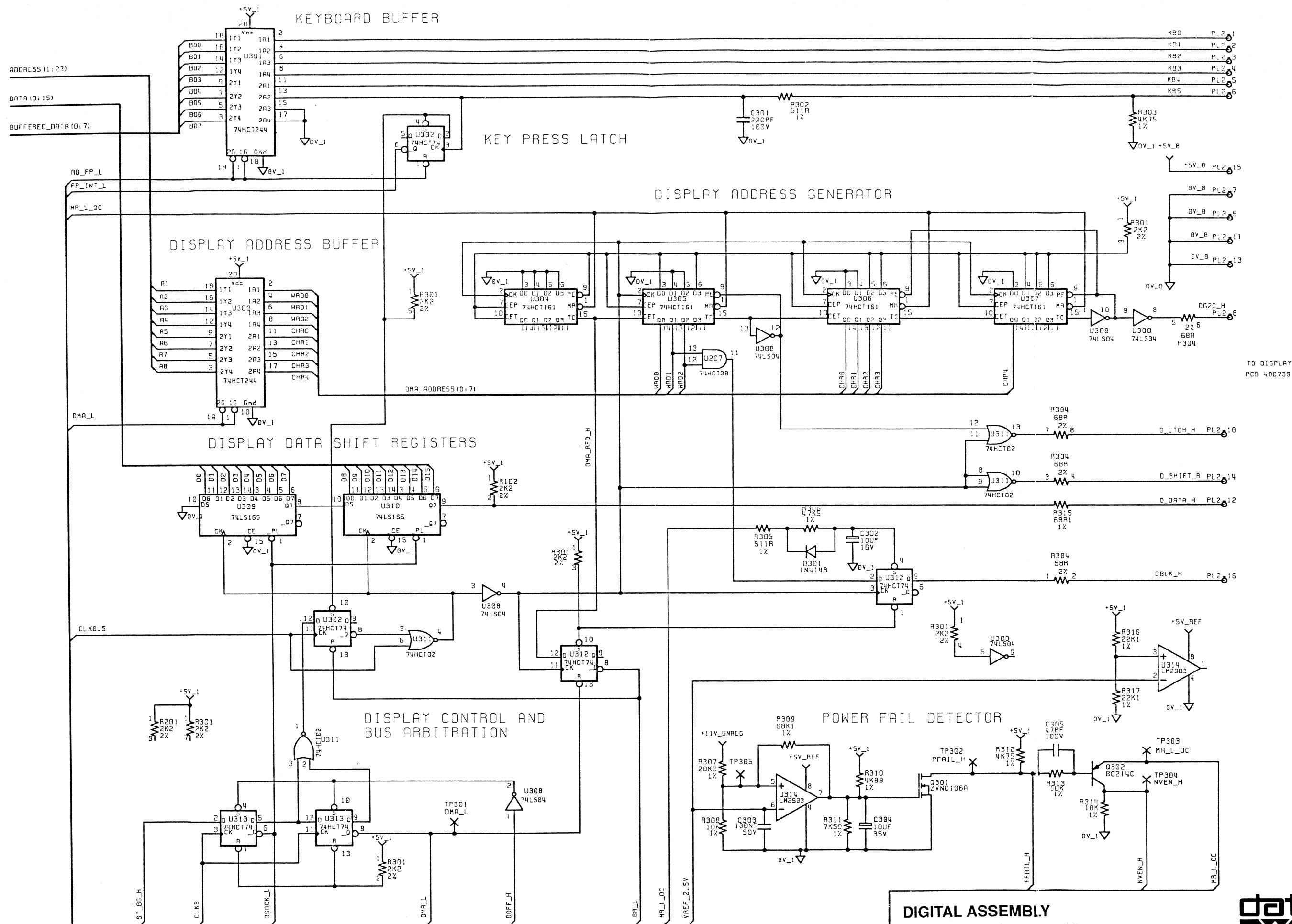
Drawing No. DC400901

Sheet 2 of 5

1281
datron
WAVETEK

© Datron Instruments 1989

11.4-3



DIGITAL ASSEMBLY

Keyboard/Display Interface and Power Fail Detector

Drawing No. DC400901 Sheet 3 of 5



© Datron Instruments 1989

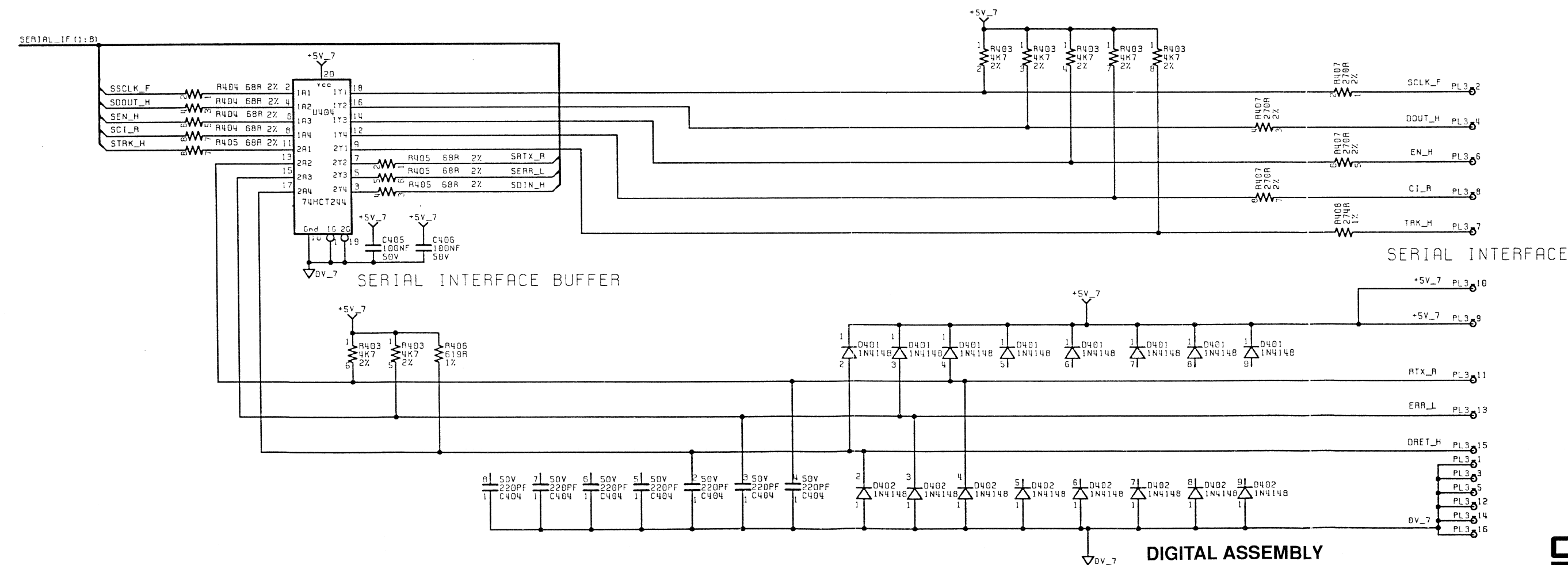
ADDRESS (1:23)

BUFFERED_DATA (0:7)

IEEE CONTROLLER & BUFFERS

CONTROL (1:59)

SERIAL_IF (1:8)



DIGITAL ASSEMBLY

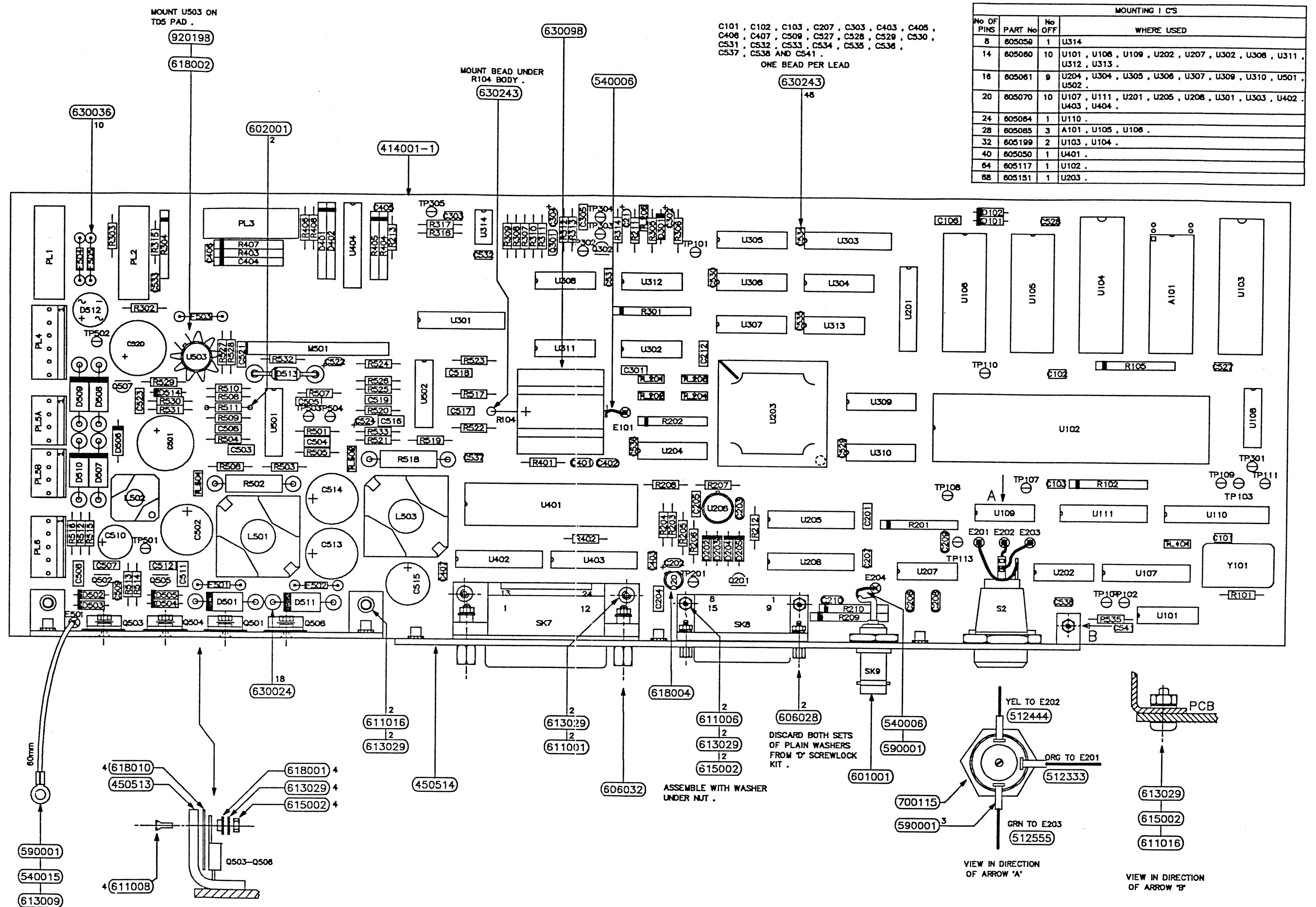
IEEE Interface and Serial Interface

Drawing No. DC400901

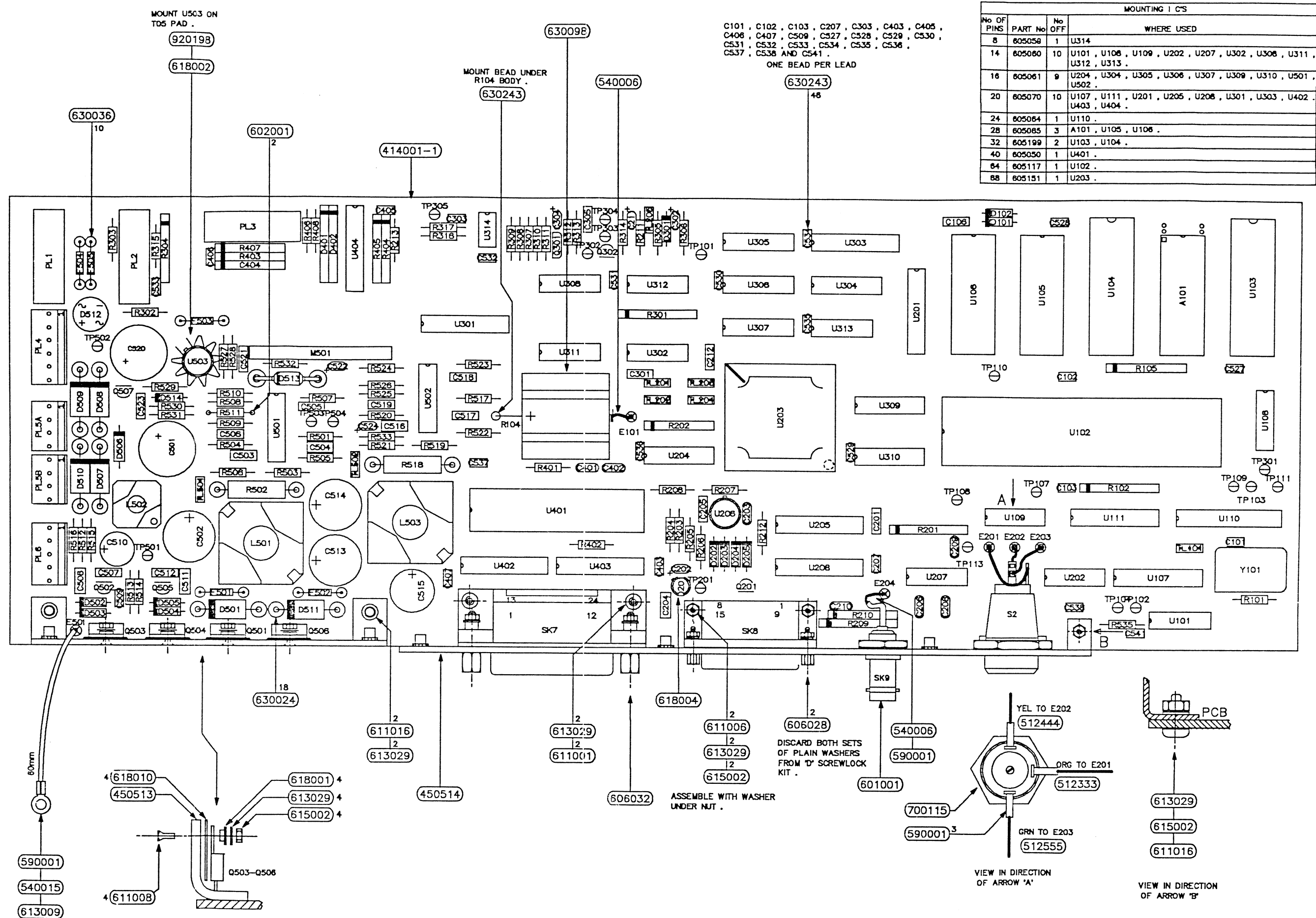
Sheet 4 of 5

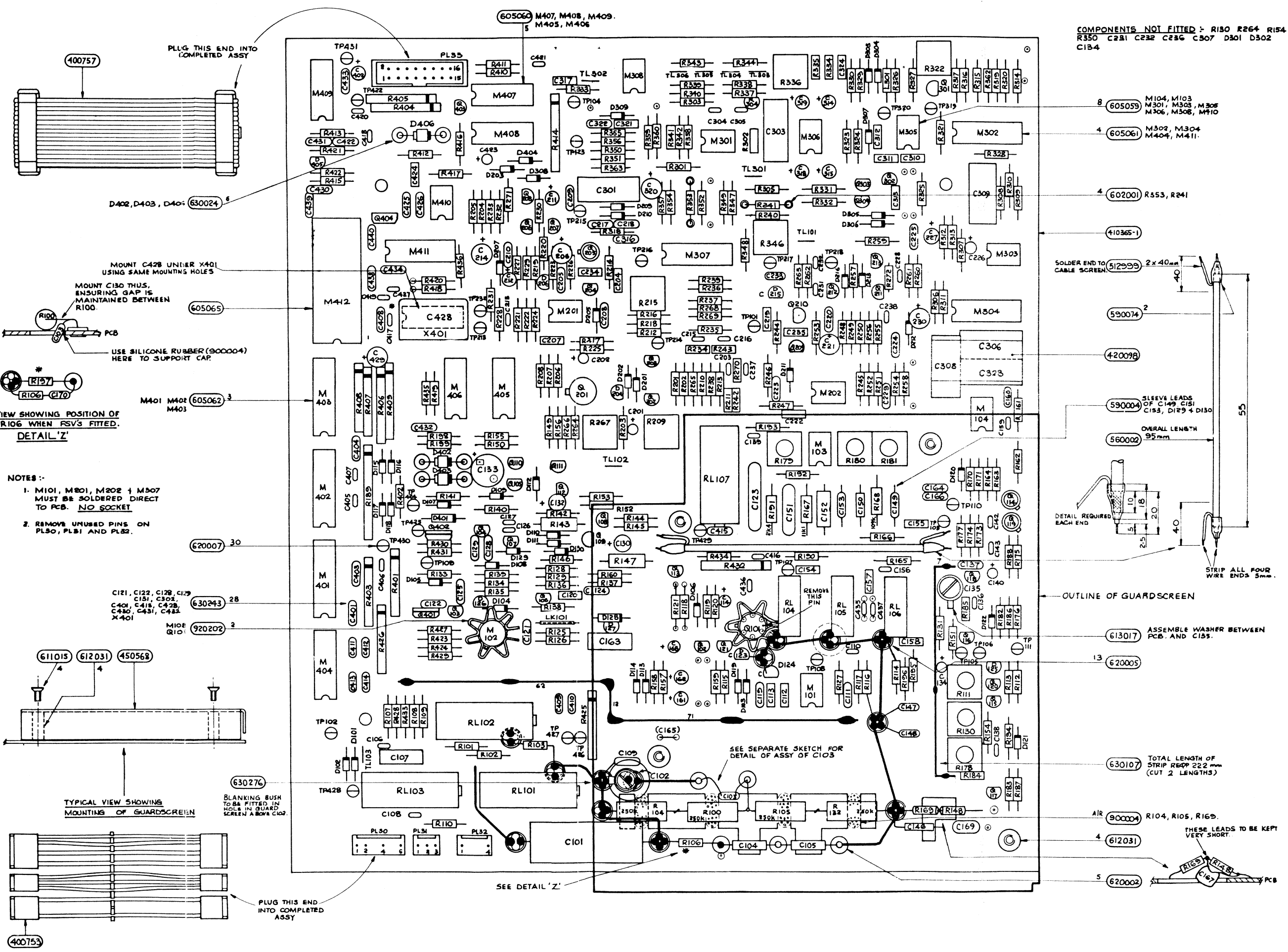
1281
datron
WAVETEK

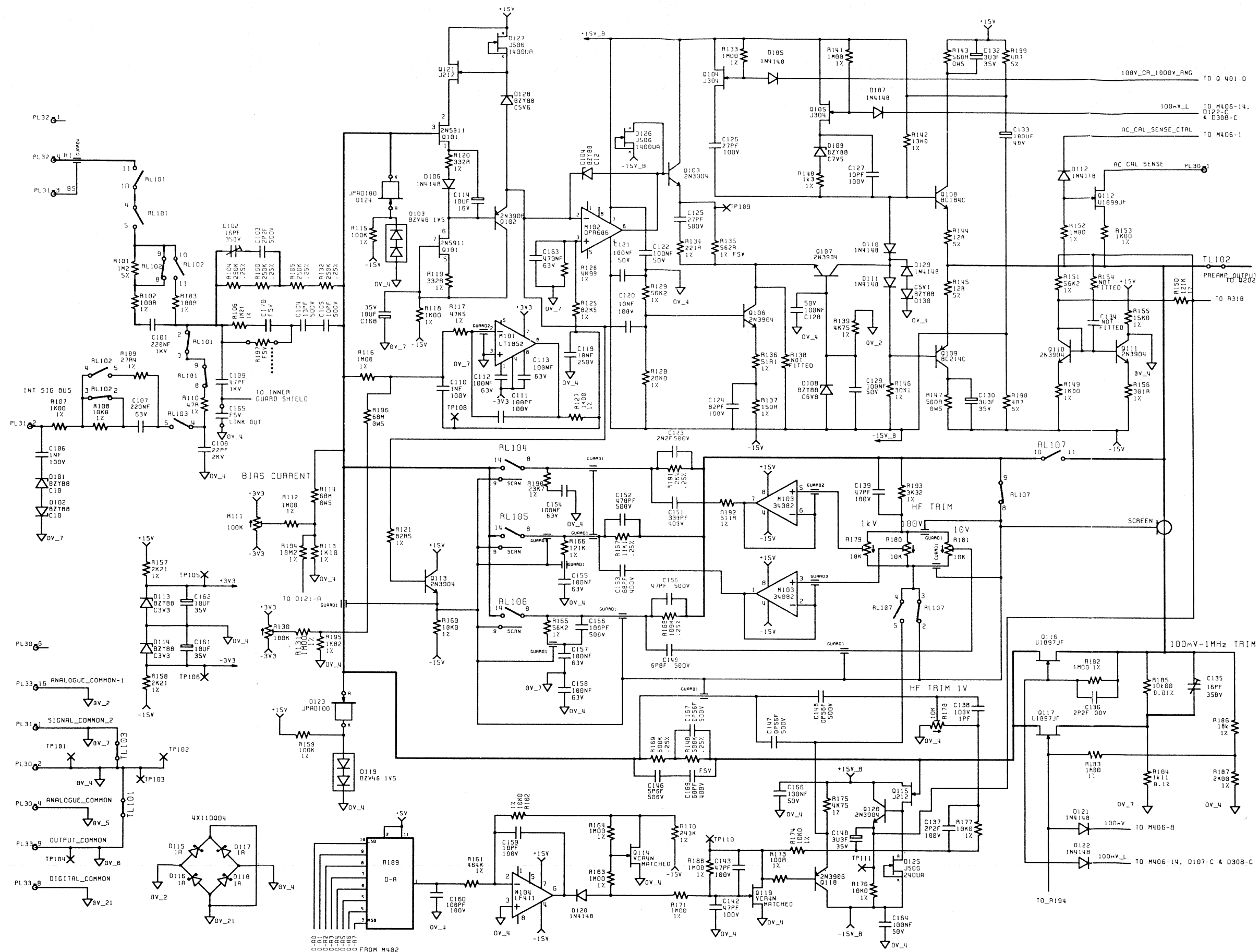
© Datron Instruments 1989





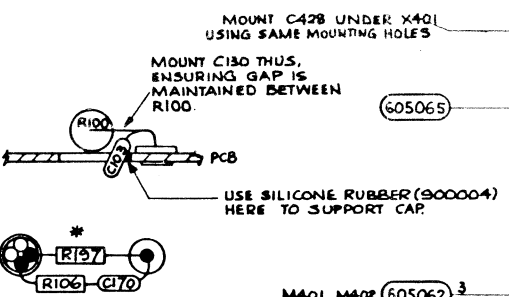
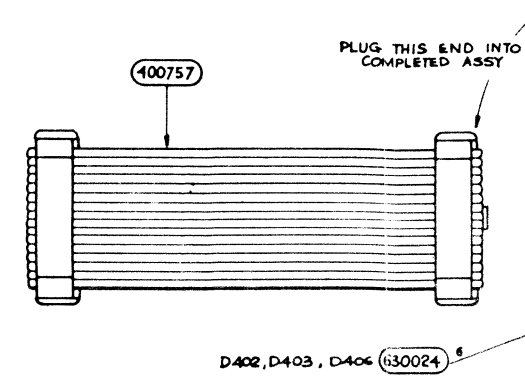
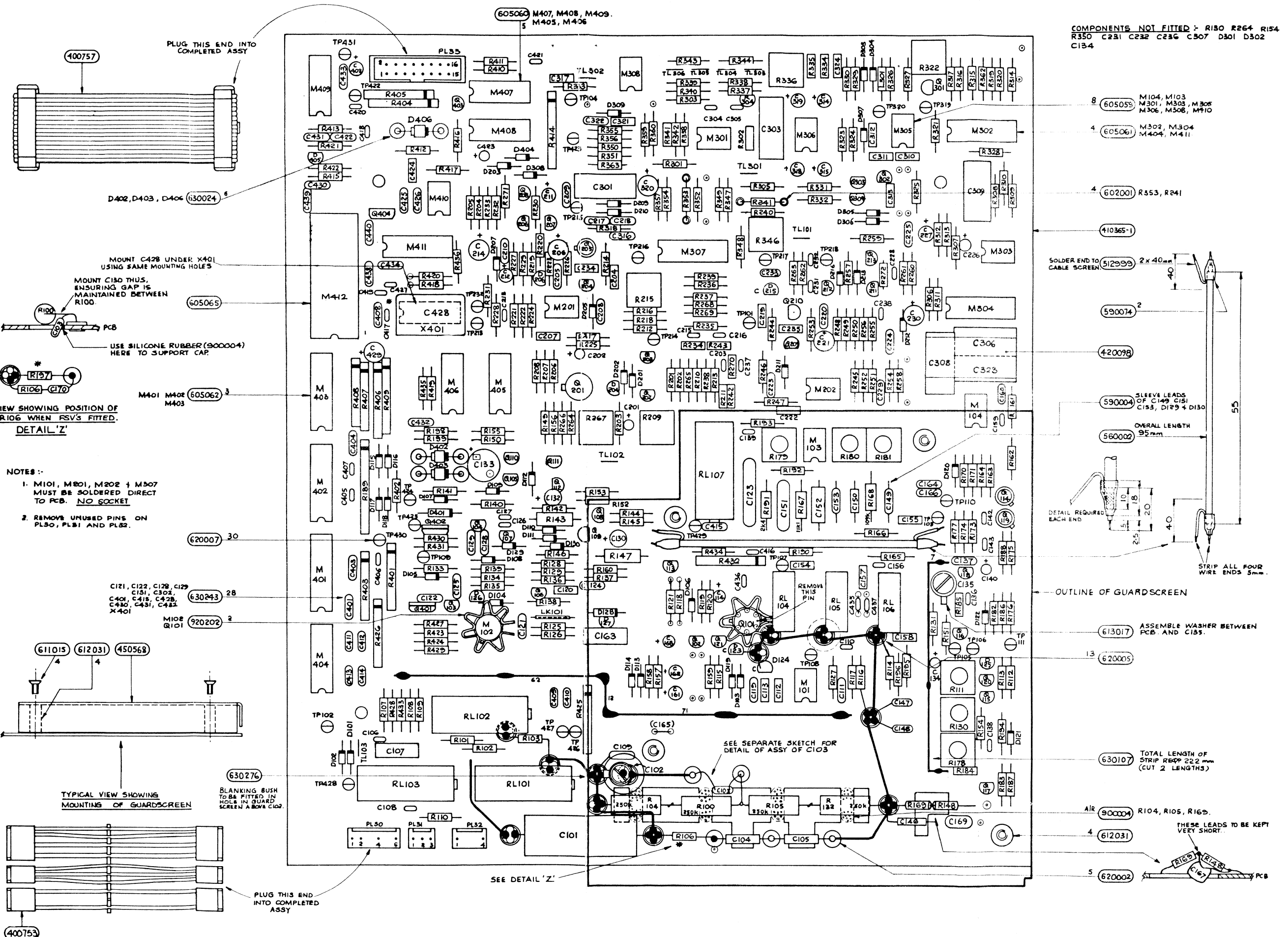






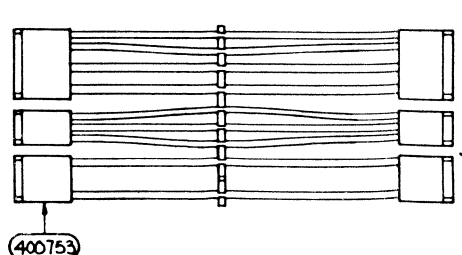
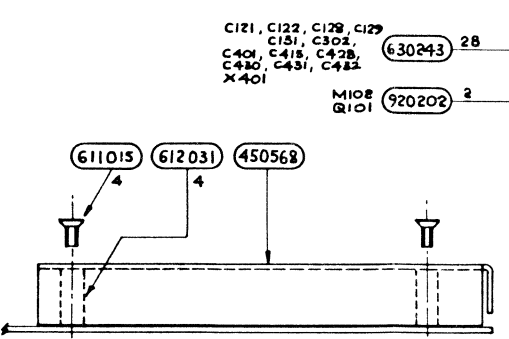
A.C. ASSEMBLY
Preamplifier
Drawing No. 430741

Sheet 1 of 4



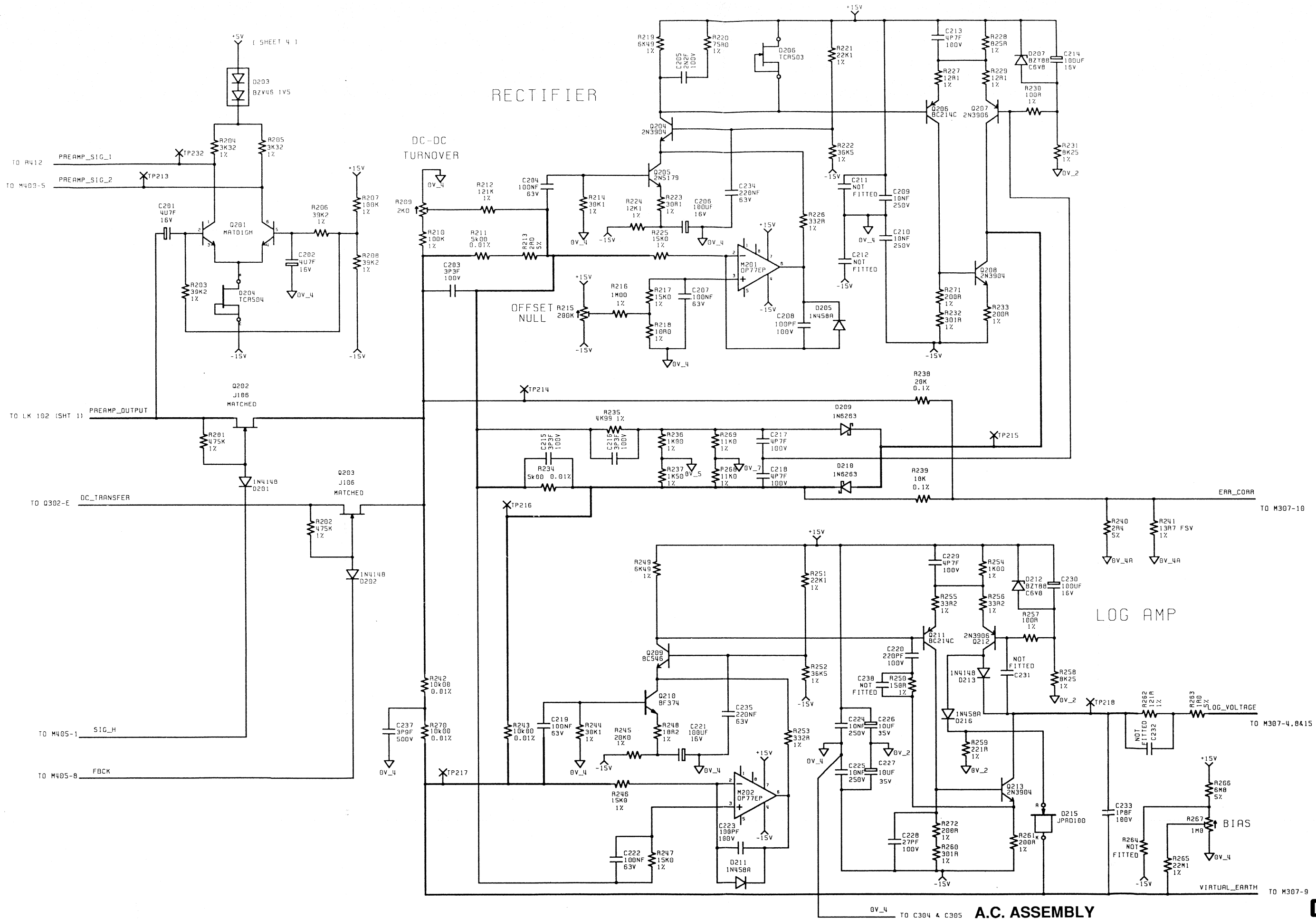
VIEW SHOWING POSITION OF R106 WHEN FSV'S FITTED. DETAIL 'Z'

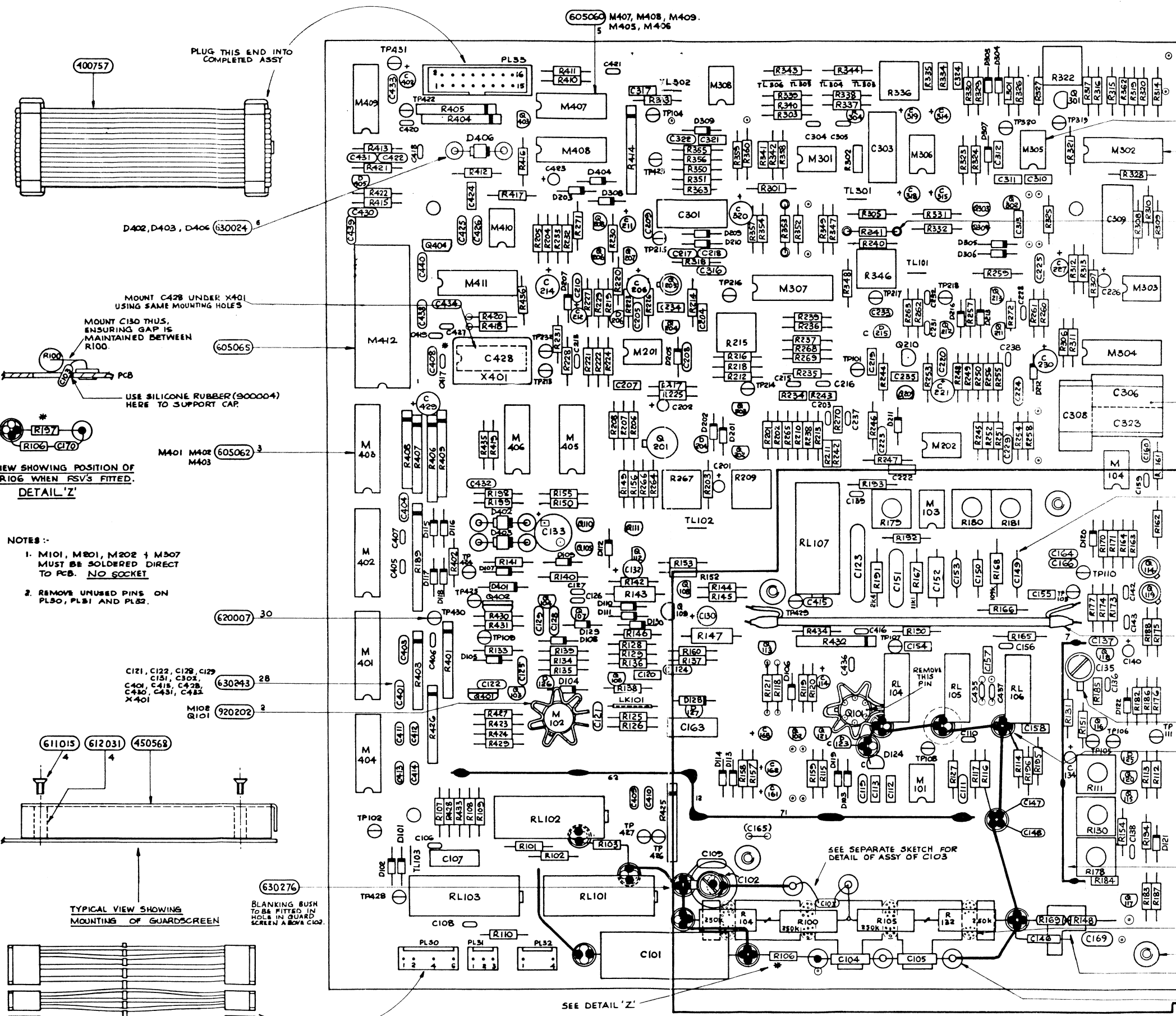
- NOTES:-
1. M101, M201, M202 & M307 MUST BE SOLDERED DIRECT TO PCB. NO SOCKET
 2. REMOVE UNUSED PINS ON PL30, PL31 AND PL32.



COMPONENTS NOT FITTED: R130 R264 R154 R350 C231 C232 C236 C307 D301 D302 C134

- 8 605055 M104, M103 M301, M303, M306 M306, M308, M410
- 4 605061 M302, M304 M404, M411
- 4 602001 R553, R241
- 410365-1
- SOLDER END TO CABLE SCREEN 512999 2 x 40mm
- 590074 2
- 420098
- 590004 SLEEVE LEADS OF C149 C151 C153, D129 & D130
- 560002 OVERALL LENGTH 95mm
- DETAIL REQUIRED EACH END
- STRIP ALL FOUR WIRE ENDS 5mm.
- OUTLINE OF GUARDSCREEN
- 613017 ASSEMBLE WASHER BETWEEN PCB AND C135.
- 13 620005
- 630107 TOTAL LENGTH OF STRIP R69P 222mm (CUT 2 LENGTHS)
- 12 900004 R104, R105, R169.
- 4 612031 THESE LEADS TO BE KEPT VERY SHORT.
- 5 620002

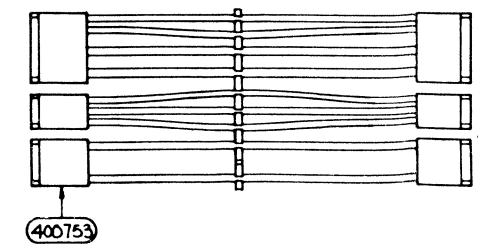
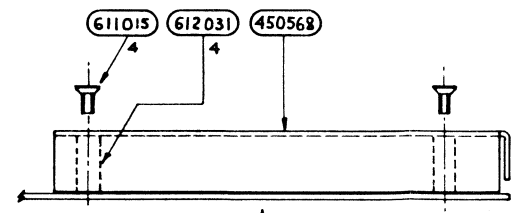




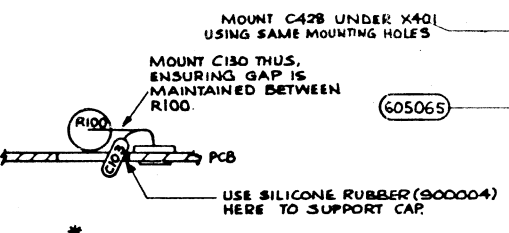
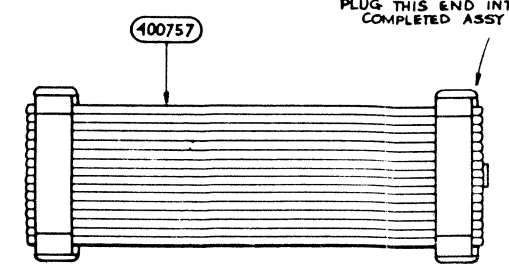
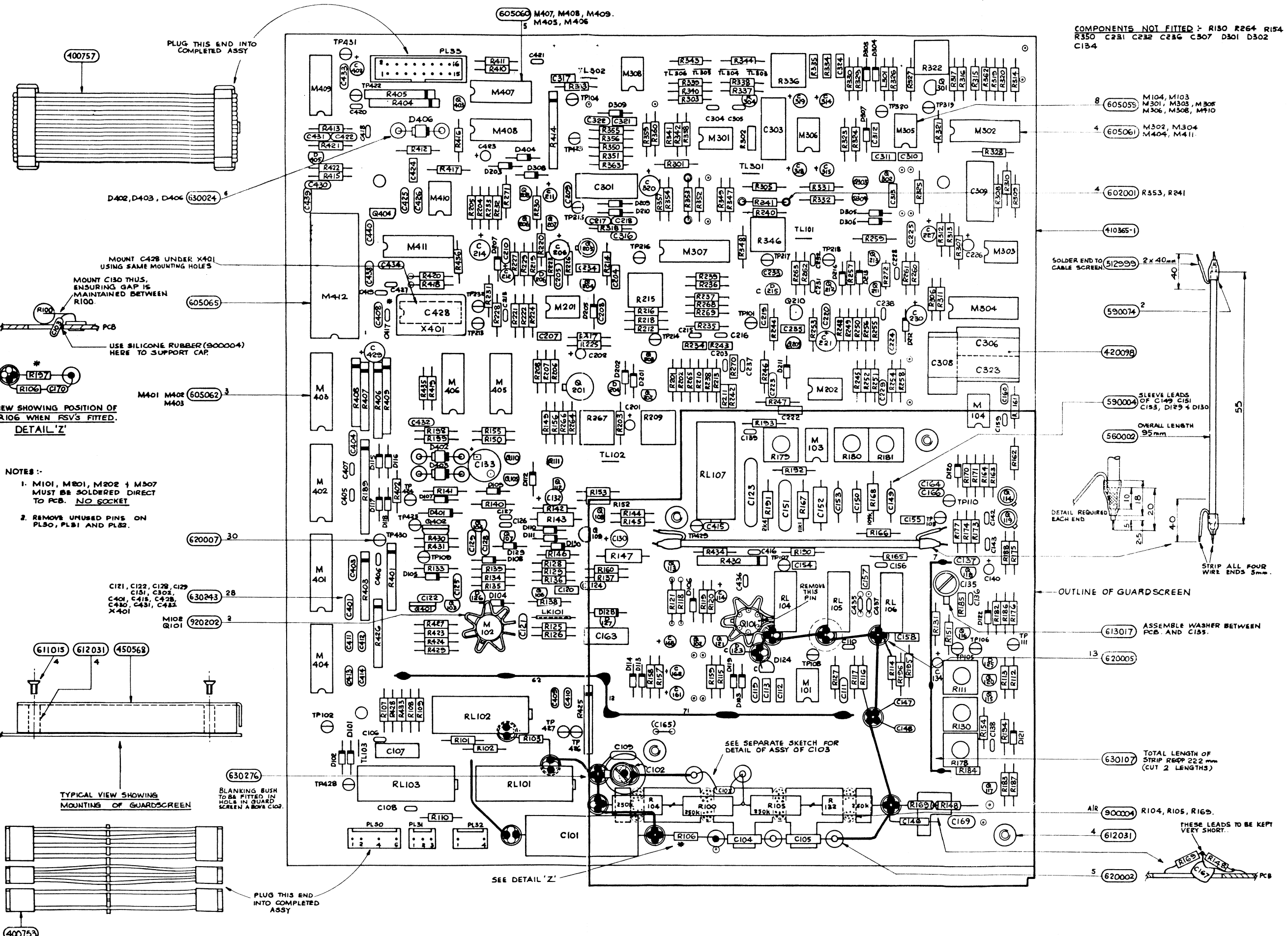
VIEW SHOWING POSITION OF R106 WHEN RSV'S FITTED. DETAIL 'Z'

NOTES:-

1. M101, M201, M202 & M307 MUST BE SOLDERED DIRECT TO PCB. NO SOCKET
2. REMOVE UNUSED PINS ON PL30, PL31 AND PL32.

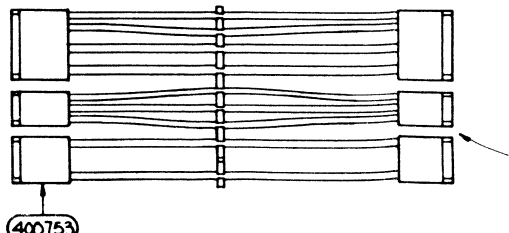
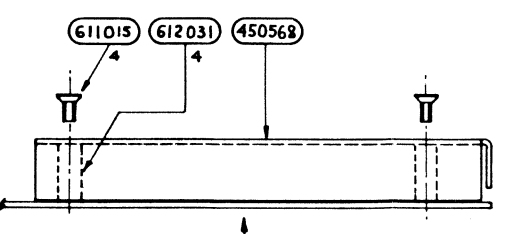


- COMPONENTS NOT FITTED: R130 R264 R154 R350 C231 C232 C236 C307 D301 D302 C134
- 8 605055 M104, M103 M301, M303, M305 M306, M308, M410
 - 4 605061 M302, M304 M404, M411
 - 4 602001 R553, R241
 - 410365-1
 - SOLDER END TO CABLE SCREEN 512999 2 x 40mm
 - 590074 2
 - 420098
 - 590004 SLEEVE LEADS OF C149, C151 C153, D129 & D130
 - 560002 OVERALL LENGTH 95mm
 - DETAIL REQUIRED EACH END
 - STRIP ALL FOUR WIRE ENDS 5mm
 - OUTLINE OF GUARDSCREEN
 - 613017 ASSEMBLE WASHER BETWEEN PCB AND C135
 - 13 620005
 - 630107 TOTAL LENGTH OF STRIP REAP 222mm (CUT 2 LENGTHS)
 - AIR 900004 R104, R105, R169
 - 4 612031 THESE LEADS TO BE KEPT VERY SHORT
 - 5 620002



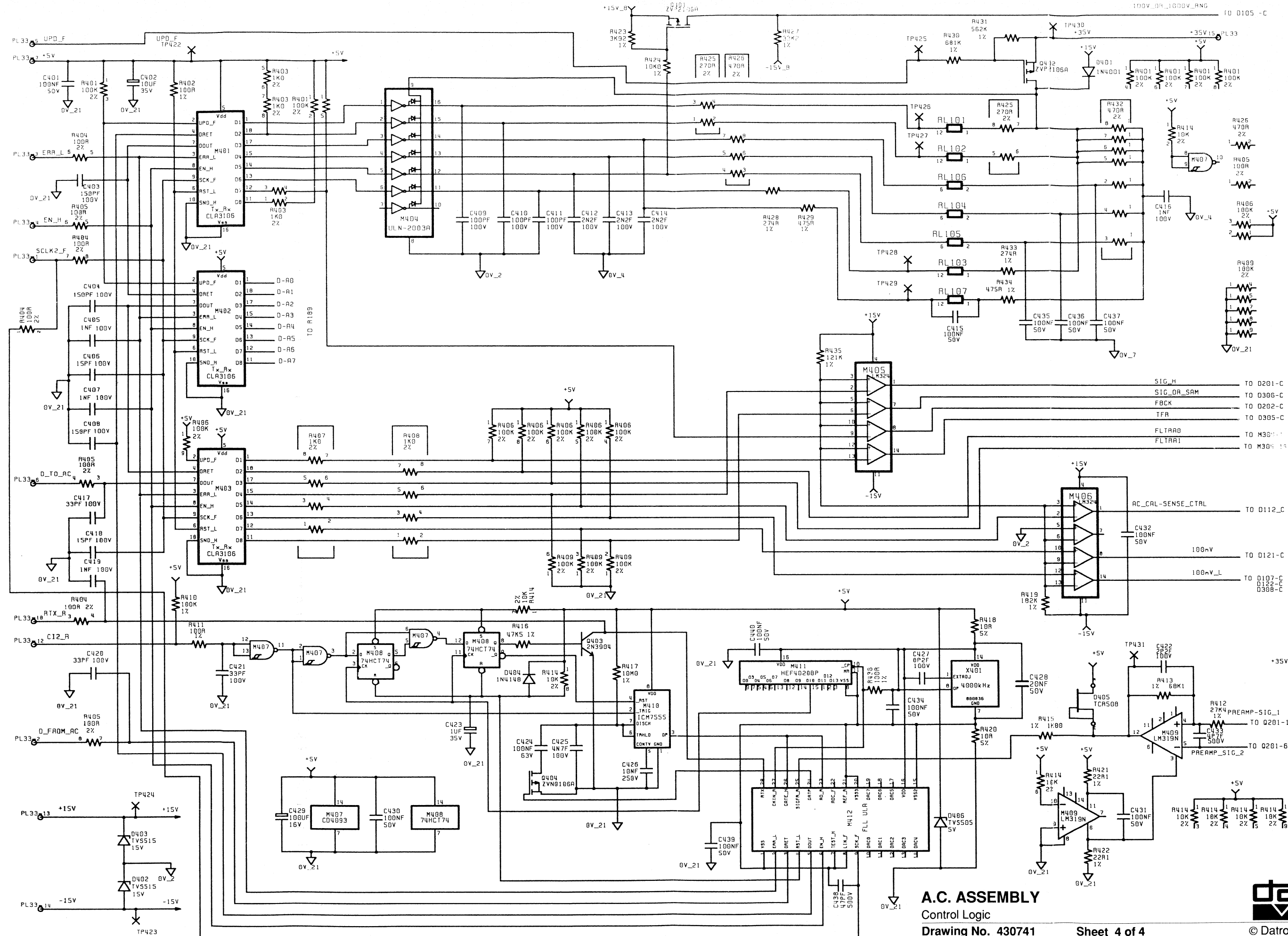
VIEW SHOWING POSITION OF R106 WHEN RSV3 IS FITTED. DETAIL 'Z'

- NOTES:-
1. M101, M201, M202 + M307 MUST BE SOLDERED DIRECT TO PCB. NO SOCKET
 2. REMOVE UNUSED PINS ON PL30, PL31 AND PL32.



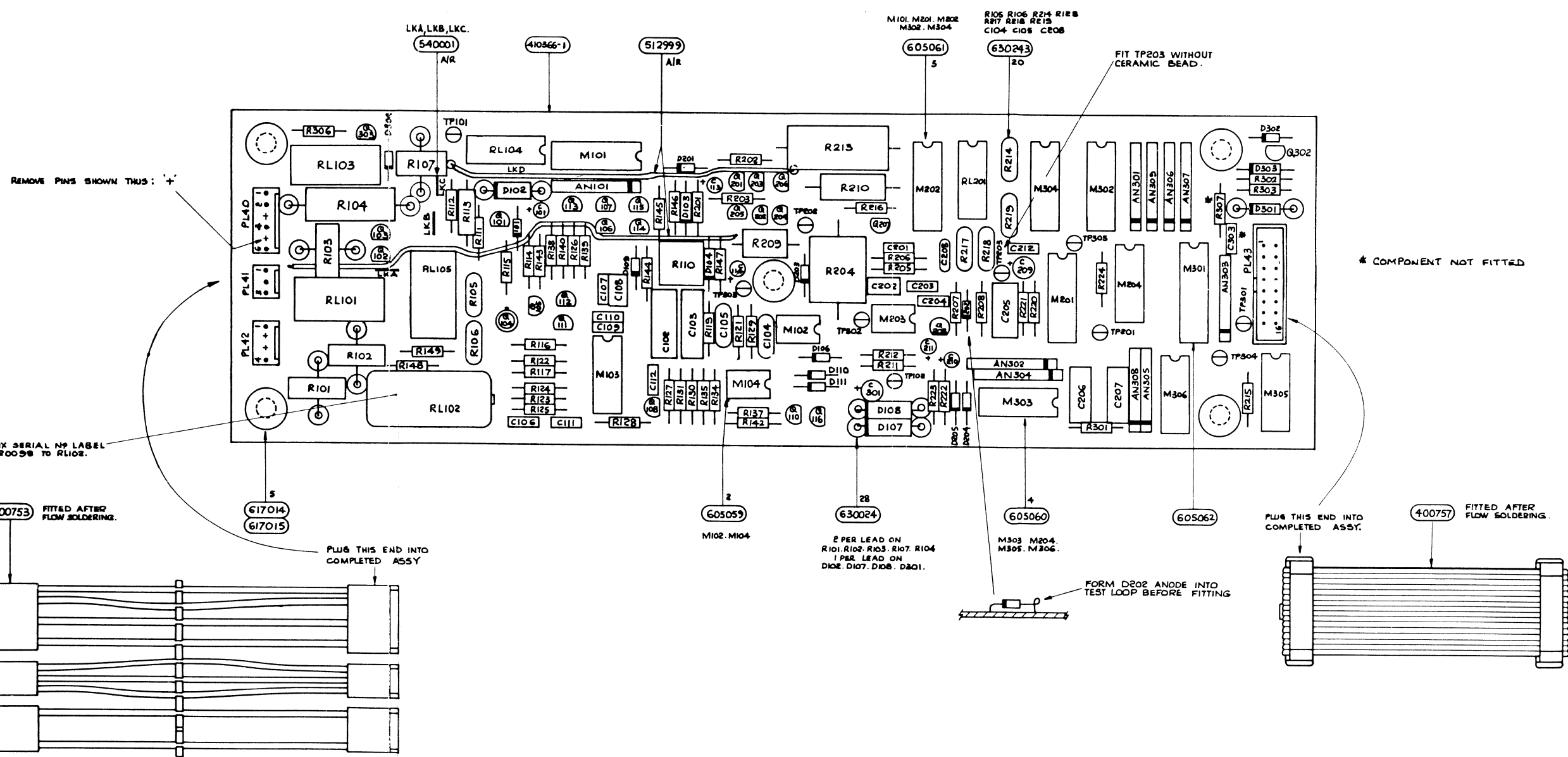
COMPONENTS NOT FITTED:- R130 R264 R154 R350 C231 C232 C233 C307 D301 D302 C134

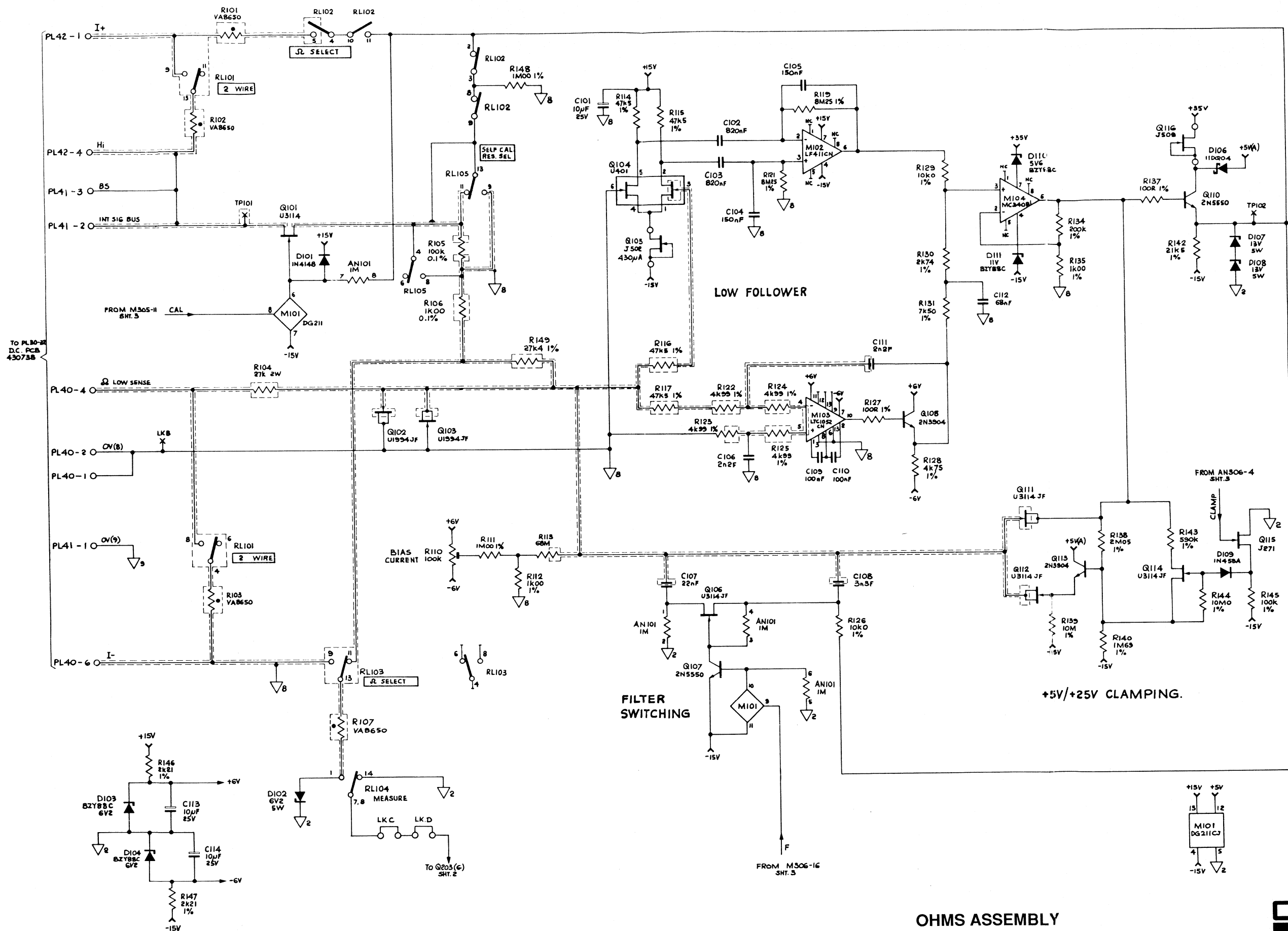
- 8 605055 M104, M103 M301, M303, M305 M306, M308, M410
- 4 605061 M302, M304 M404, M411
- 4 602001 R353, R241
- 410365-1
- SOLDER END TO CABLE SCREEN 512999 2 x 40mm
- 590074²
- 420098
- 590004 SLEEVE LEADS OF C149 C151 C153, D129 + D130
- 560002 OVERALL LENGTH 95mm
- DETAIL REQUIRED EACH END
- STRIP ALL FOUR WIRE ENDS 5mm
- OUTLINE OF GUARDSCREEN
- 613017 ASSEMBLE WASHER BETWEEN PCB AND C135
- 13 620005
- 630107 TOTAL LENGTH OF STRIP REQD 222mm (CUT 2 LENGTHS)
- AIR 900004 R104, R105, R169
- 4 612031 THESE LEADS TO BE KEPT VERY SHORT
- 5 620002



A.C. ASSEMBLY
Control Logic
Drawing No. 430741

Sheet 4 of 4



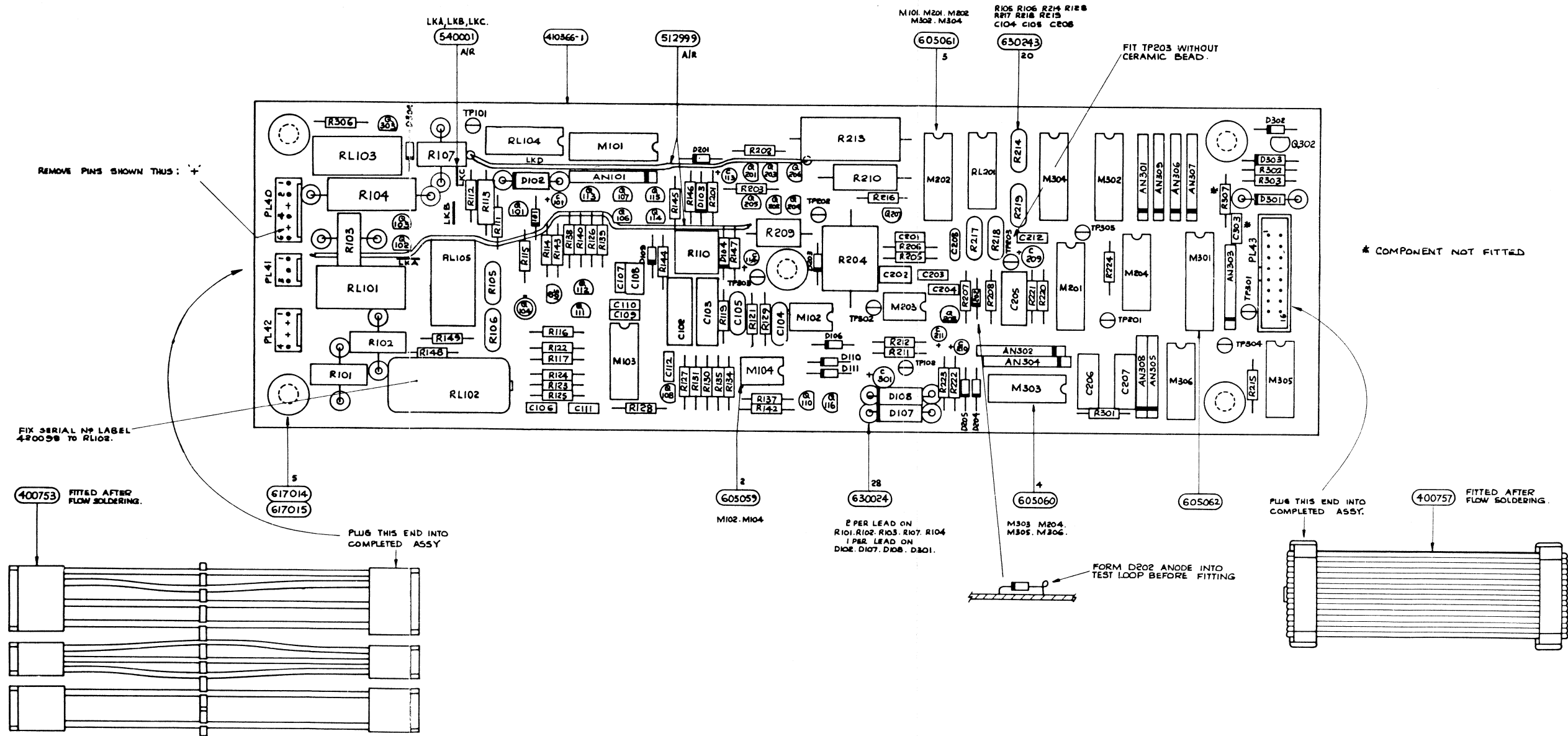


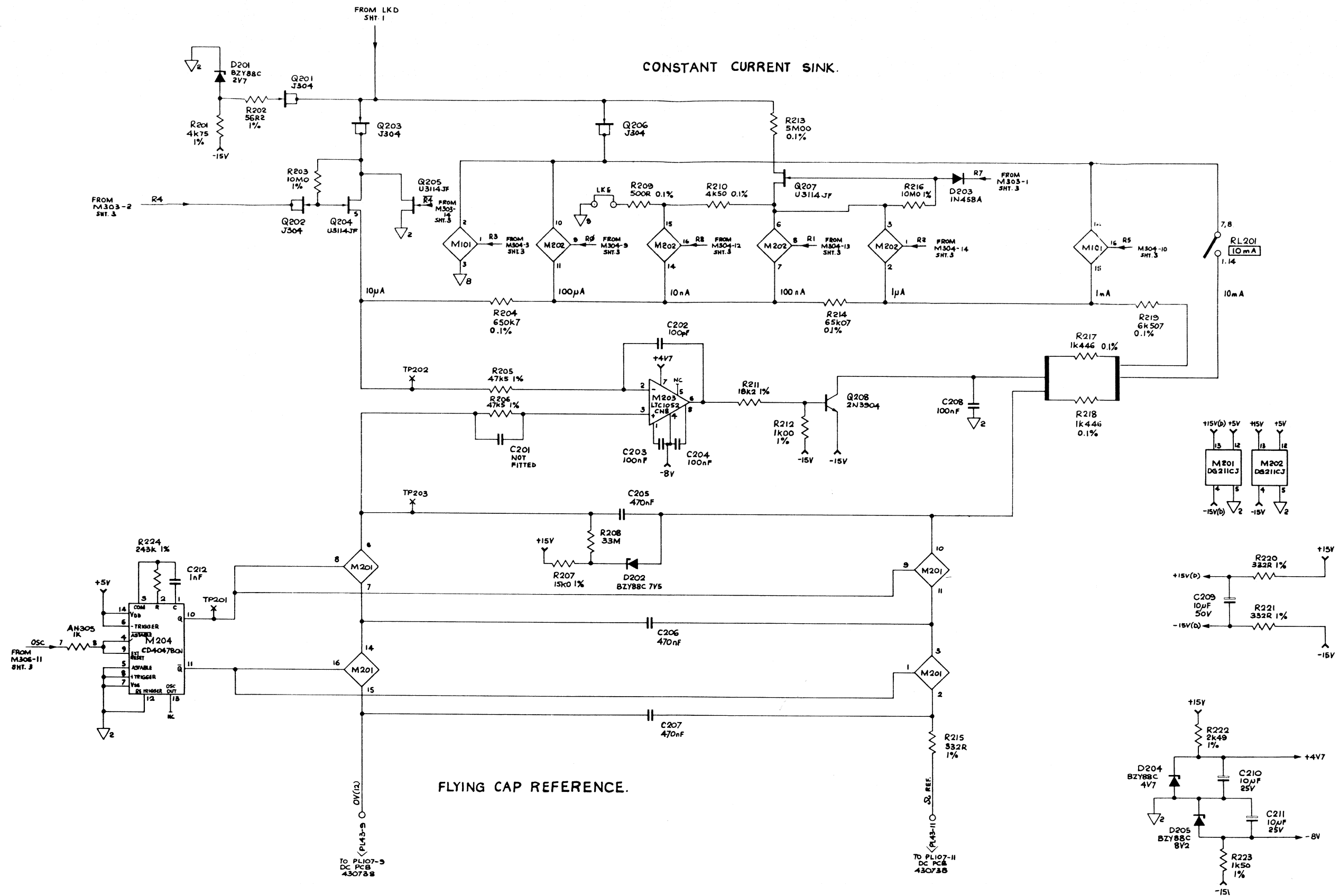
OHMS ASSEMBLY

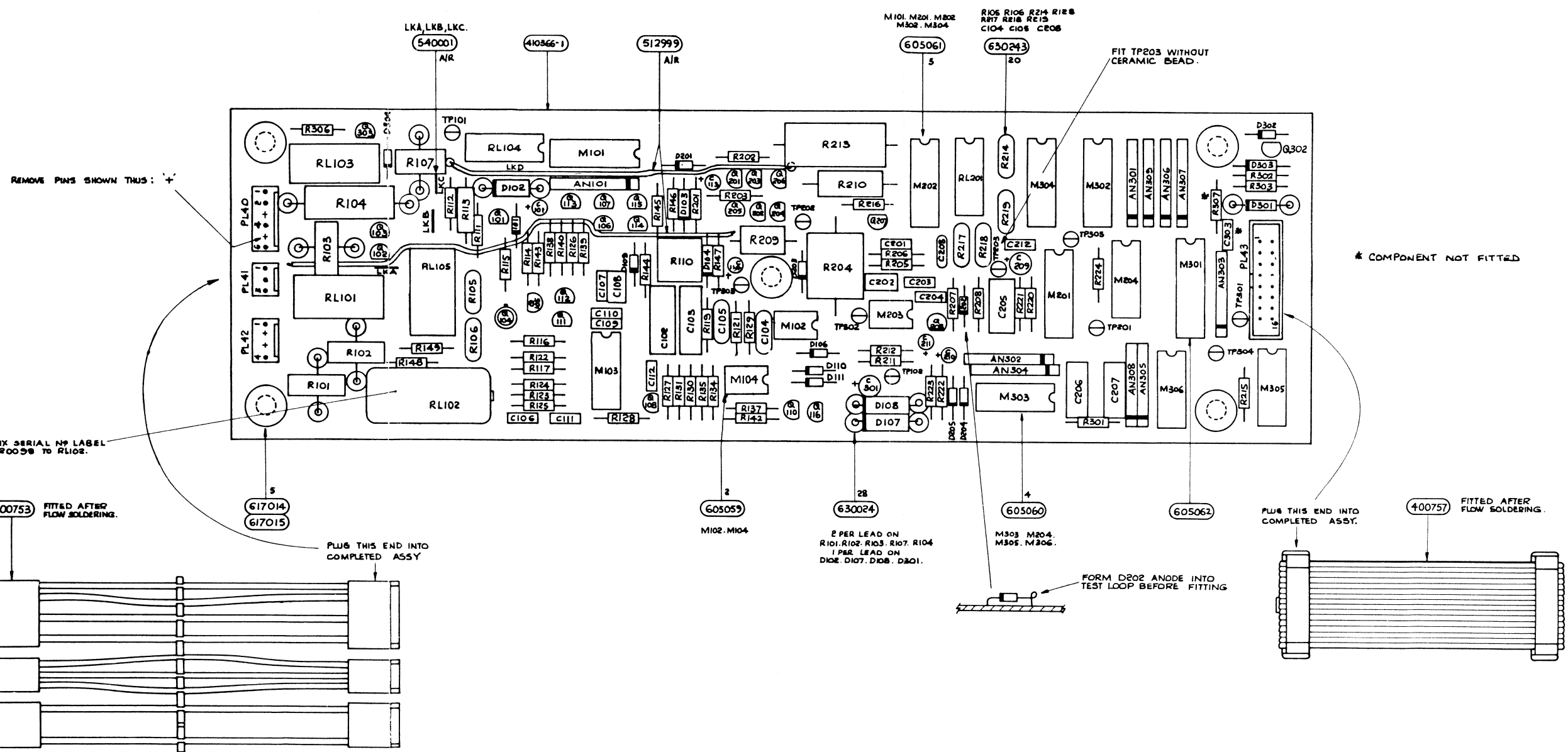
Low Follower

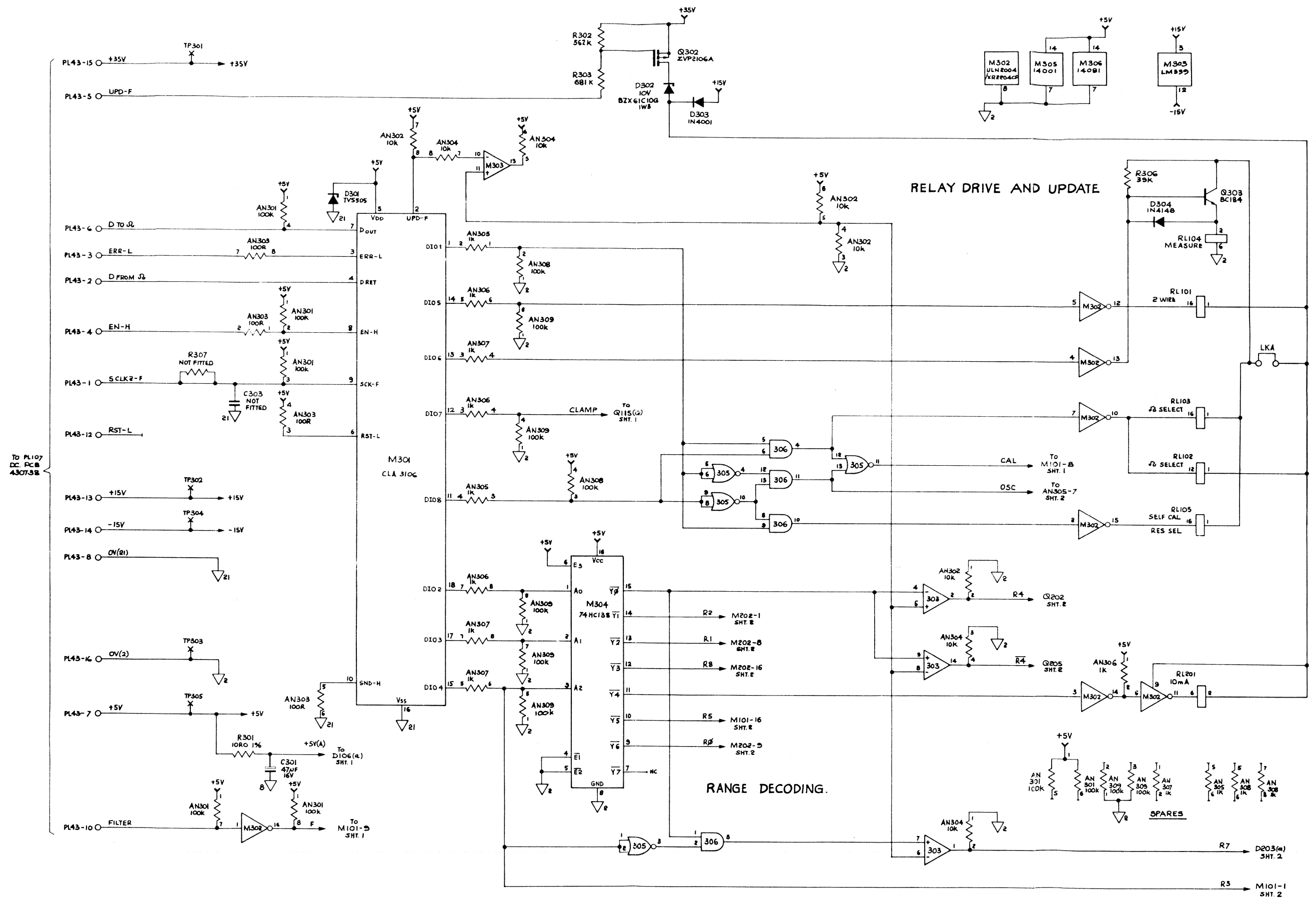
Drawing No. 430742

Sheet 1 of 3









OHMS ASSEMBLY

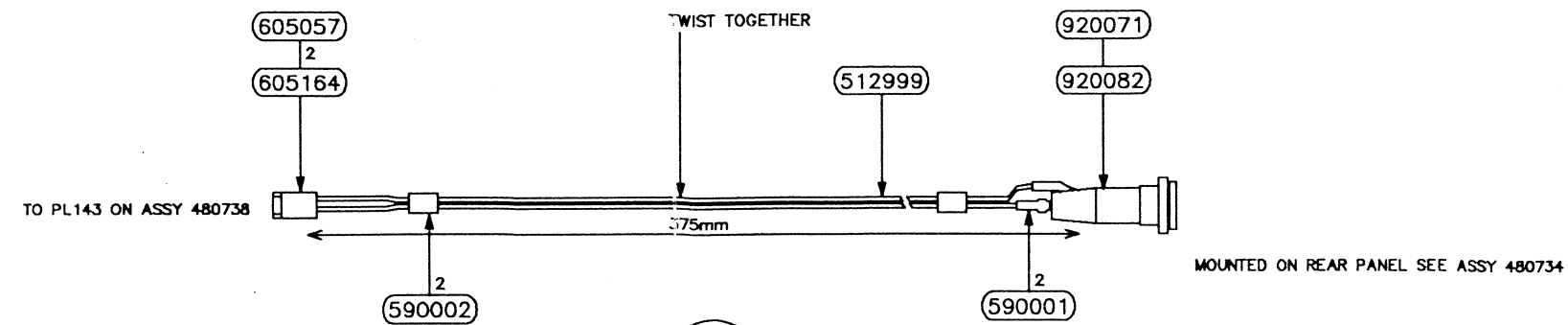
Control Logic

Drawing No. 430742

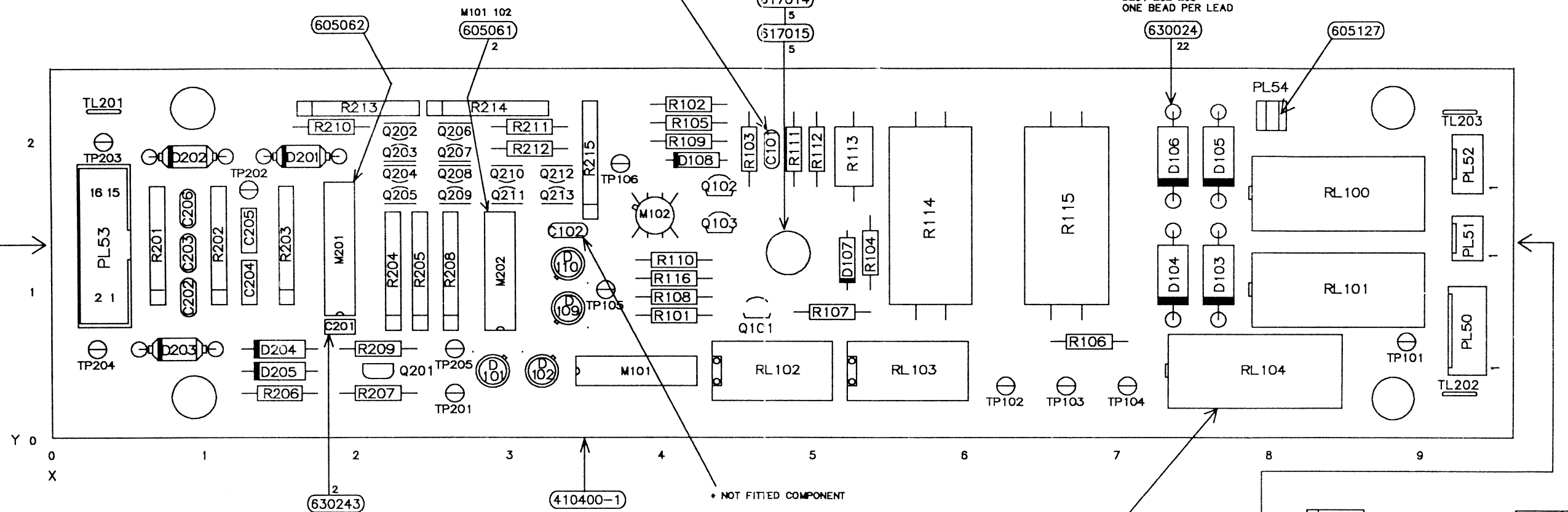
Sheet 3 of 3

1281
datron
WAVETEK

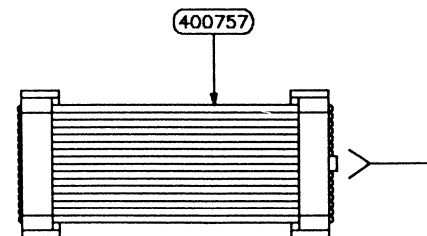
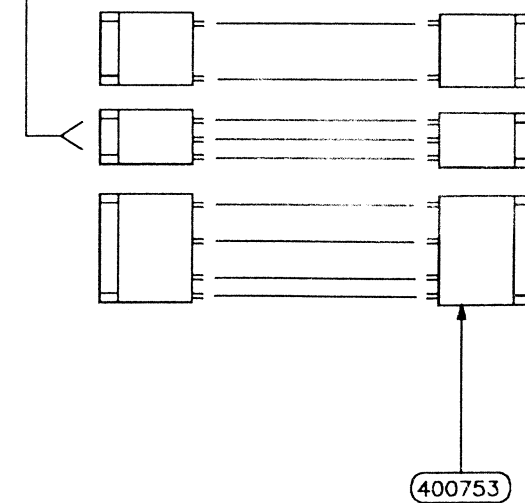
© Datron Instruments 1989



C101 IS 470PF(102471) IF R111 MANUFR IS MANN
C101 IS 330PF(102331) IF R111 MANUFR IS KELVIN

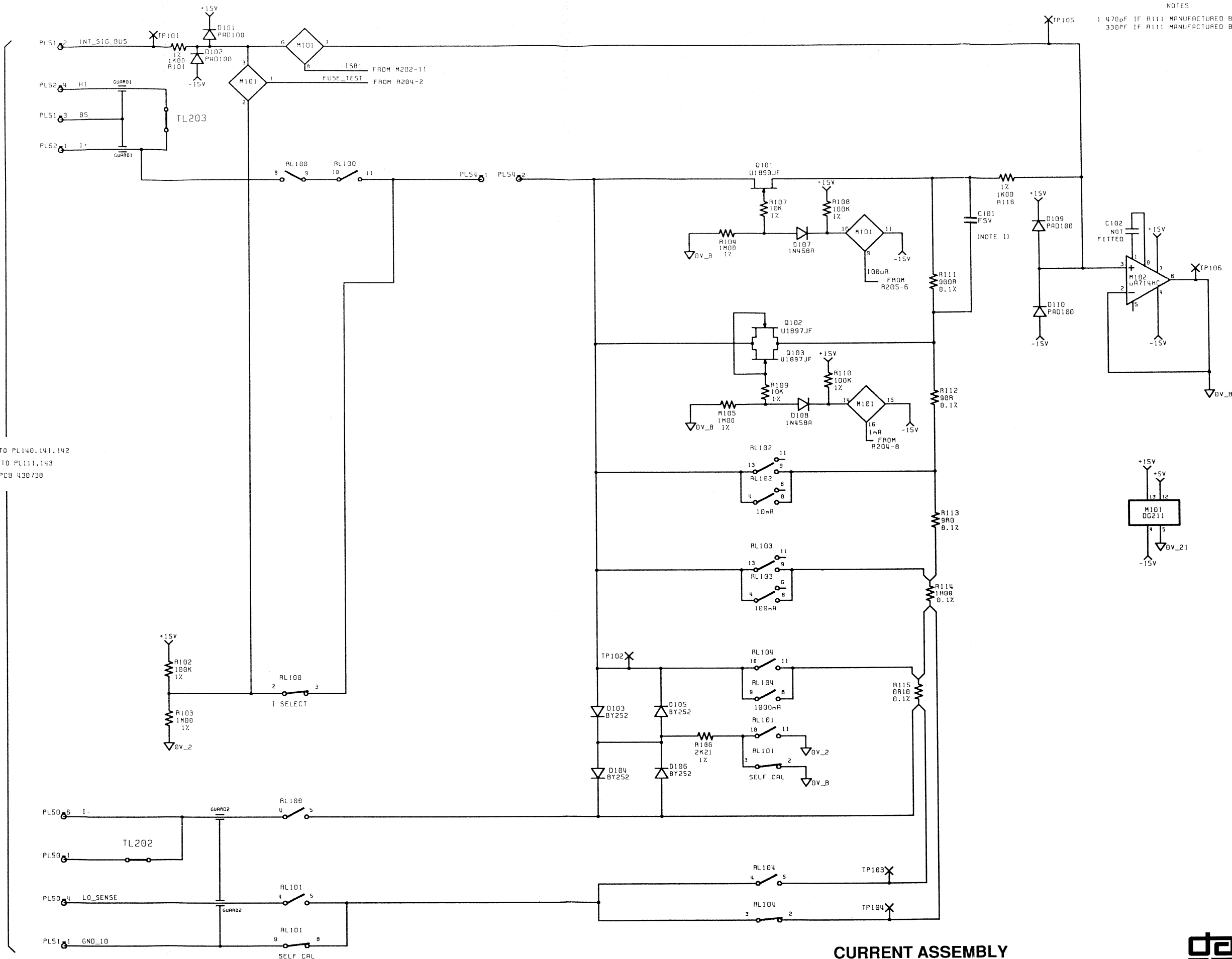


PLACE SERIAL NO. LABEL
ON RL104



NOTES
 1 470pF IF R111 MANUFACTURED BY MANN
 330PF IF R111 MANUFACTURED BY KELVIN

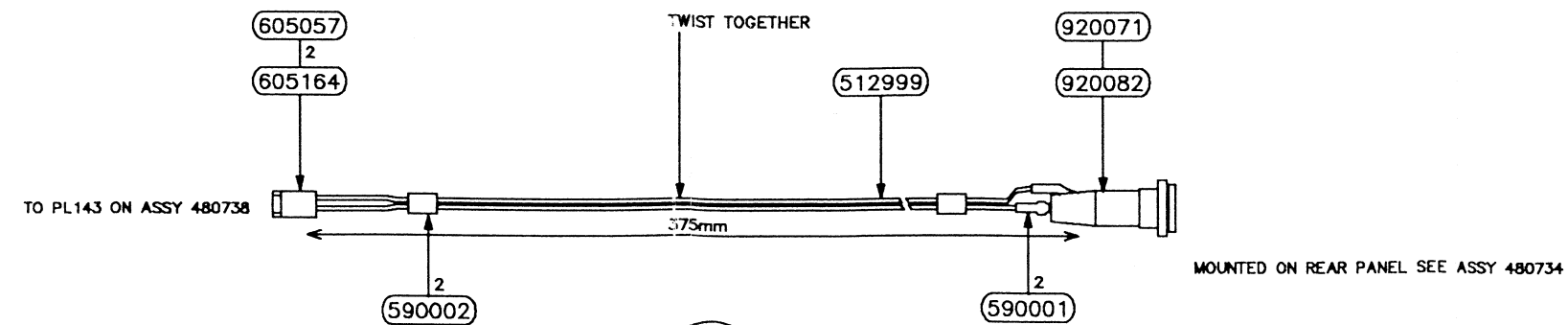
PL50,51,52 TO PL140,141,142
 E101,102 TO PL111,143
 DC PCB 430738



CURRENT ASSEMBLY
 Current to Voltage Converter
 Drawing No. 430743

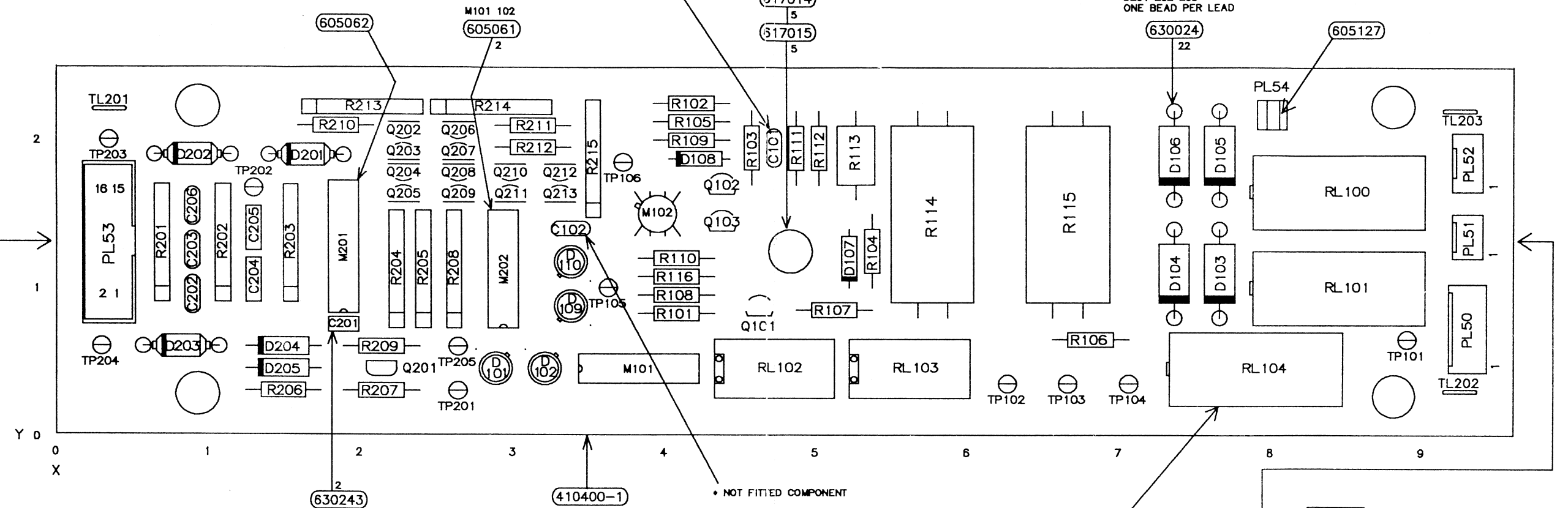
Sheet 1 of 2

1281
datron
WAVETEK
 © Datron Instruments 1989

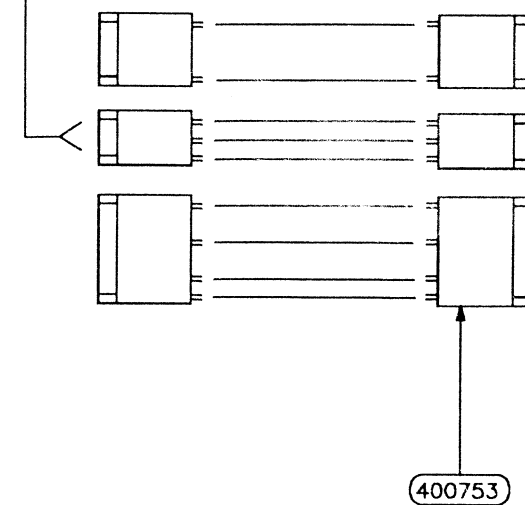
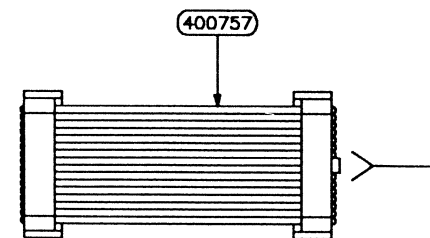


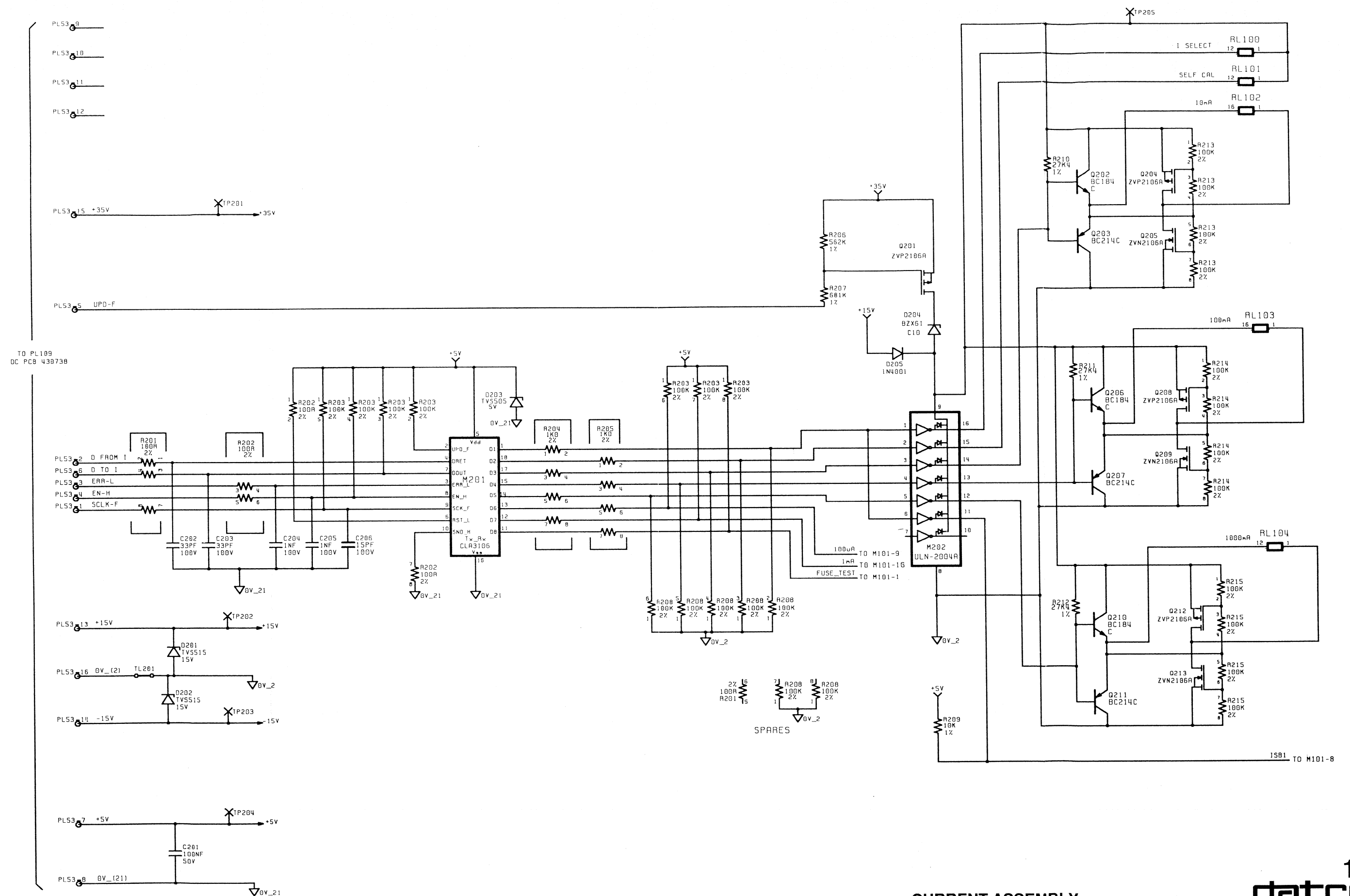
C101 IS 470PF(102471) IF R111 MANUFR IS MANN
C101 IS 330PF(102331) IF R111 MANUFR IS KELVIN

D103 104 105 106
TWO BEADS PER LEAD
D201 202 203
ONE BEAD PER LEAD



PLACE SERIAL NO. LABEL
ON RL104





CURRENT ASSEMBLY

Control Logic

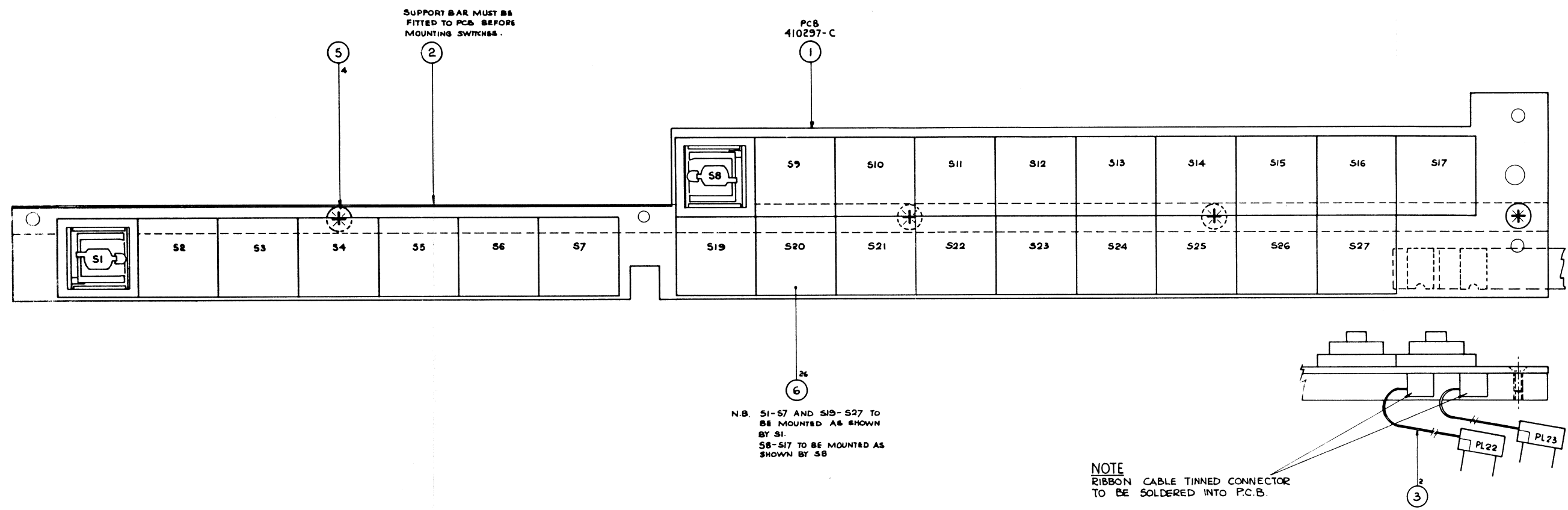
Drawing No. 430743

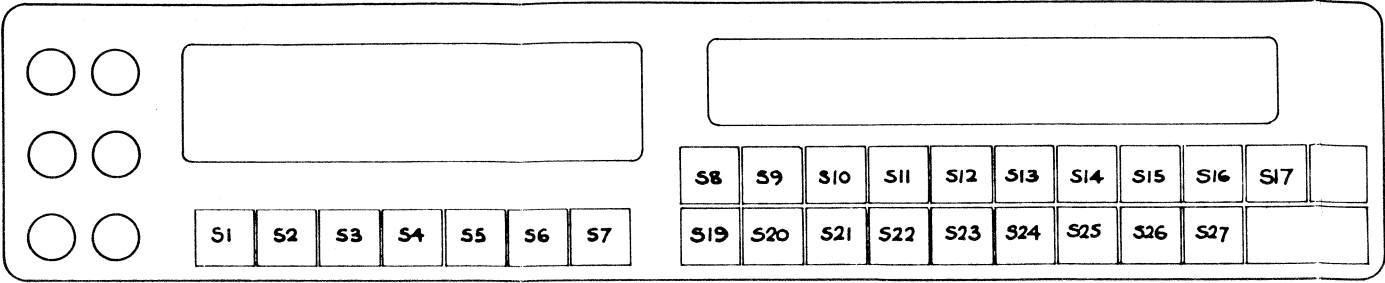
Sheet 2 of 2



© Datron Instruments 1989

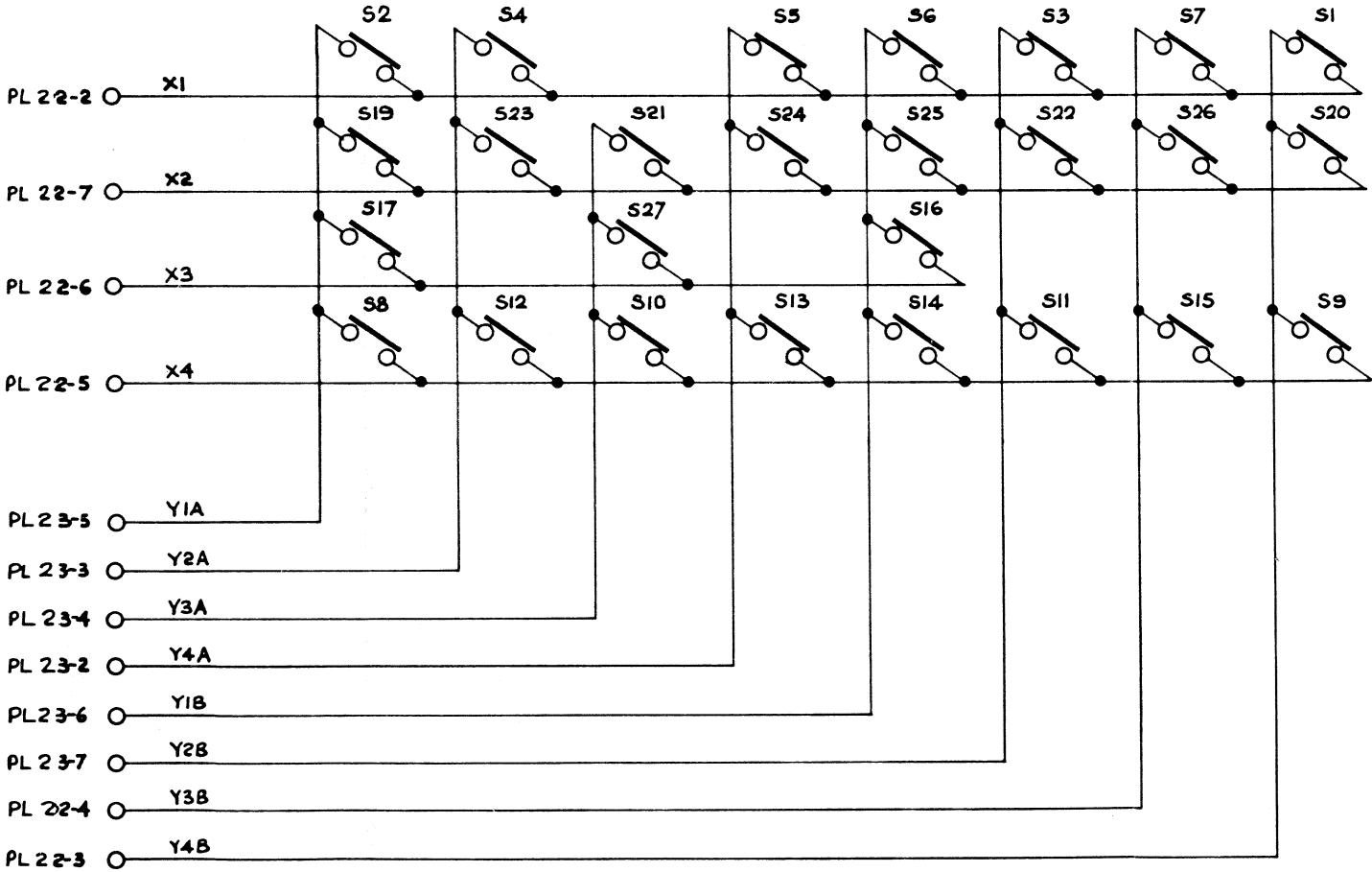
SWITCH ASSEMBLY





FRONT PANEL SWITCH LAYOUT.

PL 22-1 ○ SPARE
 PL 22-8 ○ SPARE
 PL 23-1 ○ SPARE
 PL 23-8 ○ SPARE



KEY N°	* KB4-KBØ	KEY N°	* KB4-KBØ
1	1C	17	Ø2
2	ØØ		
3	14	19	Ø1
4	Ø4	20	1D
5	ØC	21	Ø9
6	1Ø	22	15
7	18	23	Ø5
8	Ø3	24	ØD
9	1F	25	11
10	ØB	26	19
11	17	27	ØA
12	Ø7		
13	ØF		
14	13		
15	1B		
16	12		

* FOR KBØ-KB5 REFER TO 400739
 KB5 IS A LOGIC '1' WHILE A VALID KEY IS HELD. THE KEY ENCODER OUTPUT ALWAYS INDICATES THE LAST VALID KEY ON KB4-KBØ.