

Provisional Issue A

**CALIBRATION
and
SERVICING
HANDBOOK**

4910 and 4911

DC Voltage Reference Standards



SERVICING HANDBOOK

for

THE DATRON 4910 and 4911 DC VOLTAGE REFERENCE STANDARDS

For any assistance contact your nearest Datron Sales and Service center.
Addresses can be found at the back of this handbook.

850258

Provisional Issue A (JANUARY 1990)

Due to our policy of continuously updating our products, this handbook may contain minor differences in specification, components and circuit design to the instrument actually supplied. Amendment sheets precisely matched to your serial number are available on request.

4910/4911 Servicing Handbook

Contents

SECTIONS 1 to 10 are in course of preparation

SECTION 11 4910/4911 Servicing Diagrams and Parts Lists

N.B. The parts list for an assembly is at the rear of the assembly's sub-section.

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FINISHED ASSEMBLIES

**No Assembly or Circuit Drawings issued -
Parts Lists Overleaf**



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DESCRIPTION	DRAWING NUMBER	SHEET NUMBER	ISSUE	REVISION
PARTS LIST	LP400884	1	1.0	1.1
ASSEMBLY DRAWING				
CIRCUIT DIAGRAM				
TEST PROCEDURE				
TEST SPECIFICATION				
PCB				

DRAWING NO: LD400884
 DOCUMENT LIST
 DATE: 1.0 30.03.17.89 Rke
 DATE: 1.1 31.05.22.89 M
 ISSUE: 1.0 30.03.17.89 Rke
 ISSUE: 1.1 31.05.22.89 M

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DRN	CHECKED	APPROVED	TITLE	DRAWING NO
IL	Rke	RwF	4910 FINISHED INSTRUMENT ASSY.	LD400884
DATE	DATE	DATE		SHEET 1 OF 1
17 JUL 89	1 AUG 89	1 AUG 89		

NOTES: [] DENOTES NO CHANGE TO DOC'S AT ISSUE LEVEL CHANGE

29 NOV 1989


DATRON INSTRUMENTS LTD PARTS LIST 21-Nov-89 DESC: ASSY FINISHED INST 4910 DRG NO: LP400884-1 REV: 1 PAGE NO: 1

DESIG	PART NO	DESCRIPTION	PRINC MANUF	MANUF PART NUMBER	CLASS	UM	QUANTITY	CHANGES
	400883-1	ASSY INST 4910	DATRON	SEE DRG	EA		1	
	400959-1	ASSY SOFT CARRY CASE 4910	DATRON	SEE DRG	EA		1	
	440161-1	RIT RACK MOUNT 4910	DATRON	SEE DRG	EA		1	
	450774-1	PACKING BOX 4910		SEE DRG	EA		1	
	450777-1	CASE TRANSIT 4910		SEE DRG	EA		1	
	604114	PLUG 15 WAY SHIELDED D TYPE	AMP	748046-1	EA		1	
	605195	SOCKET PCB 9-WAY D SHIELDED	AMP	748047-1	EA		1	
	850254-1	HANDBOOK USER 4910/4911		SEE DRG	EA		1	
	850258-1	HANDBOOK SERV 4910/4911		SEE DRG	EA		1	
	900016	CLEANING FLUID	RS COMPONENTS	556-654	AR		1	
	920012	MAINS LEAD/CORN	BELLING LEE	L/949	EA		1	
	920229	FUSE 1.6A 250V 32mm SLOW BLOW	LITTLEFUSE	31301.6	EA		1	

End

LD400907

DATE	BY	DESCRIPTION	ISSUE / REVISION
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1.1	3465 22.11.89 Rlt		
1.0		LD400907	1
1.0			
1.1			

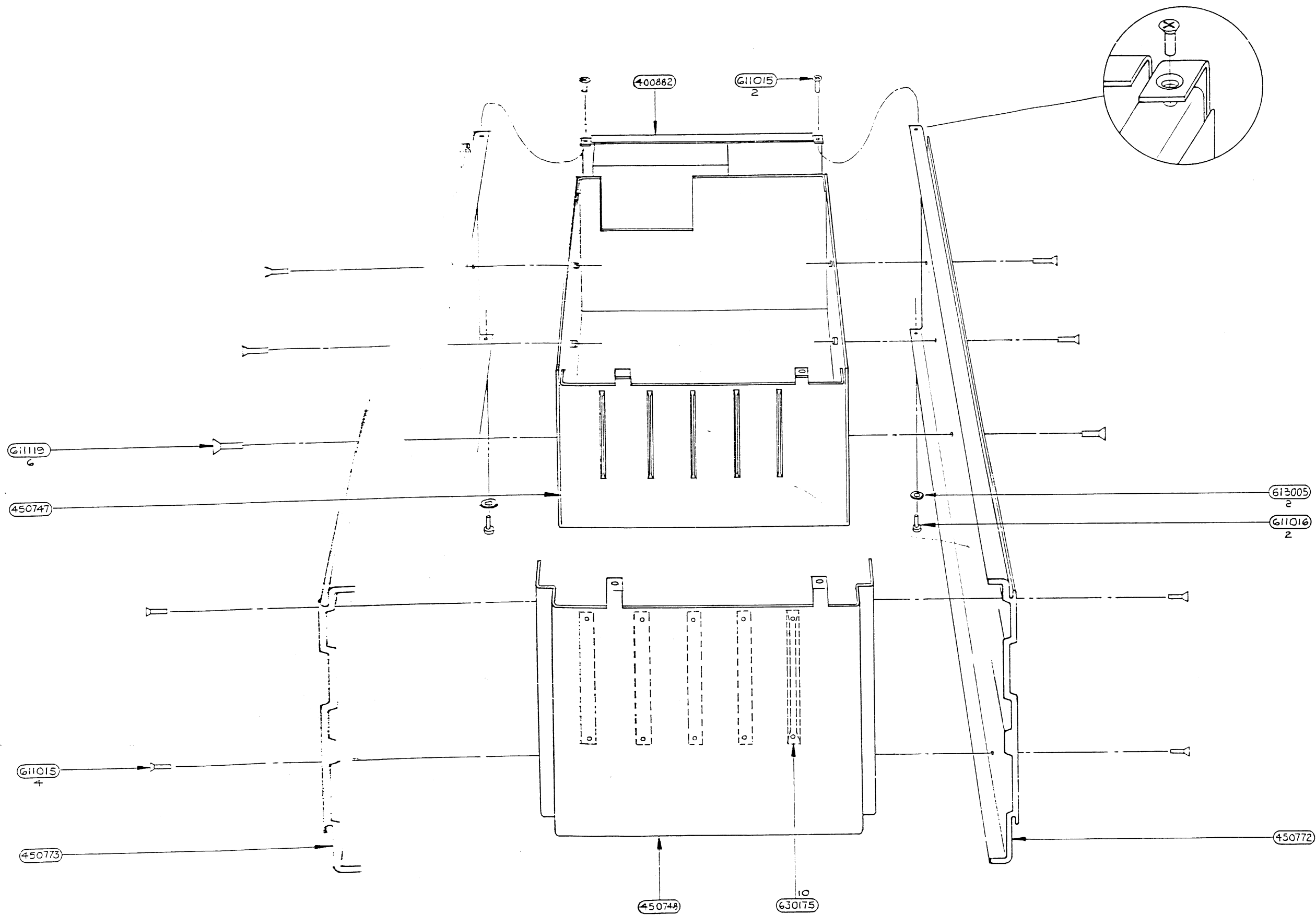
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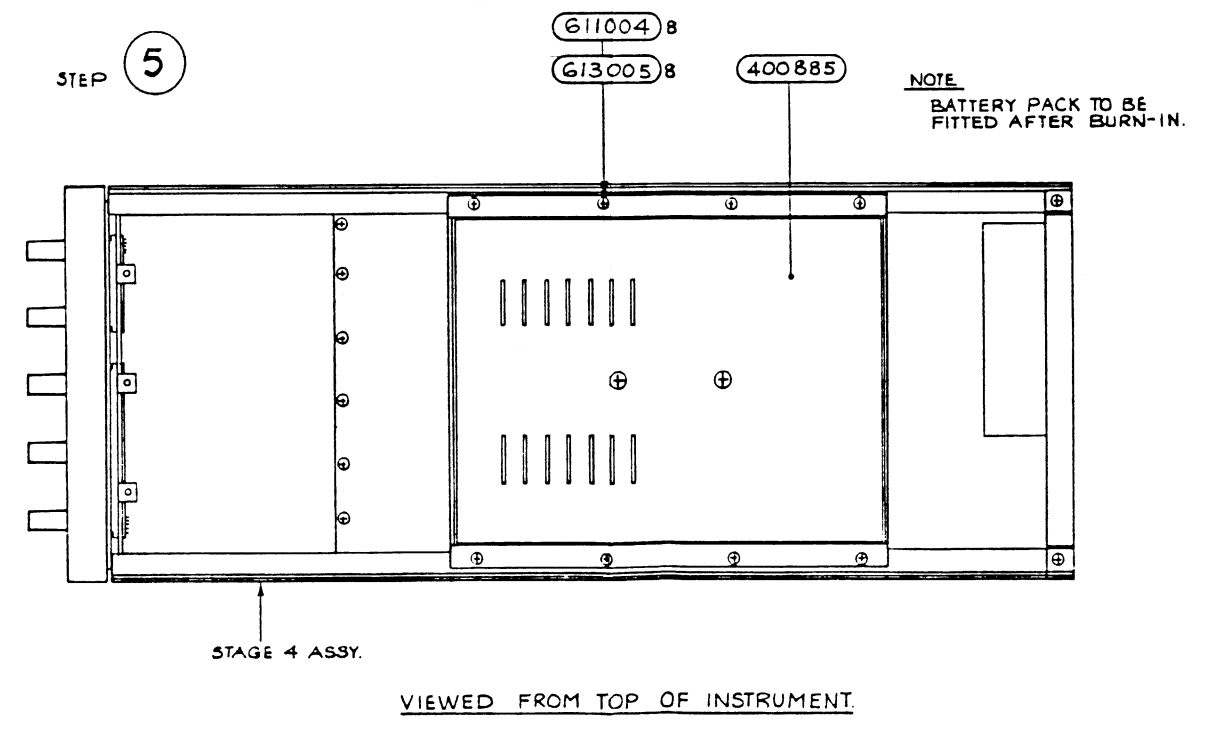
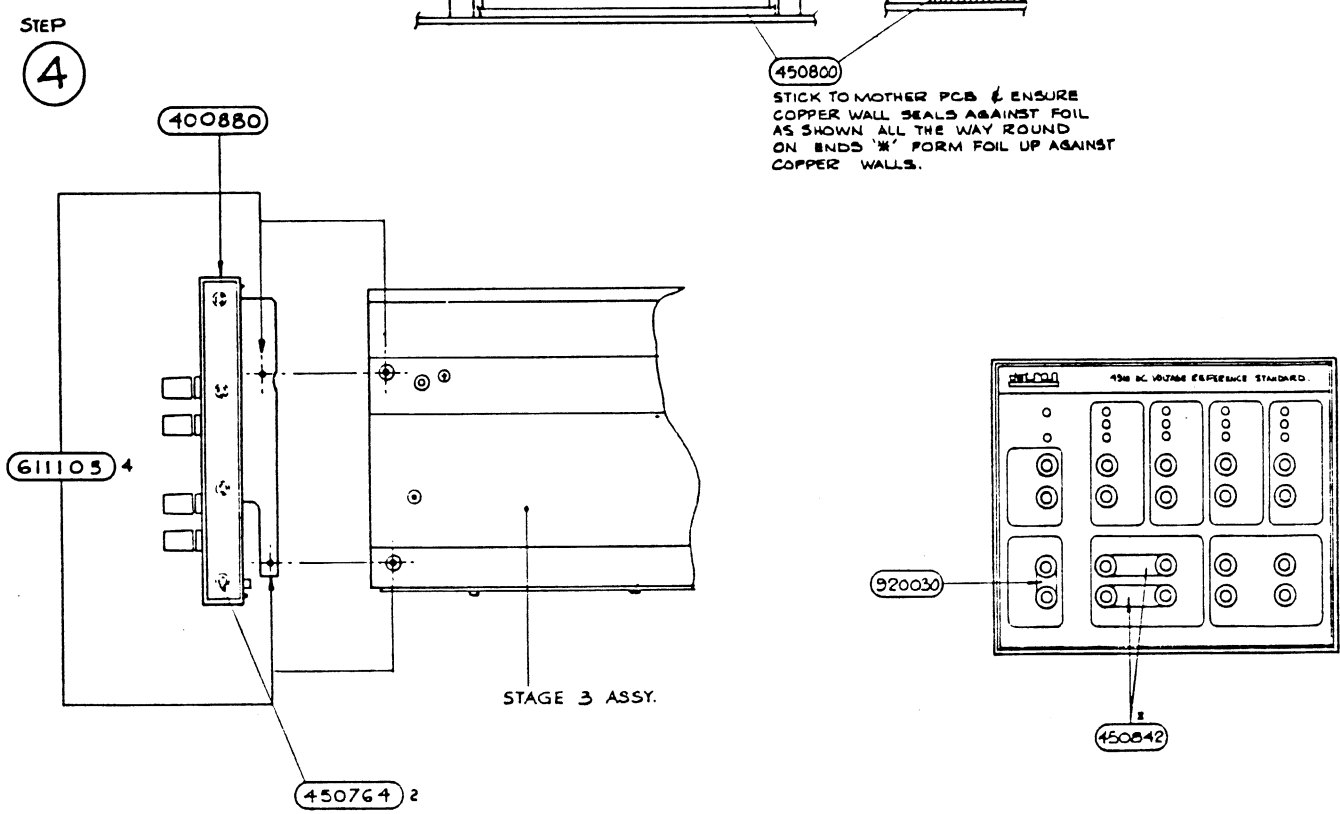
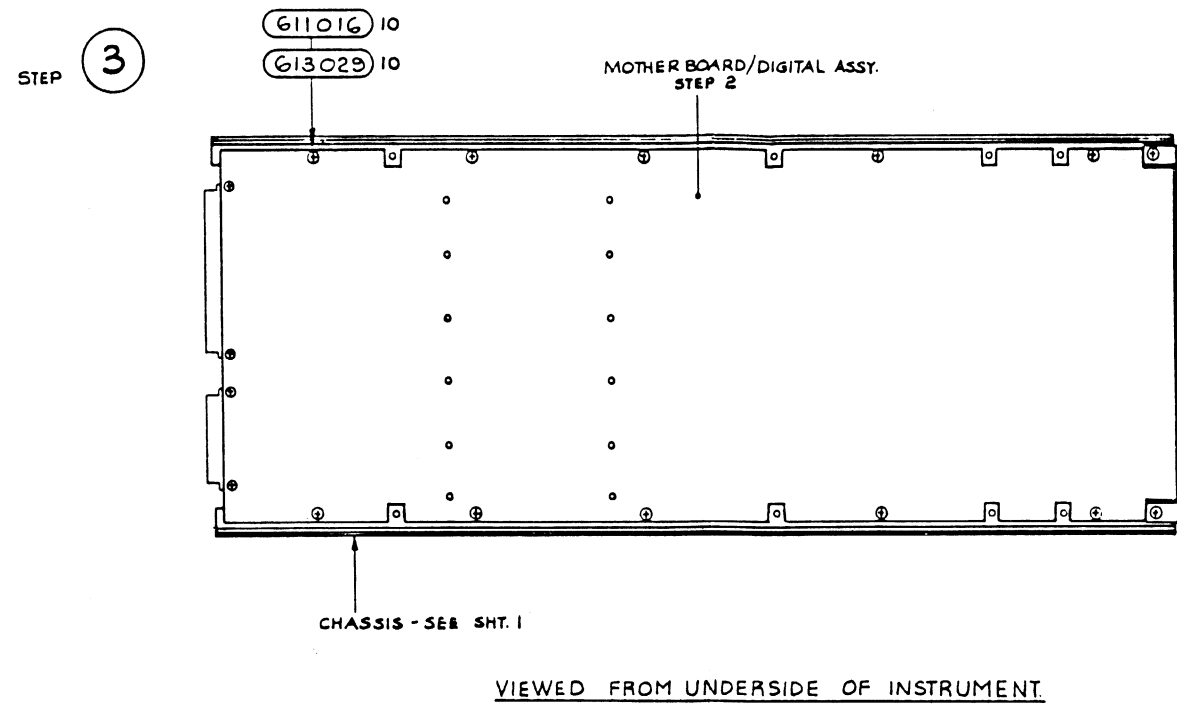
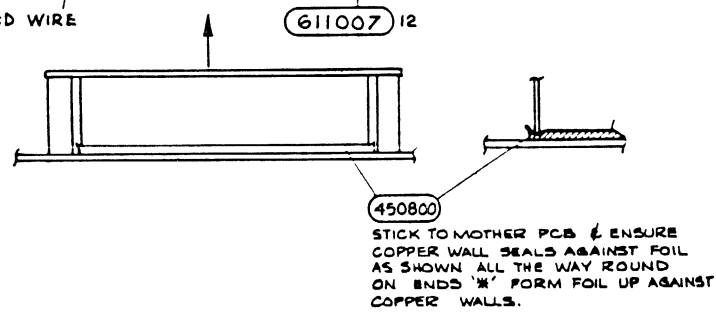
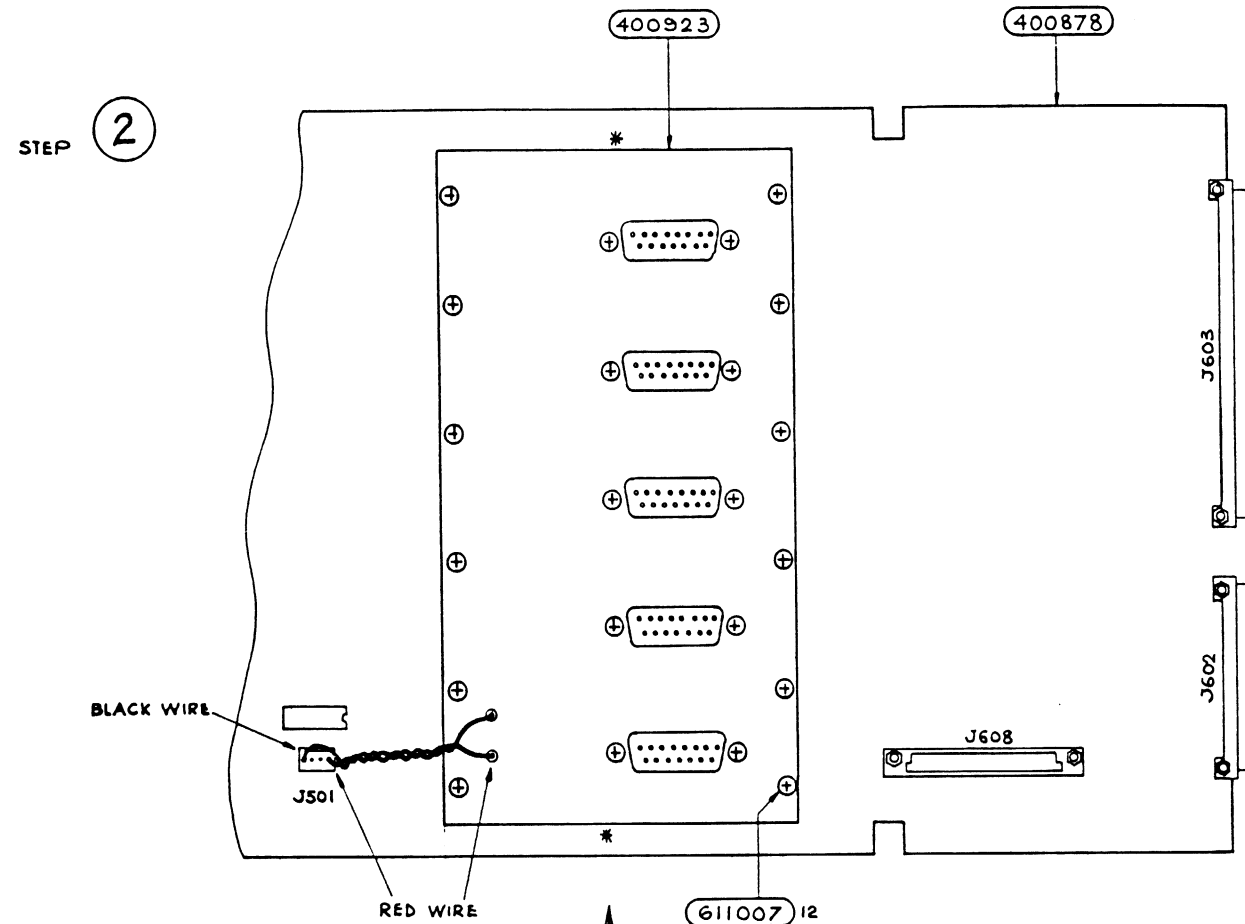
29 NOV 1989

DATRON INSTRUMENTS LTD PARTS LIST 21-Nov-89 DESC: ASSY FINISHED (INST 4911) DRG NO: LP400907-1 REV: 1 PAGE No: 1

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	400906-1	ASSY INSTRUMENT 4911	DATRON	SEE DRG	EA 1
	400959-1	ASSY SOFT CARRY CASE 4910	DATRON	SEE DRG	EA 1
	440161-1	RIT RACK MOUNT 4910	DATRON	SEE DRG	EA 1
	450774-1	PACKING BOX 4910		SEE DRG	EA 1
	450777-1	CASE TRANSIT 4910		SEE DRG	EA 1
	604114	PLUG 15 WAY SHIELDED D TYPE	AMP	748046-1	EA 1
	605195	SOCKET PCB 9 WAY D SHIELDED	AMP	748047-1	EA 1
	850254-1	HANDBOOK USER 4910/4911		SEE DRG	EA 1
	850258-1	HANDBOOK SERV 4910/4911		SEE DRG	EA 1
	900016	CLEANING FLUID	RS COMPONENTS	556-654	AR 1
	920012	MAINS LEAD/CONN	BELLING LEE	L/949	EA 1
	920229	FUSE 1.6A 250V 32mm SLOW BLOW	LITTLEPUSE	31301,6	EA 1

End

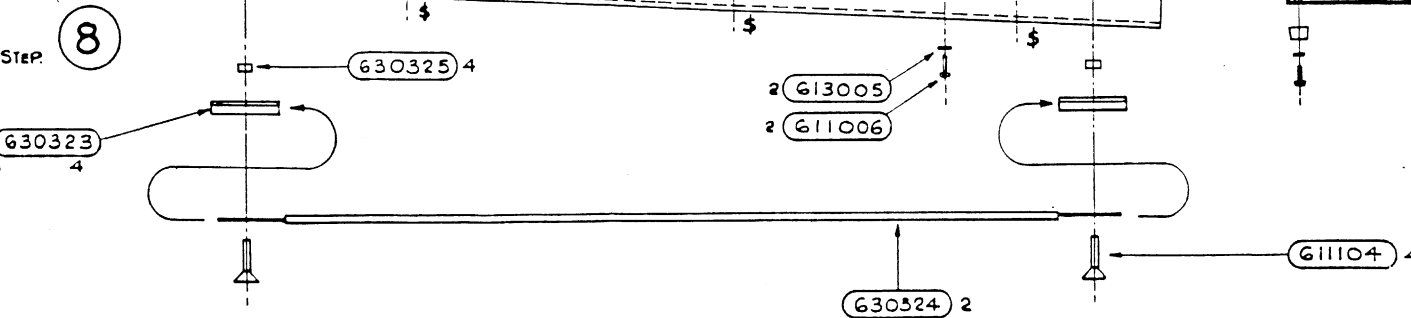
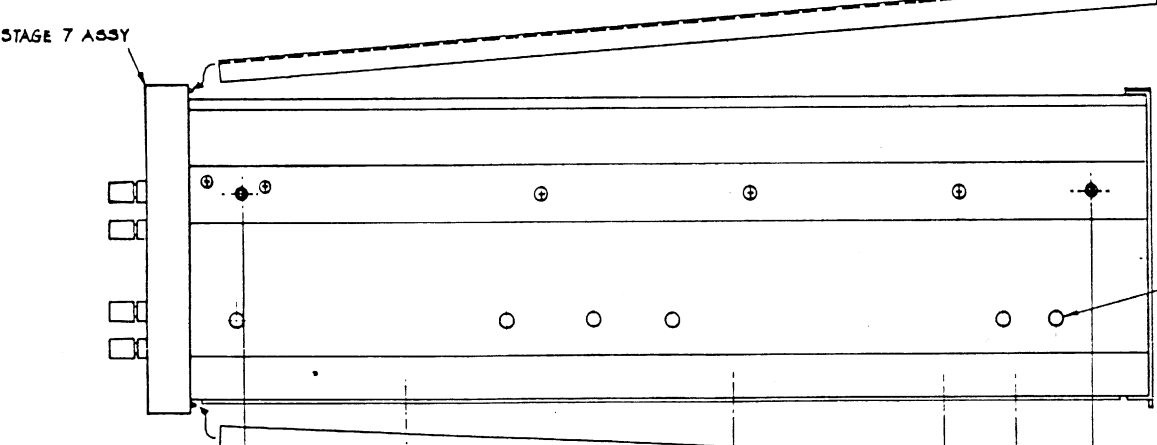
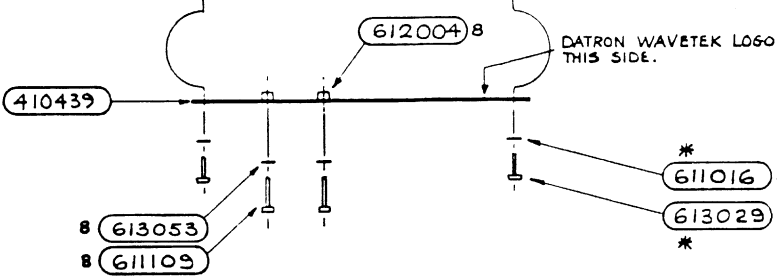
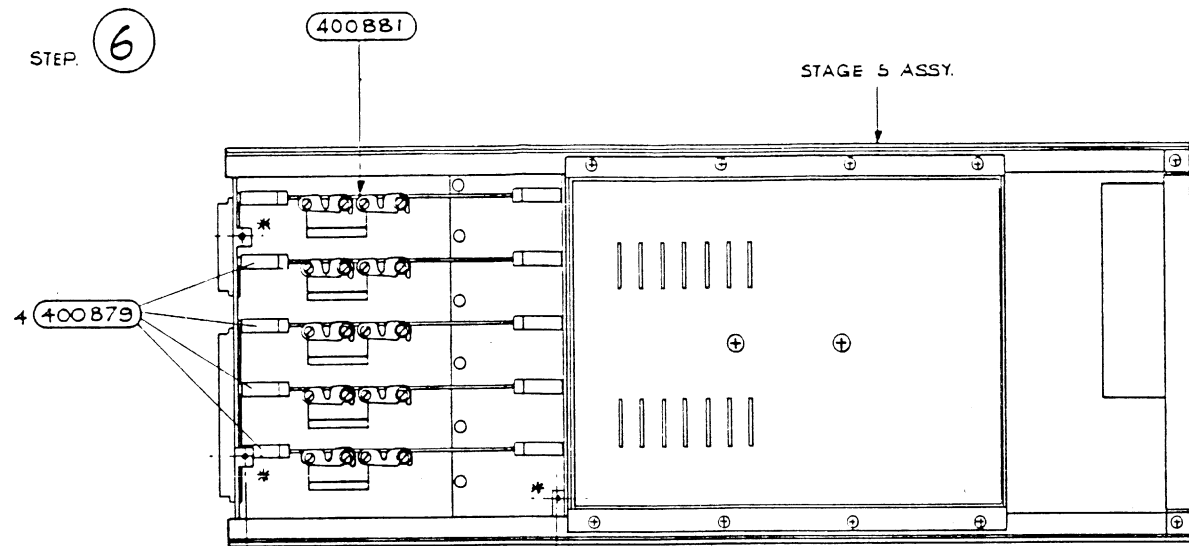




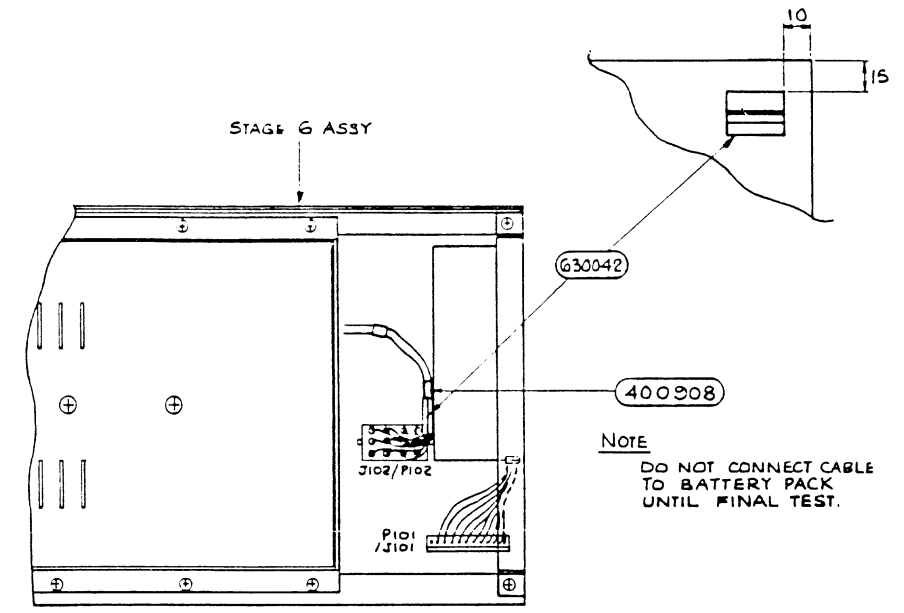
4910 INSTRUMENT ASSEMBLY
 Drawing No. DA400883 Sheet 2

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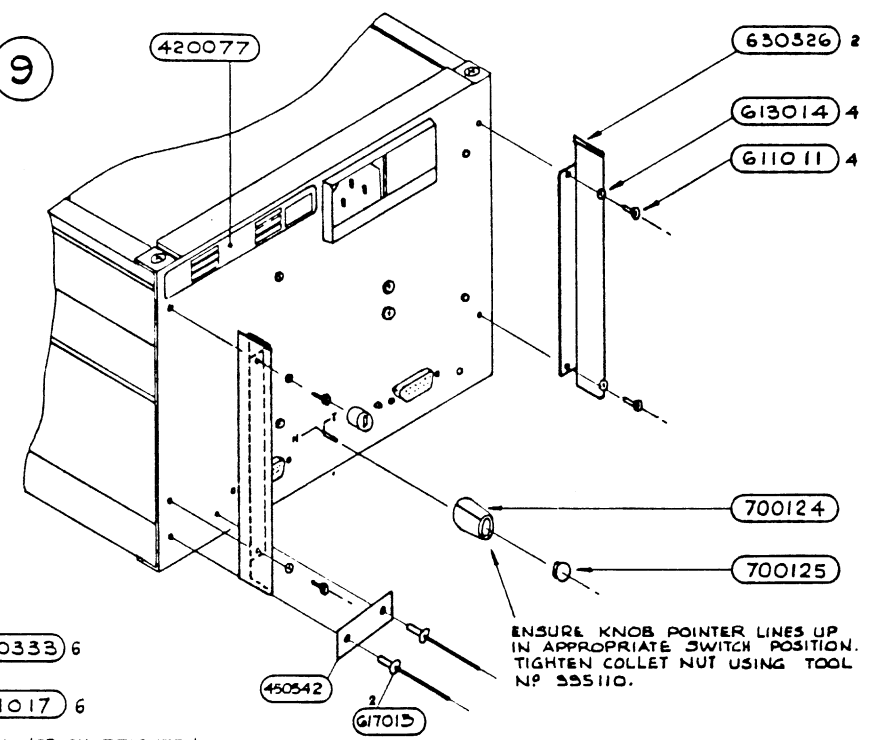
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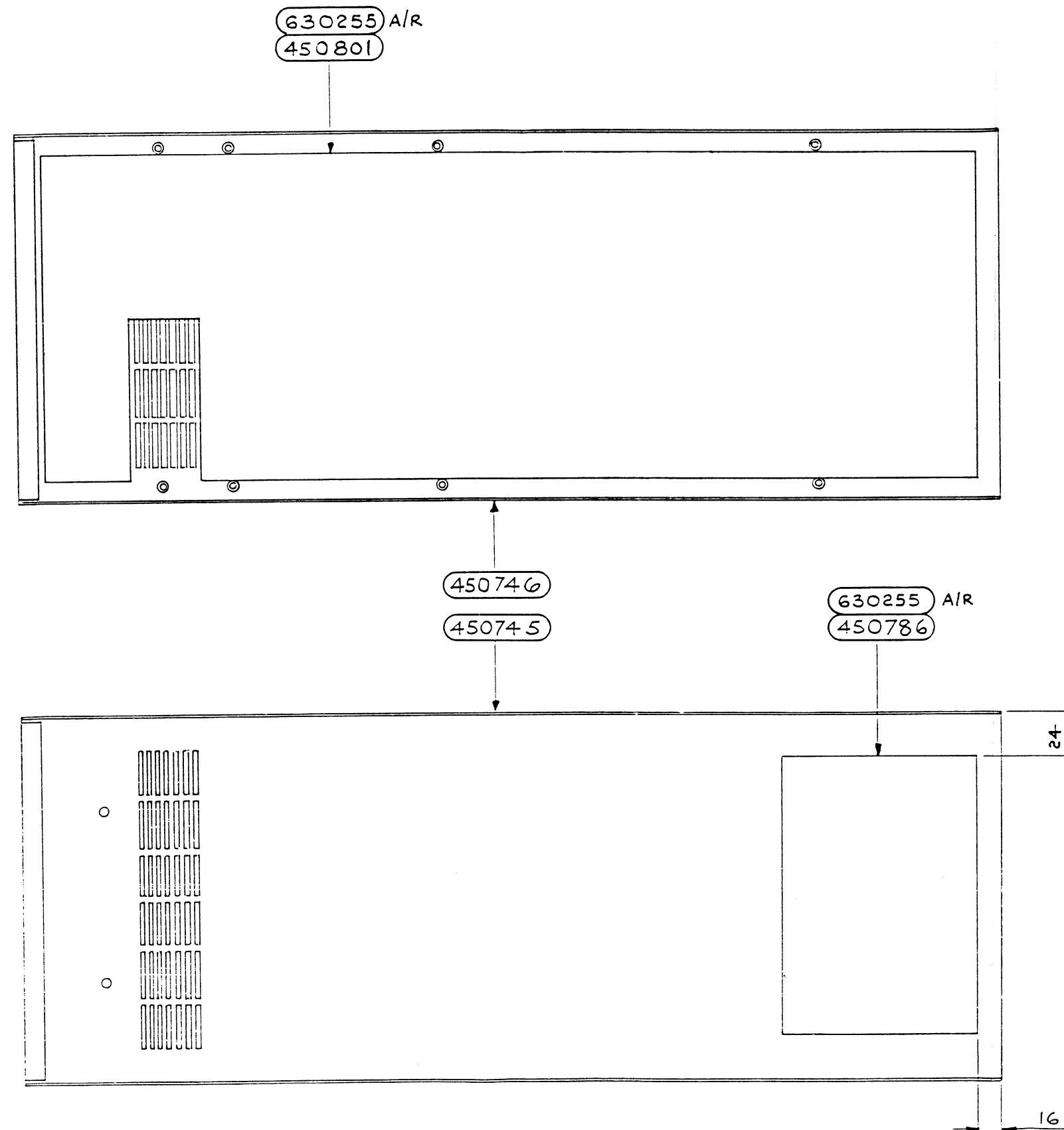
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STEP 9

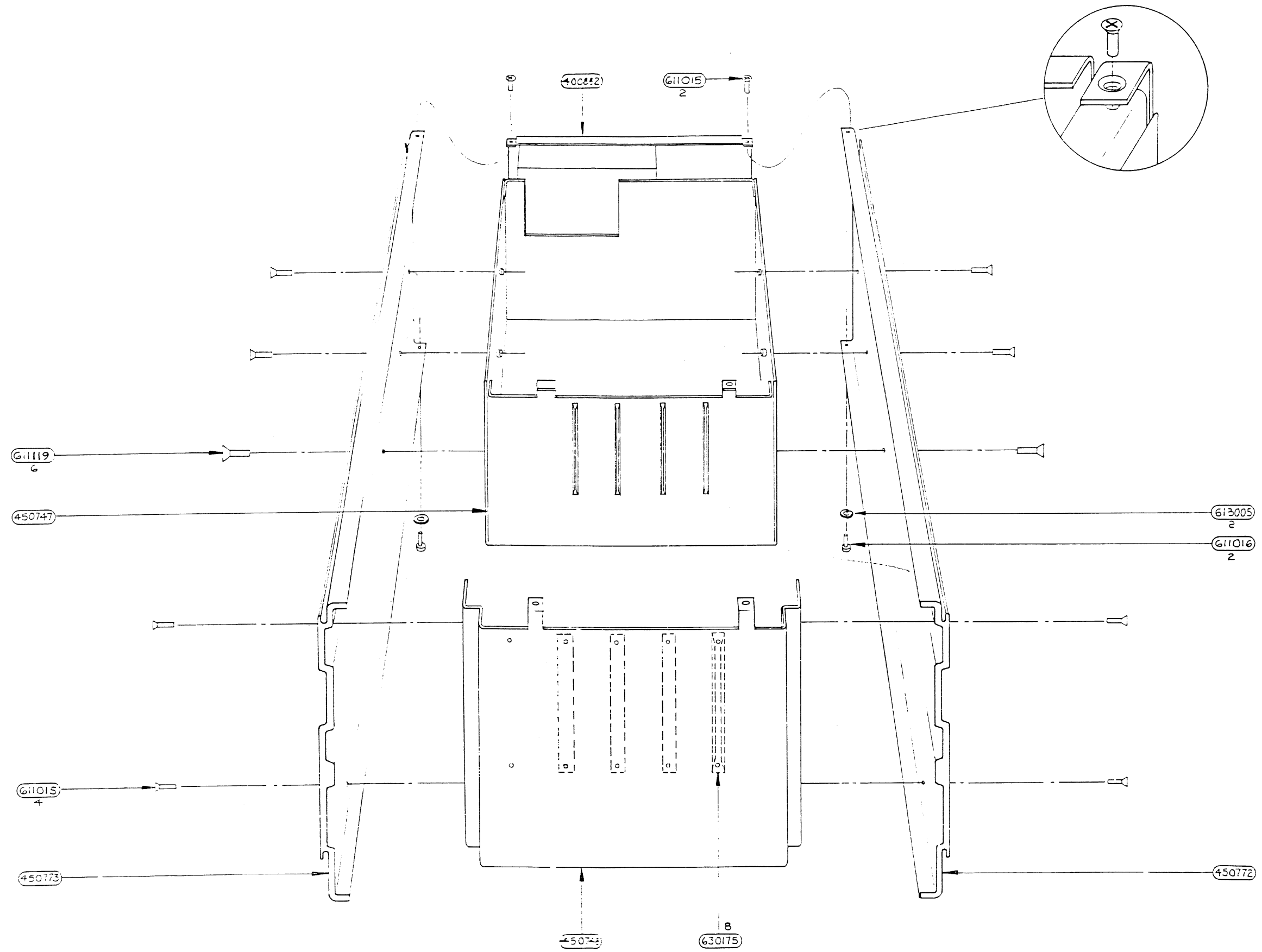


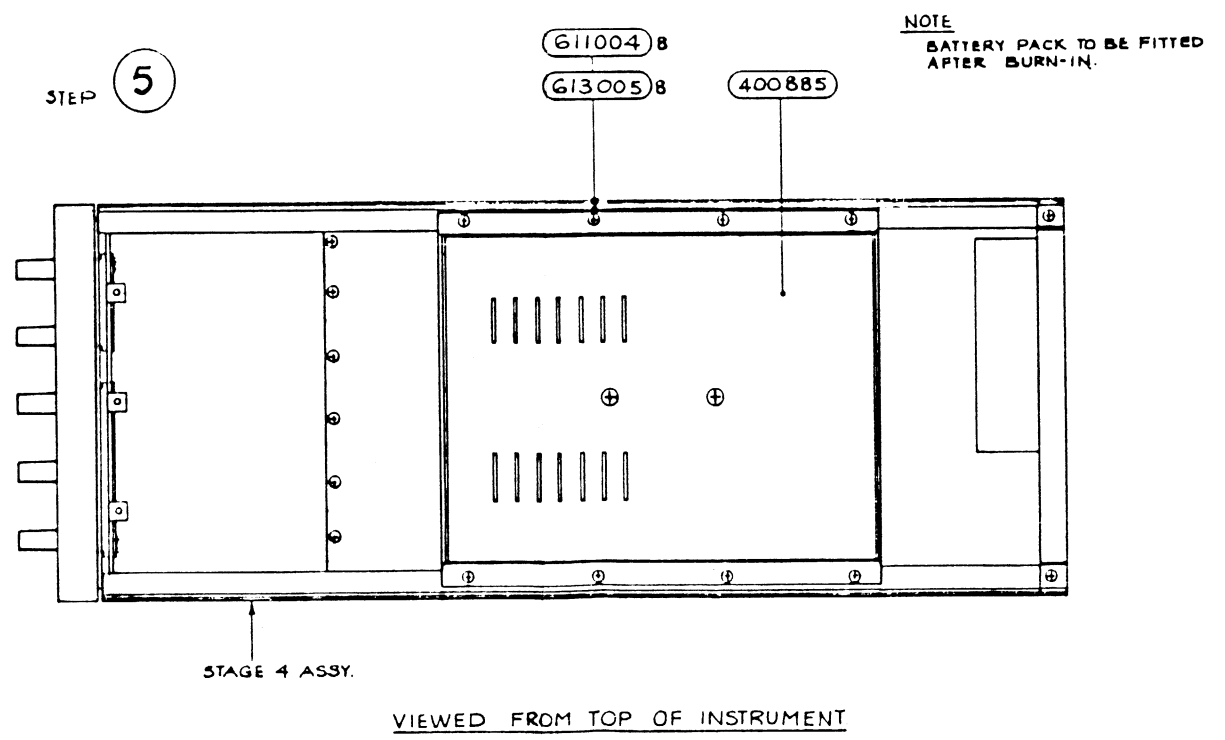
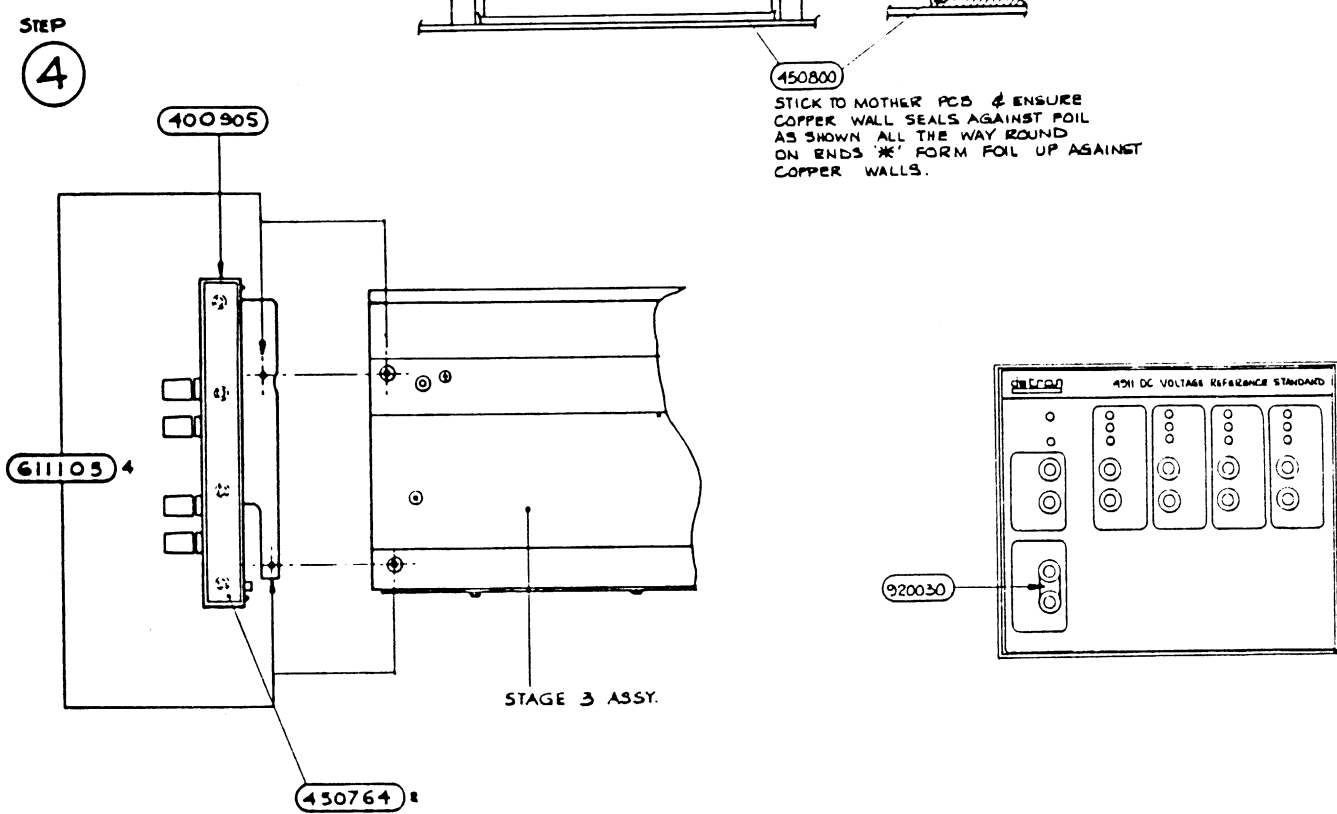
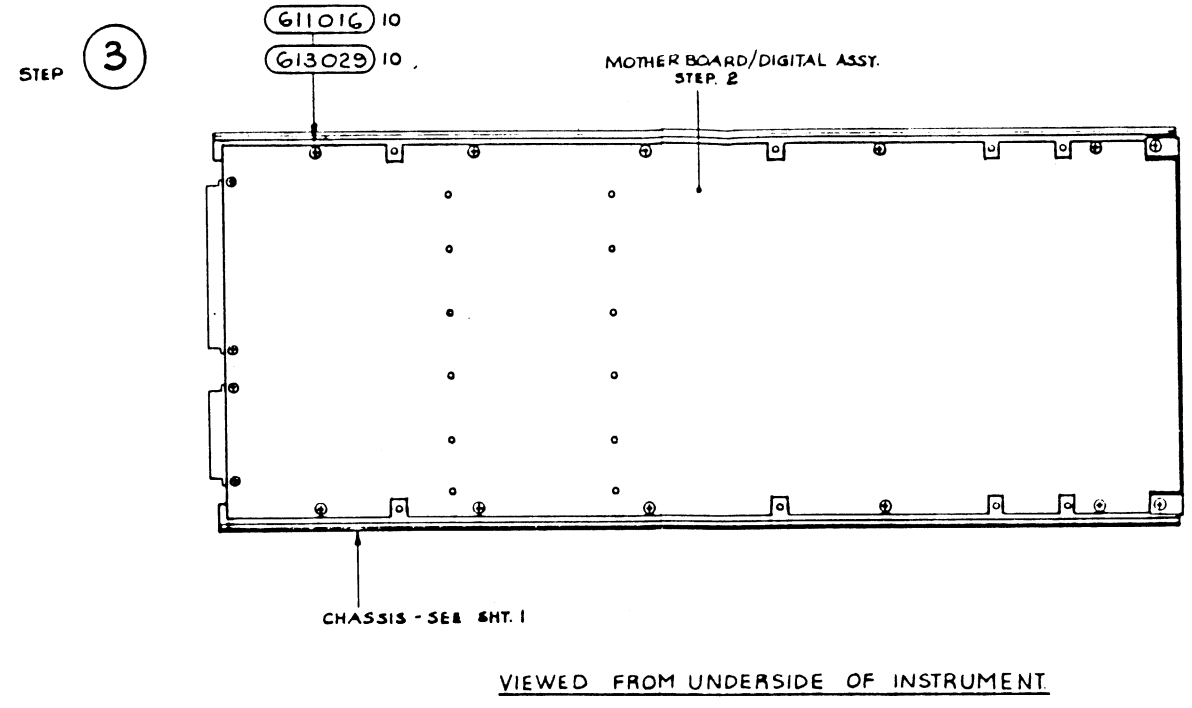
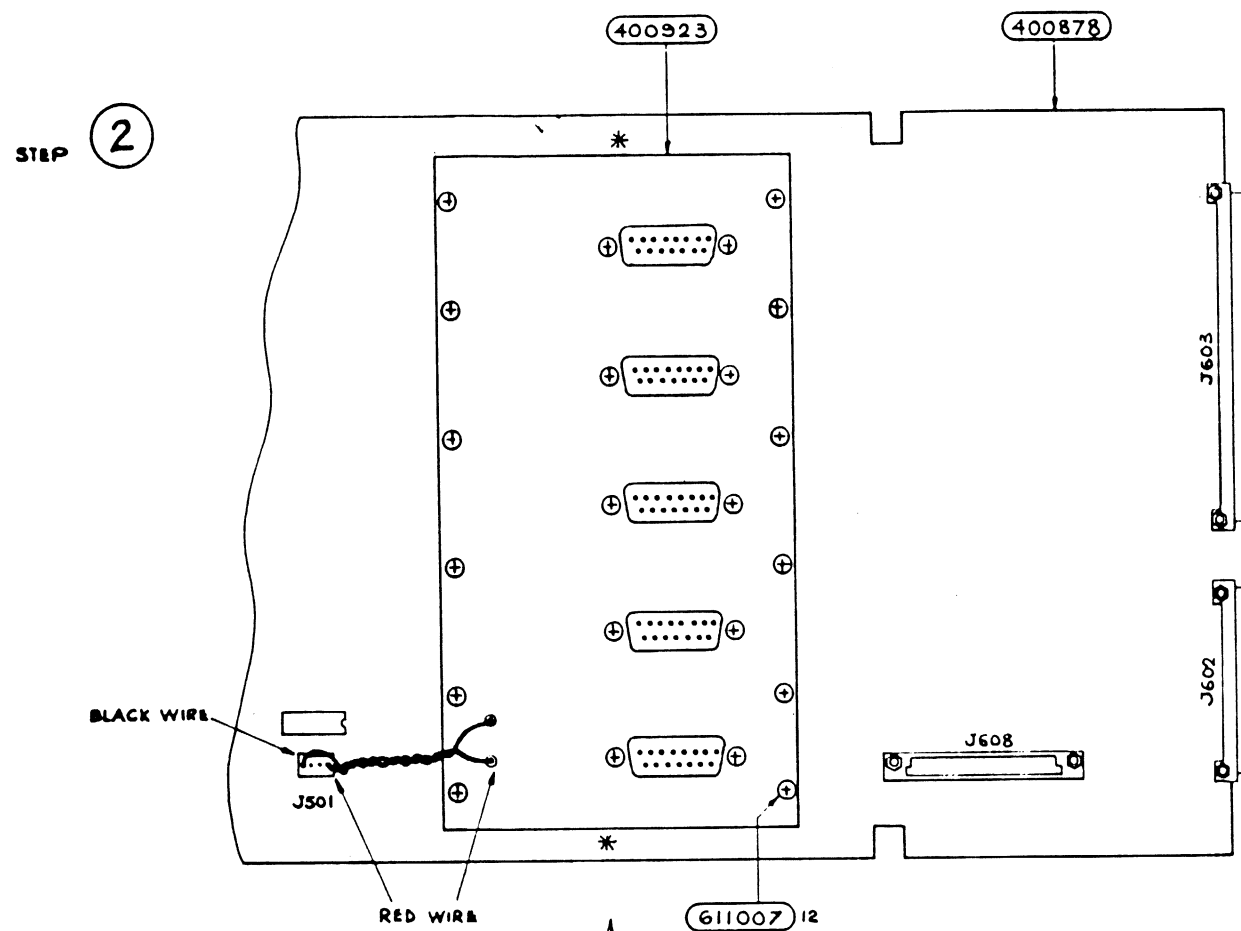
N.B. DO NOT OVERTIGHTEN THESE SCREWS, CAUSING DAMAGE TO FEET MAT.



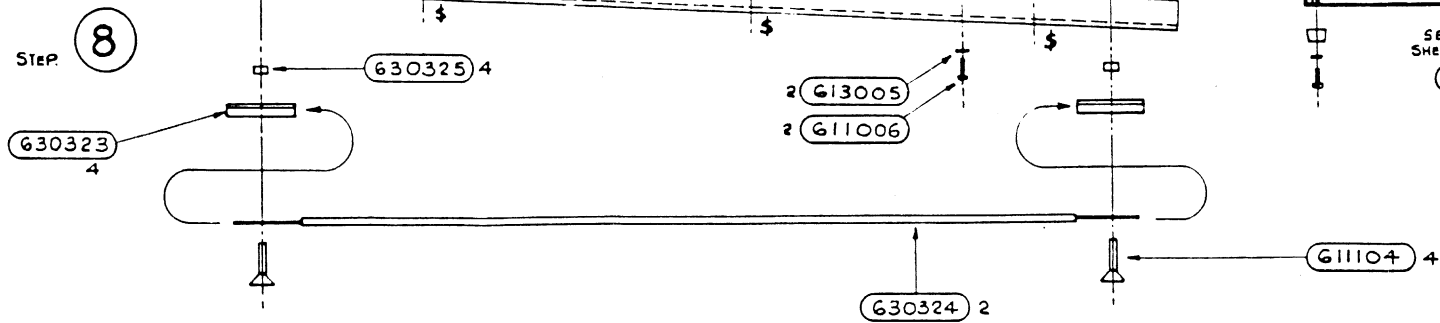
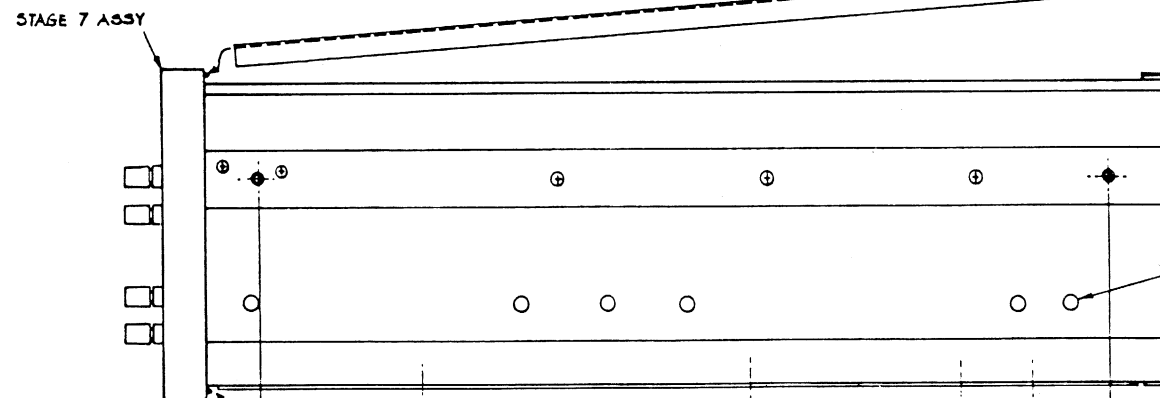
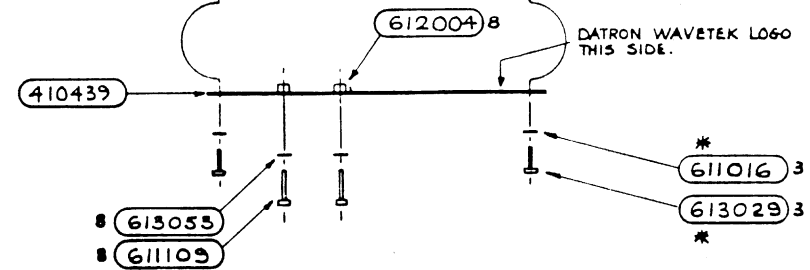
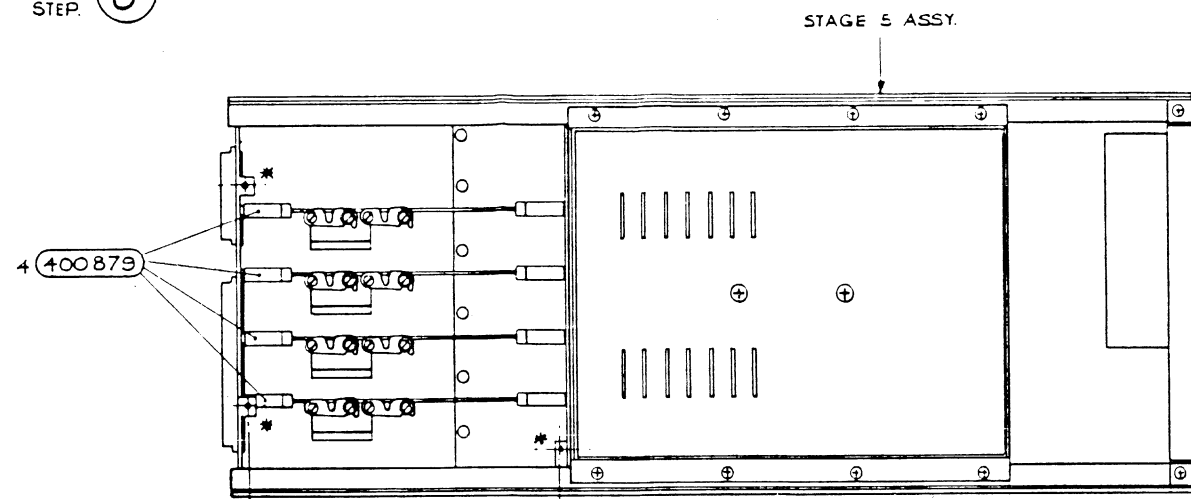
4910 INSTRUMENT ASSEMBLY
Drawing No. DA400883 Sheet 4

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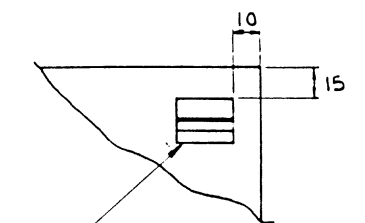
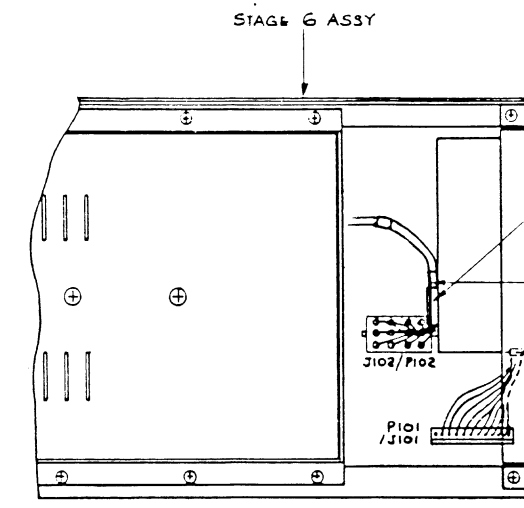


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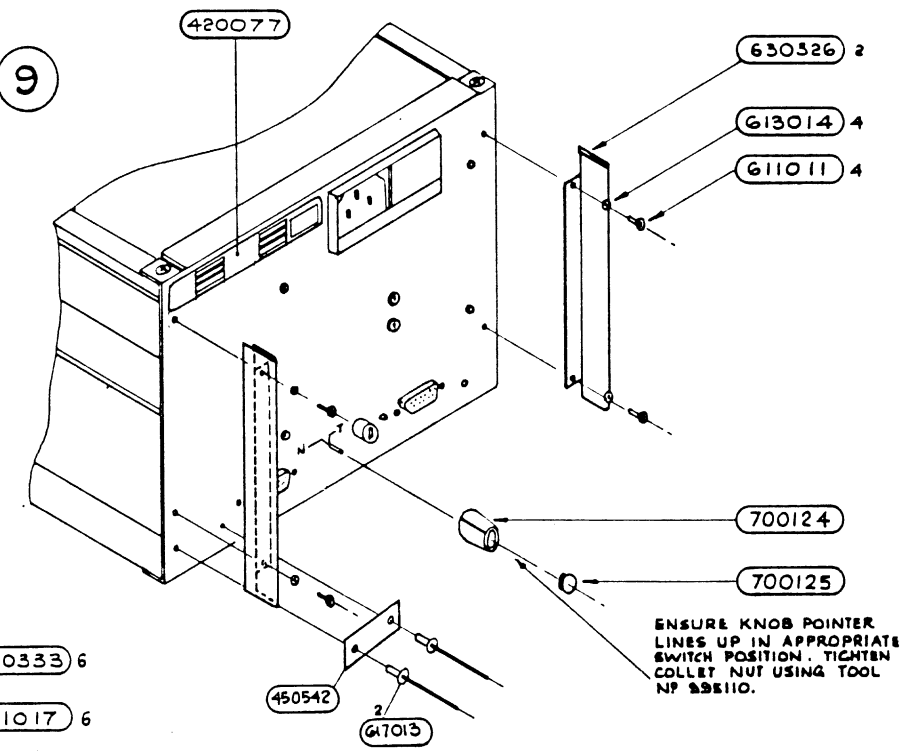
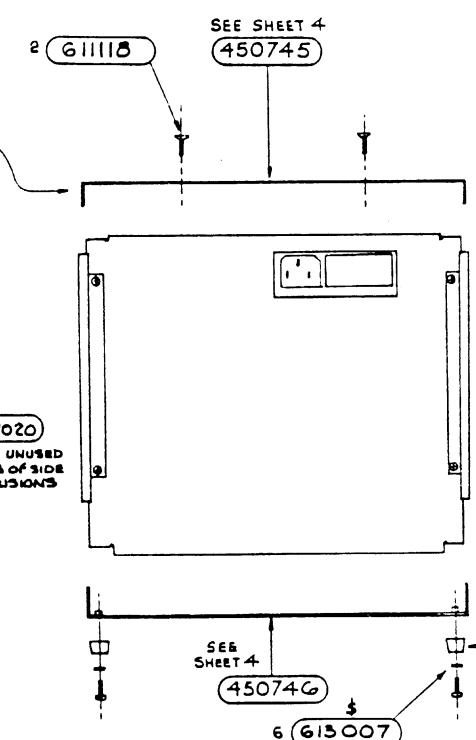


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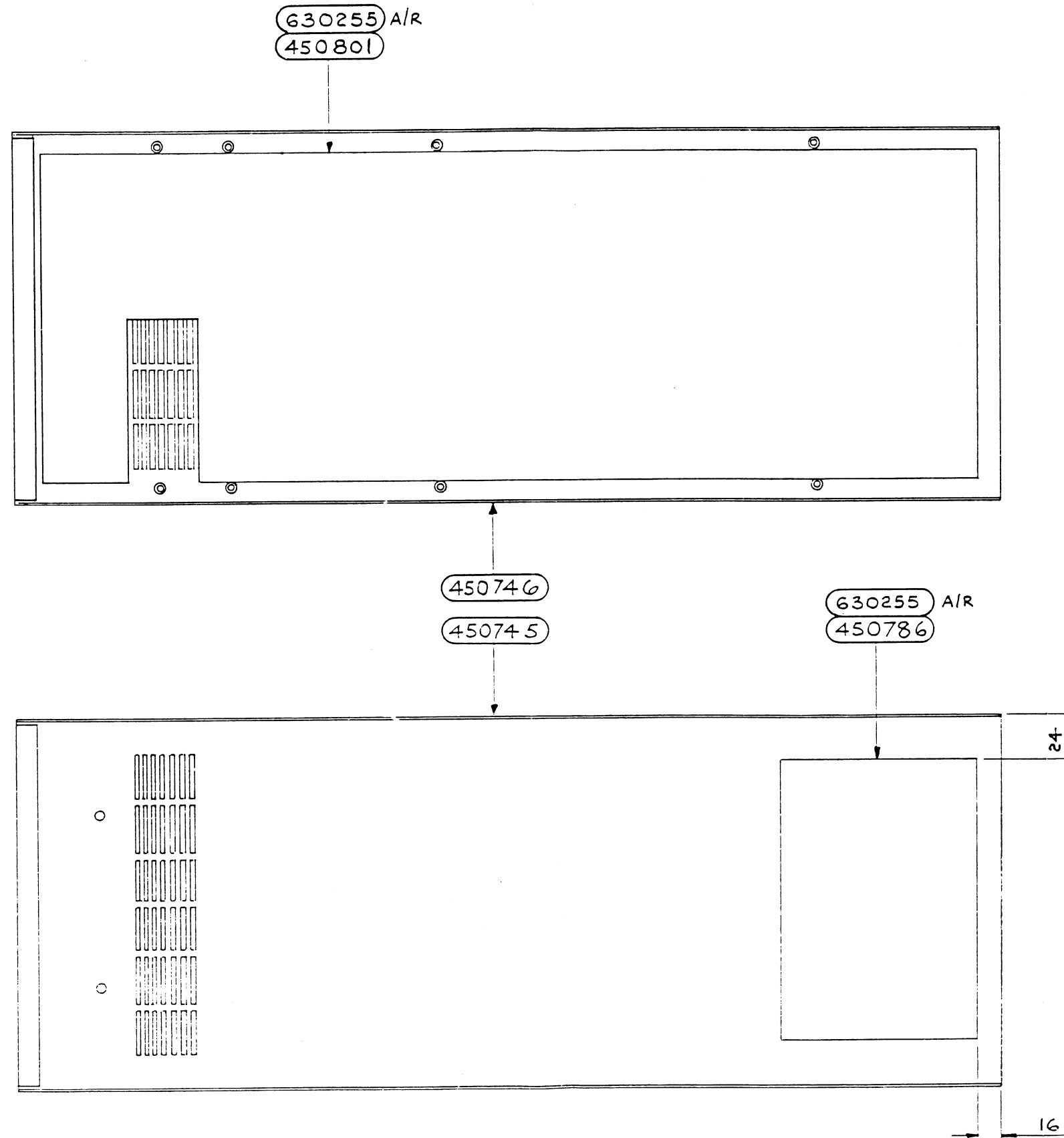
STEP 7



STEP 9




N.B. DO NOT OVERTIGHTEN THESE SCREWS, CAUSING DAMAGE TO FEET MAT.



4911 INSTRUMENT ASSEMBLY
Drawing No. DA400906 Sheet 4

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DRAWING NO.		CHKD	DATE	ECO	REVISION	ISSUE		
LD400883			17.09.89		1.0	17.09.89		
DOCUMENT LIST			18.8.89		1.1	18.8.89		
DISTRIBUTION			22.11.89		1.2	22.11.89		
DESCRIPTION	DRAWING NUMBER	SHEET NUMBER	ISSUE / REVISION					
PARTS LIST	LP400883	ALL	1.0	1.1	1.2			
ASSEMBLY DRAWING	DA400883	1	1.0	1.1	1.2			
	DA400883	2	1.0	1.1	1.2			
	DA400883	3	1.0	1.1	1.2			
	DA400883	4	1.0	1.1	1.2			
CIRCUIT DIAGRAM								
TEST PROCEDURE	PT400906	ALL	ND					
TEST SPECIFICATION								
PCB								
NOTES				DRN IL DATE 17 JUL 89	CHKD R.H. COGGIN DATE 1 AUG 89	APED RWK DATE 1 AUG 89	TITLE 4910 INSTRUMENT ASSY	DRAWING NO. LD400883 SHEET 1 OF 1

29 NOV 1989

DATRON INSTRUMENTS LTD PARTS LIST 21-Nov-89 DESC: ASSY INST 4910 DRG NO: LP400883-1 REV: 2 PAGE NO: 1

DESIG	PART NO	DESCRIPTION	PRINC MANUF	MANUF PART NUMBER	CLASS	UM	QUANTITY	CHANGES
	400878-1	ASSY PCB MOTHER 4910	DATRON	SEE DRG	EA		1	
	400879-1	ASSY PCB CELL 4910	DATRON	SEE DRG	EA		4	
	400880-1	ASSY FRONT PANEL 4910	DATRON	SEE DRG	EA		1	
	400881-1	ASSY PCB OUTPUT 4910	DATRON	SEE DRG	EA		1	
	400882-1	ASSY REAR PANEL 4910	DATRON	SEE DRG	EA		1	
	400885-1	ASSY BATTERY TRAY 4910	DATRON	SEE DRG	EA		1	
	400908-1	ASSY BATTERY CABLE 4910	DATRON	SEE DRG	EA		1	
	400923-1	ASSY PCB DIGITAL 4910	DATRON	SEE DRG	EA		1	
	410439-1	PCB INT FRONT COVER SCRIN 4910		SEE DRG	EA		1	
	420077-4	LABEL RATING		SEE DRG	EA		1	
	450542-1	MADE IN ENGLAND BADGE		SEE DRG	EA		1	
	450745-1	INST COVER (UPPER) 4910		SEE DRG	EA		1	
	450746-1	INST COVER (LOWER) 4910		SEE DRG	EA		1	
	450747-1	BATTERY SUPPORT BOX 4910		SEE DRG	EA		1	
	450748-1	FRONT CARD SUPPORT PANEL 4910		SEE DRG	EA		1	
	450764-1	SIDE TRIM ADHESIVE 4910		SEE DRG	EA		2	
	450772-1	SIDE PANEL RIGHT 4910		SEE DRG	EA		1	
	450773-1	SIDE PANEL LEFT 4910		SEE DRG	EA		1	
	450786-1	INSULATOR TOP COVER 4910		SEE DRG	EA		1	
	450800-1	GASKET DIGITAL SCREEN		SEE DRG	EA		1	
	450801-1	INSULATOR BOTTOM COVER 4910		SEE DRG	EA		1	
	450842-1	LINK SHORTING GOLD PL.		SEE DRG	EA		2	
	611004	SCREW M3 X 6 POZIPAN SZP			EA		8	
	611006	SCREW M3 X 10 POZIPAN SZP			EA		2	
	611007	SCREW M3 X 6 POZICSK SZP			EA		12	
	611011	SCREW M2.5 X 6 POZIPAN SZP			EA		4	
	611015	SCREW M3 X 8 POZICSK SZP			EA		6	
	611016	SCREW M3 X 8 POZIPAN SZP			EA		15	
	611017	SCREW M3 X 16 POZIPAN SZP			EA		6	
	611104	SCREW 10-32 X 5/8 POZICSK BLK			EA		4	
	611105	SCREW 8-32 X 3/8 POZICSK SZP			EA		4	
	611109	SCREW M3 X 12 SFT CH HD BRASS			EA		8	
	611118	SCREW M3 X 8 POZICSK SS BLK			EA		2	
	611119	SCREW M4 X 8 POZICSK SS BLK			EA		6	
	612004-1	STANDOFF M3 X 4	DATRON	SEE DRG	EA		8	
	613005	WASHER M3 INT SHAKEPROOF			EA		12	
	613007	WASHER M3 PLAIN SZP			EA		6	
	613014	WASHER M2.5 INT. SHAKP.			EA		4	
	613029	WASHER M3 WAVY SS			EA		13	
	613053	WASHER M3 PLAIN COPPER			EA		6	
	617013	RIVET POP 2.4 DOMED HD	GEORGE TUCKER	EYELET TAP/D/33/BI	EA		2	
	617020	RIVET SNAP 4.1 HOLE BLK	RICHCO	SR4050B	EA		12	
	630042	CLIP CABLE	RICHCO	CPCC 8	EA		1	
	630175	PCB CAMD GUIDE	RICHCO	RCGI	EA		10	
	630255	TAPE SKLP ADH. DBLE. STDED	3M	Y9469 X 1/2" WIDE	AR		1	

DESIG	PART NO	DESCRIPTION	PRINC MANUF	MANUF PART NUMBER	CLASS UM	QUANTITY	CHANGES
	630323	HANDLE CAP	WAVE/TEK	1400-02-2732	EA	4	
	630324	HANDLE STRAP	WAVE/TEK	2800-07-0031	EA	2	
	630325	HANDLE BUSHING	WAVE/TEK	1400-01-9383	EA	4	
	630326	REAR TRIM CAP	WAVE/TEK	1400-02-2672	EA	2	
	630333	FOOT POLYURETHANE 15.9MM BLK	MOSS PLASTIC PARTS	60470	EA	6	
	700124	KNOB 15MM BK WITH POINTER	SIFAM	SP150 004	EA	1	
	700125	CAP 15MM BK	SIFAM	C150	EA	1	
	920030-1	LINK SHORTING		SEE DRG	EA	1	

End

REV	DATE	DESCRIPTION	BY	CHKD	ISSUE	REVISION
1.0	33837.6.89	RL			1.0	
1.1	3397.18.89	MC			1.1	
1.2	3465.22.89				1.2	
LP400906	ALL				1.0	
DA400906	1				1.1	
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PT400906	ALL				1.0	

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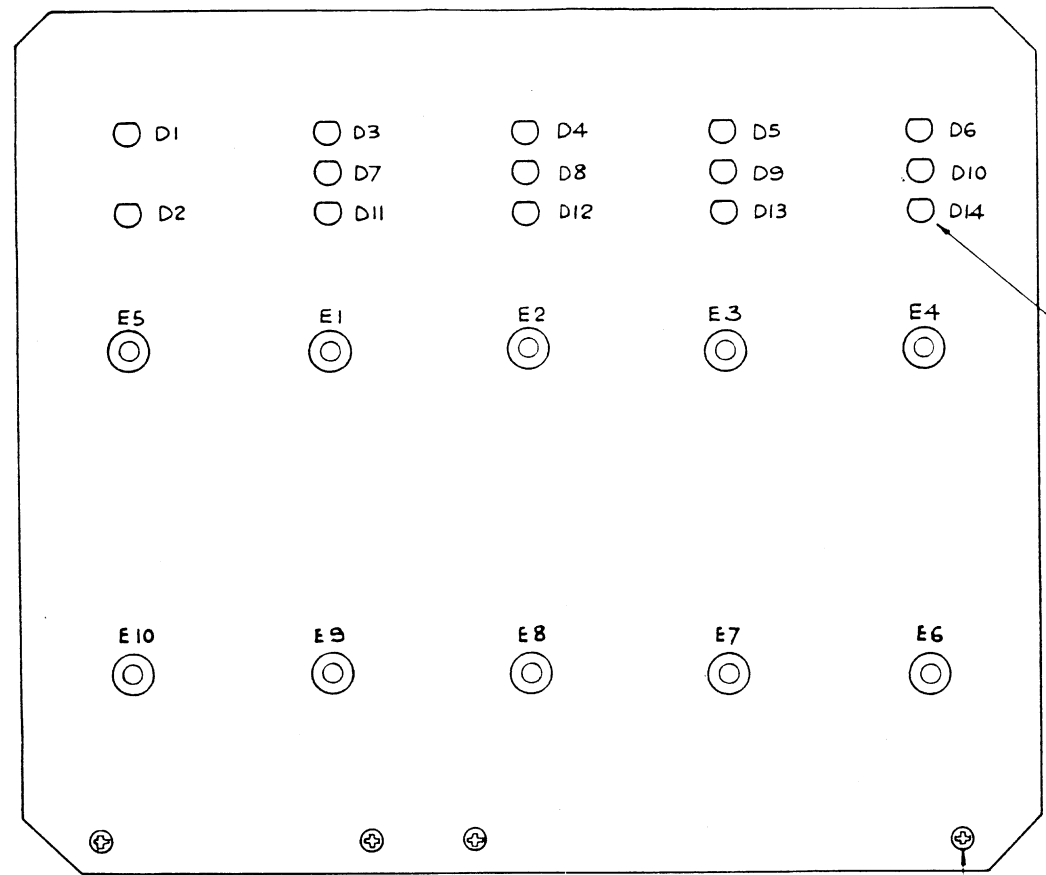
DATRON INSTRUMENTS LTD PARTS LIST 21 Nov-89 DESC: ASSY INSTRUMENT 4911 DRG NO: LP400906 1 REV: 2 PAGE NO: 1

DESIG	PART NO	DESCRIPTION	PRINC MANUF	MANUF PART NUMBER	CLASS UM	QUANTITY	CHANGES
	400878-1	ASSY PCB METHER 4910	DATRON	SEE DRG	EA	1	
	400879-1	ASSY PCB CELL 4910	DATRON	SEE DRG	EA	4	
	400882-1	ASSY REAR PANEL 4910	DATRON	SEE DRG	EA	1	
	400885-1	ASSY BATTERY TRAY 4910	DATRON	SEE DRG	EA	1	
	400905-1	ASSY FRONT PANEL 4911	DATRON	SEE DRG	EA	1	
	400908-1	ASSY BATTERY CABLE 4910	DATRON	SEE DRG	EA	1	
	400923-1	ASSY PCB DIGITAL 4910	DATRON	SEE DRG	EA	1	
	410439-1	PCB INT FRONT COVER SCR 4910		SEE DRG	EA	1	
	420077-4	LABEL RATING		SEE DRG	EA	1	
	450542-1	MADE IN ENGLAND BADGE		SEE DRG	EA	1	
	450745-1	INST COVER (UPPER) 4910		SEE DRG	EA	1	
	450746-1	INST COVER (LOWER) 4910		SEE DRG	EA	1	
	450747-1	BATTERY SUPPORT BOX 4910		SEE DRG	EA	1	
	450748-1	FRONT CARD SUPPORT PANEL 4910		SEE DRG	EA	1	
	450764-1	SIDE TRIM ADHESIVE 4910		SEE DRG	EA	2	
	450772-1	SIDE PANEL RIGHT 4910		SEE DRG	EA	1	
	450773-1	SIDE PANEL LEFT 4910		SEE DRG	EA	1	
	450786-1	INSULATOR TOP COVER 4910		SEE DRG	EA	1	
	450800-1	GASKET DIGITAL SCREW		SEE DRG	EA	1	
	450801-1	INSULATOR BOTTOM COVER 4910		SEE DRG	EA	1	
	611004	SCREW M3 X 6 POZIPAN SZP			EA	8	
	611006	SCREW M3 X 10 POZIPAN SZP			EA	2	
	611007	SCREW M3 X 6 POZICSK SZP			EA	12	
	611011	SCREW M2.5 X 6 POZIPAN SZP			EA	4	
	611015	SCREW M3 X 8 POZICSK SZP			EA	6	
	611016	SCREW M3 X 8 POZIPAN SZP			EA	15	
	611017	SCREW M3 X 16 POZIPAN SZP			EA	6	
	611104	SCREW 10-32 X 5/8 POZICSK BLK			EA	4	
	611105	SCREW 8-32 X 3/8 POZICSK SZP			EA	4	
	611109	SCREW M3 X 12 SLT CH HD BRASS			EA	8	
	611118	SCREW M3 X 8 POZICSK SS BLK			EA	2	
	611119	SCREW M4 X 8 POZICSK SS BLK			EA	6	
	612004-1	STANDOFF M3 X 4	DATRON	SEE DRG	EA	8	
	613005	WASHER M3 INT SHAKEPROOF			EA	12	
	613007	WASHER M3 PLAIN SZP			EA	6	
	613014	WASHER M2.5 INT. SHAKP.			EA	4	
	613029	WASHER M3 WAVY SS			EA	13	
	613053	WASHER M3 PLAIN COPPER			EA	8	
	617013	RIVET POP 2.4 DOMED HD	GEORGE TUCKER EYELET	TAP/D/33/BH	EA	2	
	617020	RIVET SNAP 4.1 HOLE BLK	RICHCO	SR4050B	EA	12	
	630042	CLIP CABLE	RICHCO	CPCC-8	EA	1	
	630175	PCB CARD GUIDE	RICHCO	RCG1	EA	8	
	630255	TAPE SELF ADH. DBLE. SIDED	3M	Y9469 X 1/2" WIDE	EA	1	
	630323	HANDLE CAP	WAVETEK	1400-02-2732	EA	4	
	630324	HANDLE STRAP	WAVETEK	2800-07-0031	EA	2	

DATRON INSTRUMENTS LTD PARTS LIST 21-Nov-89 DESC: ASSY INSTRUMENT 4911 DRG NO: LP400906-1 REV: 2 PAGE NO: 2

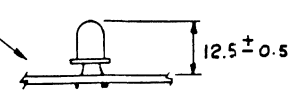
DESIG	PART NO	DESCRIPTION	PRINC MANUF	MANUF PART NUMBER	CLASS UM	QUANTITY	CHANGES
	630325	HANDLE BUSHING	WAVETEK	1400-01-9383	EA	4	
	630326	REAR TRIM CAP	WAVETEK	1400-02-2672	EA	2	
	630333	FOOT POLYTHENE 15.9MM BLK	MOSS PLASTIC PARTS	60470	EA	6	
	700124	RNOB 15MM BK WITH POINTER	SIFAM	SP150 004	EA	1	
	700125	CAP 15MM BK	SIFAM	C150	EA	1	
	920030-1	LINK SHORTING		SEE DRG	EA	1	

End

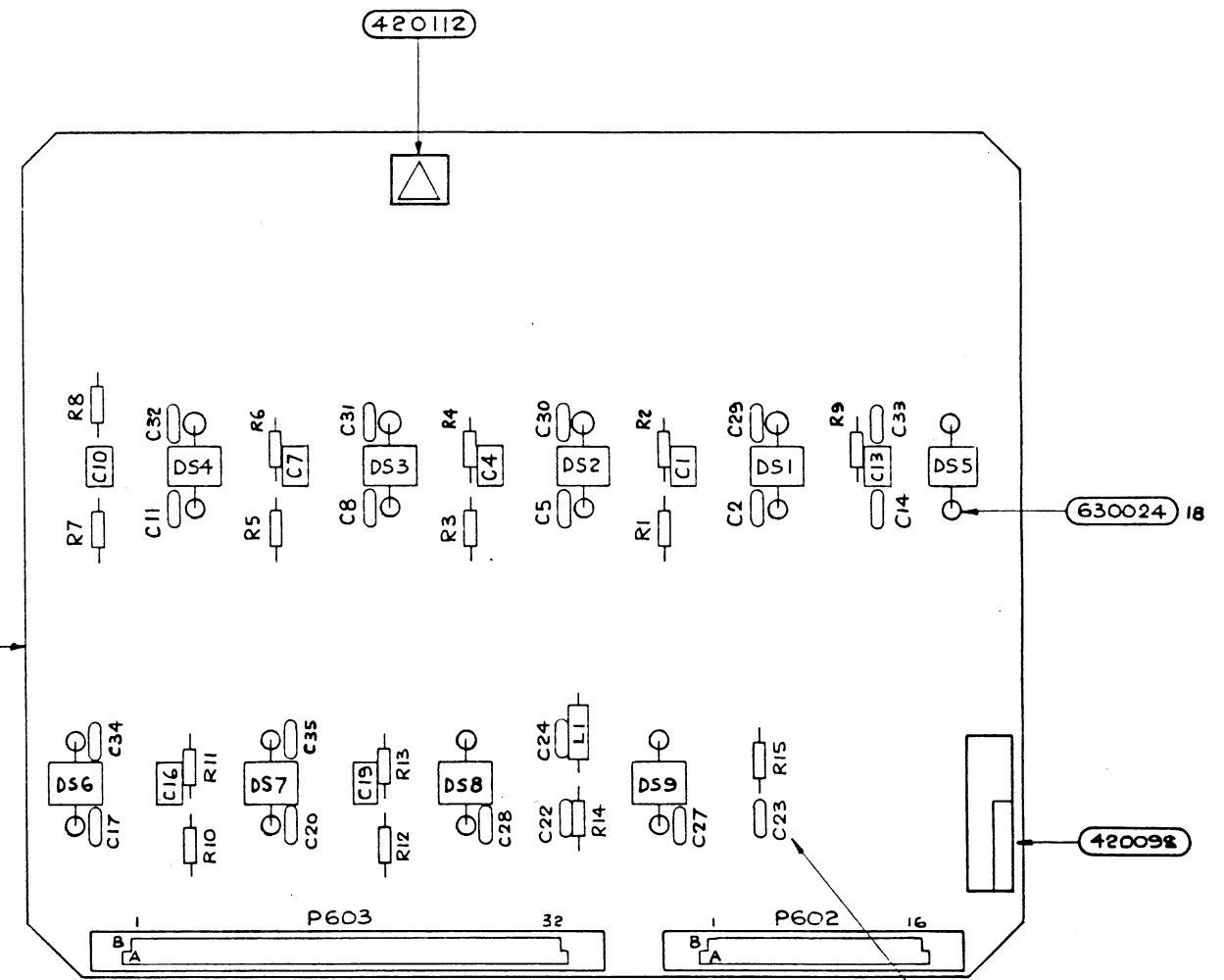


- G11011 4
- G13047 4
- G15006 4

COMPONENT SIDE OF PCB.

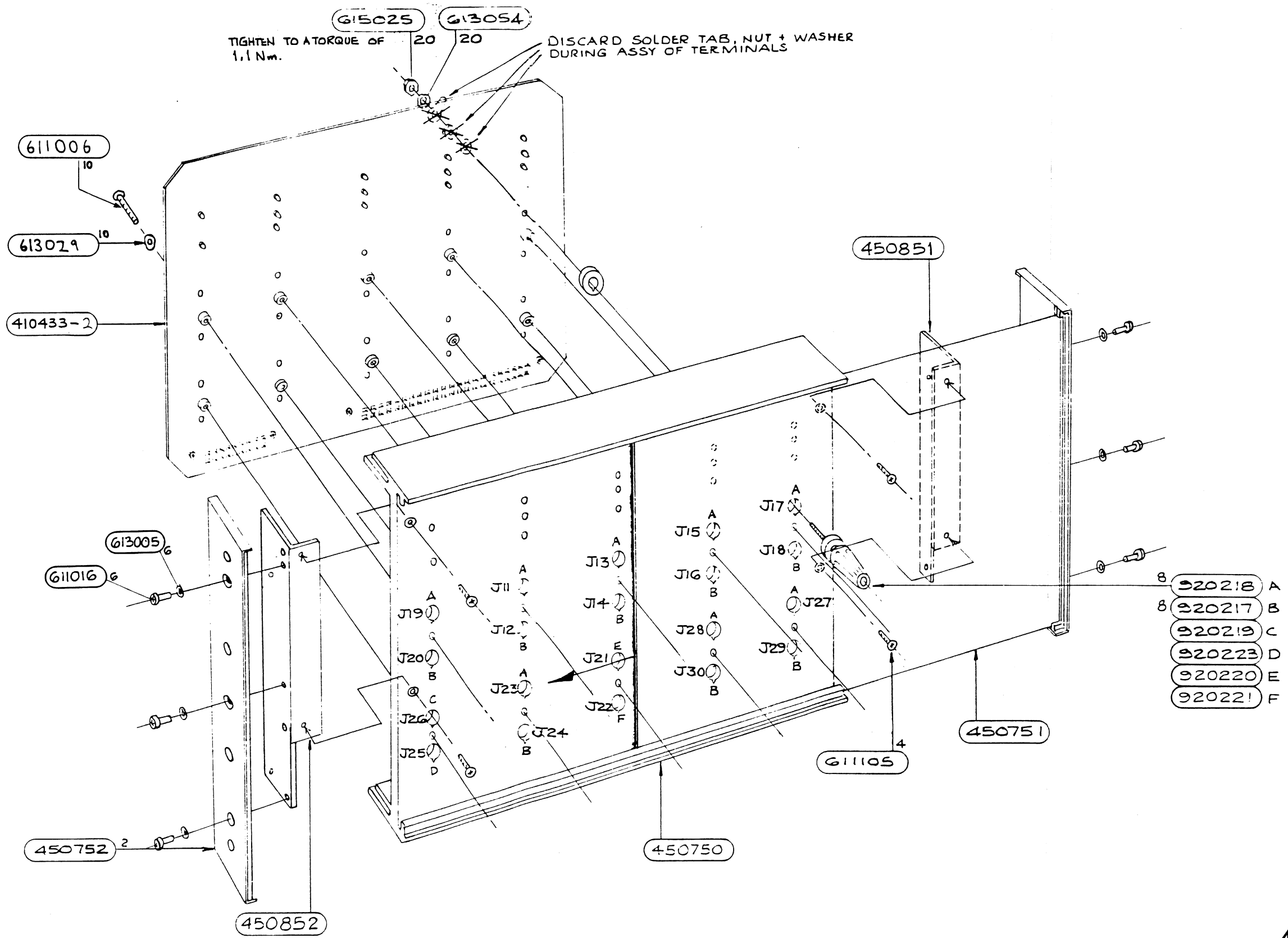


410433-2



N.B. C23 NOT FITTED.

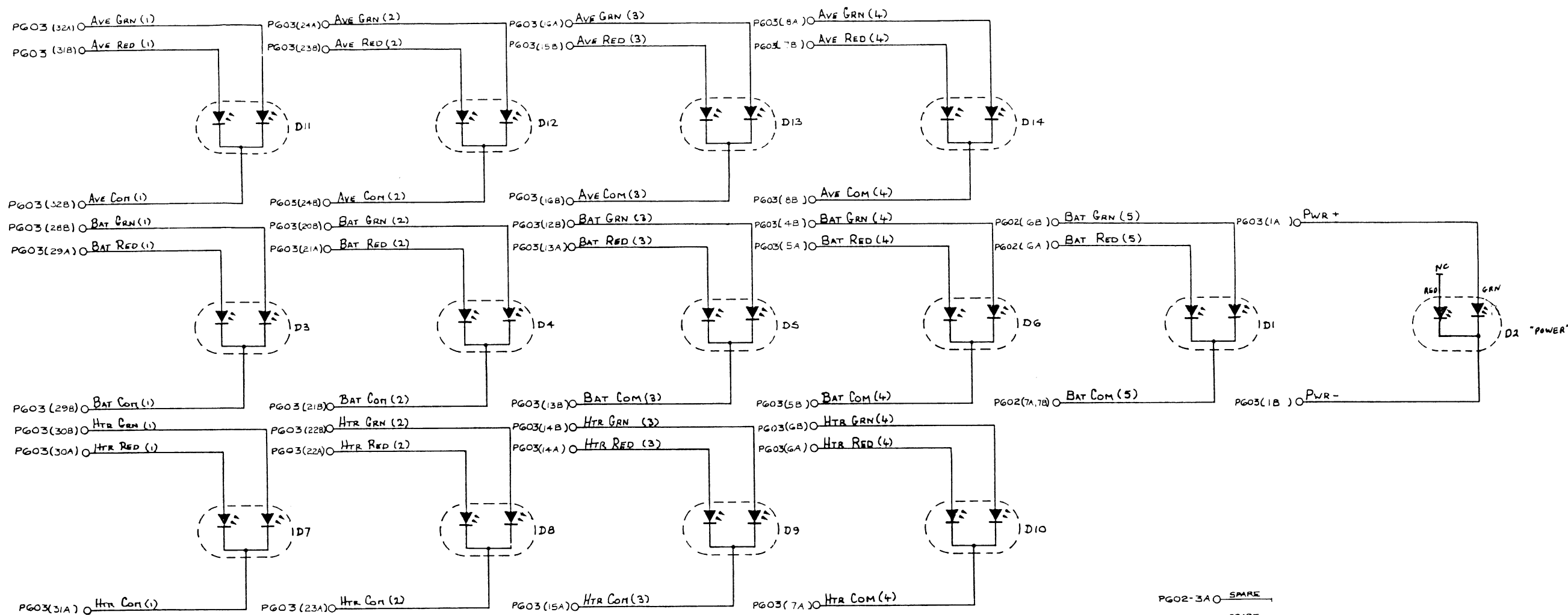
SOLDER SIDE OF PCB.



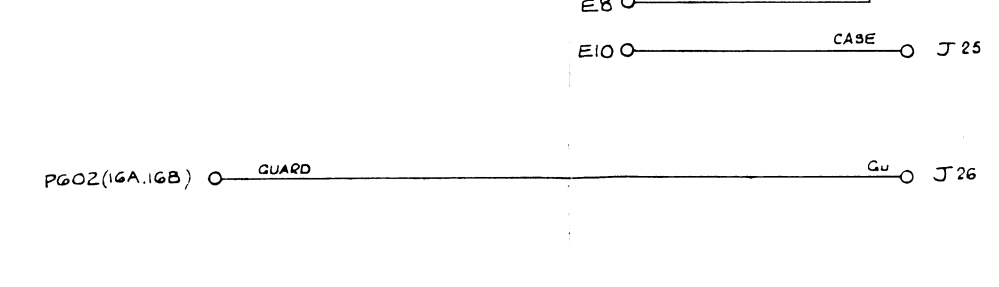
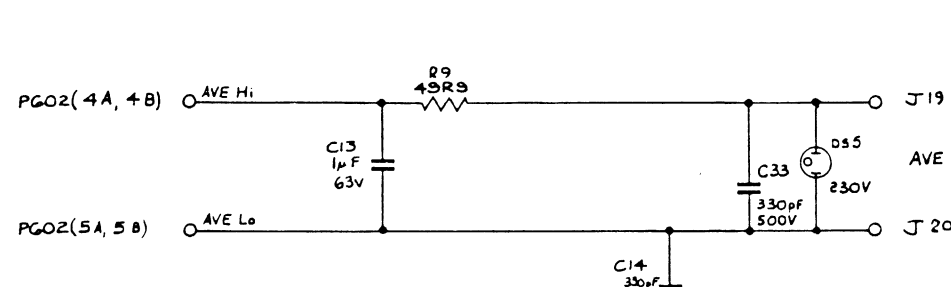
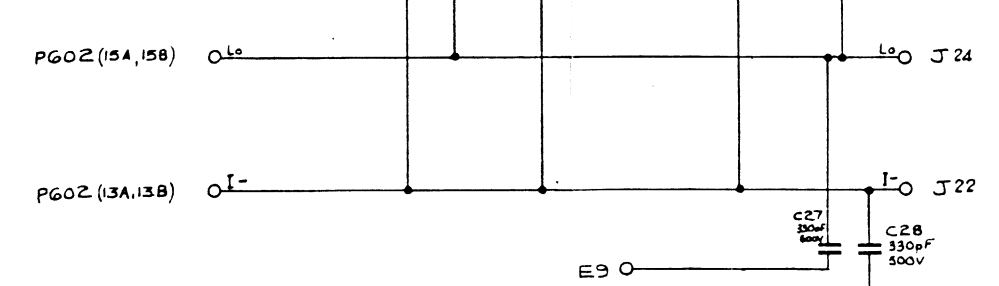
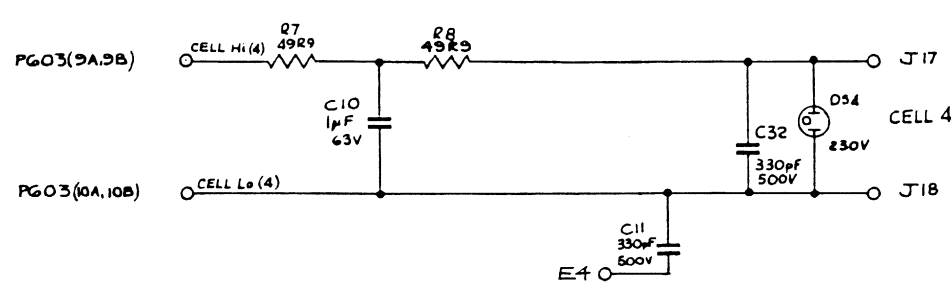
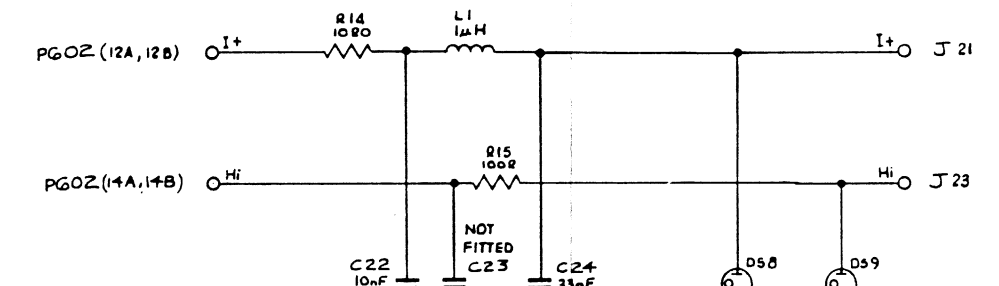
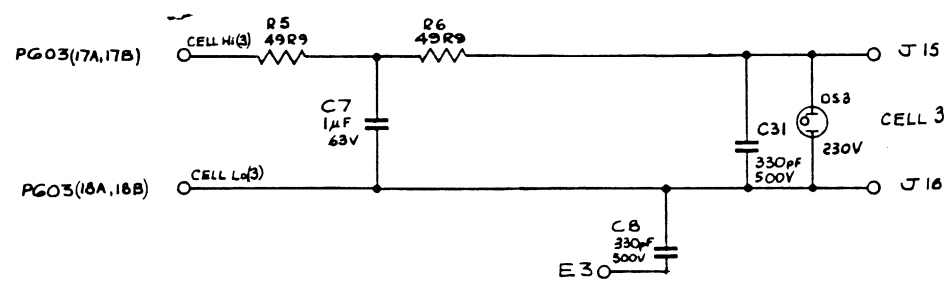
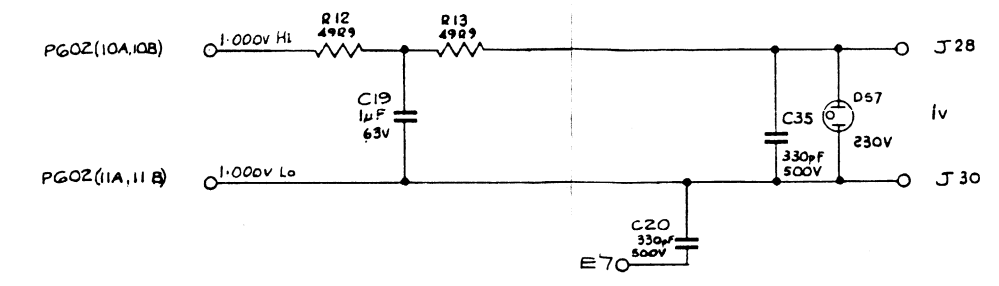
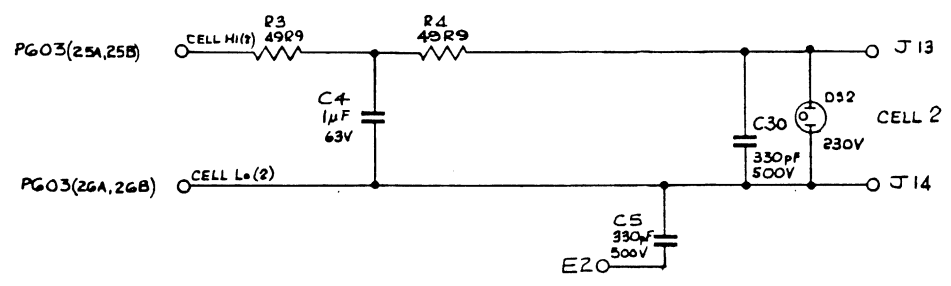
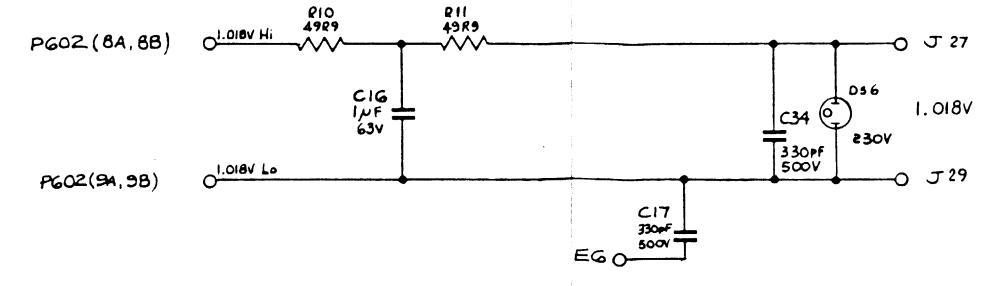
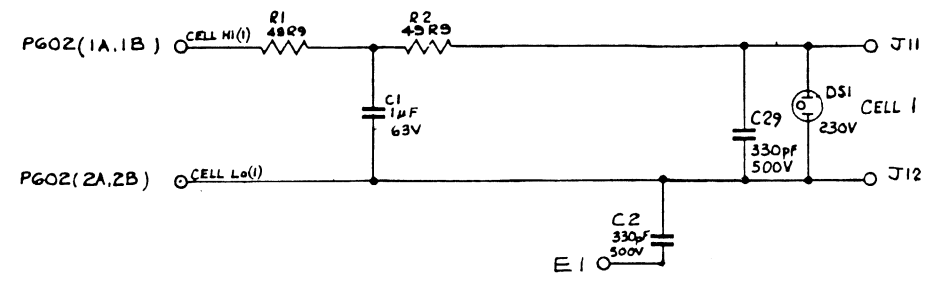
4910 FRONT PANEL ASSEMBLY
 Drawing No. DA400880 Sheet 2

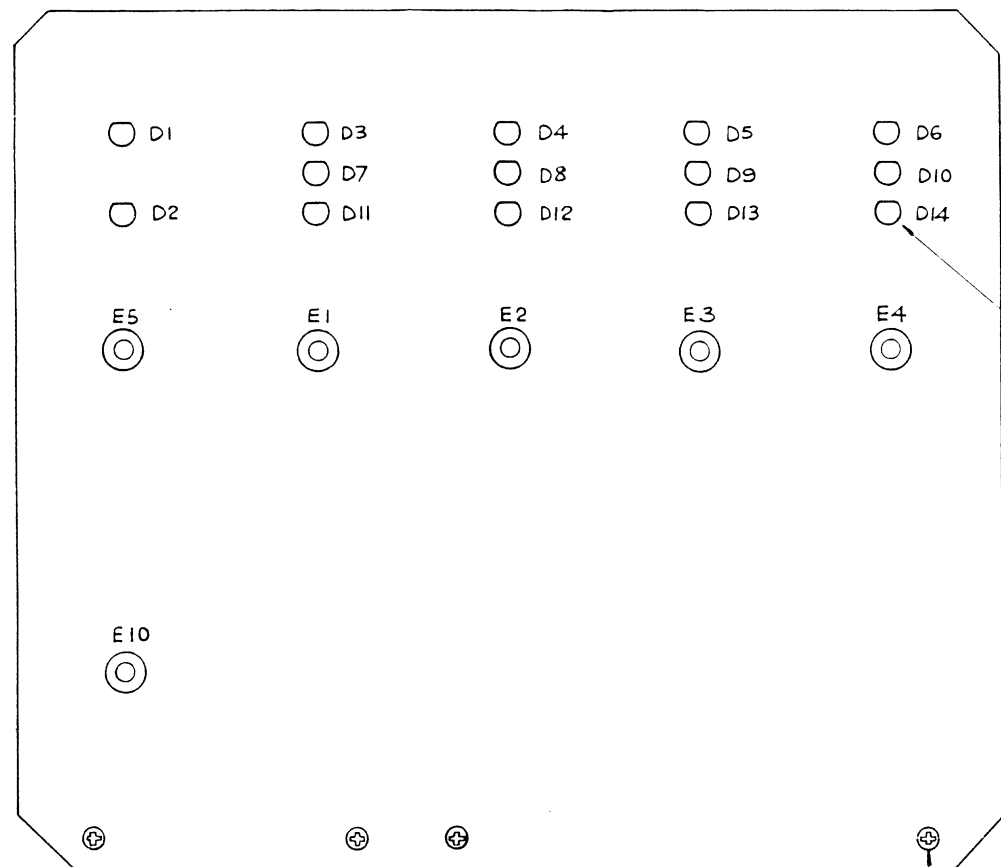


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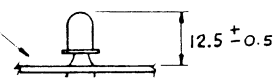
- PG02-3A ~~SPARE~~
- PG02-3B ~~SPARE~~
- PG03-2A ~~SPARE~~
- PG03-2B ~~SPARE~~
- PG03-3A ~~SPARE~~
- PG03-3B ~~SPARE~~
- PG03-4A ~~SPARE~~
- PG03-11A ~~SPARE~~
- PG03-11B ~~SPARE~~
- PG03-12A ~~SPARE~~
- PG03-19A ~~SPARE~~
- PG03-19B ~~SPARE~~
- PG03-20A ~~SPARE~~
- PG03-27A ~~SPARE~~
- PG03-27B ~~SPARE~~
- PG03-28A ~~SPARE~~



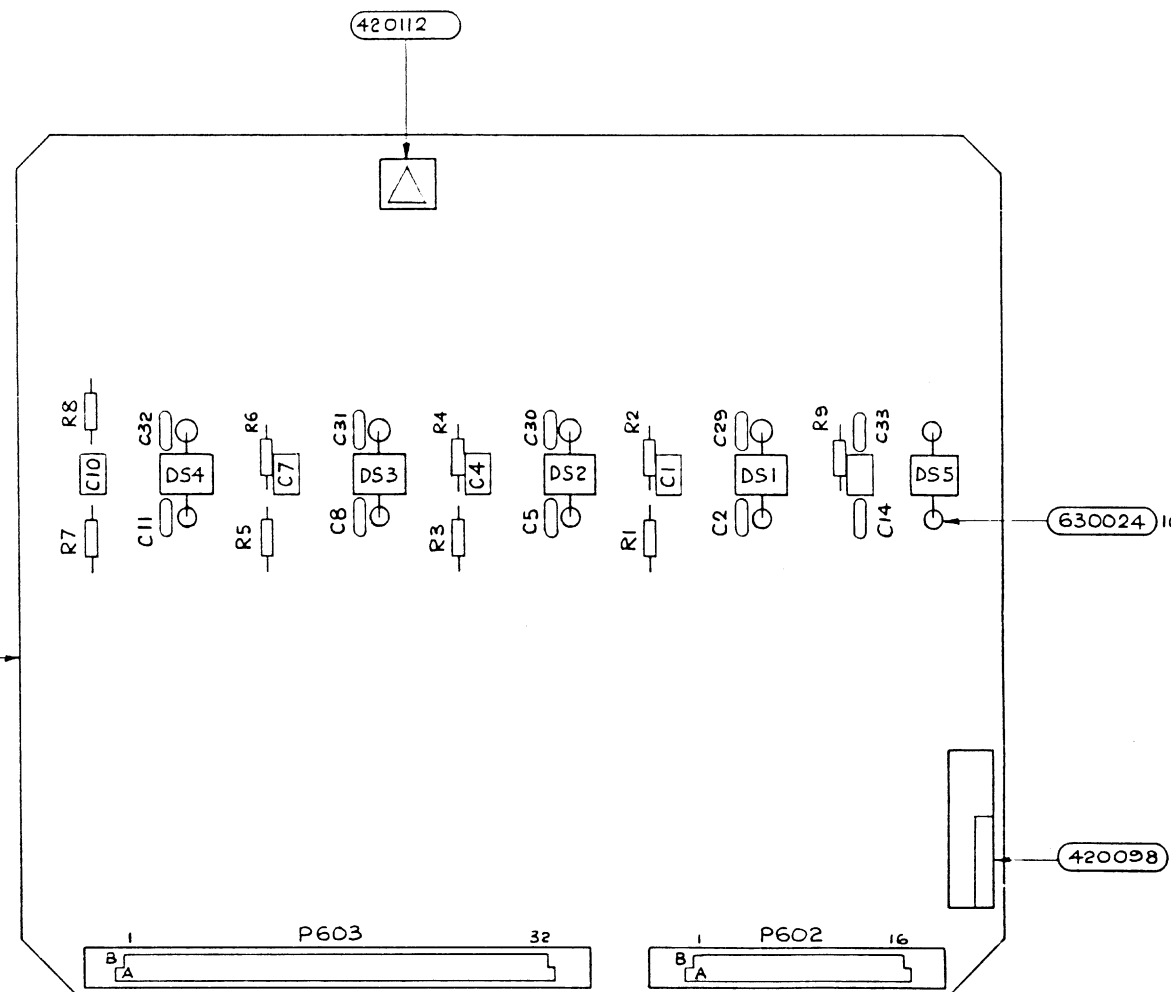


611011 4
 613047 4
 615006 4

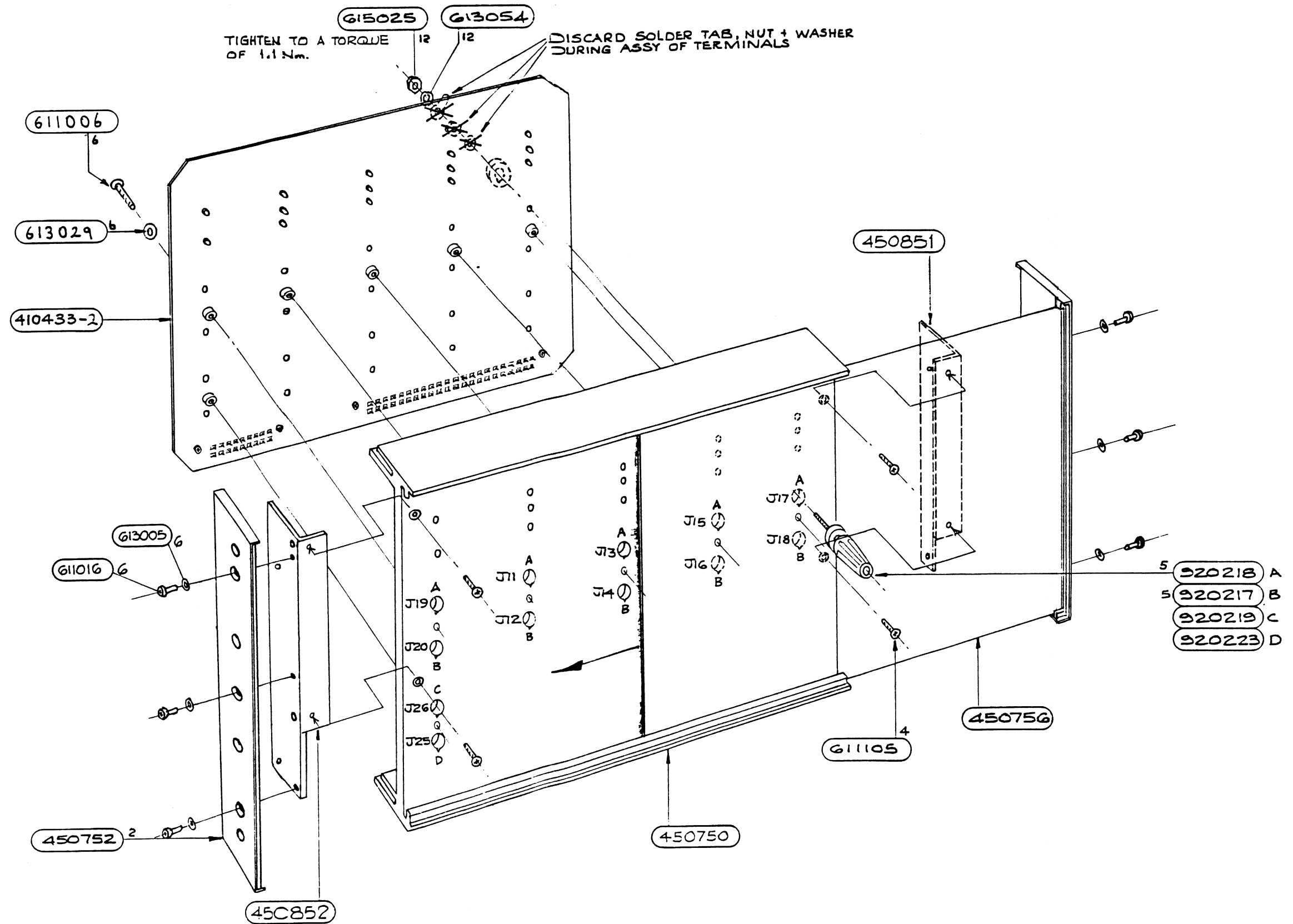
COMPONENT SIDE OF PCB.



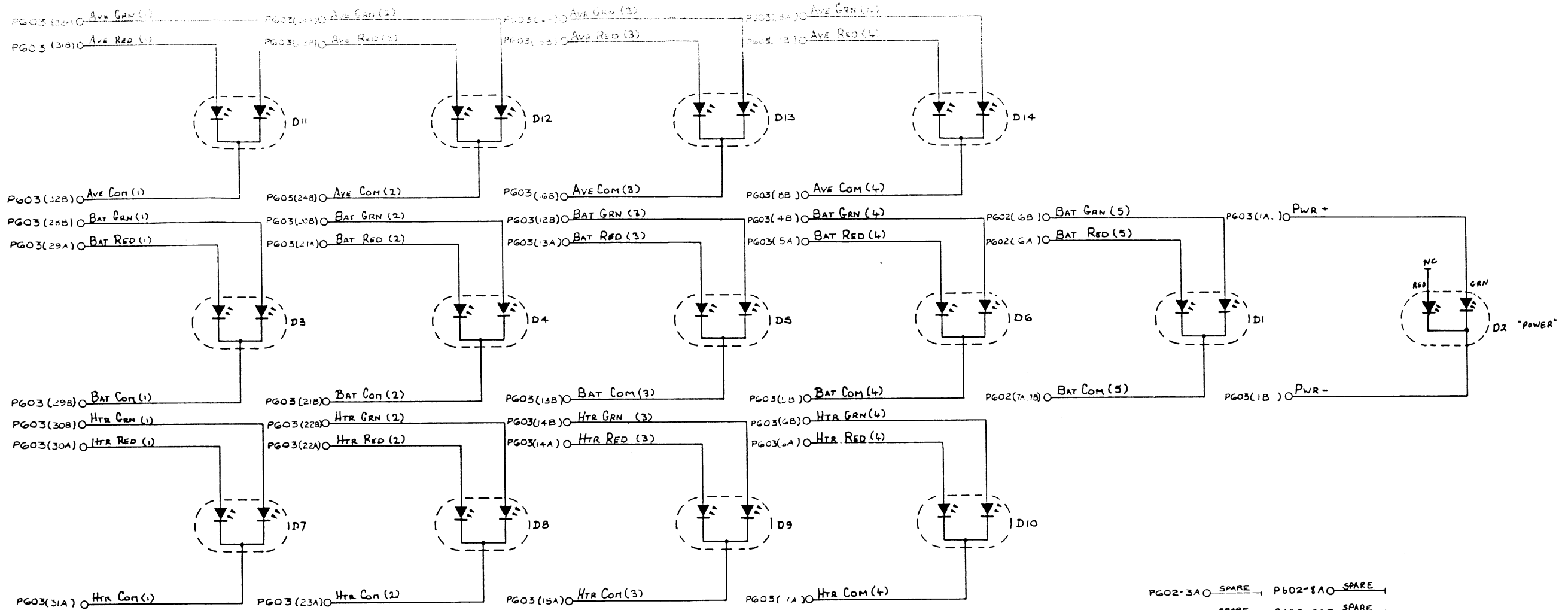
410433-2



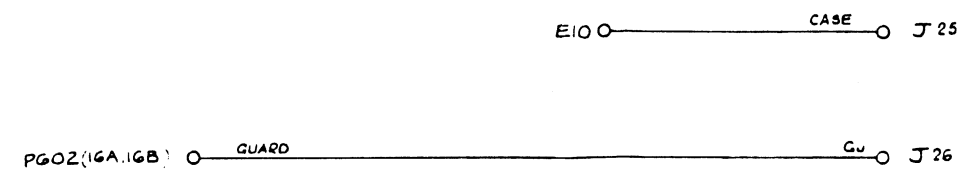
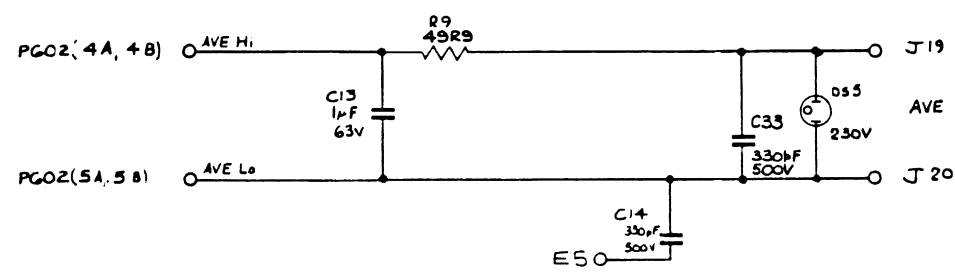
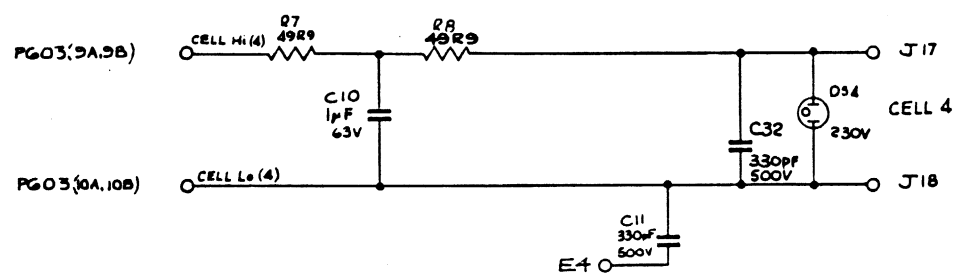
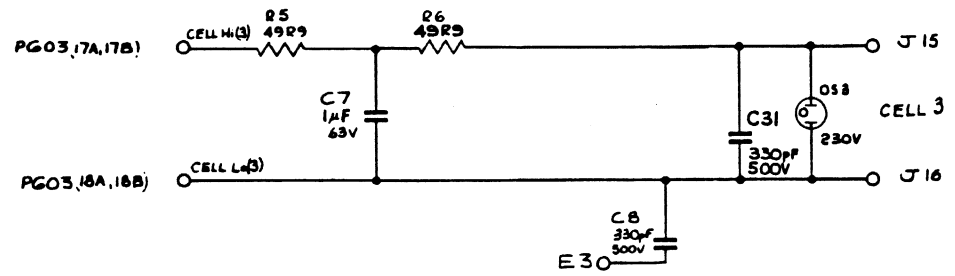
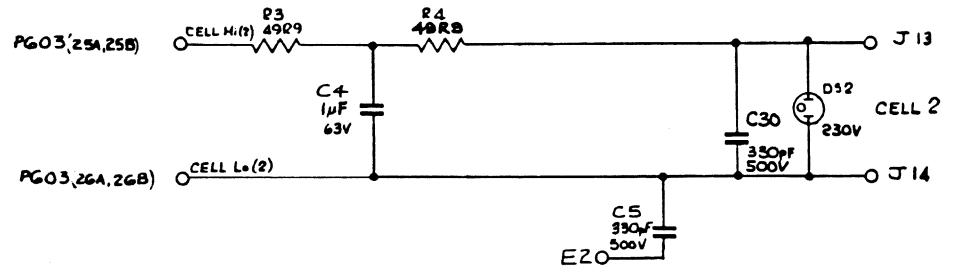
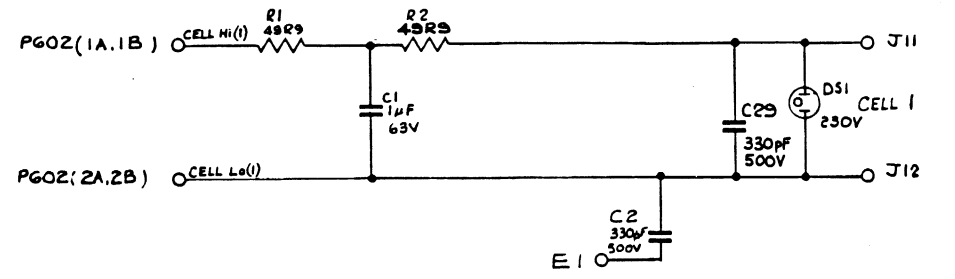
SOLDER SIDE OF PCB.

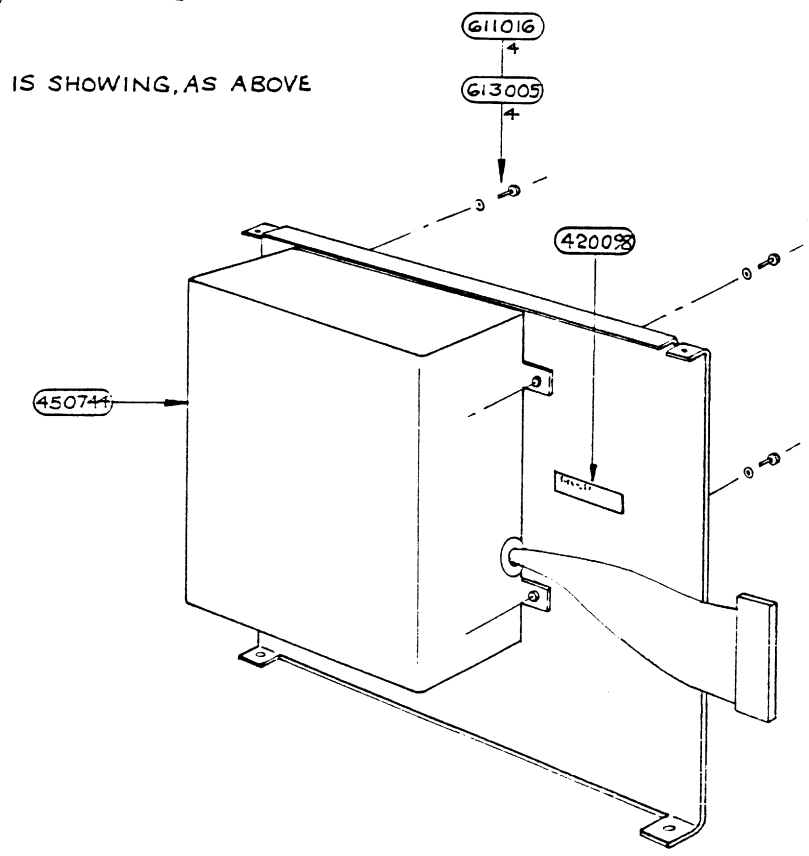
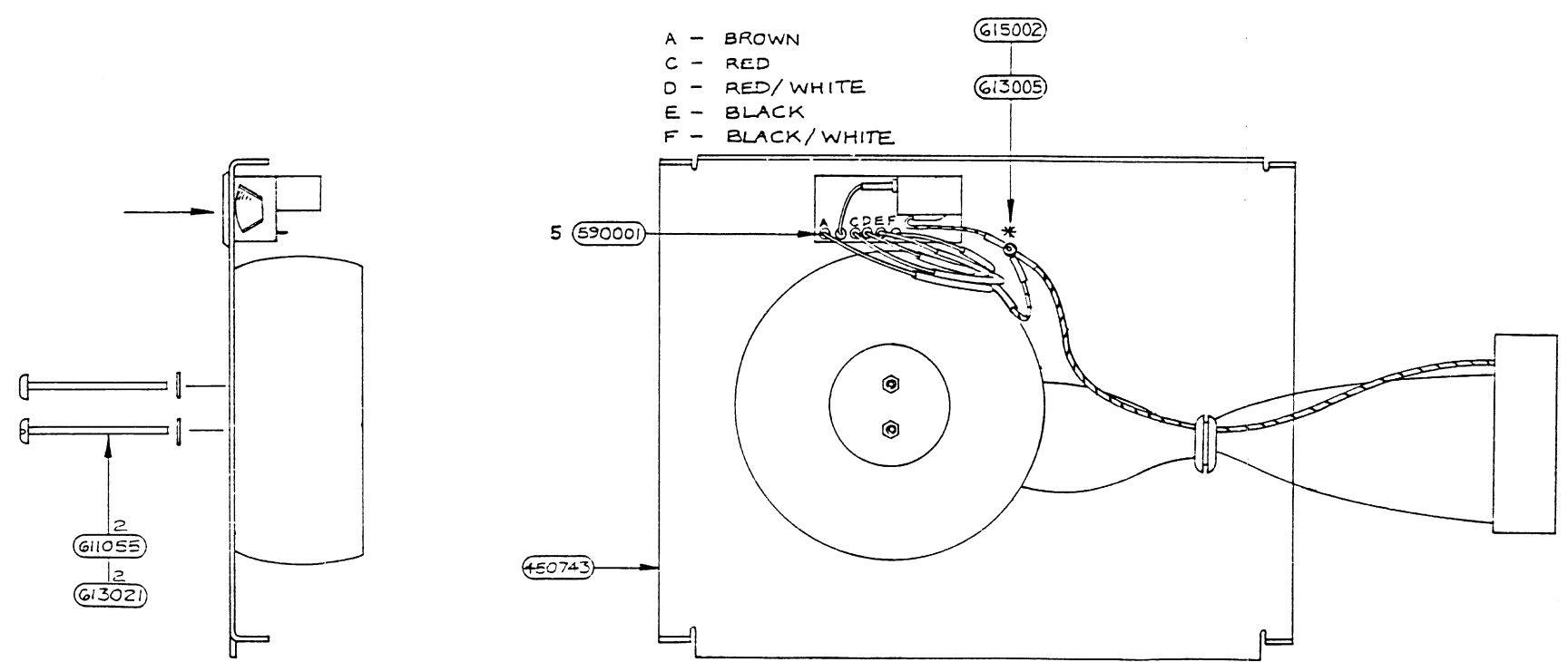
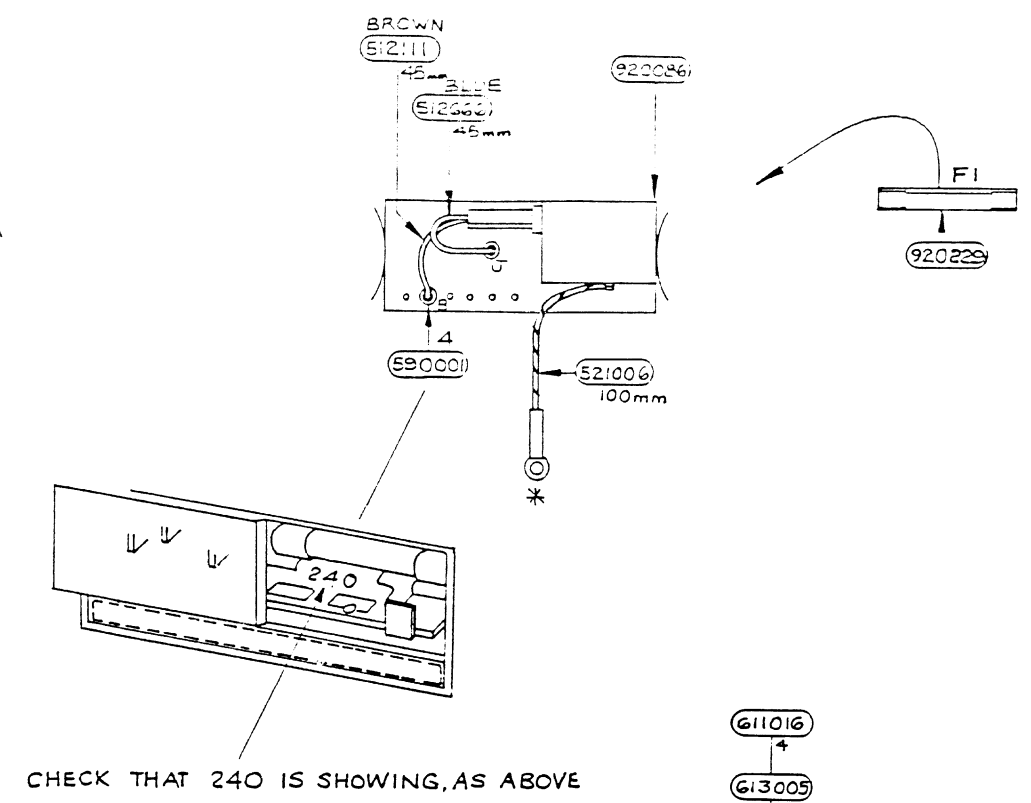
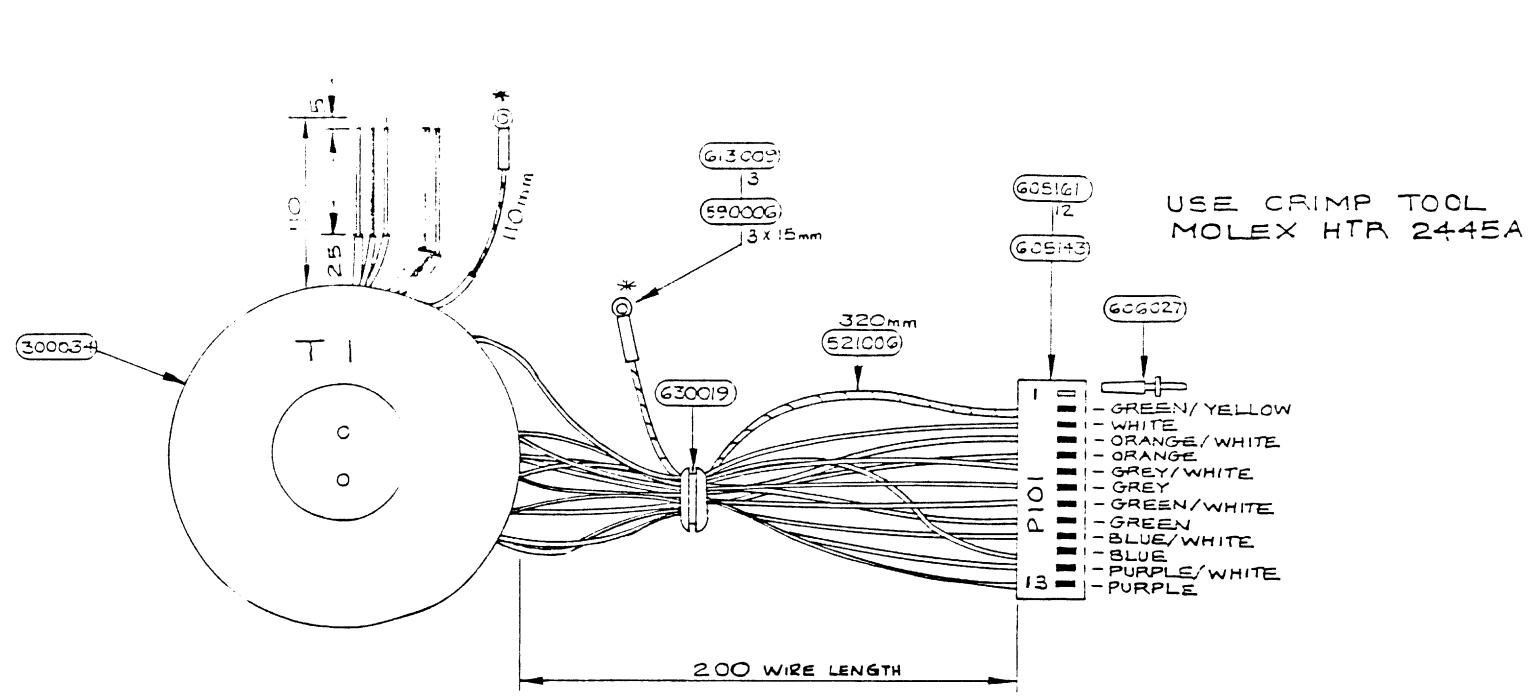


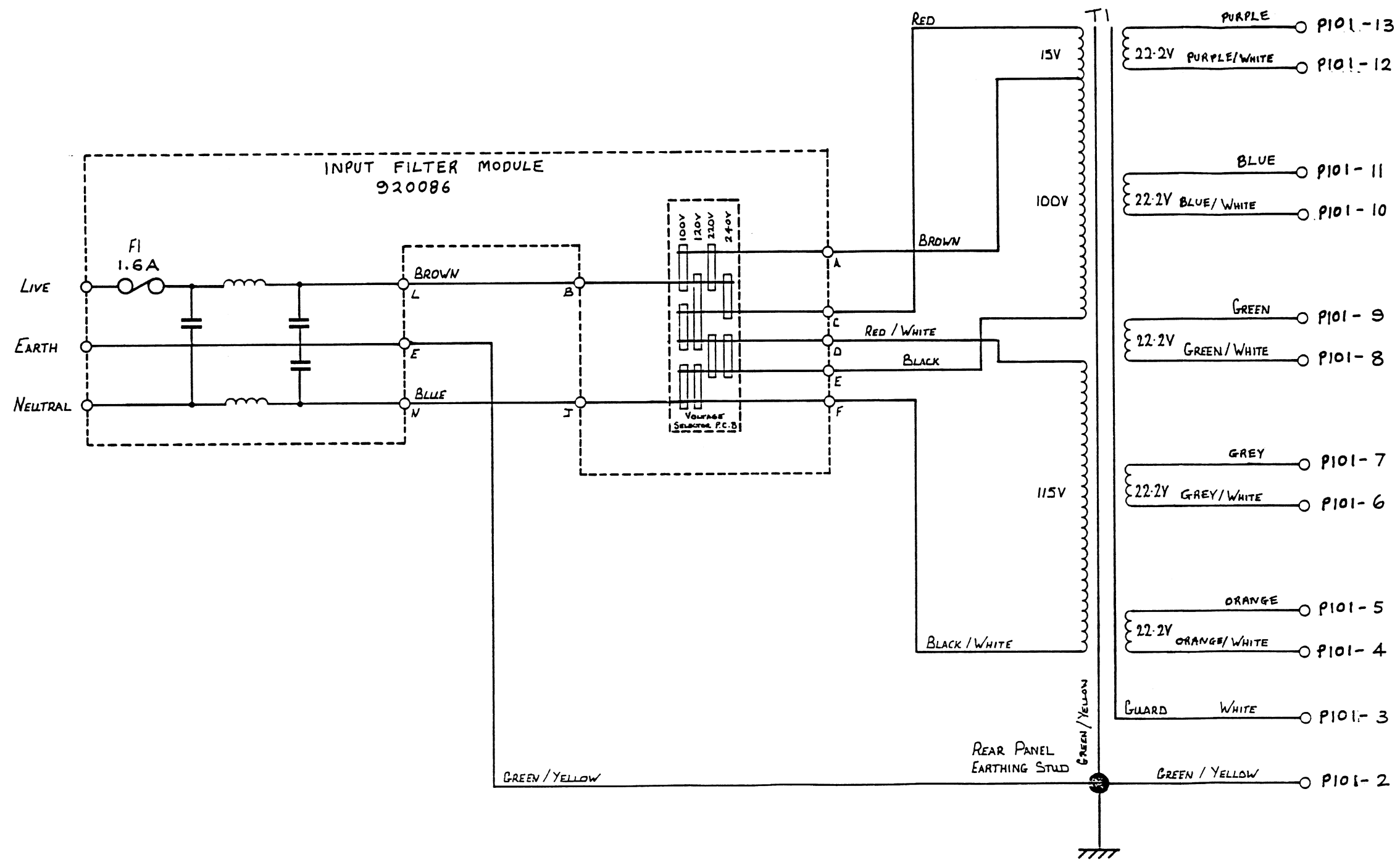
4911 FRONT PANEL ASSEMBLY
 Drawing No. DA400905 Sheet 2



PG02-3A	SPARE	P602-8A	SPARE
PG02-3B	SPARE	P602-8B	SPARE
PG03-2A	SPARE	P602-9A	SPARE
PG03-2B	SPARE	P602-9B	SPARE
PG03-3A	SPARE	P602-10A	SPARE
PG03-3B	SPARE	P602-10B	SPARE
PG03-4A	SPARE	P602-11A	SPARE
PG03-11A	SPARE	P602-11B	SPARE
PG03-11B	SPARE	P602-12A	SPARE
PG03-12A	SPARE	P602-12B	SPARE
PG03-19A	SPARE	P602-13A	SPARE
PG03-19B	SPARE	P602-13B	SPARE
PG03-20A	SPARE	P602-14A	SPARE
PG03-27A	SPARE	P602-14B	SPARE
PG03-27B	SPARE	P602-15A	SPARE
PG03-28A	SPARE	P602-15B	SPARE







REAR PANEL ASSEMBLY
 Drawing No. DC400882 Sheet 1



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LD400880

1.0 3310 17-5-89 650
1.1 3422 19-9-89 4
1.2 3464 22-11-89 4

REV	REV. LEVEL	SHEET NUMBER	ISSUE - REVISION
LD400880	ALL	1.0 1.0 1.0 1.0 1.1 1.1 1.2	
DA400880	1	1.0 1.0 1.0 1.1 1.1	
DA400880	2	1.0 1.0 1.1 1.1	
DC400880	1	1.0 1.0 1.1	
DC400880	2	1.0 1.1	
PT400880	ALL	ND	
410433	ALL	2.0	

<input type="checkbox"/> DENOTES NO CHANGE TO LOGS AT ISSUE LEVEL CHANGE		DRN IL DATE 17 MAY 89	CHK'D RMC DATE 22 JUN 89	APP'D RWF DATE 29 JUN 89	TITLE 4910 FRONT PANEL ASSY.	DRAWING No. LD400880 SHEET 1 OF 1
		NORWICH ENGLAND				

1 DEC 1988

DATRON INSTRUMENTS LTD PARTS LIST 22-Nov-89 DESC: ASSY FRONT PANEL 4910 DRG NO: LP400880-1 REV: 2 PAGE NO: 1

DESIG	PART NO	DESCRIPTION	PRINC MANUF	MANUF PART NUMBER	CLASS	UM	QUANTITY	CHANGES
R1	014998	RES MF 49R9 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	13	
R2	014998	RES MF 49R9 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R3	014998	RES MF 49R9 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R4	014998	RES MF 49R9 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R5	014998	RES MF 49R9 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R6	014998	RES MF 49R9 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R7	014998	RES MF 49R9 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R8	014998	RES MF 49R9 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R9	014998	RES MF 49R9 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R10	014998	RES MF 49R9 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R11	014998	RES MF 49R9 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R12	014998	RES MF 49R9 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R13	014998	RES MF 49R9 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R14	011008	RES MF 10R0 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	1	
R15	011000	RES MF 10R0 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	1	
C1	110046	CAP PE 1UF 20% 50V	WIMA	MKS2 1UF 20% 50V	A	EA	7	
C2	102331	CAP CD 330PF 10% 500V	BECK	CD08K1330PMSCR	A	EA	16	
C4	110046	CAP PE 1UF 20% 50V	WIMA	MKS2 1UF 20% 50V	A	EA	-	
C5	102331	CAP CD 330PF 10% 500V	BECK	CD08K1330PMSCR	A	EA	-	
C7	110046	CAP PE 1UF 20% 50V	WIMA	MKS2 1UF 20% 50V	A	EA	-	
C8	102331	CAP CD 330PF 10% 500V	BECK	CD08K1330PMSCR	A	EA	-	
C10	110046	CAP PE 1UF 20% 50V	WIMA	MKS2 1UF 20% 50V	A	EA	-	
C11	102331	CAP CD 330PF 10% 500V	BECK	CD08K1330PMSCR	A	EA	-	
C13	110046	CAP PE 1UF 20% 50V	WIMA	MKS2 1UF 20% 50V	A	EA	-	
C14	102331	CAP CD 330PF 10% 500V	BECK	CD08K1330PMSCR	A	EA	-	
C16	110046	CAP PE 1UF 20% 50V	WIMA	MKS2 1UF 20% 50V	A	EA	-	
C17	102331	CAP CD 330PF 10% 500V	BECK	CD08K1330PMSCR	A	EA	-	
C19	110046	CAP PE 1UF 20% 50V	WIMA	MKS2 1UF 20% 50V	A	EA	-	
C20	102331	CAP CD 330PF 10% 500V	BECK	CD08K1330PMSCR	A	EA	-	
C22	110041	CAP PE 10HF 20% 100V	WIMA	FKS2	A	EA	1	
C23	00000N	NOT FITTED						EA 1
C24	110040	CAP PE 33HF 20% 63V	WIMA	MKS2	A	EA	1	
C27	102331	CAP CD 330PF 10% 500V	BECK	CD08K1330PMSCR	A	EA	-	
C28	102331	CAP CD 330PF 10% 500V	BECK	CD08K1330PMSCR	A	EA	-	
C29	102331	CAP CD 330PF 10% 500V	BECK	CD08K1330PMSCR	A	EA	-	
C30	102331	CAP CD 330PF 10% 500V	BECK	CD08K1330PMSCR	A	EA	-	
C31	102331	CAP CD 330PF 10% 500V	BECK	CD08K1330PMSCR	A	EA	-	
C32	102331	CAP CD 330PF 10% 500V	BECK	CD08K1330PMSCR	A	EA	-	
C33	102331	CAP CD 330PF 10% 500V	BECK	CD08K1330PMSCR	A	EA	-	
C34	102331	CAP CD 330PF 10% 500V	BECK	CD08K1330PMSCR	A	EA	-	
C35	102331	CAP CD 330PF 10% 500V	BECK	CD08K1330PMSCR	A	EA	-	
D1	220024	DIODE 1E RED/GRN	AEG/TELEFUNKEN	CQX95	A	EA	14	
D2	220024	DIODE 1E RED/GRN	AEG/TELEFUNKEN	CQX95	A	EA	-	
D3	220024	DIODE 1E RED/GRN	AEG/TELEFUNKEN	CQX95	A	EA	-	
D4	220024	DIODE 1E RED/GRN	AEG/TELEFUNKEN	CQX95	A	EA	-	

DESIG	PART NO	DESCRIPTION	PRINC MANUF	MANUF PART NUMBER	CLASS UM	QUANTITY	CHANGES
D5	220024	DIODE LE RED/GRN	AEG/TELEFUNKEN	CQX95	EA	-	
D6	220024	DIODE LE RED/GRN	AEG/TELEFUNKEN	CQX95	EA	-	
D7	220024	DIODE LE RED/GRN	AEG/TELEFUNKEN	CQX95	EA	-	
D8	220024	DIODE LE RED/GRN	AEG/TELEFUNKEN	CQX95	EA	-	
D9	220024	DIODE LE RED/GRN	AEG/TELEFUNKEN	CQX95	EA	-	
D10	220024	DIODE LE RED/GRN	AEG/TELEFUNKEN	CQX95	EA	-	
D11	220024	DIODE LE RED/GRN	AEG/TELEFUNKEN	CQX95	EA	-	
D12	220024	DIODE LE RED/GRN	AEG/TELEFUNKEN	CQX95	EA	-	
D13	220024	DIODE LE RED/GRN	AEG/TELEFUNKEN	CQX95	EA	-	
D14	220024	DIODE LE RED/GRN	AEG/TELEFUNKEN	CQX95	EA	-	
L1	370026	CHOKER RP 1UH 880mA	SIGMA	SC10	EA	1	
P602	605185	SOCKET PCB 32-WAY (2 X 16)	BICC-VERO	905-72270K	EA	1	
P603	605184	SOCKET PCB 64-WAY (2 X 32)	BICC-VERO	905-72209D	EA	1	
J11	920218-1	TERMINAL GREY/RED	CLIFF	SEE DRG	EA	8	
J12	920217-1	TERMINAL GREY/BLACK	CLIFF	SEE DRG	EA	8	
J13	920218-1	TERMINAL GREY/RED	CLIFF	SEE DRG	EA	-	
J14	920217-1	TERMINAL GREY/BLACK	CLIFF	SEE DRG	EA	-	
J15	920218-1	TERMINAL GREY/RED	CLIFF	SEE DRG	EA	-	
J16	920217-1	TERMINAL GREY/BLACK	CLIFF	SEE DRG	EA	-	
J17	920218-1	TERMINAL GREY/RED	CLIFF	SEE DRG	EA	-	
J18	920217-1	TERMINAL GREY/BLACK	CLIFF	SEE DRG	EA	-	
J19	920218-1	TERMINAL GREY/RED	CLIFF	SEE DRG	EA	-	
J20	920217-1	TERMINAL GREY/BLACK	CLIFF	SEE DRG	EA	-	
J21	920220-1	TERMINAL GREY/BROWN	CLIFF	SEE DRG	EA	1	
J22	920221-1	TERMINAL GREY/BLUE	CLIFF	SEE DRG	EA	1	
J23	920218-1	TERMINAL GREY/RED	CLIFF	SEE DRG	EA	-	
J24	920217-1	TERMINAL GREY/BLACK	CLIFF	SEE DRG	EA	-	
J25	920223-1	TERMINAL GREY/GREEN	CLIFF	SEE DRG	EA	1	
J26	920219-1	TERMINAL GREY/WHITE	CLIFF	SEE DRG	EA	1	
J27	920218-1	TERMINAL GREY/RED	CLIFF	SEE DRG	EA	-	
J28	920218-1	TERMINAL GREY/RED	CLIFF	SEE DRG	EA	-	
J29	920217-1	TERMINAL GREY/BLACK	CLIFF	SEE DRG	EA	-	
J30	920217-1	TERMINAL GREY/BLACK	CLIFF	SEE DRG	EA	-	
E1	614012-1	SPACER M3 CLEAR X 5		SEE DRG	EA	10	
E2	614012-1	SPACER M3 CLEAR X 5		SEE DRG	EA	-	
E3	614012-1	SPACER M3 CLEAR X 5		SEE DRG	EA	-	
E4	614012-1	SPACER M3 CLEAR X 5		SEE DRG	EA	-	
E5	614012-1	SPACER M3 CLEAR X 5		SEE DRG	EA	-	
E6	614012-1	SPACER M3 CLEAR X 5		SEE DRG	EA	-	
E7	614012-1	SPACER M3 CLEAR X 5		SEE DRG	EA	-	
E8	614012-1	SPACER M3 CLEAR X 5		SEE DRG	EA	-	
E9	614012-1	SPACER M3 CLEAR X 5		SEE DRG	EA	-	
E10	614012-1	SPACER M3 CLEAR X 5		SEE DRG	EA	-	
DS1	920226	GAS ARRESTER 230V DC SPARKOVER	BESWICK	GTD911D	EA	9	
DS2	920226	GAS ARRESTER 230V DC SPARKOVER	BESWICK	GTD911D	EA	-	

DESIG	PART NO	DESCRIPTION	PRINC MANUF	MANUF PART NUMBER	CLASS UM	QUANTITY	CHANGES
DS3	920226	GAS ARRESTER 230V DC SPARKOVER	BESWICK	GTD911D	EA	-	
DS4	920226	GAS ARRESTER 230V DC SPARKOVER	BESWICK	GTD911D	EA	-	
DS5	920226	GAS ARRESTER 230V DC SPARKOVER	BESWICK	GTD911D	EA	-	
DS6	920226	GAS ARRESTER 230V DC SPARKOVER	BESWICK	GTD911D	EA	-	
DS7	920226	GAS ARRESTER 230V DC SPARKOVER	BESWICK	GTD911D	EA	-	
DS8	920226	GAS ARRESTER 230V DC SPARKOVER	BESWICK	GTD911D	EA	-	
DS9	920226	GAS ARRESTER 230V DC SPARKOVER	BESWICK	GTD911D	EA	-	
	410433-2	PCB FRONT 4910		SEE DRG	EA	1	
	420098	LABEL SERIAL/ASSY No.	RS COMPONENTS	554-793	EA	1	
	420112-1	LABEL SSD WARNING 12 X 12mm	TERNTS	LN1212	A	EA	1
	450750-2	FRONT PANEL 4910		SEE DRG	EA	1	
	450751-1	OVERLAY 4910		SEE DRG	EA	1	
	450752-2	VERTICAL CORNER TRIM 4910		SEE DRG	EA	2	
	450851-1	CORNER BRACKET RIGHT 4910		SEE DRG	EA	1	
	450852-1	CORNER BRACKET LEFT 4910		SEE DRG	EA	1	
	611006	SCREW M3 X 10 POZIPAN SZP			EA	10	
	611011	SCREW M2.5 X 6 POZIPAN SZP			EA	4	
	611016	SCREW M3 X 8 POZIPAN SZP			EA	6	
	611105	SCREW 8-32 X 3/8 POZICSK SZP			EA	4	
	613005	WASHER M3 INT SHAKEPROOF			EA	6	
	613029	WASHER M3 WAVY SS			EA	10	
	613047	WASHER M2.5 WAVY SS			EA	4	
	613054-1	WASHER 4BA BRASS GL.PL.		SEE DRG	EA	20	
	615006	NUT FULL M2.5 SZP			EA	4	
	615025-1	NUT FULL 4BA BRASS GL.PL.		SEE DRG	EA	20	
	630024	BEAD CERAMIC 16 SWG	PARK ROYAL PORCELAIN No2		EA	18	

End

LD400905

1.0 3310 15.5.89 EST
 1.1 3422 19.9.89 MB
 1.2 3464 22.11.89 MB

		ISSUE / REVISION		
REF	DESCRIPTION	REV	DATE	BY
LP400905	ALL	1.0	1.1	1.2
DA400905	1	1.0	1.1	1.2
DA400905	2	1.0	1.1	1.2
DC400905	1	1.0	1.1	1.2
DC400905	2	1.0	1.1	1.2
PT400905	ALL	N/D		
DP410433	ALL	2.0		

ISSUES ARE CHARGED TO DXXX
 AT ISSUE LEVEL CHANGE



DRN	11	CHKD	RPC	APVD	Ruf
DATE	15 MAY 89	DATE	22 JUN 89	DATE	28 SEP 89

TITLE 4911
 FRONT PANEL ASSY.

DRAWING No. LD400905
 SHEET 1 OF 1

- 1 DEC 1989

DATRON INSTRUMENTS LTD PARTS LIST 22-Nov-89 DESC: ASSY FRONT PANEL 4911 DRG NO: LP400905-1 REV: 2 PAGE NO: 1

DESIGN	PART NO	DESCRIPTION	PRINC MANUF	MANUF PART NUMBER	CLASS	UM	QUANTITY	CHANGES
R1	014998	RES MF 49R9 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	9	
R2	014998	RES MF 49R9 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R3	014998	RES MF 49R9 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R4	014998	RES MF 49R9 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R5	014998	RES MF 49R9 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R6	014998	RES MF 49R9 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R7	014998	RES MF 49R9 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R8	014998	RES MF 49R9 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R9	014998	RES MF 49R9 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
C1	110046	CAP PE 1UF 20% 50V	WIMA	MKS2 1UF 20% 50V	A	EA	5	
C2	102331	CAP CD 330PF 10% 500V	BECK	CD08K1330PMSCR	A	EA	10	
C4	110046	CAP PE 1UF 20% 50V	WIMA	MKS2 1UF 20% 50V	A	EA	-	
C5	102331	CAP CD 330PF 10% 500V	BECK	CD08K1330PMSCR	A	EA	-	
C7	110046	CAP PE 1UF 20% 50V	WIMA	MKS2 1UF 20% 50V	A	EA	-	
C8	102331	CAP CD 330PF 10% 500V	BECK	CD08K1330PMSCR	A	EA	-	
C10	110046	CAP PE 1UF 20% 50V	WIMA	MKS2 1UF 20% 50V	A	EA	-	
C11	102331	CAP CD 330PF 10% 500V	BECK	CD08K1330PMSCR	A	EA	-	
C13	110046	CAP PE 1UF 20% 50V	WIMA	MKS2 1UF 20% 50V	A	EA	-	
C14	102331	CAP CD 330PF 10% 500V	BECK	CD08K1330PMSCR	A	EA	-	
C29	102331	CAP CD 330PF 10% 500V	BECK	CD08K1330PMSCR	A	EA	-	
C30	102331	CAP CD 330PF 10% 500V	BECK	CD08K1330PMSCR	A	EA	-	
C31	102331	CAP CD 330PF 10% 500V	BECK	CD08K1330PMSCR	A	EA	-	
C32	102331	CAP CD 330PF 10% 500V	BECK	CD08K1330PMSCR	A	EA	-	
C33	102331	CAP CD 330PF 10% 500V	BECK	CD08K1330PMSCR	A	EA	-	
D1	220024	DIODE 1E RED/GRN	ARG/TELEFUNKEN	CQX95	A	EA	14	
D2	220024	DIODE 1E RED/GRN	ARG/TELEFUNKEN	CQX95	A	EA	-	
D3	220024	DIODE 1E RED/GRN	ARG/TELEFUNKEN	CQX95	A	EA	-	
D4	220024	DIODE 1E RED/GRN	ARG/TELEFUNKEN	CQX95	A	EA	-	
D5	220024	DIODE 1E RED/GRN	ARG/TELEFUNKEN	CQX95	A	EA	-	
D6	220024	DIODE 1E RED/GRN	ARG/TELEFUNKEN	CQX95	A	EA	-	
D7	220024	DIODE 1E RED/GRN	ARG/TELEFUNKEN	CQX95	A	EA	-	
D8	220024	DIODE 1E RED/GRN	ARG/TELEFUNKEN	CQX95	A	EA	-	
D9	220024	DIODE 1E RED/GRN	ARG/TELEFUNKEN	CQX95	A	EA	-	
D10	220024	DIODE 1E RED/GRN	ARG/TELEFUNKEN	CQX95	A	EA	-	
D11	220024	DIODE 1E RED/GRN	ARG/TELEFUNKEN	CQX95	A	EA	-	
D12	220024	DIODE 1E RED/GRN	ARG/TELEFUNKEN	CQX95	A	EA	-	
D13	220024	DIODE 1E RED/GRN	ARG/TELEFUNKEN	CQX95	A	EA	-	
D14	220024	DIODE 1E RED/GRN	ARG/TELEFUNKEN	CQX95	A	EA	-	
P602	605185	SOCKET PCB 32 WAY (2 X 16)	BICC-VERO	905-72270K	A	EA	1	
P603	605184	SOCKET PCB 64 WAY (2 X 32)	BICC-VERO	905-72209D	A	EA	1	
J11	920218-1	TERMINAL GREY/RED	CLIFF	SEE DRG	A	EA	5	
J12	920217-1	TERMINAL GREY/BLACK	CLIFF	SEE DRG	A	EA	5	
J13	920218-1	TERMINAL GREY/RED	CLIFF	SEE DRG	A	EA	-	
J14	920217-1	TERMINAL GREY/BLACK	CLIFF	SEE DRG	A	EA	-	
J15	920218-1	TERMINAL GREY/RED	CLIFF	SEE DRG	A	EA	-	

DESIG	PART NO	DESCRIPTION	PRINC MANUF	MANUF PART NUMBER	CLASS	UM	QUANTITY	CHANGES
J16	920217-1	TERMINAL GREY/BLACK	CLIFF	SEE DRG	EA	-		
J17	920218-1	TERMINAL GREY/RED	CLIFF	SEE DRG	EA	-		
J18	920217-1	TERMINAL GREY/BLACK	CLIFF	SEE DRG	EA	-		
J19	920218-1	TERMINAL GREY/RED	CLIFF	SEE DRG	EA	-		
J20	920217-1	TERMINAL GREY/BLACK	CLIFF	SEE DRG	EA	-		
J25	920223-1	TERMINAL GREY/GREEN	CLIFF	SEE DRG	EA	1		
J26	920219-1	TERMINAL GREY/WHITE	CLIFF	SEE DRG	EA	1		
E1	614012-1	SPACER M3 CLEAR X 5		SEE DRG	EA	6		
E2	614012-1	SPACER M3 CLEAR X 5		SEE DRG	EA	-		
E3	614012-1	SPACER M3 CLEAR X 5		SEE DRG	EA	-		
E4	614012-1	SPACER M3 CLEAR X 5		SEE DRG	EA	-		
E5	614012-1	SPACER M3 CLEAR X 5		SEE DRG	EA	-		
E10	614012-1	SPACER M3 CLEAR X 5		SEE DRG	EA	-		
DS1	920226	GAS ARRESTER 230V DC SPARKOVER	BESWICK	GTD911D	EA	5		
DS2	920226	GAS ARRESTER 230V DC SPARKOVER	BESWICK	GTD911D	EA	-		
DS3	920226	GAS ARRESTER 230V DC SPARKOVER	BESWICK	GTD911D	EA	-		
DS4	920226	GAS ARRESTER 230V DC SPARKOVER	BESWICK	GTD911D	EA	-		
DS5	920226	GAS ARRESTER 230V DC SPARKOVER	BESWICK	GTD911D	EA	-		
	410433-2	PCB FRONT 4910		SEE DRG	EA	1		
	420098	LABEL SERIAL/ASSY No.	RS COMPONENTS	554-793	EA	1		
	420112-1	LABEL SSD WARNING 12 X 12mm	TEKNIS	LN1212	A	EA	1	
	450750-2	FRONT PANEL 4910		SEE DRG	EA	1		
	450752-2	VERTICAL CORNER TRIM 4910		SEE DRG	EA	2		
	450756-1	OVERLAY 4911		SEE DRG	EA	1		
	450851-1	CORNER BRACKET RIGHT 4910		SEE DRG	EA	1		
	450852-1	CORNER BRACKET LEFT 4910		SEE DRG	EA	1		
	611006	SCREW M3 X 10 POZIPAN SZP			EA	6		
	611011	SCREW M2.5 X 6 POZIPAN SZP			EA	4		
	611016	SCREW M3 X 8 POZIPAN SZP			EA	6		
	611105	SCREW 8-32 X 3/8 POZICSK SZP			EA	4		
	613005	WASHER M3 INT SHAKEPROOF			EA	6		
	613029	WASHER M3 WAVY SS			EA	6		
	613047	WASHER M2.5 WAVY SS			EA	4		
	613054-1	WASHER 4BA BRASS GL.PL.		SEE DRG	EA	12		
	615006	NUT FULL M2.5 SZP			EA	4		
	615025-1	NUT FULL 4BA BRASS GL.PL.		SEE DRG	EA	12		
	630024	BEAD CERAMIC 16 SWG	PARK ROYAL PORCELAIN	No2	EA	10		

End

LD400882

1.0 3310 18-5-89 28

REV	DESCRIPTION	DATE	BY	CHKD	DATE	BY	ISSUE / REVISION
1.0	LP400882 ALL	1.0	1.0				
	DA400882 I	1.0	1.0				
	DC400882 I	1.0	1.0				
	PT400882 ALL	NO	NO				

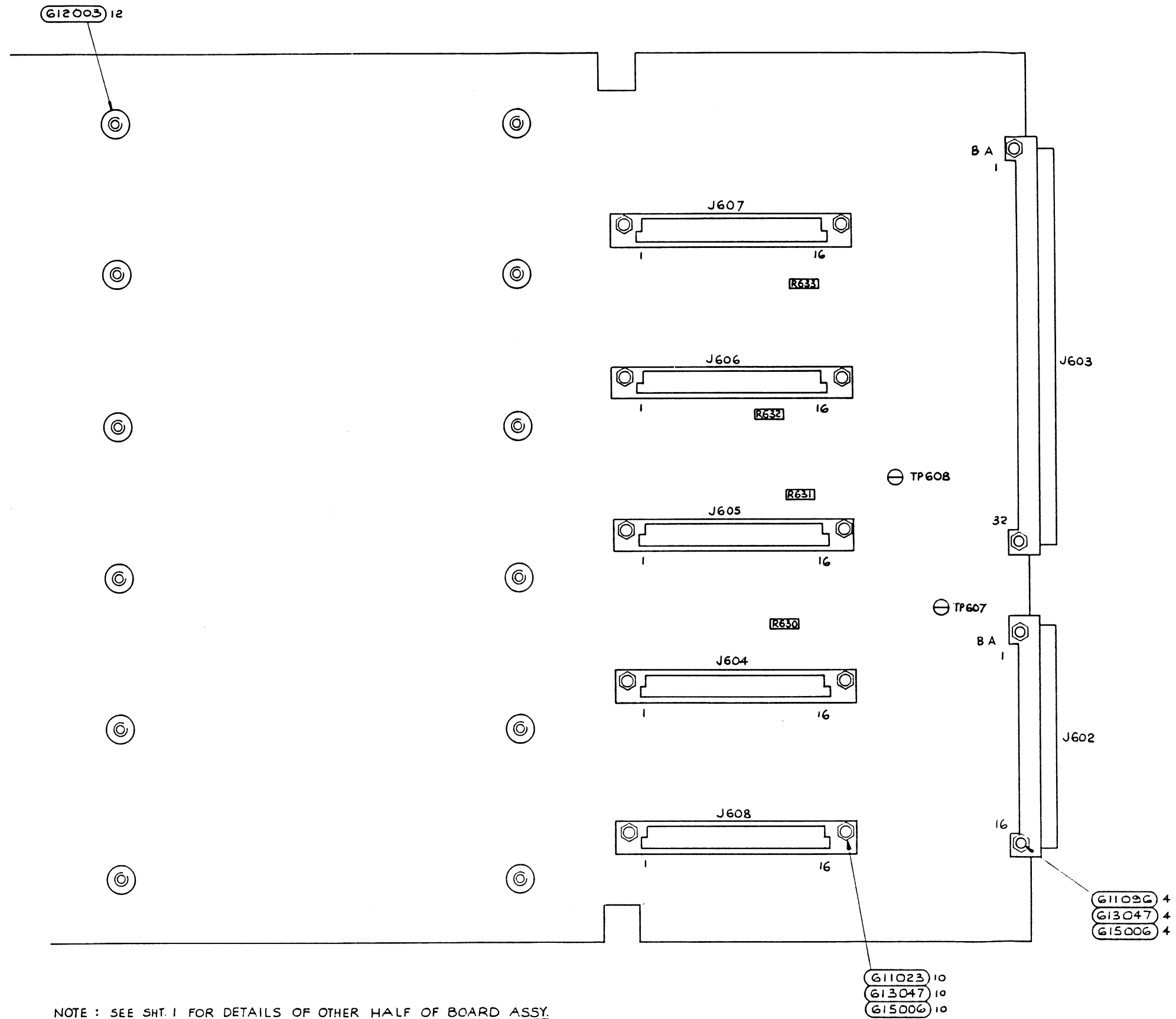
<input type="checkbox"/> DENOTES NO CHANGE TO BOCS <input type="checkbox"/> AT ISSUE LEVEL CHANGE		DRN	CHKD	APPD	TITLE	DRAWING No.
		IL	RHC	RWF	4910/11	LD400882
		DATE	DATE	DATE	REAR PANEL ASSY.	SHEET 1 OF 1
		16 MAY 89	23 JUN 89	23 JUN 89		

11 JUL 1989

DATRON INSTRUMENTS LTD PARTS LIST 26-Jun-89 DESC: ASSY REAR PANEL 4910 DRG NO: LP400882-1 REV: 0 PAGE NO: 1

DESIG	PART NO	DESCRIPTION	PRINC MANUF	MANUF PART NUMBER	CLASS UM	QUANTITY	CHANGES
T1	300034-1	TRANSF POWER 4910	STGA	SEE DRG	EA	1	
P101	605143	SOCKET PCB 13-WAY .156"	MOLEX	09-91-1300	EA	1	
F1	920229	FUSE 1.6A 250V 32mm SLOW BLOW	LITTLEFUSE	31301,6	EA	1	
	420098	LABEL SERIAL/ASSY No.	RS COMPONENTS	554-793	EA	1	
	450743-1	REAR PANEL 4910		SEE DRG	EA	1	
	450744-1	MAINS SCREENING BOX		SEE DRG	EA	1	
	512111	WIRE 7/.2 PTFE 1KV BRN	BSG210	TYPE C	AK	1	
	512666	WIRE 7/.2 PTFE 1KV BLU	BSG210	TYPE C	AK	1	
	521006	WIRE 16/.2 PVC 1KV GRN/YLW	RS COMPONENTS	359-380	AK	1	
	590001	SLEEVE HP 1.5 X 20MM BLK	HELLERMANN	H15 X 20MM BLK	EA	9	
	590006	SLEEVE HS 2.4mm YLW.	RS COMPONENTS	399-495	AK	1	
	605161	CRIMP TERMINAL GD PL	MOLEX	08-56-0108	EA	12	
	606027	POLARISING PIN (.156" HOUSING)	MOLEX	15-04-0220	EA	1	
	611016	SCREW M3 X 8 POZIPAN SZP			EA	4	
	611055	SCREW M4 X 40 SLOT PAN BHP			EA	2	
	613005	WASHER M3 INT SHAKEPROOF			EA	5	
	613009	SOLDER TAG 4 BA BTP			EA	3	
	613021	WASHER M4 INT. SHAKP.			EA	2	
	615002	NUT FULL M3 SZP			EA	1	
	630019	GROMMET 9.5 DIA.	RS COMPONENTS	543-210	EA	1	
	920086	MAINS INPUT FILTER	POTTER	7100-0002	EA	1	

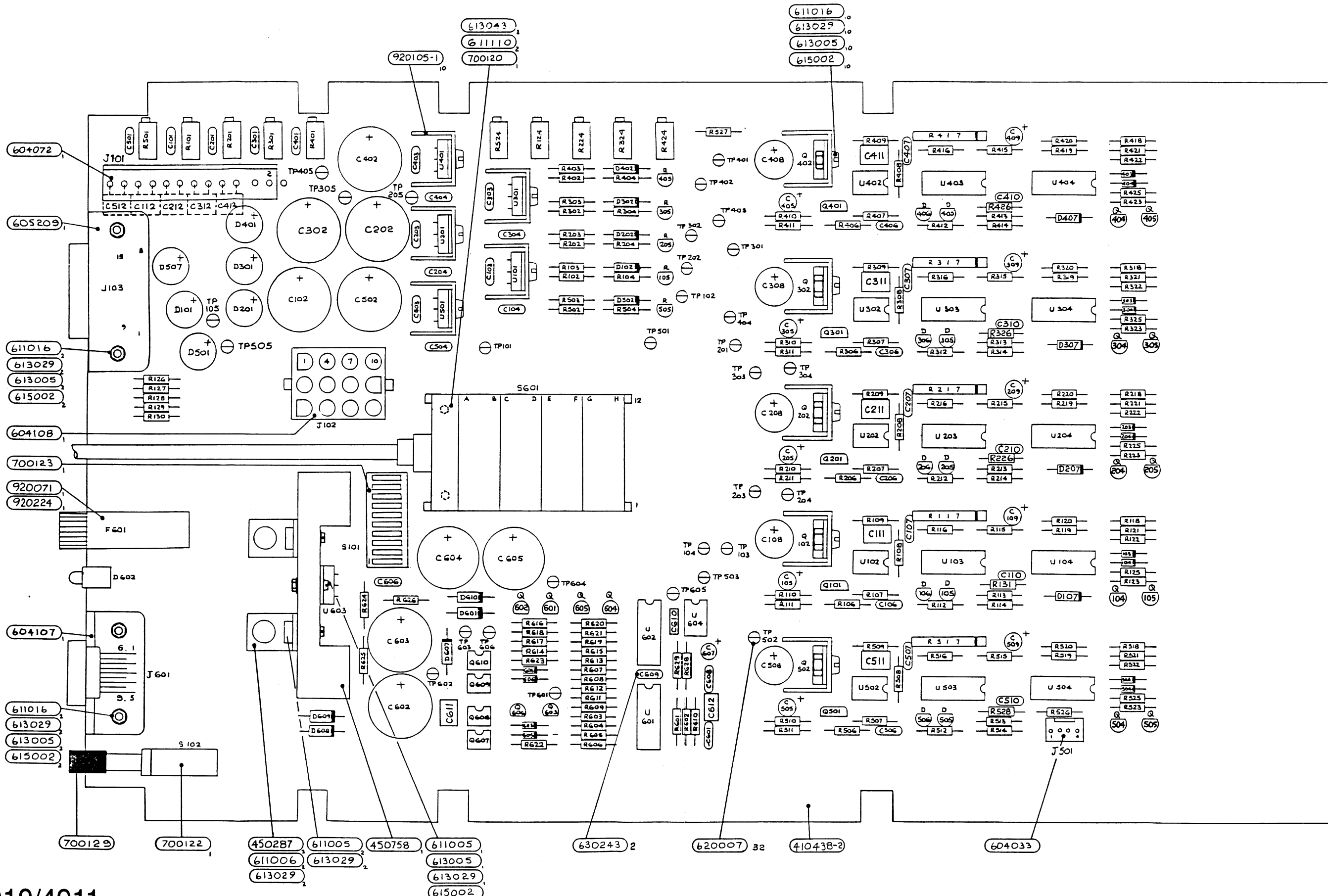
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NOTE : SEE SHT. 1 FOR DETAILS OF OTHER HALF OF BOARD ASSY.

MOTHER PCB ASSEMBLY
 Drawing No. DA400878 Sheet 2

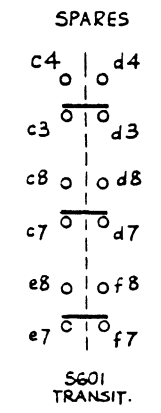
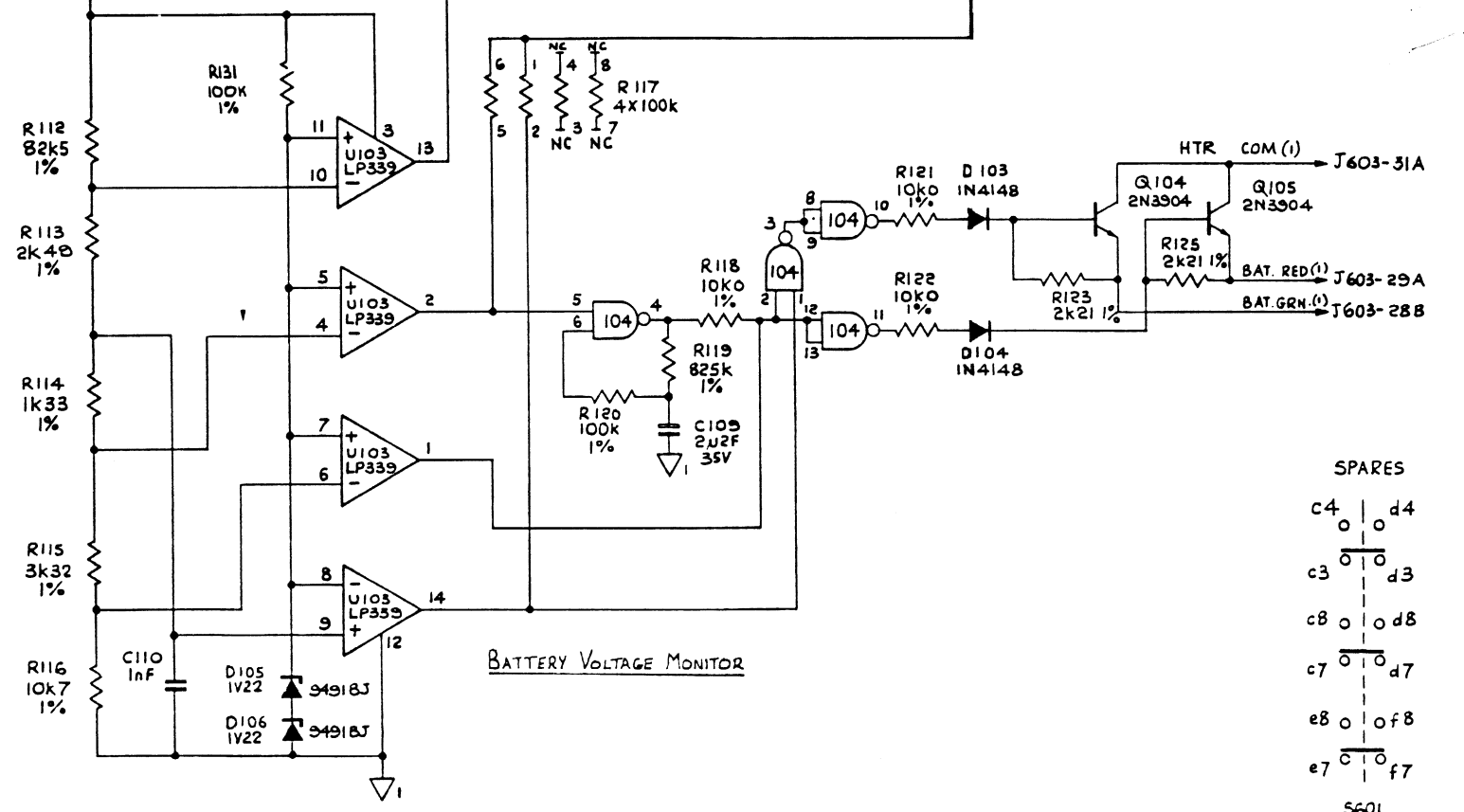
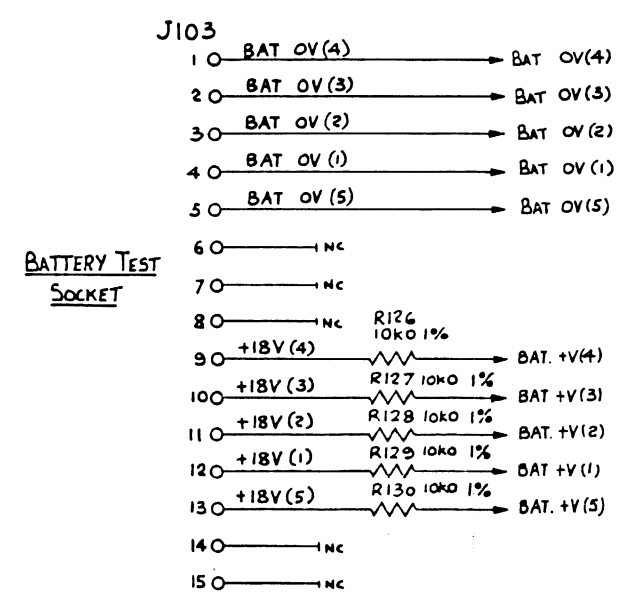
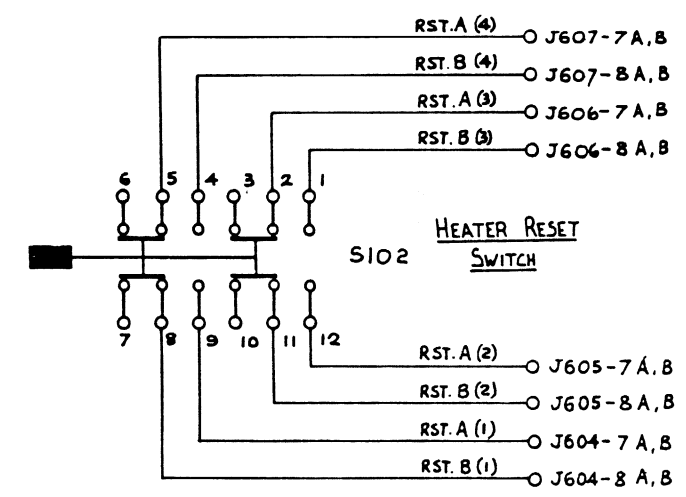
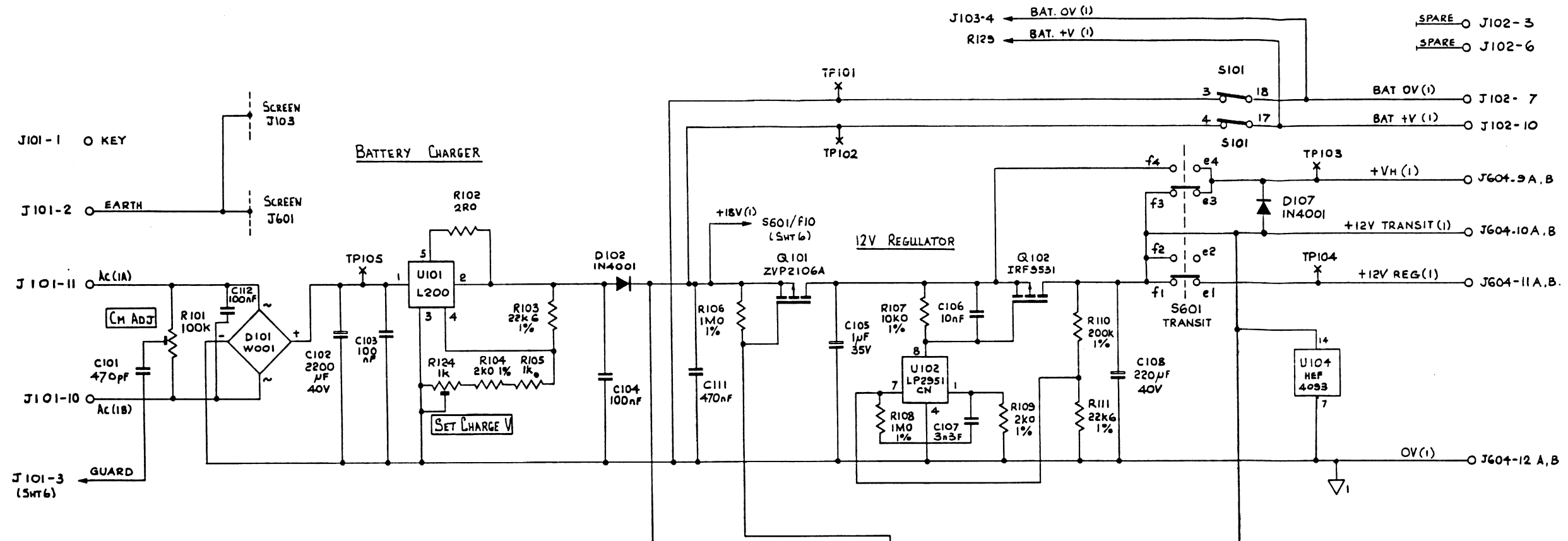
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 WAVETEK
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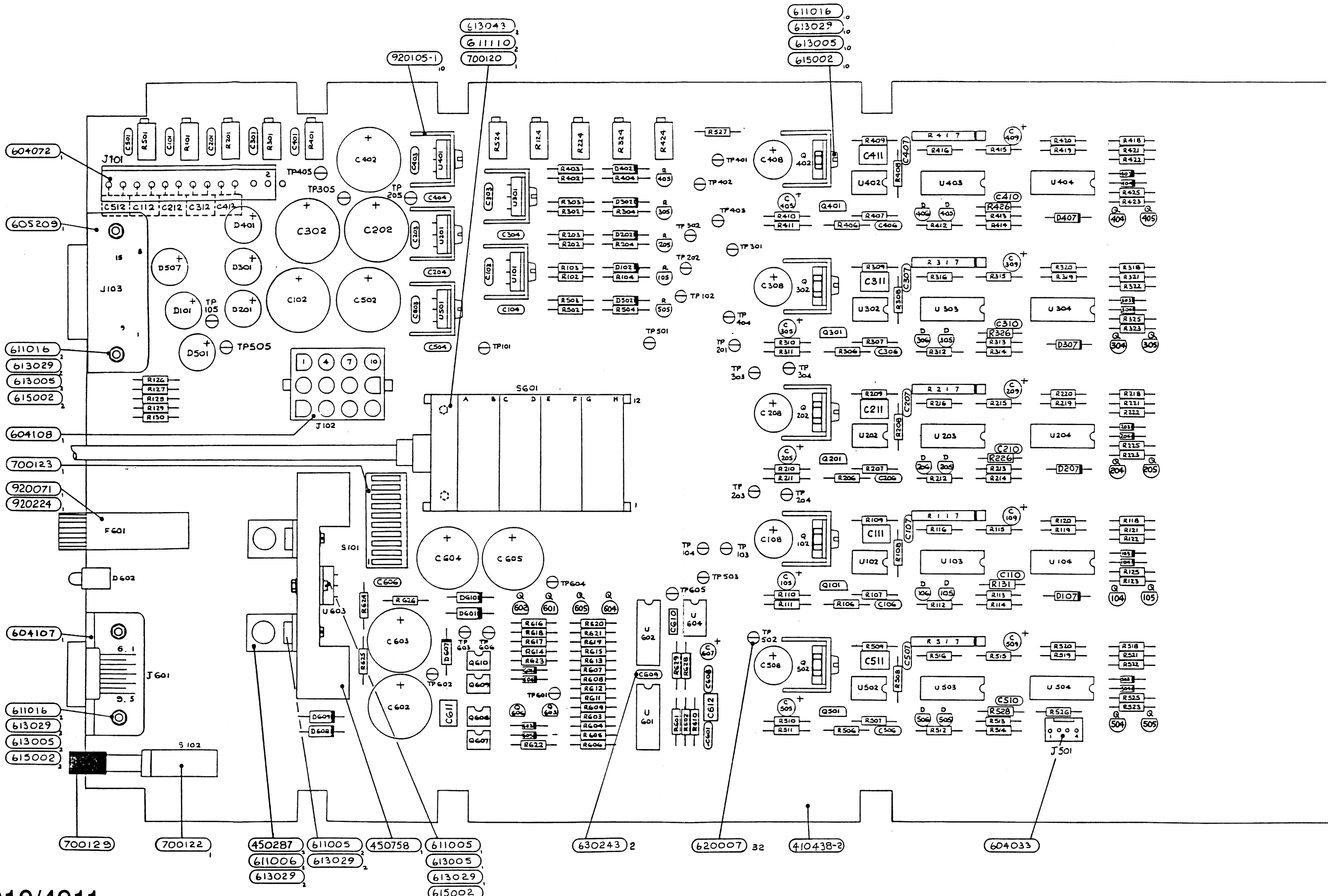
MOTHER PCB ASSEMBLY
 Drawing No. DA400878 Sheet 1

NOTE: SEE SHT. 2 FOR DETAILS OF OTHER HALF OF BOARD ASSY.

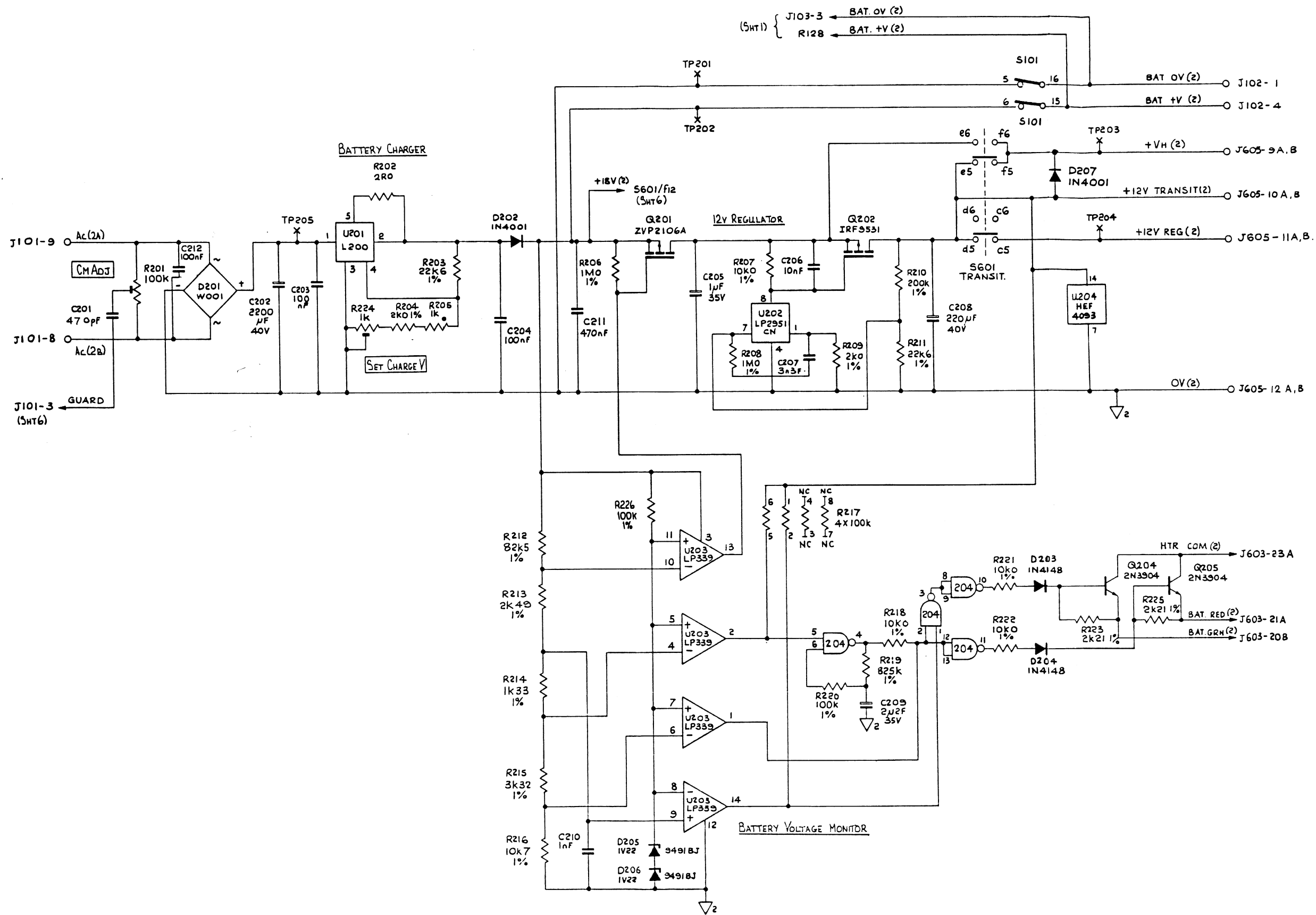


MOTHER PCB ASSEMBLY
Drawing No. DC400878 Sheet 1

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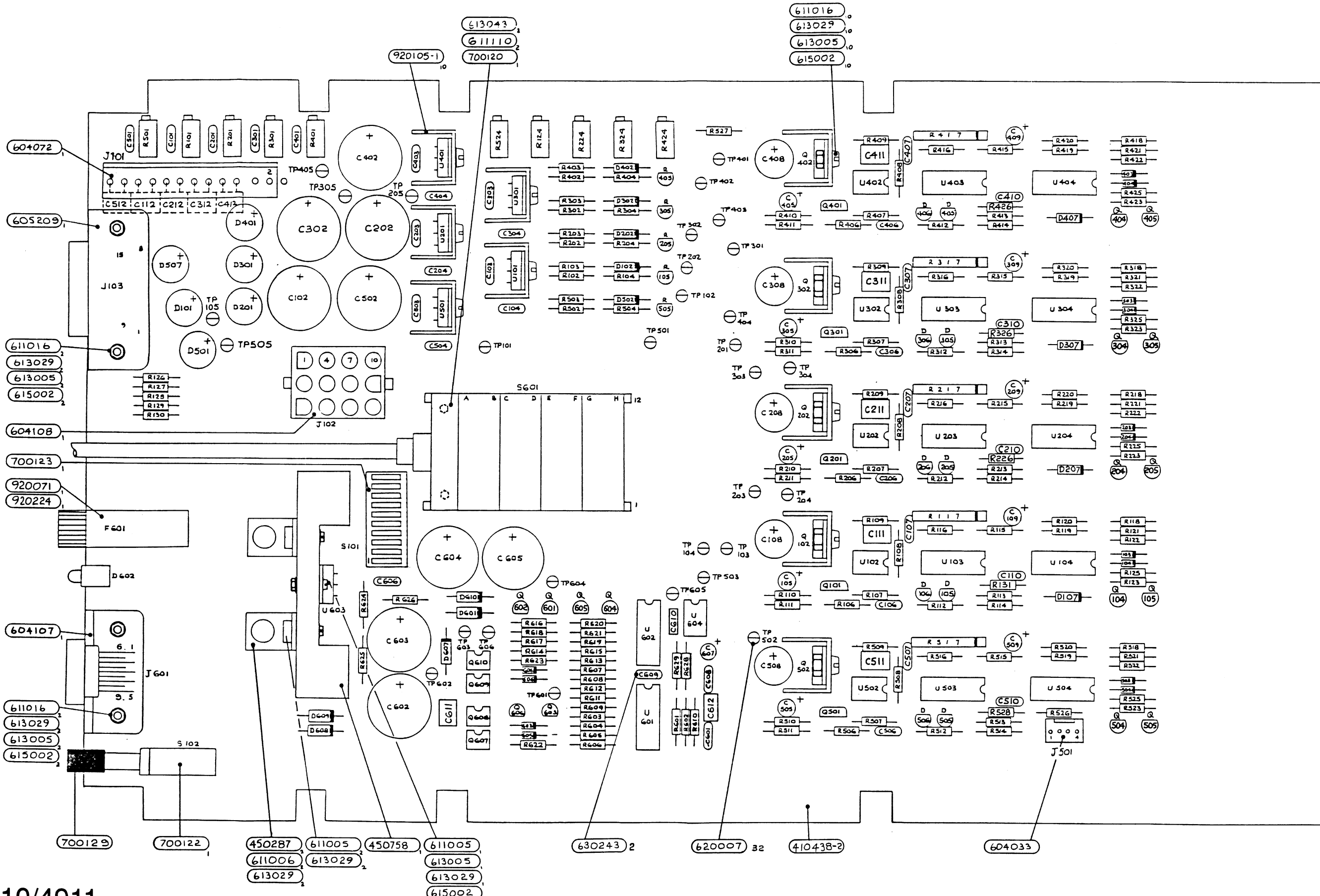


NOTE: SEE SHT. 2 FOR DETAILS OF OTHER HALF OF BOARD ASSY.



MOTHER PCB ASSEMBLY
 Drawing No. DC400878 Sheet 2

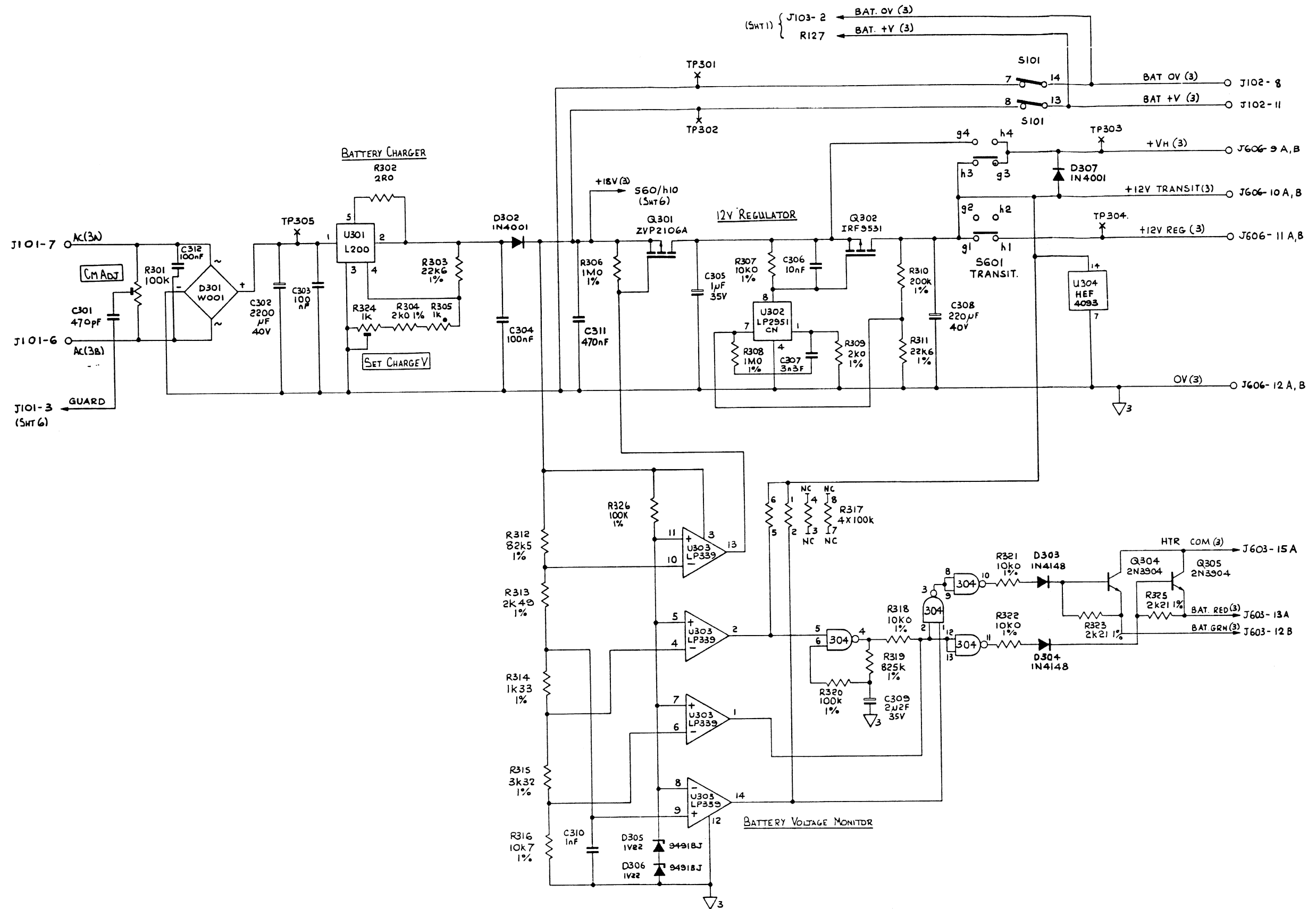
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 WAVETEK
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NOTE: SEE SHT. 2 FOR DETAILS OF OTHER HALF OF BOARD ASSY.

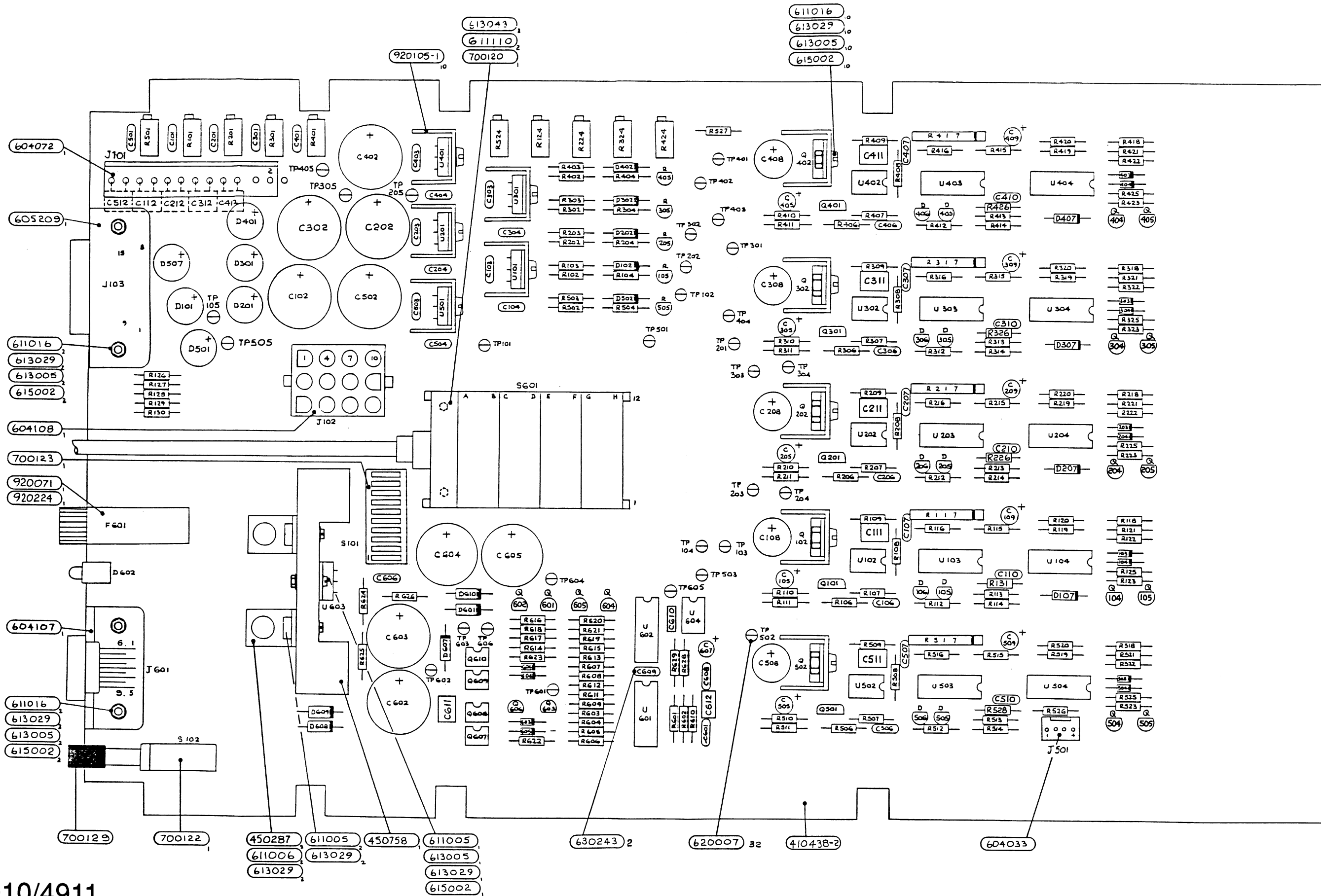


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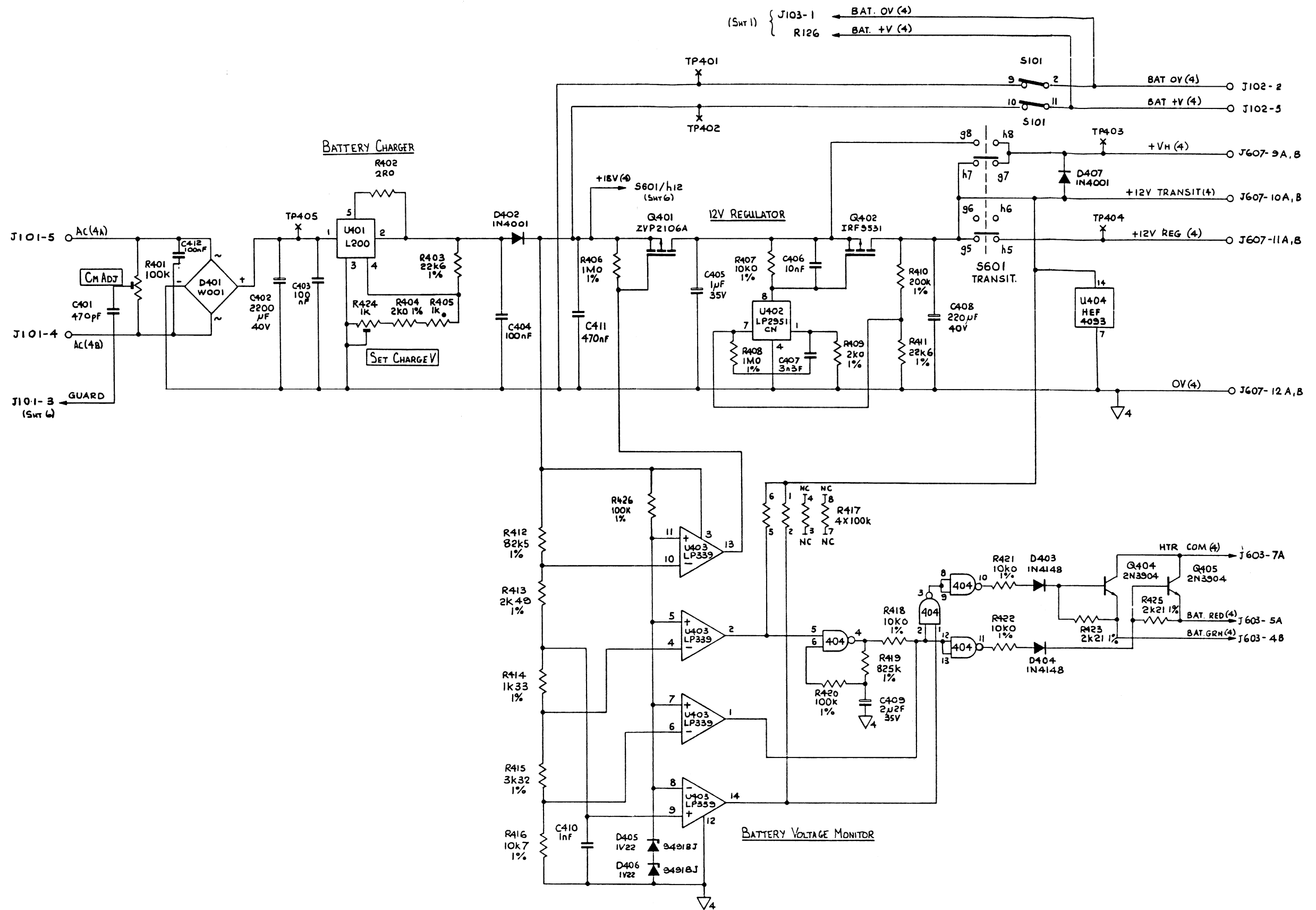


MOTHER PCB ASSEMBLY
 Drawing No. DC400878 Sheet 3

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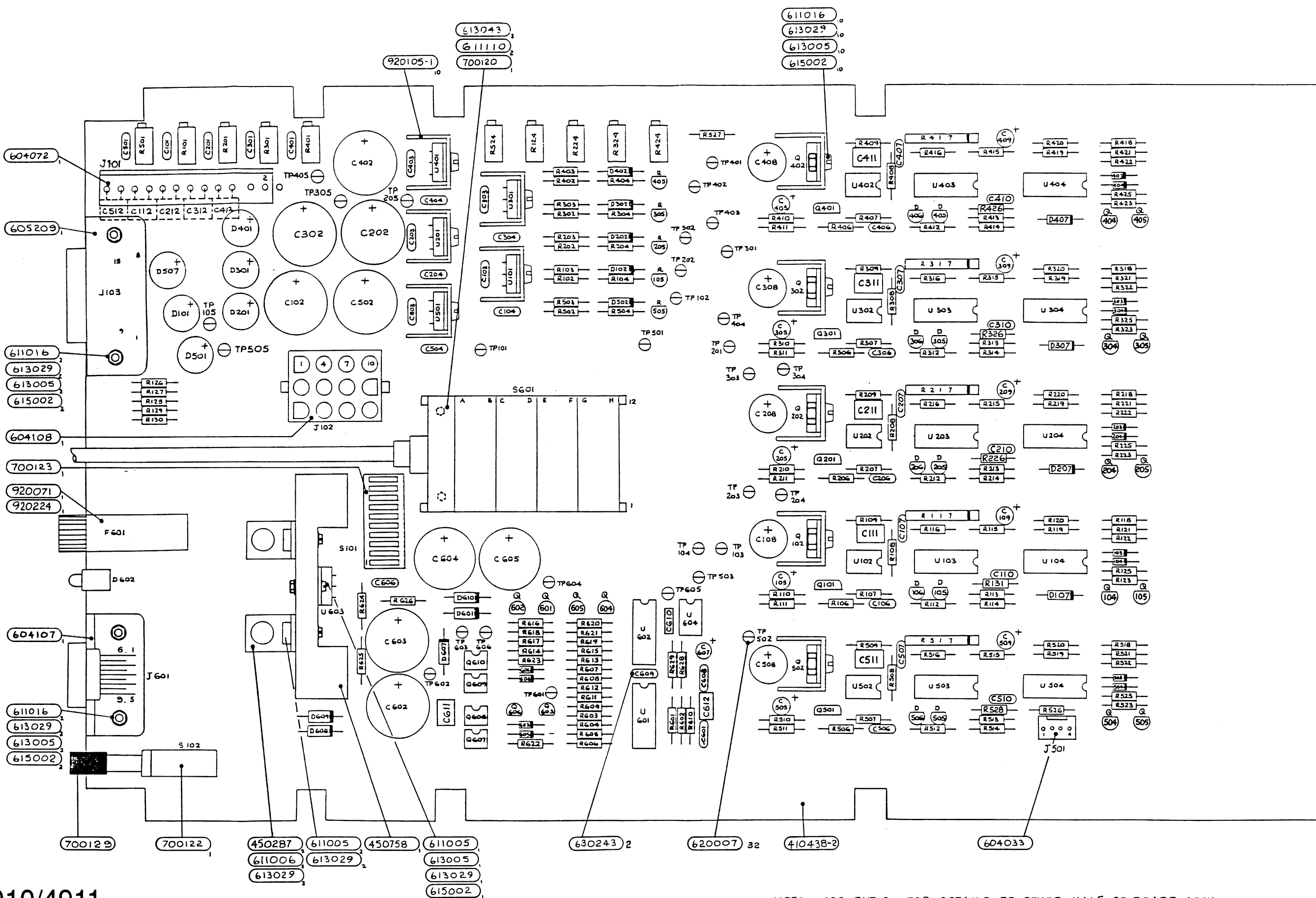
NOTE: SEE SHT. 2 FOR DETAILS OF OTHER HALF OF BOARD ASSY.



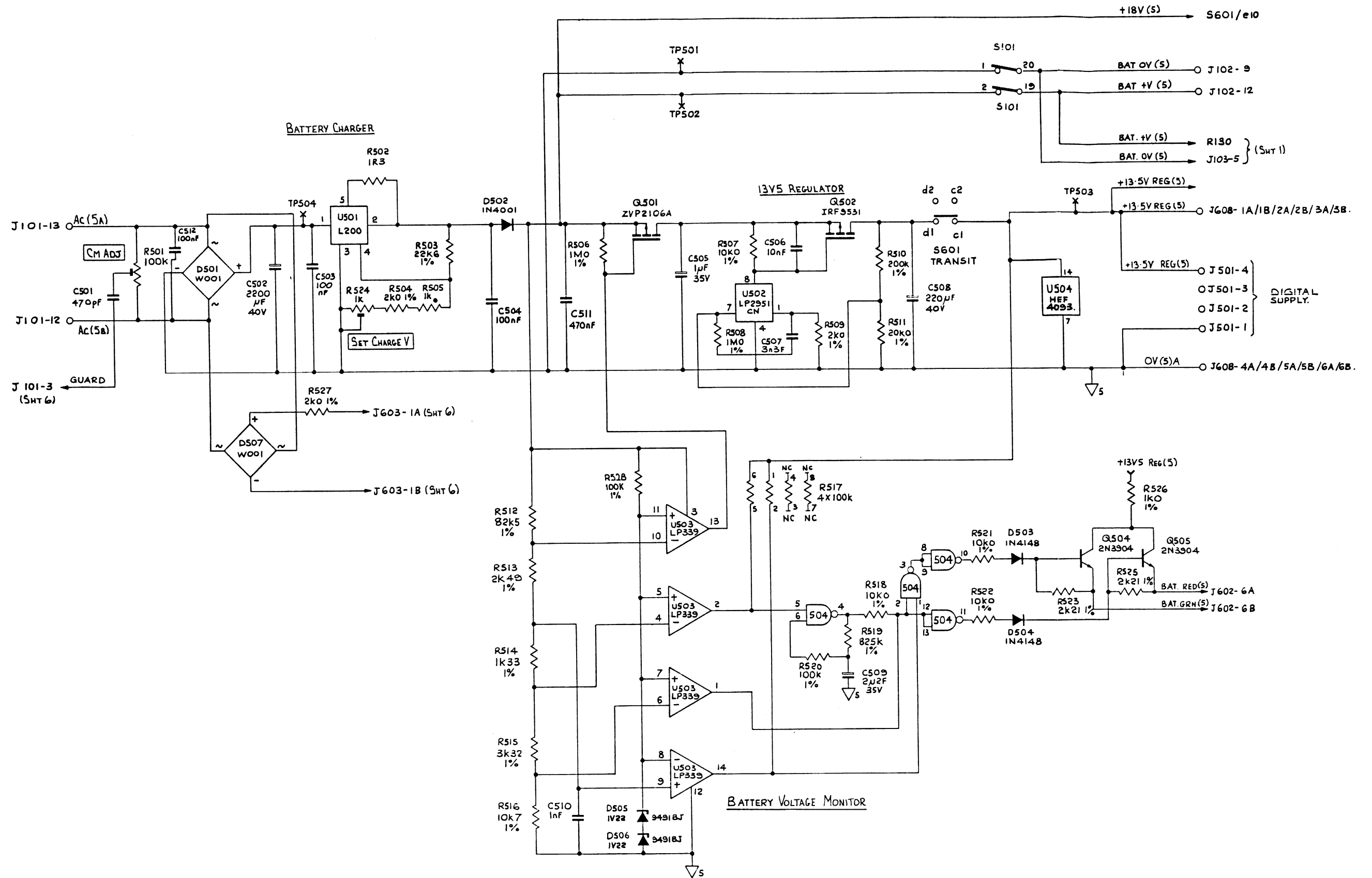
MOTHER PCB ASSEMBLY
 Drawing No. DC400878 Sheet 4

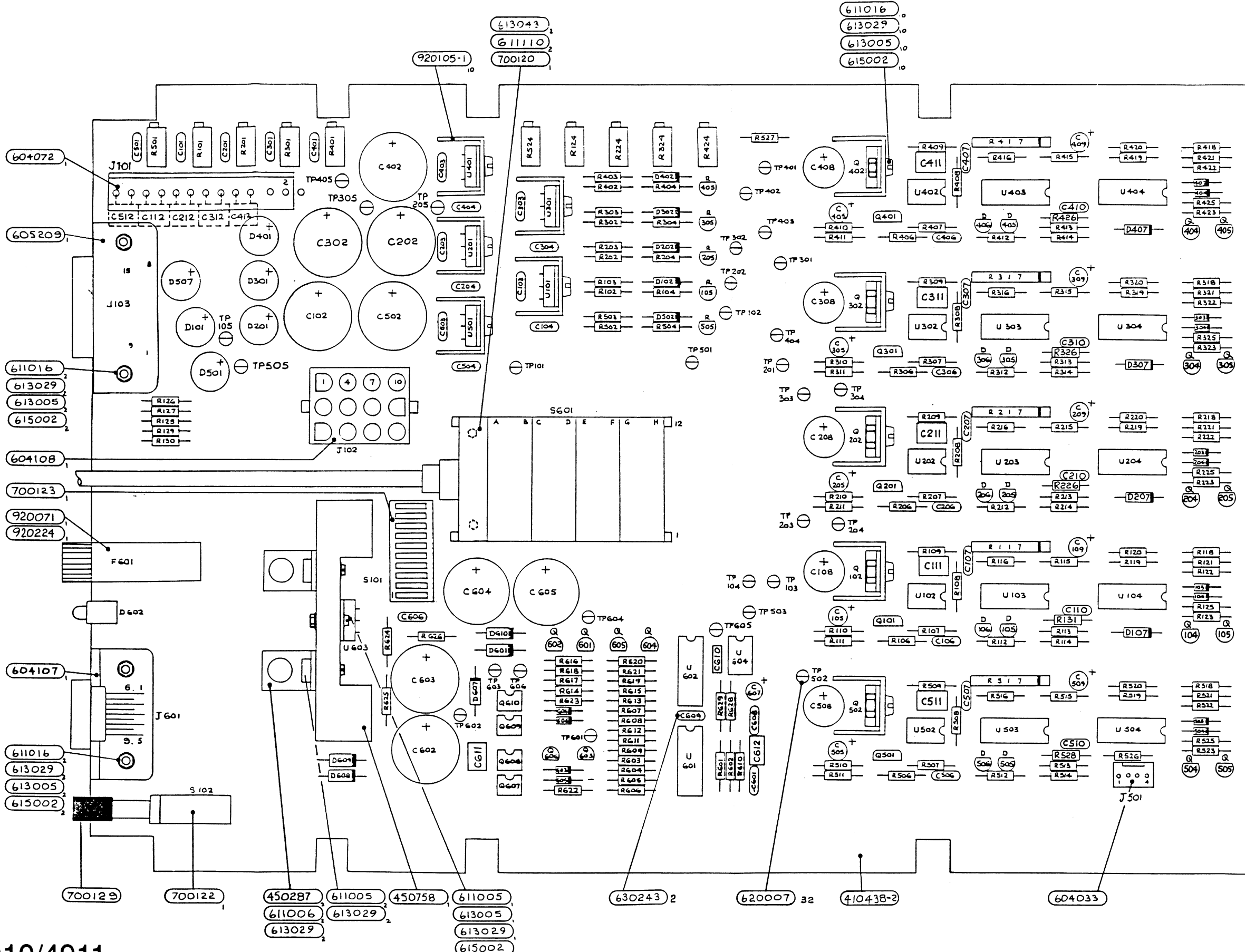


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NOTE: SEE SHT. 2 FOR DETAILS OF OTHER HALF OF BOARD ASSY.





NOTE: SEE SHT. 2 FOR DETAILS OF OTHER HALF OF BOARD ASSY.

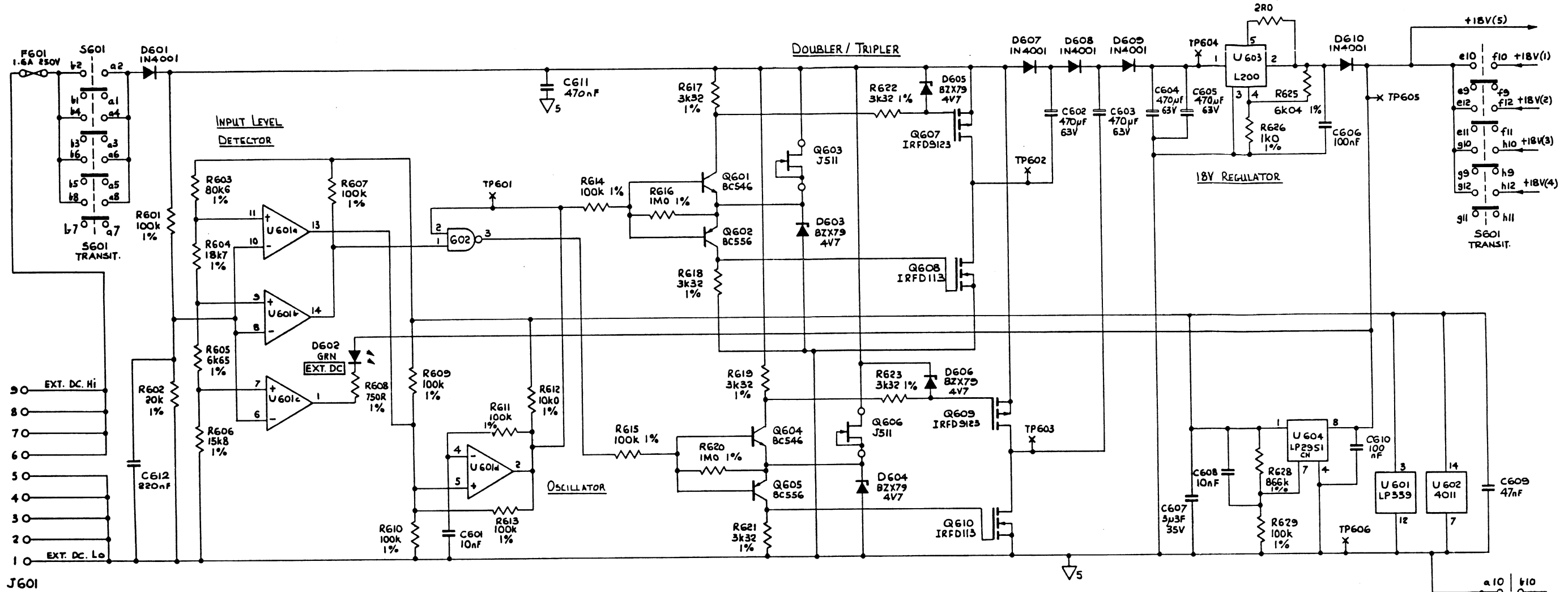


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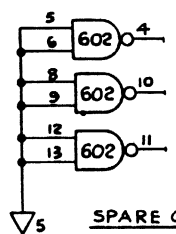
MOTHER PCB ASSEMBLY

Drawing No. DA400878

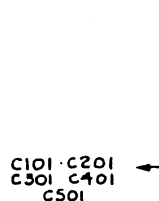
Sheet 1



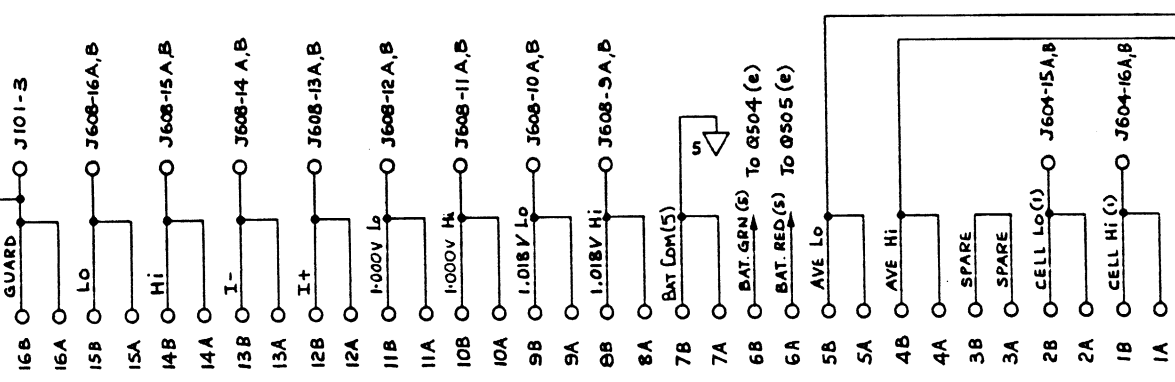
J601



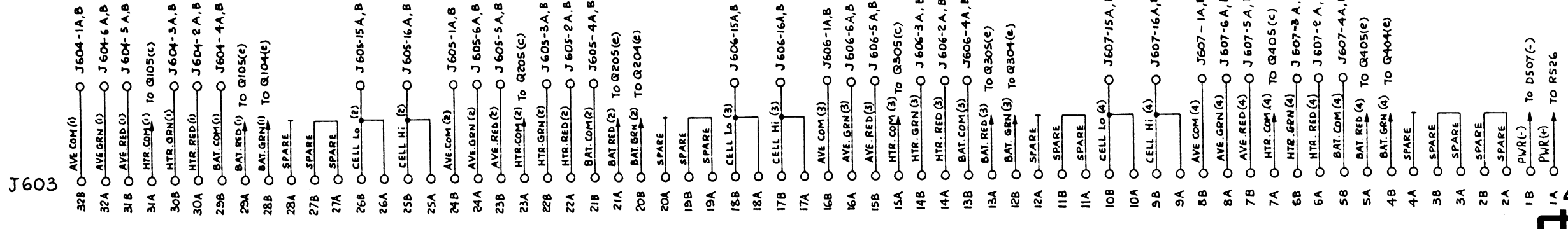
SPARE GATES



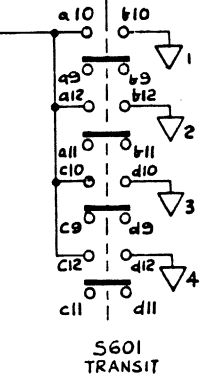
J 602



FRONT PANEL INTERCONNECTIONS




J603



S601 TRANSIT.

MOTHER PCB ASSEMBLY
Drawing No. DC400878 Sheet 6

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DRAWING NO. LD400878		CHK'D																			
DOCUMENT LIST		DATE																			
DISTRIBUTION		ECO																			
		REVISION																			
		ISSUE																			
DESCRIPTION	DRAWING NUMBER	SHEET NUMBER	ISSUE - REVISION																		
PARTS LIST	LP400878	ALL	1.0	1.1	1.2	1.3															
	ASSEMBLY DRAWING	DA400878	1	1.1	1.2	1.3															
	DA400878	2	1.0	1.1	1.2	1.3															
CIRCUIT DIAGRAM	DC400878	1	1.0	1.1	1.2	1.3															
	DC400878	2	1.0	1.1	1.2	1.3															
	DC400878	3	1.0	1.1	1.2	1.3															
	DC400878	4	1.0	1.1	1.2	1.3															
	DC400878	5	1.0	1.1	1.2	1.3															
	DC400878	6	1.0	1.1	1.2	1.3															
TEST PROCEDURE	PT400878	ALL	ND																		
TEST SPECIFICATION																					
PCB	410438	1	2.0																		
NOTES																	DRN <u>11</u> DATE <u>6 APR 89</u>	CHK'D <u>RHC</u> DATE <u>23 JUN 89</u>	APP'D <u>RWF</u> DATE <u>29 JUN 89</u>	TITLE 4910 MOTHER PCB. ASSY	DRAWING No. LD400878 SHEET 1 of 1
<input type="checkbox"/> DENOTES NO CHANGE TO DOCS AT ISSUE LEVEL CHANGE																					

13 DEC 1989

DATRON INSTRUMENTS LTD PARTS LIST 11-Dec-89 DESC: ASSY PCB MOTHER 4910 DRG NO: LP400878-1 REV: 3 PAGE NO: 1

DESIG	PART NO	DESCRIPTION	PRINC MANUF	MANUF PART NUMBER	CLASS	UM	QUANTITY	CHANGES
R101	065017	RES CT 100K VERT M/T	BOURNS	3296X-1-104	A	EA	5	
R102	000208	RES CF 2R0 5% .25W	NEOHM	CFR25	A	EA	5	
R103	012262	RES MF 22K6 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	9	
R104	012001	RES MF 2K00 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	11	
R105	090063	THERMISTOR PTC	PHILIPS	KTY81-120	A	EA	5	
R106	041004	RES MF 1M00 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	12	
R107	011002	RES MF 10K0 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	26	
R108	041004	RES MF 1M00 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R109	012001	RES MF 2K00 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R110	012003	RES MF 200K 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	5	
R111	012262	RES MF 22K6 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R112	018252	RES MF 82K5 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	5	
R113	012491	RES MF 2K49 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	5	
R114	011331	RES MF 1K33 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	5	
R115	013321	RES MF 3K32 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	11	
R116	011072	RES MF 10K7 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	5	
R117	090167	RES PACK 100K X 4 2%	BECKMAN	LO8-3-R100K	A	EA	5	
R118	011002	RES MF 10K0 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R119	048253	RES MF 825K 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	5	
R120	011003	RES MF 100K 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	19	
R121	011002	RES MF 10K0 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R122	011002	RES MF 10K0 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R123	012211	RES MF 2K21 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	10	
R124	065016	RES CT 1K VERT M/T	BOURNS	3296X-1-102	A	EA	5	
R125	012211	RES MF 2K21 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R126	011002	RES MF 10K0 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R127	011002	RES MF 10K0 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R128	011002	RES MF 10K0 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R129	011002	RES MF 10K0 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R130	011002	RES MF 10K0 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R131	011003	RES MF 100K 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R201	065017	RES CT 100K VERT M/T	BOURNS	3296X-1-104	A	EA	-	
R202	000208	RES CF 2R0 5% .25W	NEOHM	CFR25	A	EA	-	
R203	012262	RES MF 22K6 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R204	012001	RES MF 2K00 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R205	090063	THERMISTOR PTC	PHILIPS	KTY81-120	A	EA	-	
R206	041004	RES MF 1M00 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R207	011002	RES MF 10K0 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R208	041004	RES MF 1M00 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R209	012001	RES MF 2K00 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R210	012003	RES MF 200K 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R211	012262	RES MF 22K6 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R212	018252	RES MF 82K5 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R213	012491	RES MF 2K49 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R214	011331	RES MF 1K33 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	

DESIG	PART NO	DESCRIPTION	PRINC MANUF	MANUF PART NUMBER	CLASS	UM	QUANTITY	CHANGES
R215	013321	RES MF 3K32 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R216	011072	RES MF 10K7 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R217	090167	RES PACK 100K X 4 2%	BECKMAN	LO8-3-R100K	A	EA	-	
R218	011002	RES MF 10K0 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R219	048253	RES MF 825K 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R220	011003	RES MF 100K 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R221	011002	RES MF 10K0 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R222	011002	RES MF 10K0 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R223	012211	RES MF 2K21 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R224	065016	RES CT 1K VERT M/T	BOURNS	3296X-1-102	A	EA	-	
R225	012211	RES MF 2K21 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R226	011003	RES MF 100K 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R301	065017	RES CT 100K VERT M/T	BOURNS	3296X-1-104	A	EA	-	
R302	000208	RES CF 2R0 5% .25W	NEOHM	CFR25	A	EA	-	
R303	012262	RES MF 22K6 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R304	012001	RES MF 2K00 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R305	090063	THERMISTOR PTC	PHILIPS	KTY81-120	A	EA	-	
R306	041004	RES MF 1M00 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R307	011002	RES MF 10K0 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R308	041004	RES MF 1M00 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R309	012001	RES MF 2K00 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R310	012003	RES MF 200K 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R311	012262	RES MF 22K6 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R312	018252	RES MF 82K5 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R313	012491	RES MF 2K49 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R314	011331	RES MF 1K33 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R315	013321	RES MF 3K32 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R316	011072	RES MF 10K7 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R317	090167	RES PACK 100K X 4 2%	BECKMAN	LO8-3-R100K	A	EA	-	
R318	011002	RES MF 10K0 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R319	048253	RES MF 825K 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R320	011003	RES MF 100K 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R321	011002	RES MF 10K0 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R322	011902	RES MF 10K0 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R323	012211	RES MF 2K21 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R324	065016	RES CT 1K VERT M/T	BOURNS	3296X-1-102	A	EA	-	
R325	012211	RES MF 2K21 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R326	011003	RES MF 100K 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R401	065017	RES CT 100K VERT M/T	BOURNS	3296X-1-104	A	EA	-	
R402	000208	RES CF 2R0 5% .25W	NEOHM	CFR25	A	EA	-	
R403	012262	RES MF 22K6 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R404	012001	RES MF 2K00 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R405	090063	THERMISTOR PTC	PHILIPS	KTY81-120	A	EA	-	
R406	041004	RES MF 1M00 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R407	011002	RES MF 10K0 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	

DESIG	PART NO	DESCRIPTION	PRINC MANUF	MANUF PART NUMBER	CLASS	UM	QUANTITY	CHANGES
R408	041004	RES MF 1M00 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R409	012001	RES MF 2K00 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R410	012003	RES MF 200K 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R411	012262	RES MF 22K6 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R412	018252	RES MF 82K5 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R413	012491	RES MF 2K49 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R414	011331	RES MF 1K33 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R415	013321	RES MF 3K32 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R416	011072	RES MF 10K7 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R417	090167	RES PACK 100K X 4 2%	BECKMAN	LO8-3-R100K	A	EA	-	
R418	011002	RES MF 10K0 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R419	048253	RES MF 825K 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R420	011003	RES MF 100K 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R421	011002	RES MF 10K0 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R422	011002	RES MF 10K0 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R423	012211	RES MF 2K21 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R424	065016	RES CT 1K VERT M/T	BOURNS	3296X-1-102	A	EA	-	
R425	012211	RES MF 2K21 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R426	011003	RES MF 100K 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R501	065017	RES CT 100K VERT M/T	BOURNS	3296X-1-104	A	EA	-	
R502	000138	RES CF 1R3 5% .25W	NEOHM	CFR25	A	EA	1	
R503	012262	RES MF 22K6 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R504	012001	RES MF 2K00 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R505	090063	THERMISTOR PTC	PHILIPS	KTY81-120	A	EA	-	
R506	041004	RES MF 1M00 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R507	011002	RES MF 10K0 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R508	041004	RES MF 1M00 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R509	012001	RES MF 2K00 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R510	012003	RES MF 200K 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R511	012002	RES MF 20K0 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	2	
R512	018252	RES MF 82K5 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R513	012491	RES MF 2K49 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R514	011331	RES MF 1K33 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R515	013321	RES MF 3K32 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R516	011072	RES MF 10K7 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R517	090167	RES PACK 100K X 4 2%	BECKMAN	LO8-3-R100K	A	EA	-	
R518	011002	RES MF 10K0 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R519	048253	RES MF 825K 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R520	011003	RES MF 100K 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R521	011002	RES MF 10K0 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R522	011002	RES MF 10K0 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R523	012211	RES MF 2K21 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R524	065016	RES CT 1K VERT M/T	BOURNS	3296X-1-102	A	EA	-	
R525	012211	RES MF 2K21 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R526	011001	RES MF 1K00 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	2	

DESIG	PART NO	DESCRIPTION	PRINC MANUF	MANUF PART NUMBER	CLASS	UM	QUANTITY	CHANGES
R527	012001	RES MF 2K00 1% .12W 50PPM	HOLSWORTHY	HBC	A	EA	-	
R528	011003	RES MF 100K 1% .12W 50PPM	HOLSWORTHY	HBC	A	EA	-	
R601	011003	RES MF 100K 1% .12W 50PPM	HOLSWORTHY	HBC	A	EA	-	
R602	012002	RES MF 20K0 1% .12W 50PPM	HOLSWORTHY	HBC	A	EA	-	
R603	010062	RES MF 80K6 1% .12W 50PPM	HOLSWORTHY	HBC	A	EA	1	
R604	011872	RES MF 18K7 1% .12W 50PPM	HOLSWORTHY	HBC	A	EA	1	
R605	016651	RES MF 6K65 1% .12W 50PPM	HOLSWORTHY	HBC	A	EA	1	
R606	011582	RES MF 15K8 1% .12W 50PPM	HOLSWORTHY	HBC	A	EA	1	
R607	011003	RES MF 100K 1% .12W 50PPM	HOLSWORTHY	HBC	A	EA	-	
R608	017500	RES MF 750R 1% .12W 50PPM	HOLSWORTHY	HBC	A	EA	1	
R609	011003	RES MF 100K 1% .12W 50PPM	HOLSWORTHY	HBC	A	EA	-	
R610	011003	RES MF 100K 1% .12W 50PPM	HOLSWORTHY	HBC	A	EA	-	
R611	011003	RES MF 100K 1% .12W 50PPM	HOLSWORTHY	HBC	A	EA	-	
R612	011002	RES MF 10K0 1% .12W 50PPM	HOLSWORTHY	HBC	A	EA	-	
R613	011003	RES MF 100K 1% .12W 50PPM	HOLSWORTHY	HBC	A	EA	-	
R614	011003	RES MF 100K 1% .12W 50PPM	HOLSWORTHY	HBC	A	EA	-	
R615	011003	RES MF 100K 1% .12W 50PPM	HOLSWORTHY	HBC	A	EA	-	
R616	041004	RES MF 1M00 1% .12W 50PPM	HOLSWORTHY	HBC	A	EA	-	
R617	013321	RES MF 3K32 1% .12W 50PPM	HOLSWORTHY	HBC	A	EA	-	
R618	013321	RES MF 3K32 1% .12W 50PPM	HOLSWORTHY	HBC	A	EA	-	
R619	013321	RES MF 3K32 1% .12W 50PPM	HOLSWORTHY	HBC	A	EA	-	
R620	041004	RES MF 1M00 1% .12W 50PPM	HOLSWORTHY	HBC	A	EA	-	
R621	013321	RES MF 3K32 1% .12W 50PPM	HOLSWORTHY	HBC	A	EA	-	
R622	013321	RES MF 3K32 1% .12W 50PPM	HOLSWORTHY	HBC	A	EA	-	
R623	013321	RES MF 3K32 1% .12W 50PPM	HOLSWORTHY	HBC	A	EA	-	
R624	000208	RES CF 2R0 5% .25W	NEOHM	CPR25	A	EA	-	
R625	016041	RES MF 6K04 1% .12W 50PPM	HOLSWORTHY	HBC	A	EA	1	
R626	011001	RES MF 1K00 1% .12W 50PPM	HOLSWORTHY	HBC	A	EA	-	
R628	048663	RES MF 86K6 1% .12W 50PPM	HOLSWORTHY	HBC	A	EA	1	
R629	011003	RES MF 100K 1% .12W 50PPM	HOLSWORTHY	HBC	A	EA	-	
R630	012000	RES MF 200R 1% .12W 50PPM	HOLSWORTHY	HBC	A	EA	4	
R631	012000	RES MF 200R 1% .12W 50PPM	HOLSWORTHY	HBC	A	EA	-	
R632	012000	RES MF 200R 1% .12W 50PPM	HOLSWORTHY	HBC	A	EA	-	
R633	012000	RES MF 200R 1% .12W 50PPM	HOLSWORTHY	HBC	A	EA	-	
C101	102471	CAP CP 470PF 10% 500V	BECK	CD10EM470PMSCR	A	EA	5	
C102	180027	CAP AE 2200UF 40V	STC	SMVB 2200UF/40V		EA	5	
C103	110042	CAP PE 100NF 20% 63V	WIMA	MKS2		EA	17	
C104	110042	CAP PE 100NF 20% 63V	WIMA	MKS2		EA	-	
C105	150016	CAP DT 1UF 20% 35V	AVX	TAP1R0M35P	A	EA	5	
C106	110041	CAP PE 10NF 20% 100V	WIMA	FKS2		EA	7	
C107	110027	CAP PE 3N3F 20% 100V	WIMA	FKS2		EA	5	
C108	180044	CAP AE 220UF 40V	STEATITE	EKMOODE 322G		EA	5	
C109	150022	CAP DT 2U2F 20% 35V	AVX	TAP2R2M35P	A	EA	5	
C110	100102	CAP CP 1NF 10% 100V	PHILIPS	2222 630 19102		EA	5	
C111	110039	CAP PE 470NF 20% 63V	WIMA	MKS2		EA	6	

DESIG	PART NO	DESCRIPTION	PRINC MANUF	MANUF PART NUMBER	CLASS	UM	QUANTITY	CHANGES
C112	110042	CAP PE 100NF 20% 63V	WIMA	MKS2		EA	-	
C201	102471	CAP CP 470PF 10% 500V	BECK	CD10EM470PMSCR	A	EA	-	
C202	180027	CAP AE 2200UF 40V	STC	SMVB 2200UF/40V		EA	-	
C203	110042	CAP PE 100NF 20% 63V	WIMA	MKS2		EA	-	
C204	110042	CAP PE 100NF 20% 63V	WIMA	MKS2		EA	-	
C205	150016	CAP DT 1UF 20% 35V	AVX	TAP1R0M35P	A	EA	-	
C206	110041	CAP PE 10NF 20% 100V	WIMA	FKS2		EA	-	
C207	110027	CAP PE 3N3F 20% 100V	WIMA	FKS2		EA	-	
C208	180044	CAP AE 220UF 40V	STEATITE	EKMOODE 322G		EA	-	
C209	150022	CAP DT 2U2F 20% 35V	AVX	TAP2R2M35P	A	EA	-	
C210	100102	CAP CP 1NF 10% 100V	PHILIPS	2222 630 19102		EA	-	
C211	110039	CAP PE 470NF 20% 63V	WIMA	MKS2		EA	-	
C212	110042	CAP PE 100NF 20% 63V	WIMA	MKS2		EA	-	
C301	102471	CAP CP 470PF 10% 500V	BECK	CD10EM470PMSCR	A	EA	-	
C302	180027	CAP AE 2200UF 40V	STC	SMVB 2200UF/40V		EA	-	
C303	110042	CAP PE 100NF 20% 63V	WIMA	MKS2		EA	-	
C304	110042	CAP PE 100NF 20% 63V	WIMA	MKS2		EA	-	
C305	150016	CAP DT 1UF 20% 35V	AVX	TAP1R0M35P	A	EA	-	
C306	110041	CAP PE 10NF 20% 100V	WIMA	FKS2		EA	-	
C307	110027	CAP PE 3N3F 20% 100V	WIMA	FKS2		EA	-	
C308	180044	CAP AE 220UF 40V	STEATITE	EKMOODE 322G		EA	-	
C309	150022	CAP DT 2U2F 20% 35V	AVX	TAP2R2M35P	A	EA	-	
C310	100102	CAP CP 1NF 10% 100V	PHILIPS	2222 630 19102		EA	-	
C311	110039	CAP PE 470NF 20% 63V	WIMA	MKS2		EA	-	
C312	110042	CAP PE 100NF 20% 63V	WIMA	MKS2		EA	-	
C401	102471	CAP CP 470PF 10% 500V	BECK	CD10EM470PMSCR	A	EA	-	
C402	180027	CAP AE 2200UF 40V	STC	SMVB 2200UF/40V		EA	-	
C403	110042	CAP PE 100NF 20% 63V	WIMA	MKS2		EA	-	
C404	110042	CAP PE 100NF 20% 63V	WIMA	MKS2		EA	-	
C405	150016	CAP DT 1UF 20% 35V	AVX	TAP1R0M35P	A	EA	-	
C406	110041	CAP PE 10NF 20% 100V	WIMA	FKS2		EA	-	
C407	110027	CAP PE 3N3F 20% 100V	WIMA	FKS2		EA	-	
C408	180044	CAP AE 220UF 40V	STEATITE	EKMOODE 322G		EA	-	
C409	150022	CAP DT 2U2F 20% 35V	AVX	TAP2R2M35P	A	EA	-	
C410	100102	CAP CP 1NF 10% 100V	PHILIPS	2222 630 19102		EA	-	
C411	110039	CAP PE 470NF 20% 63V	WIMA	MKS2		EA	-	
C412	110042	CAP PE 100NF 20% 63V	WIMA	MKS2		EA	-	
C501	102471	CAP CP 470PF 10% 500V	BECK	CD10EM470PMSCR	A	EA	-	
C502	180027	CAP AE 2200UF 40V	STC	SMVB 2200UF/40V		EA	-	
C503	110042	CAP PE 100NF 20% 63V	WIMA	MKS2		EA	-	
C504	110042	CAP PE 100NF 20% 63V	WIMA	MKS2		EA	-	
C505	150016	CAP DT 1UF 20% 35V	AVX	TAP1R0M35P	A	EA	-	
C506	110041	CAP PE 10NF 20% 100V	WIMA	FKS2		EA	-	
C507	110027	CAP PE 3N3F 20% 100V	WIMA	FKS2		EA	-	
C508	180044	CAP AE 220UF 40V	STEATITE	EKMOODE 322G		EA	-	

DESIG	PART NO	DESCRIPTION	PRINC MANUF	MANUF PART NUMBER	CLASS	UM	QUANTITY	CHANGES
C509	150022	CAP DT 2U2F 20% 35V	AYX	TAP2R2M35F	A	EA	-	
C510	100102	CAP CP 1NF 10% 100V	PHILLIPS	2222 630 19102		EA	-	
C511	110039	CAP PE 470NF 20% 63V	WIMA	MKS2		EA	-	
C512	110042	CAP PE 100NF 20% 63V	WIMA	MKS2		EA	-	
C601	110041	CAP PE 10NF 20% 100V	WIMA	FKS2		EA	-	
C602	180048	CAP AE 470UF 63V	NIPPON CHEMI-CON	SMVB/470-63		EA	4	
C603	180048	CAP AE 470UF 63V	NIPPON CHEMI-CON	SMVB/470-63		EA	-	
C604	180048	CAP AE 470UF 63V	NIPPON CHEMI-CON	SMVB/470-63		EA	-	
C605	180048	CAP AE 470UF 63V	NIPPON CHEMI-CON	SMVB/470-63		EA	-	
C606	110042	CAP PE 100NF 20% 63V	WIMA	MKS2		EA	-	
C607	150025	CAP DT 3U3F 20% 35V	AVX	TAP3R3M35F	A	EA	1	
C608	110041	CAP PE 10NF 20% 100V	WIMA	FKS2		EA	-	
C609	104026	CAP CM 47NF +80% -20% 50V	AVX	SR175B4732A	A	EA	1	
C610	110042	CAP PE 100NF 20% 63V	WIMA	MKS2		EA	-	
C611	110039	CAP PE 470NF 20% 63V	WIMA	MKS2		EA	-	
C612	110035	CAP PE 220NF 20% 63V	WIMA	MKS2		EA	1	
D101	209003	DIODE BR 1A5 100V	MICRO-ELECTRONICS	W001		EA	6	
D102	200002	DIODE GP 1A 50V	FAIRCHILD	1N4001		EA	14	
D103	200001	DIODE GP 75mA 75V	FAIRCHILD	1N4148		EA	10	
D104	200001	DIODE GP 75mA 75V	FAIRCHILD	1N4148		EA	-	
D105	214014	DIODE ZN 1V22 100PPM	TELEDYNE	9491BJ		EA	10	
D106	214014	DIODE ZN 1V22 100PPM	TELEDYNE	9491BJ		EA	-	
D107	200002	DIODE GP 1A 50V	FAIRCHILD	1N4001		EA	-	
D201	209003	DIODE BR 1A5 100V	MICRO-ELECTRONICS	W001		EA	-	
D202	200002	DIODE GP 1A 50V	FAIRCHILD	1N4001		EA	-	
D203	200001	DIODE GP 75mA 75V	FAIRCHILD	1N4148		EA	-	
D204	200001	DIODE GP 75mA 75V	FAIRCHILD	1N4148		EA	-	
D205	214014	DIODE ZN 1V22 100PPM	TELEDYNE	9491BJ		EA	-	
D206	214014	DIODE ZN 1V22 100PPM	TELEDYNE	9491BJ		EA	-	
D207	200002	DIODE GP 1A 50V	FAIRCHILD	1N4001		EA	-	
D301	209003	DIODE BR 1A5 100V	MICRO-ELECTRONICS	W001		EA	-	
D302	200002	DIODE GP 1A 50V	FAIRCHILD	1N4001		EA	-	
D303	200001	DIODE GP 75mA 75V	FAIRCHILD	1N4148		EA	-	
D304	200001	DIODE GP 75mA 75V	FAIRCHILD	1N4148		EA	-	
D305	214014	DIODE ZN 1V22 100PPM	TELEDYNE	9491BJ		EA	-	
D306	214014	DIODE ZN 1V22 100PPM	TELEDYNE	9491BJ		EA	-	
D307	200002	DIODE GP 1A 50V	FAIRCHILD	1N4001		EA	-	
D401	209003	DIODE BR 1A5 100V	MICRO-ELECTRONICS	W001		EA	-	
D402	200002	DIODE GP 1A 50V	FAIRCHILD	1N4001		EA	-	
D403	200001	DIODE GP 75mA 75V	FAIRCHILD	1N4148		EA	-	
D404	200001	DIODE GP 75mA 75V	FAIRCHILD	1N4148		EA	-	
D405	214014	DIODE ZN 1V22 100PPM	TELEDYNE	9491BJ		EA	-	
D406	214014	DIODE ZN 1V22 100PPM	TELEDYNE	9491BJ		EA	-	
D407	200002	DIODE GP 1A 50V	FAIRCHILD	1N4001		EA	-	
D501	209003	DIODE BR 1A5 100V	MICRO-ELECTRONICS	W001		EA	-	

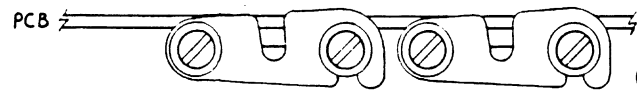
DESIG	PART NO	DESCRIPTION	PRINC MANUF	MANUF PART NUMBER	CLASS	UM	QUANTITY	CHANGES
D502	200002	DIODE GP 1A 50V	FAIRCHILD	1N4001		EA	-	
D503	200001	DIODE GP 75mA 75V	FAIRCHILD	1N4148		EA	-	
D504	200001	DIODE GP 75mA 75V	FAIRCHILD	1N4148		EA	-	
D505	214014	DIODE ZN 1V22 100PPM	TELEDYNE	9491BJ		EA	-	
D506	214014	DIODE ZN 1V22 100PPM	TELEDYNE	9491BJ		EA	-	
D507	209003	DIODE BR 1A5 100V	MICRO-ELECTRONICS	W001		EA	-	
D601	200002	DIODE GP 1A 50V	FAIRCHILD	1N4001		EA	-	
D602	220049	DIODE LE GREEN	H.P.	HLM5050	A	EA	1	
D603	210047	DIODE ZN 4V7 400mW	PHILIPS	BZX79C4V7	A	EA	4	
D604	210047	DIODE ZN 4V7 400mW	PHILIPS	BZX79C4V7	A	EA	-	
D605	210047	DIODE ZN 4V7 400mW	PHILIPS	BZX79C4V7	A	EA	-	
D606	210047	DIODE ZN 4V7 400mW	PHILIPS	BZX79C4V7	A	EA	-	
D607	200002	DIODE GP 1A 50V	FAIRCHILD	1N4001		EA	-	
D608	200002	DIODE GP 1A 50V	FAIRCHILD	1N4001		EA	-	
D609	200002	DIODE GP 1A 50V	FAIRCHILD	1N4001		EA	-	
D610	200002	DIODE GP 1A 50V	FAIRCHILD	1N4001		EA	-	
Q101	230086	TRAN MOSFET P-CHAN 60V	FERRANTI	ZVP2106A	A	EA	5	
Q102	230085	TRAN MOSFET P-CHAN 60V	SILICONIX	IRF9531	A	EA	5	
Q104	240006	TRAN NPN TO92	MOTOROLA	2N3904		EA	10	
Q105	240006	TRAN NPN TO92	MOTOROLA	2N3904		EA	-	
Q201	230086	TRAN MOSFET P-CHAN 60V	FERRANTI	ZVP2106A	A	EA	-	
Q202	230085	TRAN MOSFET P-CHAN 60V	SILICONIX	IRF9531	A	EA	-	
Q204	240006	TRAN NPN TO92	MOTOROLA	2N3904		EA	-	
Q205	240006	TRAN NPN TO92	MOTOROLA	2N3904		EA	-	
Q301	230086	TRAN MOSFET P-CHAN 60V	FERRANTI	ZVP2106A	A	EA	-	
Q302	230085	TRAN MOSFET P-CHAN 60V	SILICONIX	IRF9531	A	EA	-	
Q304	240006	TRAN NPN TO92	MOTOROLA	2N3904		EA	-	
Q305	240006	TRAN NPN TO92	MOTOROLA	2N3904		EA	-	
Q401	230086	TRAN MOSFET P-CHAN 60V	FERRANTI	ZVP2106A	A	EA	-	
Q402	230085	TRAN MOSFET P-CHAN 60V	SILICONIX	IRF9531	A	EA	-	
Q404	240006	TRAN NPN TO92	MOTOROLA	2N3904		EA	-	
Q405	240006	TRAN NPN TO92	MOTOROLA	2N3904		EA	-	
Q501	230086	TRAN MOSFET P-CHAN 60V	FERRANTI	ZVP2106A	A	EA	-	
Q502	230085	TRAN MOSFET P-CHAN 60V	SILICONIX	IRF9531	A	EA	-	
Q504	240006	TRAN NPN TO92	MOTOROLA	2N3904		EA	-	
Q505	240006	TRAN NPN TO92	MOTOROLA	2N3904		EA	-	
Q601	240029	TRAN NPN	MOTOROLA	BC546		EA	2	
Q602	250018	TRAN PNP	MOTOROLA	BC556		EA	2	
Q603	230065	TRAN JFET I LIM 4m7A	SILICONIX	J511		EA	2	
Q604	240029	TRAN NPN	MOTOROLA	BC546		EA	-	
Q605	250018	TRAN PNP	MOTOROLA	BC556		EA	-	
Q606	230065	TRAN JFET I LIM 4m7A	SILICONIX	J511		EA	-	
Q607	230104	TRAN MOSFET P CHAN 60V/0.8A	IR	IRFD9123		EA	2	
Q608	230100	TRAN MOSFET N CHAN 60V 0.8A	IR	IRFD113		EA	2	
Q609	230104	TRAN MOSFET P CHAN 60V/0.8A	IR	IRFD9123		EA	-	

DESIG	PART NO	DESCRIPTION	PRINC MANUF	MANUF PART NUMBER	CLASS	UM	QUANTITY	CHANGES
Q610	230100	TRAN MOSFET N CHAN 60V 0.8A	IR	IRFD113			EA	-
U101	260125	IC LIN REG ADJ VOLTAGE	SGS	L200 CV			EA	6
U102	260126	IC LIN REG ADJ VOLTAGE LP	NATIONAL	LP2951CN			EA	6
U103	260124	IC LIN QUAD ULP COMPARATOR	NATIONAL	LP339N			EA	6
U104	280193	IC DIG NAND2 SCHMITT X4	PHILIPS	HEF4093BP			EA	5
U201	260125	IC LIN REG ADJ VOLTAGE	SGS	L200 CV			EA	-
U202	260126	IC LIN REG ADJ VOLTAGE LP	NATIONAL	LP2951CN			EA	-
U203	260124	IC LIN QUAD ULP COMPARATOR	NATIONAL	LP339N			EA	-
U204	280193	IC DIG NAND2 SCHMITT X4	PHILIPS	HEF4093BP			EA	-
U301	260125	IC LIN REG ADJ VOLTAGE	SGS	L200 CV			EA	-
U302	260126	IC LIN REG ADJ VOLTAGE LP	NATIONAL	LP2951CN			EA	-
U303	260124	IC LIN QUAD ULP COMPARATOR	NATIONAL	LP339N			EA	-
U304	280193	IC DIG NAND2 SCHMITT X4	PHILIPS	HEF4093BP			EA	-
U401	260125	IC LIN REG ADJ VOLTAGE	SGS	L200 CV			EA	-
U402	260126	IC LIN REG ADJ VOLTAGE LP	NATIONAL	LP2951CN			EA	-
U403	260124	IC LIN QUAD ULP COMPARATOR	NATIONAL	LP339N			EA	-
U404	280193	IC DIG NAND2 SCHMITT X4	PHILIPS	HEF4093BP			EA	-
U501	260125	IC LIN REG ADJ VOLTAGE	SGS	L200 CV			EA	-
U502	260126	IC LIN REG ADJ VOLTAGE LP	NATIONAL	LP2951CN			EA	-
U503	260124	IC LIN QUAD ULP COMPARATOR	NATIONAL	LP339N			EA	-
U504	280193	IC DIG NAND2 SCHMITT X4	PHILIPS	HEF4093BP			EA	-
U601	260124	IC LIN QUAD ULP COMPARATOR	NATIONAL	LP339N			EA	-
U602	280008	IC DIG NAND2 X4	MOTOROLA	MC14011BCP			EA	1
U603	260125	IC LIN REG ADJ VOLTAGE	SGS	L200 CV			EA	-
U604	260126	IC LIN REG ADJ VOLTAGE LP	NATIONAL	LP2951CN			EA	-
J101	604072	PLUG PCB 12-WAY .156 GD PL	MOLEX	09-72-2081			EA	1
J102	604108	PLUG PCB 12-WAY	AMP	350433-2			EA	1
J103	605209	SOCKET PCB 15-WAY D	AMP	343706-2			EA	1
J501	604033	PLUG PCB 4-WAY 1"	MOLEX	22-29-2041			EA	1
J601	604107	PLUG PCB 9-WAY D TYPE	AMP	343701-2			EA	1
J602	604106	PLUG PCB 32-WAY	BICC-VERO	905-72216J			EA	1
J603	604105	PLUG PCB 64-WAY (2 X 32)	BICC-VERO	TYPE B 905-72208G			EA	1
J604	605185	SOCKET PCB 32-WAY (2 X 16)	BICC-VERO	905-72270K			EA	5
J605	605185	SOCKET PCB 32-WAY (2 X 16)	BICC-VERO	905-72270K			EA	-
J606	605185	SOCKET PCB 32-WAY (2 X 16)	BICC-VERO	905-72270K			EA	-
J607	605185	SOCKET PCB 32-WAY (2 X 16)	BICC-VERO	905-72270K			EA	-
J608	605185	SOCKET PCB 32-WAY (2 X 16)	BICC-VERO	905-72270K			EA	-
S101	700123	SWITCH 1PST X 10 DIL	HIGHLAND	76SB10			EA	1
S102	700122	SWITCH 4PCO PUSH	RS COMPONENTS	333-732			EA	1
S601	700120-1	SWITCH 24P2W ROTARY	NSP	SEE DRG			EA	1
P601	920071	FUSE 1.6A 250V 20MM F	BESWICK	S501	A		EA	1
	410438-2	PCB MOTHER 4910		SEE DRG			EA	1
	450287-1	BRACKET HEATSINK		SEE DRG			EA	2
	450758-1	HEATSINK MACHINED		SEE DRG			EA	1
	611005	SCREW M3 X 12 POZIPAN SZP					EA	3

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DESIG	PART NO	DESCRIPTION	PRINC MANUF	MANUF PART NUMBER	CLASS	UM	QUANTITY	CHANGES
	611006	SCREW M3 X 10 POZIPAN SZP					EA	2
	611016	SCREW M3 X 8 POZIPAN SZP					EA	14
	611023	SCREW M2.5 X 10 POZIPAN SZP					EA	10
	611096	SCREW M2.5 X 12 POZIPAN SZP					EA	4
	611110	SCREW M2 X 4 POZIPAN SZP					EA	2
	612003-1	STANDOFF M3 X 20	DATRON	SEE DRG			EA	12
	613005	WASHER M3 INT SHAKEPROOF					EA	15
	613029	WASHER M3 WAVY SS					EA	19
	613043	WASHER M2 WAVY SS					EA	2
	613047	WASHER M2.5 WAVY SS					EA	14
	615002	NUT FULL M3 SZP					EA	15
	615006	NUT FULL M2.5 SZP					EA	14
	620007	TEST POINT TERMINAL	MICROVAR	TYPE C30			EA	32
	630243	BEAD GLASS 2.4 X 0.81 X 1.8	MANSOL (PREFORMS) LT	M5363B/3			EA	2
	700129	BUTTON 5MM DIA BK	RS COMPONENTS	333-631			EA	1
	920105-1	HEATSINK TO-202	AAVID	SEE DRG			EA	10
	920224	FUSEHOLDER 20MM PCB					EA	1

End

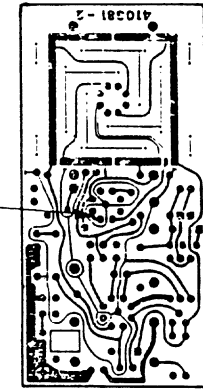


FOLD ALL ETCHED COPPER PARTS
WITH ETCHES INSIDE.

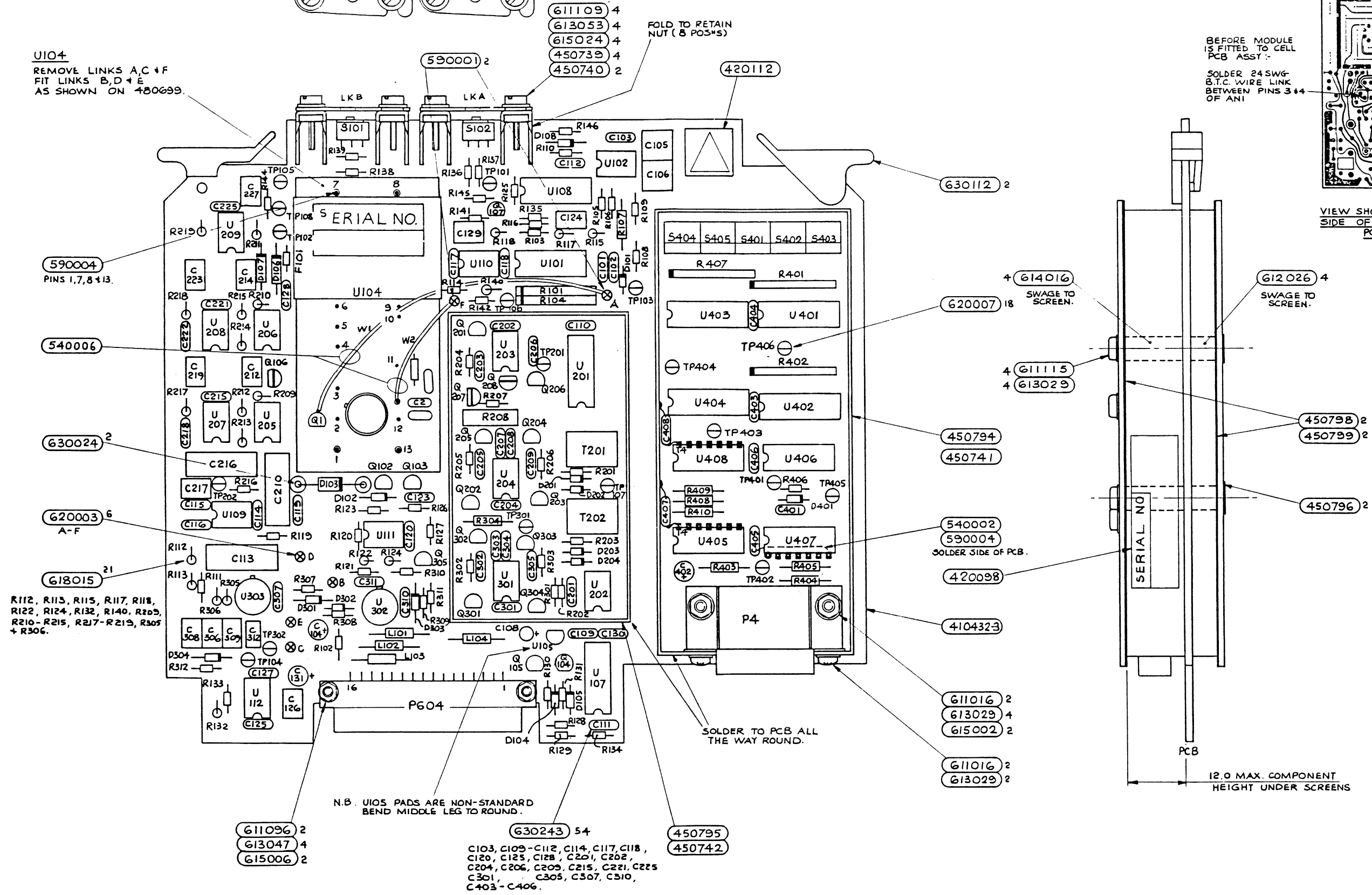
U104
REMOVE LINKS A,C + F
FIT LINKS B,D + E
AS SHOWN ON 480699.

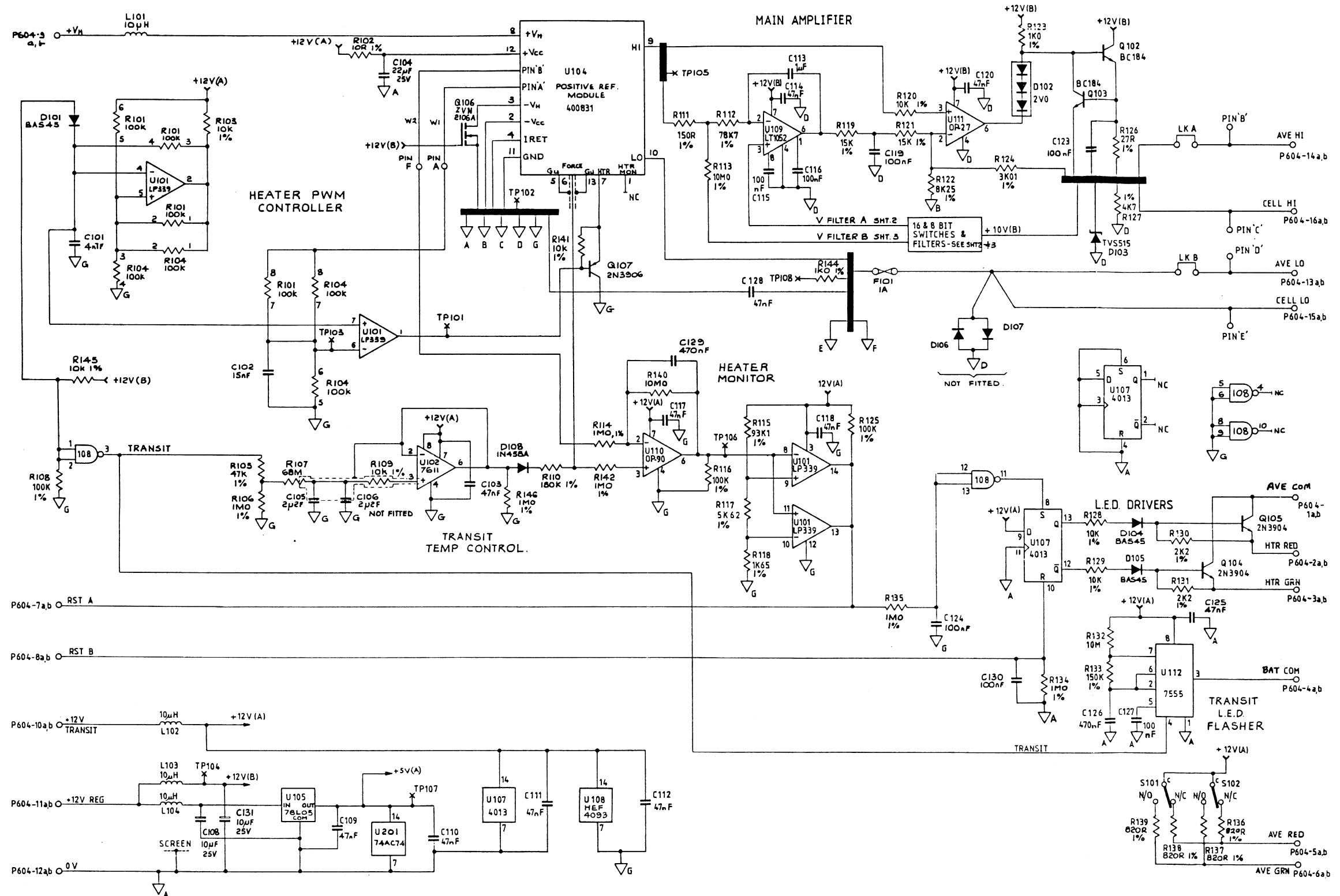
FOLD TO RETAIN
NUT (8 POS*5)

BEFORE MODULE
IS FITTED TO CELL
PCB ASSY:-
SOLDER 24 SWG-
B.T.C. WIRE LINK
BETWEEN PINS 3 + 4
OF AN1



VIEW SHOWING SOLDER
SIDE OF REF. MODULE
PCB.



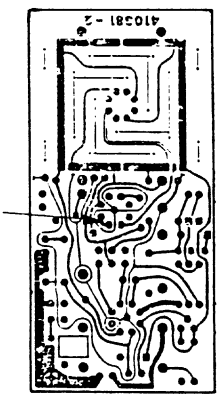


FOLD ALL ETCHED COPPER PARTS
WITH ETCHES INSIDE.

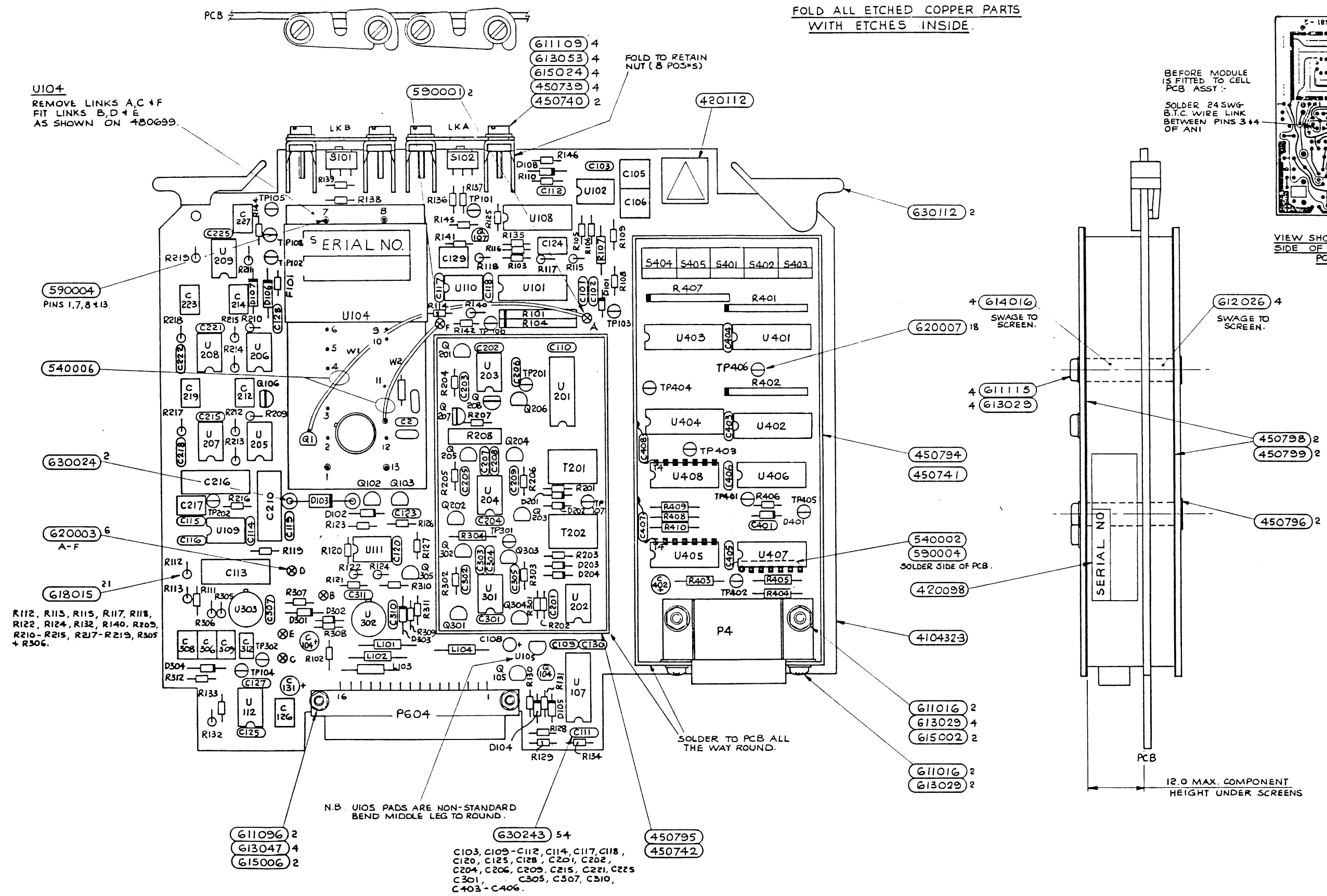
U104
REMOVE LINKS A,C + F
FIT LINKS B,D + E
AS SHOWN ON 480699.

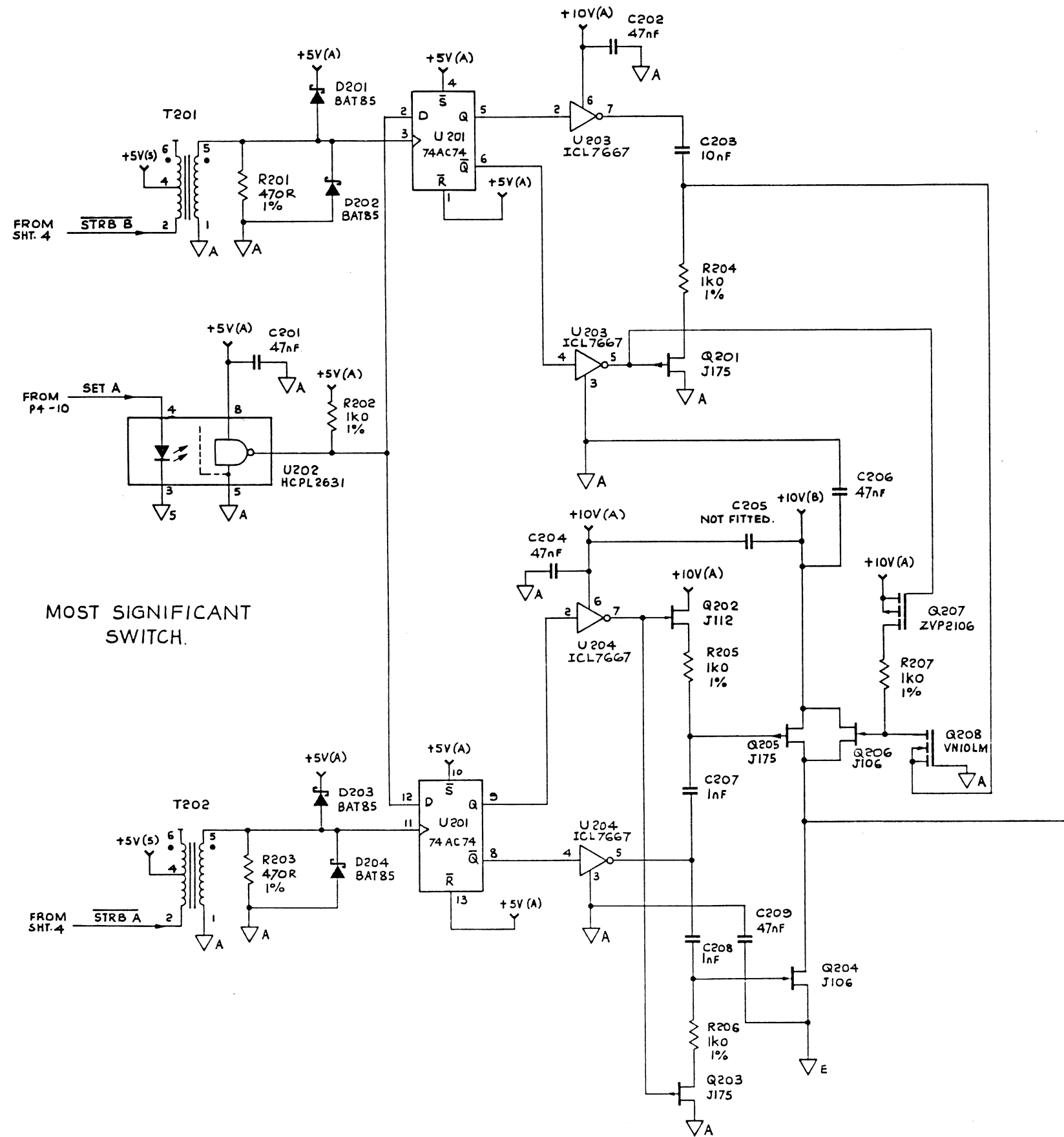
FOLD TO RETAIN
NUT (8 POS'GS)

BEFORE MODULE
IS FITTED TO CELL
PCB ASSTY:-
SOLDER 24 SWG
B.T.C. WIRE LINK
BETWEEN PINS 3 + 4
OF AN1



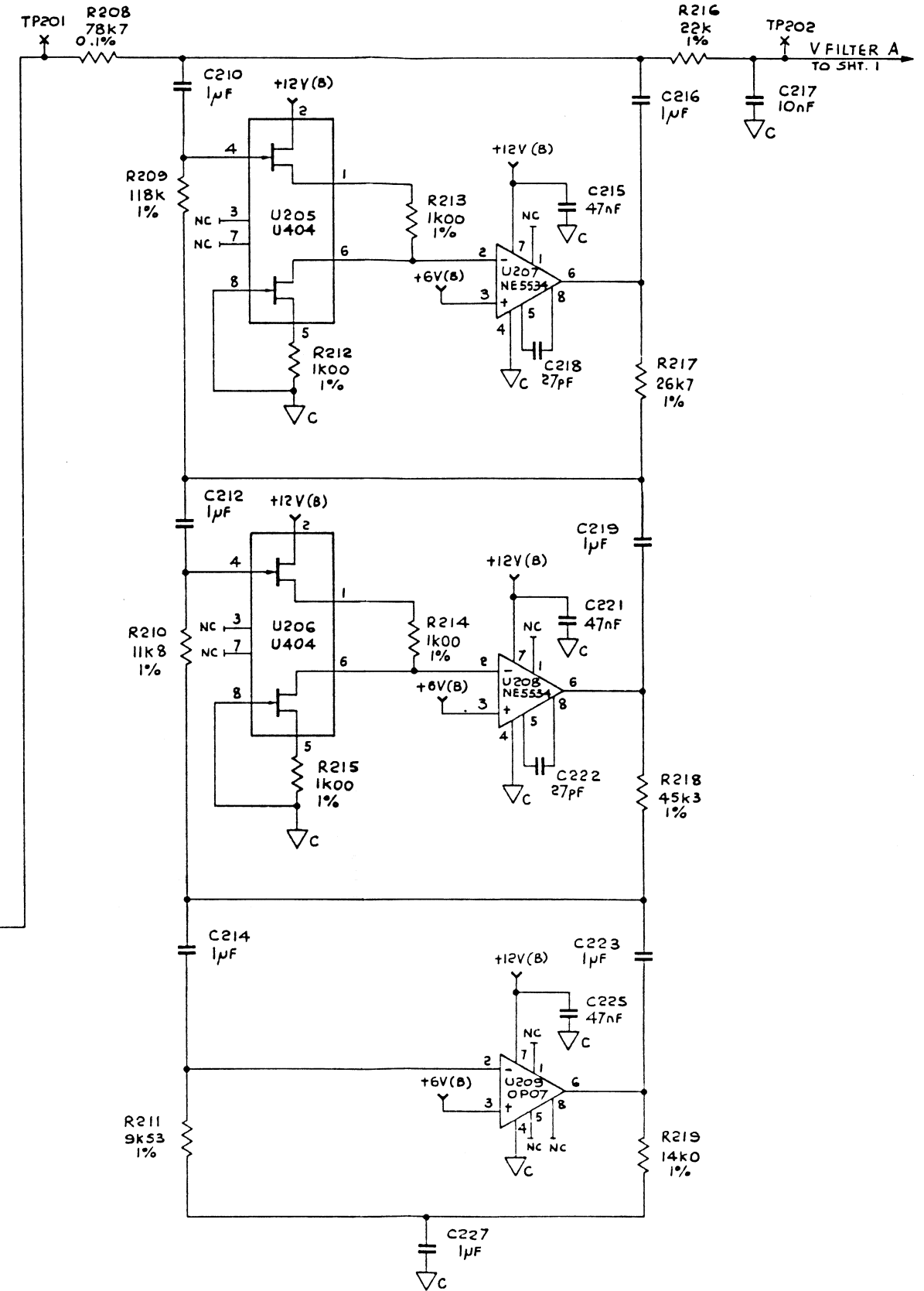
VIEW SHOWING SOLDER
SIDE OF REF. MODULE
PCB.





MOST SIGNIFICANT SWITCH.

7-POLE FILTER.

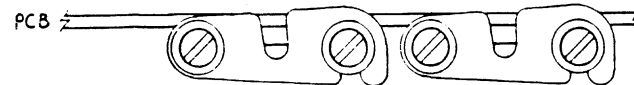


CELL PCB ASSEMBLY

Drawing No. DC400879 Sheet 2



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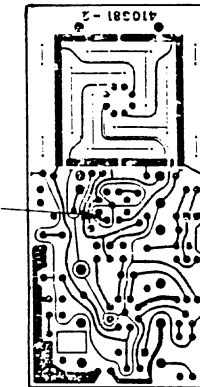
FOLD ALL ETCHED COPPER PARTS
WITH ETCHES INSIDE.

U104
REMOVE LINKS A,C + F
FIT LINKS B,D + E
AS SHOWN ON 480699.

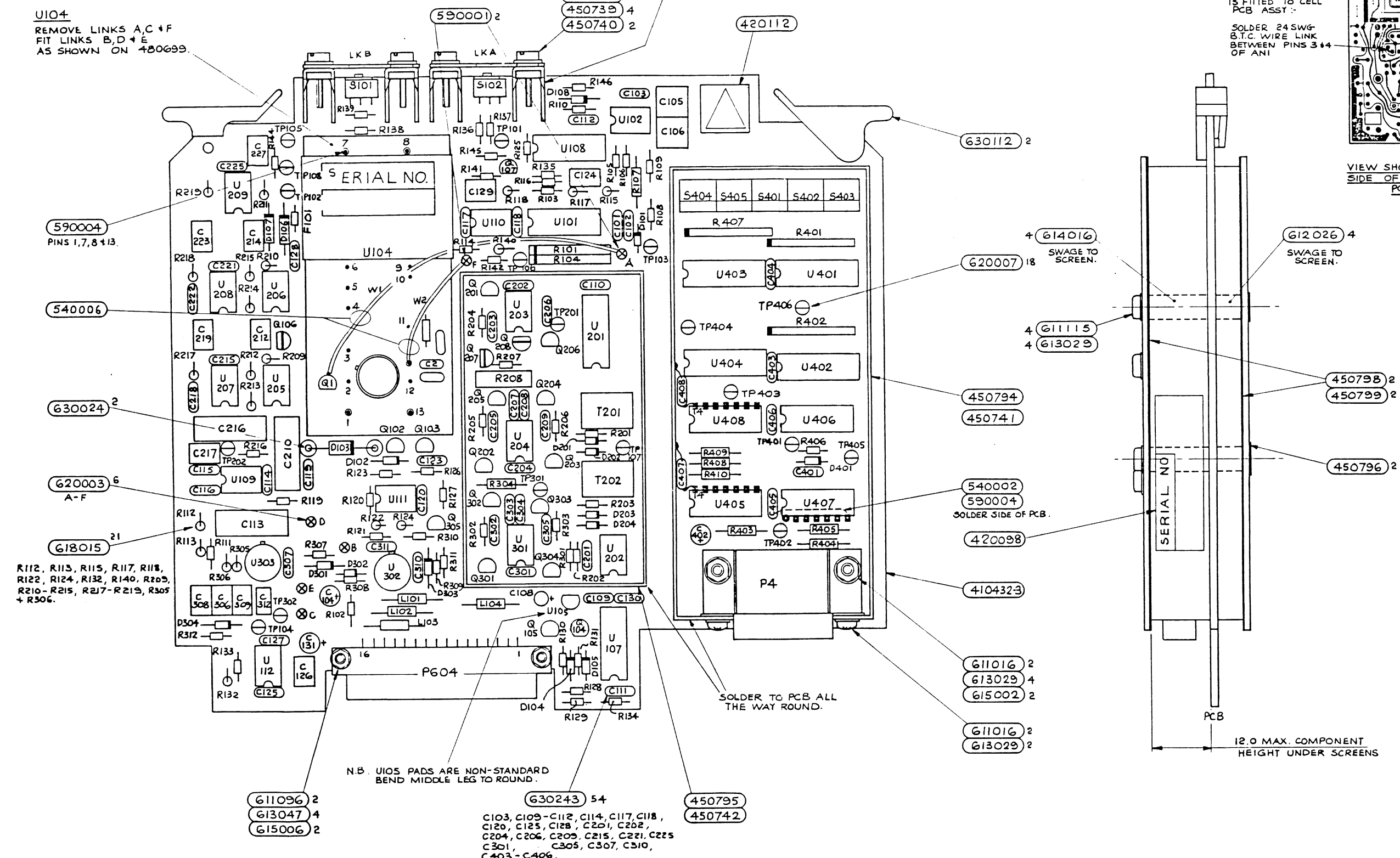
FOLD TO RETAIN
NUT (8 POS*5)

BEFORE MODULE
IS FITTED TO CELL
PCB ASST:-

SOLDER 24 SWG
B.T.C. WIRE LINK
BETWEEN PINS 3 + 4
OF ANI



VIEW SHOWING SOLDER
SIDE OF REF. MODULE
PCB.

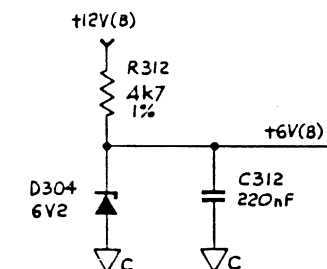
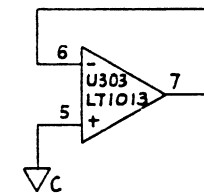
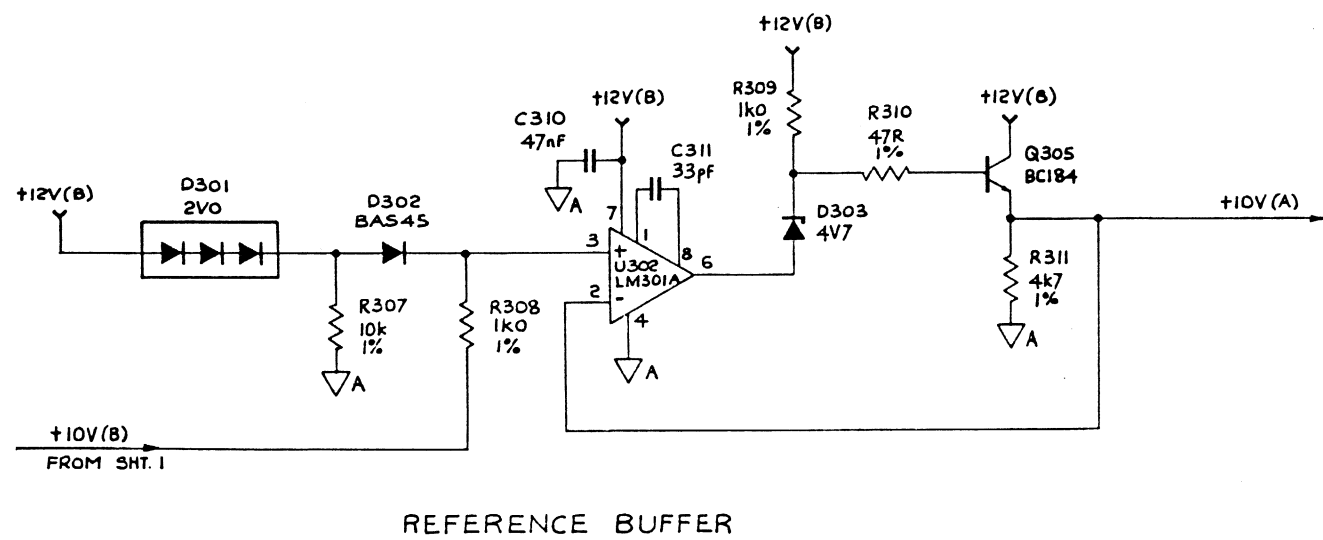
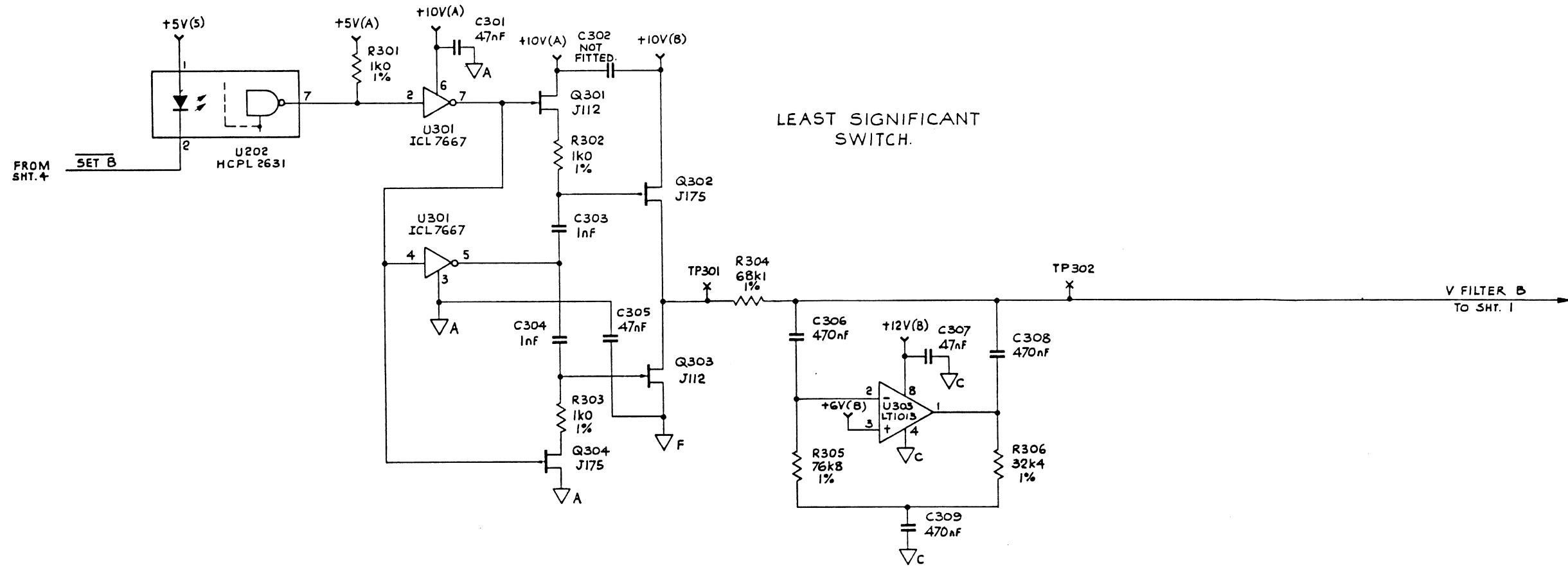


N.B. U105 PADS ARE NON-STANDARD
BEND MIDDLE LEG TO ROUND.

SOLDER TO PCB ALL
THE WAY ROUND.

12.0 MAX. COMPONENT
HEIGHT UNDER SCREENS

N.B. C205 C302 D106 + D107
NOT FITTED.



CELL PCB ASSEMBLY

Drawing No. DC400879 Sheet 3

4910/4911
datron
 WAVETEK

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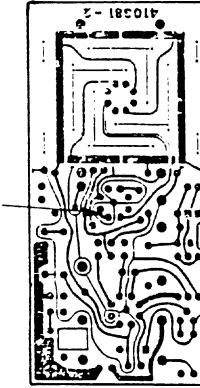
FOLD ALL ETCHED COPPER PARTS
WITH ETCHES INSIDE.

U104
REMOVE LINKS A,C + F
FIT LINKS B,D + E
AS SHOWN ON 480699.

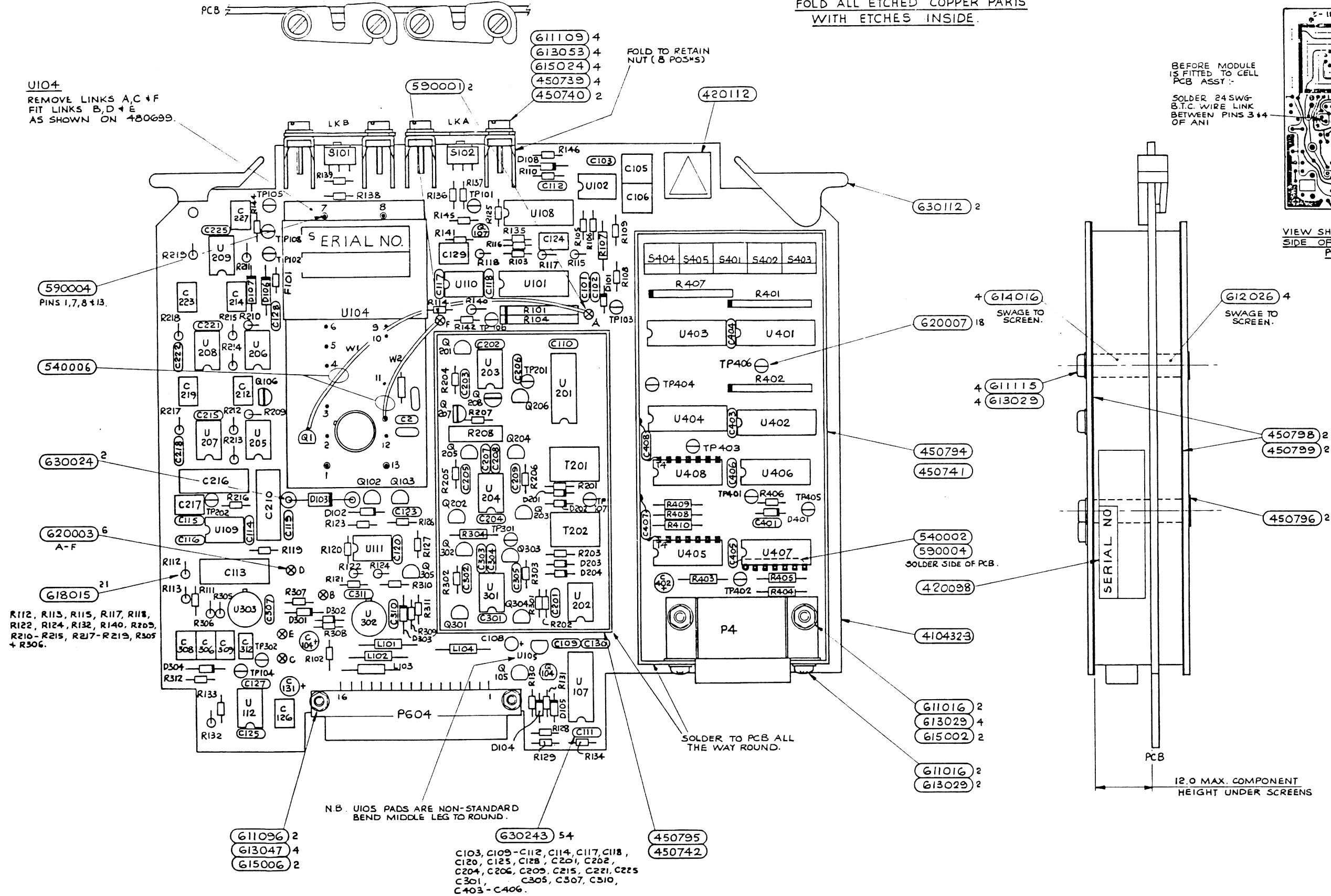
FOLD TO RETAIN
NUT (8 POS*5)

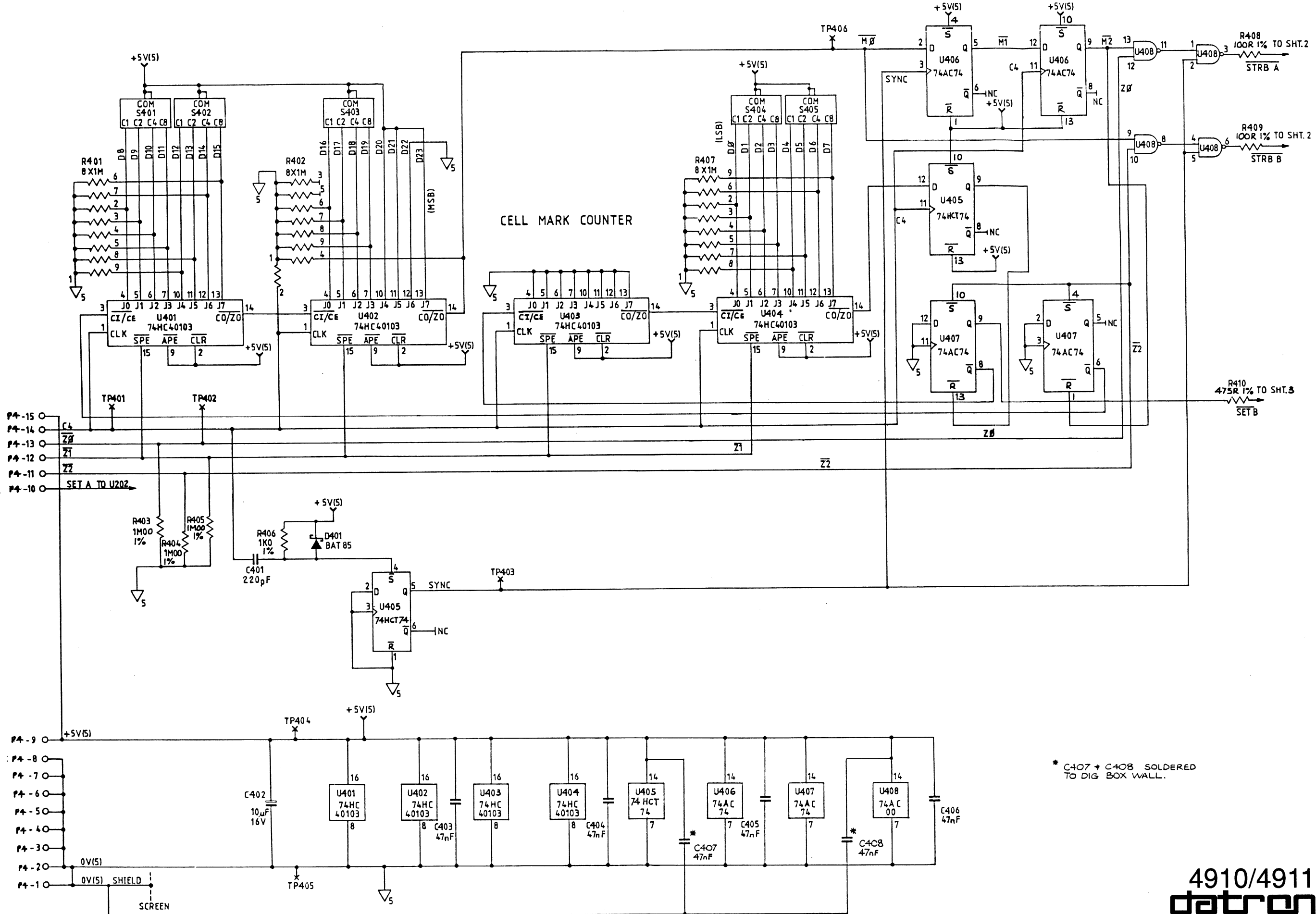
BEFORE MODULE
IS FITTED TO CELL
PCB ASST :-

SOLDER 24 SWG
B.T.C. WIRE LINK
BETWEEN PINS 3 + 4
OF ANI



VIEW SHOWING SOLDER
SIDE OF REF. MODULE
PCB.





* C407 + C408 SOLDERED TO DIG BOX WALL.

CELL PCB ASSEMBLY
 Drawing No. DC400879 Sheet 4



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DESIG	PART NO	DESCRIPTION	PRINC MANUF	MANUF PART NUMBER	CLASS	UM	QUANTITY	CHANGES
R201	050108	RES MF 470R 1% .4W 100PPM	NEOHM	LR0204	A	EA	2	
R202	050112	RES MF 1K0 1% .4W 100PPM	NEOHM	LR0204	A	EA	-	
R203	050108	RES MF 470R 1% .4W 100PPM	NEOHM	LR0204	A	EA	-	
R204	050112	RES MF 1K0 1% .4W 100PPM	NEOHM	LR0204	A	EA	-	
R205	050112	RES MF 1K0 1% .4W 100PPM	NEOHM	LR0204	A	EA	-	
R206	050112	RES MF 1K0 1% .4W 100PPM	NEOHM	LR0204	A	EA	-	
R207	050112	RES MF 1K0 1% .4W 100PPM	NEOHM	LR0204	A	EA	-	
R208	080032	RES MF 78K7 1% 10PPM	VISHAY MANN	V53C-5	A	EA	1	
R209	011183	RES MF 118K 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	1	
R210	011182	RES MF 118R 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	1	
R211	019531	RES MF 9K53 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	1	
R212	011001	RES MF 1K00 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	4	
R213	011001	RES MF 1K00 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R214	011001	RES MF 1K00 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R215	011001	RES MF 1K00 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R216	050128	RES MF 22K 1% .4W 100PPM	NEOHM	LR0204	A	EA	1	
R217	012672	RES MF 26K7 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	1	
R218	014532	RES MF 45K3 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	1	
R219	011402	RES MF 14K0 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	1	
R301	050112	RES MF 1K0 1% .4W 100PPM	NEOHM	LR0204	A	EA	-	
R302	050112	RES MF 1K0 1% .4W 100PPM	NEOHM	LR0204	A	EA	-	
R303	050112	RES MF 1K0 1% .4W 100PPM	NEOHM	LR0204	A	EA	-	
R304	016812	RES MF 68K1 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	1	
R305	017682	RES MF 76K8 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	1	
R306	013242	RES MF 32K4 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	1	
R307	050124	RES MF 10K 1% .4W 100PPM	NEOHM	LR0204	A	EA	-	
R308	050112	RES MF 1K0 1% .4W 100PPM	NEOHM	LR0204	A	EA	-	
R309	050112	RES MF 1K0 1% .4W 100PPM	NEOHM	LR0204	A	EA	-	
R310	050096	RES MF 47R 1% .4W 100PPM	NEOHM	LR0204	A	EA	1	
R311	050120	RES MF 4K7 1% .4W 100PPM	NEOHM	LR0204	A	EA	-	
R312	050120	RES MF 4K7 1% .4W 100PPM	NEOHM	LR0204	A	EA	-	
R401	090096	RES NETWORK X 8 2%	BECKMAN	LO9-1-R1M	A	EA	3	
R402	090096	RES NETWORK X 8 2%	BECKMAN	LO9-1-R1M	A	EA	-	
R403	041004	RES MF 1M00 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	3	
R404	041004	RES MF 1M00 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R405	041004	RES MF 1M00 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R406	050112	RES MF 1K0 1% .4W 100PPM	NEOHM	LR0204	A	EA	-	
R407	090096	RES NETWORK X 8 2%	BECKMAN	LO9-1-R1M	A	EA	-	
R408	011000	RES MF 100R 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	2	
R409	011000	RES MF 100R 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	-	
R410	014750	RES MF 475R 1% .12W 50PPM	HOLSWORTHY	H8C	A	EA	1	
C101	100472	CAP CP 4N7F 10% 100V	PHILIPS	2222 630 19472	A	EA	1	
C102	110015	CAP PE 15NF 20% 63V	WIMA	MKS2	A	EA	1	
C103	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A	EA	29	
C104	150021	CAP DT 22UF 20% 25V	AVX	TAP22M25F	A	EA	1	

DESIG	PART NO	DESCRIPTION	PRINC MANUF	MANUF PART NUMBER	CLASS	UM	QUANTITY	CHANGES
C105	110066	CAP PE 202F 20% 50V	WIMA	MKS2	A	EA	1	
C106	00000N	NOT FITTED						EA 5
C108	150020	CAP DT 100F 20% 25V	AVX	TAP10M25F	A	EA	2	
C109	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A	EA	-	
C110	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A	EA	-	
C111	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A	EA	-	
C112	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A	EA	-	
C113	120019	CAP PC 10F 10% 63V	ASHCROFT	M2B10201B	A	EA	3	
C114	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A	EA	-	
C115	110042	CAP PE 100NF 20% 63V	WIMA	MKS2	A	EA	7	
C116	110042	CAP PE 100NF 20% 63V	WIMA	MKS2	A	EA	-	
C117	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A	EA	-	
C118	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A	EA	-	
C119	110042	CAP PE 100NF 20% 63V	WIMA	MKS2	A	EA	-	
C120	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A	EA	-	
C123	110042	CAP PE 100NF 20% 63V	WIMA	MKS2	A	EA	-	
C124	110042	CAP PE 100NF 20% 63V	WIMA	MKS2	A	EA	-	
C125	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A	EA	-	
C126	110039	CAP PE 470NF 20% 63V	WIMA	MKS2	A	EA	5	
C127	110042	CAP PE 100NF 20% 63V	WIMA	MKS2	A	EA	-	
C128	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A	EA	-	
C129	110039	CAP PE 470NF 20% 63V	WIMA	MKS2	A	EA	-	
C130	110042	CAP PE 100NF 20% 63V	WIMA	MKS2	A	EA	-	
C131	150020	CAP DT 100F 20% 25V	AVX	TAP10M25F	A	EA	-	
C201	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A	EA	-	
C202	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A	EA	-	
C203	110041	CAP PE 10NF 20% 100V	WIMA	PKS2	A	EA	1	
C204	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A	EA	-	
C205	00000N	NOT FITTED						EA 1
C206	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A	EA	-	
C207	110030	CAP PE 1NF 20% 100V	WIMA	PKS2	A	EA	4	
C208	110030	CAP PE 1NF 20% 100V	WIMA	PKS2	A	EA	-	
C209	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A	EA	-	
C210	120019	CAP PC 10F 10% 63V	ASHCROFT	M2B10201B	A	EA	-	
C212	110046	CAP PE 10F 20% 50V	WIMA	MKS2 10F 20% 50V	A	EA	5	
C214	110046	CAP PE 10F 20% 50V	WIMA	MKS2 10F 20% 50V	A	EA	-	
C215	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A	EA	-	
C216	120019	CAP PC 10F 10% 63V	ASHCROFT	M2B10201B	A	EA	-	
C217	140086	CAP PE 10NF 5% 63V	WIMA	PKS2	A	EA	1	
C218	100270	CAP CP 27PF 2% 100V	PHILIPS	2222 683 34279	A	EA	2	
C219	110046	CAP PE 10F 20% 50V	WIMA	MKS2 10F 20% 50V	A	EA	-	
C221	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A	EA	-	
C222	100270	CAP CP 27PF 2% 100V	PHILIPS	2222 683 34279	A	EA	-	
C223	110046	CAP PE 10F 20% 50V	WIMA	MKS2 10F 20% 50V	A	EA	-	
C225	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A	EA	-	

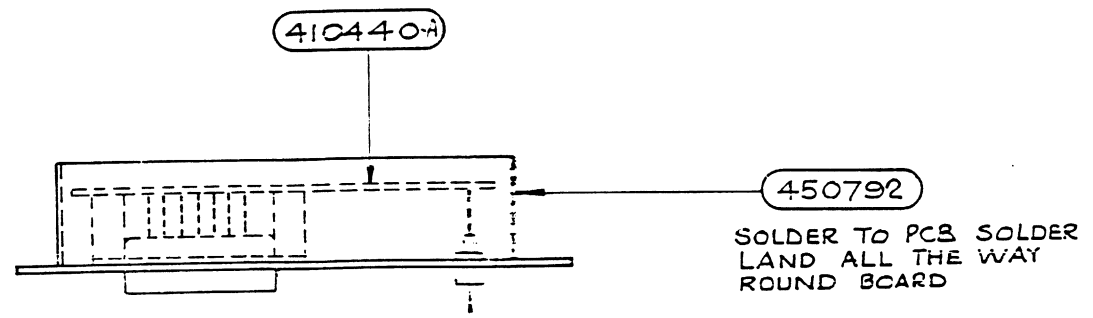
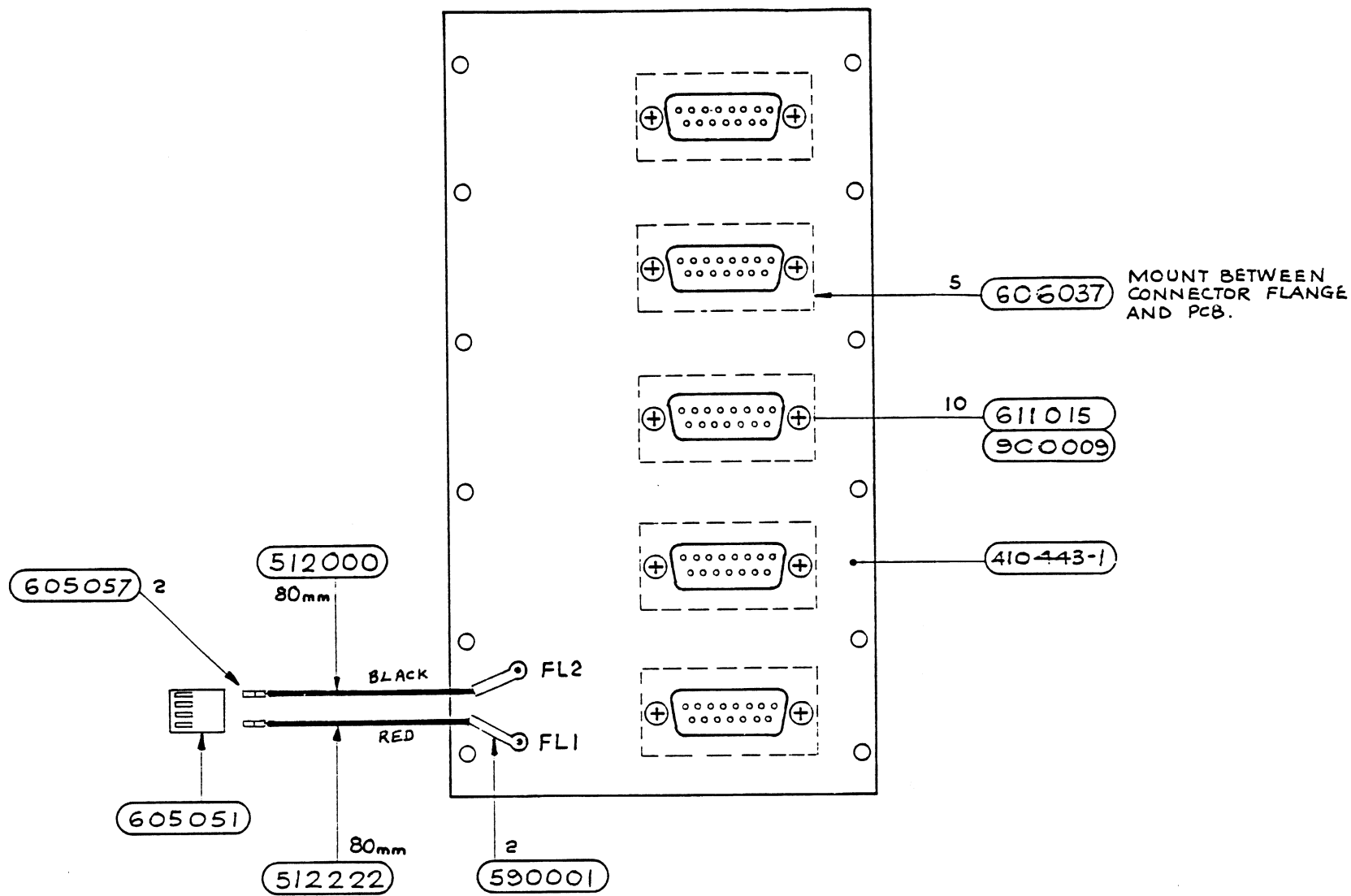
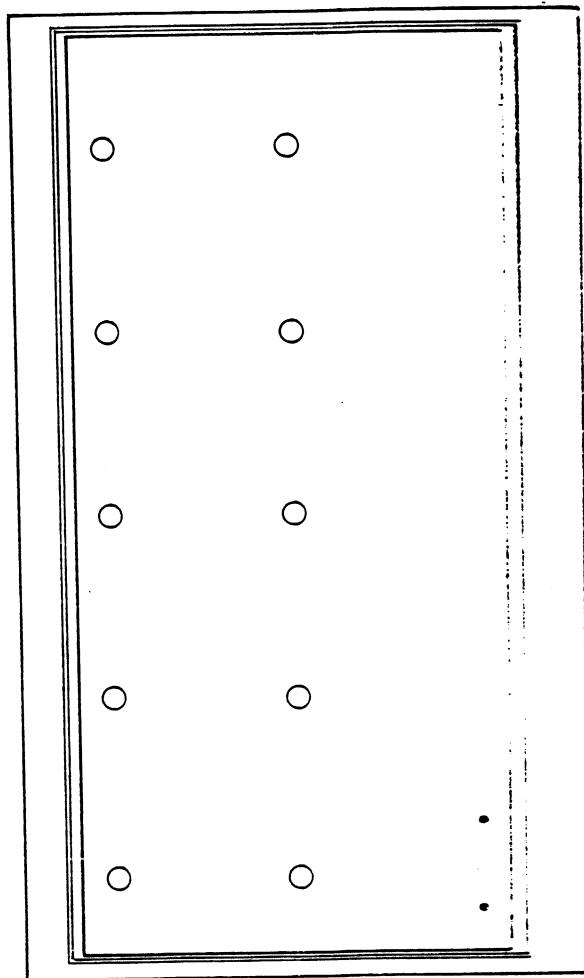
DESIG	PART NO	DESCRIPTION	PRINC MANUF	MANUF PART NUMBER	CLASS UM	QUANTITY	CHANGES
C227	110046	CAP PE 10UF 20% 50V	WIMA	MKS2 10UF 20% 50V	A	EA	-
C301	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E4732A	A	EA	-
C302	000000	NOT FITTED				EA	-
C303	110030	CAP PE 1NF 20% 100V	WIMA	FKS2		EA	-
C304	110030	CAP PE 1NF 20% 100V	WIMA	FKS2		EA	-
C305	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E4732A	A	EA	-
C306	110039	CAP PE 470NF 20% 63V	WIMA	MKS2		EA	-
C307	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E4732A	A	EA	-
C308	110039	CAP PE 470NF 20% 63V	WIMA	MKS2		EA	-
C309	110039	CAP PE 470NF 20% 63V	WIMA	MKS2		EA	-
C310	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E4732A	A	EA	-
C311	100330	CAP CP 33PF ±% 100V	PHILIPS	2222 683 34339		EA 1	-
C312	110035	CAP PE 220NF 20% 63V	WIMA	MKS2		EA 1	-
C401	106221	CAP CP 220PF 2% 100V	PHILIPS	2222 683 58221		EA 1	-
C402	150002	CAP DT 10UF 20% 16V	AVX	TAP10M16F	A	EA 1	-
C403	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E4732A	A	EA	-
C404	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E4732A	A	EA	-
C405	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E4732A	A	EA	-
C406	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E4732A	A	EA	-
C407	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E4732A	A	EA	-
C408	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E4732A	A	EA	-
D101	200025	DIODE LL 450mA 125V	PHILIPS	BAS45		EA 4	-
D102	213012	DIODE VR 2V0 250mW	PHILIPS	BZV86-2V0		EA 2	-
D103	213009	DIODE TS 15V 5/500W	UNITRODE	TVS515	A	EA 1	-
D104	200025	DIODE LL 450mA 125V	PHILIPS	BAS45		EA	-
D105	200025	DIODE LL 450mA 125V	PHILIPS	BAS45		EA	-
D106	000000	NOT FITTED				EA	-
D107	000000	NOT FITTED				EA	-
D108	200008	DIODE GP 200mA 125V	FAIRCHILD	1N458A	A	EA 1	-
D201	200005	DIODE SB 200mA 30V	PHILIPS	BAT85		EA 5	-
D202	200005	DIODE SB 200mA 30V	PHILIPS	BAT85		EA	-
D203	200005	DIODE SB 200mA 30V	PHILIPS	BAT85		EA	-
D204	200005	DIODE SB 200mA 30V	PHILIPS	BAT85		EA	-
D301	213012	DIODE VR 2V0 250mW	PHILIPS	BZV86-2V0		EA	-
D302	200025	DIODE LL 450mA 125V	PHILIPS	BAS45		EA	-
D303	210047	DIODE ZN 4V7 400mW	PHILIPS	BZX79CAV7	A	EA 1	-
D304	210062	DIODE ZN 6V2 400mW	PHILIPS	BZX79C6V2	A	EA 1	-
D401	200005	DIODE SB 200mA 30V	PHILIPS	BAT85		EA	-
Q102	240001	TRAN NPN	MOTOROLA	BC184		EA 3	-
Q103	240001	TRAN NPN	MOTOROLA	BC184		EA	-
Q104	240006	TRAN NPN T092	MOTOROLA	2N3904		EA 2	-
Q105	240006	TRAN NPN T092	MOTOROLA	2N3904		EA	-
Q106	230096	TRAN MOSFET N CHAN 60V	FERRANTI	ZYN2106A		EA 1	-
Q107	250004	TRAN PNP T092	MOTOROLA	2N3906		EA 1	-
Q201	230039	TRAN JFET P CHAN	SILICONIX	J175		EA 5	-

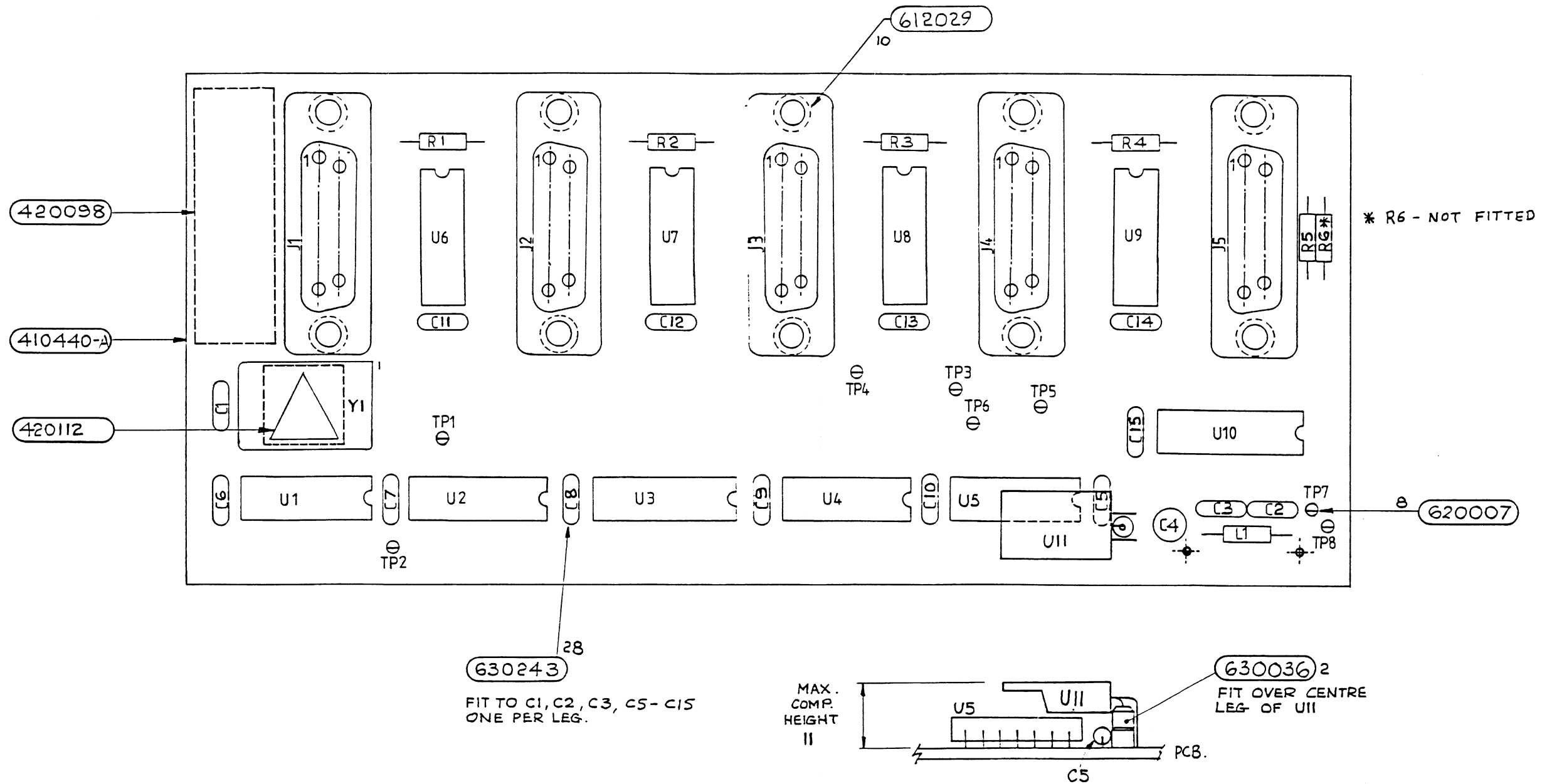
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Q202	230038	TRAN JFET N-CHAN	SILICONIX	J112		EA 3	-
Q203	230039	TRAN JFET P CHAN	SILICONIX	J175		EA	-
Q204	239087-1	TRAN JFET SET J106 X 2	DATRON	SEE DRG		S2 1	-
Q205	230039	TRAN JFET P CHAN	SILICONIX	J175		EA	-
Q206	239087-1	TRAN JFET SET J106 X 2	DATRON	SEE DRG		S2	-
Q207	230086	TRAN MOSFET P-CHAN 60V	FERRANTI	ZYP2106A	A	EA 1	-
Q208	230082	TRAN MOSFET N-CHAN 60V	SILICONIX	VN101M		EA 1	-
Q301	230038	TRAN JFET N-CHAN	SILICONIX	J112		EA	-
Q302	230039	TRAN JFET P CHAN	SILICONIX	J175		EA	-
Q303	230038	TRAN JFET N-CHAN	SILICONIX	J112		EA	-
Q304	230039	TRAN JFET P CHAN	SILICONIX	J175		EA	-
Q305	240001	TRAN NPN	MOTOROLA	BC184		EA	-
U101	260124	IC LIN QUAD OLP COMPARATOR	NATIONAL	LP339N		EA 1	-
U102	260048	IC LIN OP AMP CMOS	INTERFIL	ICL7611 DCPA		EA 1	-
U104	400831-1	ASSY REF MODULE NEG 4910	DATRON	SEE DRG		EA 1	-
U105	260033	IC LIN REG 5V -1A	MOTOROLA	MC78L05ACP		EA 1	-
U107	280011	IC DIG FLIP FLOP D X2	MOTOROLA	MC14013BCP		EA 1	-
U108	280193	IC DIG NAND2 SCHMITT X4	PHILIPS	HEF4093BP		EA 1	-
U109	260082	IC LIN OP AMP CHOPPER	LINEAR TECHNOLOGY	LTC1052CN8		EA 1	-
U110	260132	IC LIN OP AMP PREC LOW VOLT	PMI	OP90GP		EA 1	-
U111	260065	IC LIN OP AMP	PMI	OP27PZ	A	EA 1	-
U112	290149	IC DIG CMOS TIMER	INTERFIL	ICM7555 1PA		EA 1	-
U201	280182	IC DIG FLIP FLOP D X2	NATIONAL	74AC74PC		EA 3	-
U202	220041	OPTO ISOL 3KV DUAL	H.P.	HCP1-2631	A	EA 1	-
U203	280185	IC DIG INV MOSFET DRIVER X2	INTERFIL	ICL7667CPA		EA 3	-
U204	280185	IC DIG INV MOSFET DRIVER X2	INTERFIL	ICL7667CPA		EA	-
U205	230031	TRAN JFET N-CHAN DUAL	SILICONIX	U404		EA 2	-
U206	230031	TRAN JFET N-CHAN DUAL	SILICONIX	U404		EA	-
U207	260057	IC LIN OP AMP	SIGNETICS	NE5534N		EA 2	-
U208	260057	IC LIN OP AMP	SIGNETICS	NE5534N		EA	-
U209	260107	IC LIN OP AMP	PRECISION MONOLITHIC	OP07CP		EA 1	-
U301	280185	IC DIG INV MOSFET DRIVER X2	INTERFIL	ICL7667CPA		EA	-
U302	260025	IC LIN OP AMP	NATIONAL	LM101AH		EA 1	-
U303	260088	IC LIN OP AMP PREC.	LINEAR TECHNOLOGY	LT1013CH		EA 1	-
U401	280141	IC DIG COUNT8 SYNC BIN PL DN	SGS	M74HC4103B1		EA 4	-
U402	280141	IC DIG COUNT8 SYNC BIN PL DN	SGS	M74HC4103B1		EA	-
U403	280141	IC DIG COUNT8 SYNC BIN PL DN	SGS	M74HC4103B1		EA	-
U404	280141	IC DIG COUNT8 SYNC BIN PL DN	SGS	M74HC4103B1		EA	-
U405	280160	IC DIG FLIP FLOP D X2	TEXAS	SN74HC174N		EA 1	-
U406	280182	IC DIG FLIP FLOP D X2	NATIONAL	74AC74PC		EA	-
U407	280182	IC DIG FLIP FLOP D X2	NATIONAL	74AC74PC		EA	-
U408	280188	IC DIG NAND2 X4	RCA	CD74AC00E		EA 1	-
T201	310002-2	TRANSF PULSE	NEWPORT	SEE DRG		EA 2	-
T202	310002-2	TRANSF PULSE	NEWPORT	SEE DRG		EA	-
L101	370001	CHOKE RF 100H	SIGMA	SC10/25	A	EA 4	-

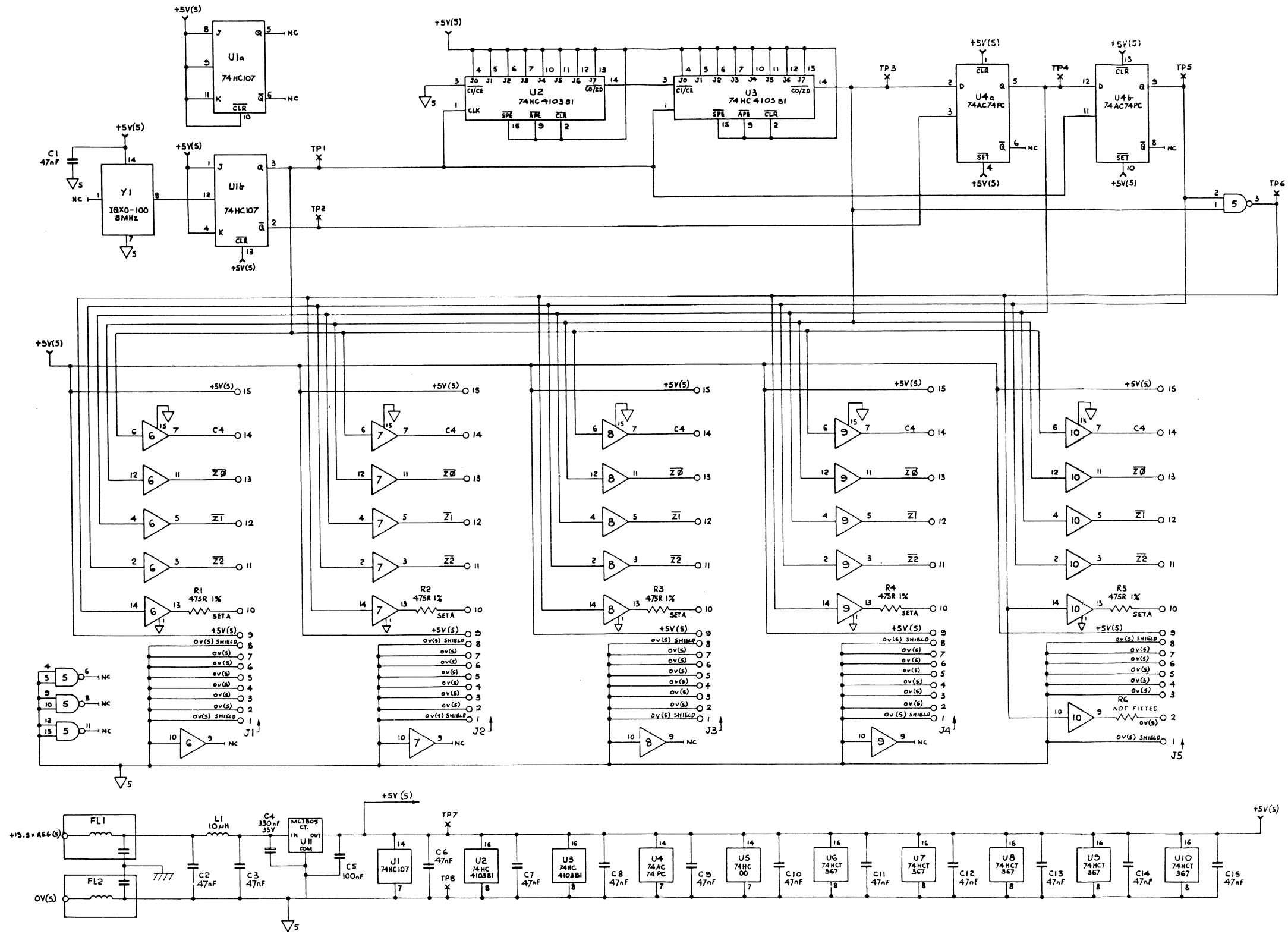
DESIG	PART NO	DESCRIPTION	PRINC MANUF	MANUF PART NUMBER	CLASS	UM	QUANTITY	CHANGES
L102	370001	CHOKE RF 10UH	SIGMA	SC10/25	A	EA	-	
L103	370001	CHOKE RF 10UH	SIGMA	SC10/25	A	EA	-	
L104	370001	CHOKE RF 10UH	SIGMA	SC10/25	A	EA	-	
P4	604111	PLUG 15-WAY PCB 10.3 D TYPE	AMP	343647-2		EA	1	
P604	604106	PLUG PCB 32-WAY	BITCC-VERO	905-72216J		EA	1	
TP101	620007	TEST POINT TERMINAL	MICROVAR	TYPE C30		EA	18	
TP102	620007	TEST POINT TERMINAL	MICROVAR	TYPE C30		EA	-	
TP103	620007	TEST POINT TERMINAL	MICROVAR	TYPE C30		EA	-	
TP104	620007	TEST POINT TERMINAL	MICROVAR	TYPE C30		EA	-	
TP105	620007	TEST POINT TERMINAL	MICROVAR	TYPE C30		EA	-	
TP106	620007	TEST POINT TERMINAL	MICROVAR	TYPE C30		EA	-	
TP107	620007	TEST POINT TERMINAL	MICROVAR	TYPE C30		EA	-	
TP108	620007	TEST POINT TERMINAL	MICROVAR	TYPE C30		EA	-	
TP201	620007	TEST POINT TERMINAL	MICROVAR	TYPE C30		EA	-	
TP202	620007	TEST POINT TERMINAL	MICROVAR	TYPE C30		EA	-	
TP301	620007	TEST POINT TERMINAL	MICROVAR	TYPE C30		EA	-	
TP302	620007	TEST POINT TERMINAL	MICROVAR	TYPE C30		EA	-	
TP401	620007	TEST POINT TERMINAL	MICROVAR	TYPE C30		EA	-	
TP402	620007	TEST POINT TERMINAL	MICROVAR	TYPE C30		EA	-	
TP403	620007	TEST POINT TERMINAL	MICROVAR	TYPE C30		EA	-	
TP404	620007	TEST POINT TERMINAL	MICROVAR	TYPE C30		EA	-	
TP405	620007	TEST POINT TERMINAL	MICROVAR	TYPE C30		EA	-	
TP406	620007	TEST POINT TERMINAL	MICROVAR	TYPE C30		EA	-	
S101	700131	SWITCH IPCO SLIDE	SECME	090320102		EA	2	
S102	700131	SWITCH IPCO SLIDE	SECME	090320102		EA	-	
S401	700118	SWITCH 16 POS ROTARY DIP	OMRON	A6CR-16R		EA	5	
S402	700118	SWITCH 16 POS ROTARY DIP	OMRON	A6CR-16R		EA	-	
S403	700118	SWITCH 16 POS ROTARY DIP	OMRON	A6CR-16R		EA	-	
S404	700118	SWITCH 16 POS ROTARY DIP	OMRON	A6CR-16R		EA	-	
S405	700118	SWITCH 16 POS ROTARY DIP	OMRON	A6CR-16R		EA	-	
F101	920120	FUSE 1A 125V 7MM	LITTLEFUSE	275.025		EA	1	
	410432-3	PCB CELL 4910		SEE DRG		EA	1	
	420058	LABEL SERIAL/ASSY No.	RS COMPONENTS	554-793		EA	1	
	420112-1	LABEL SSD WARNING 12 X 12mm	TEKNTS	LN1212	A	EA	1	
	450749-1	LINK SUPPORT BLOCK		SEE DRG		EA	4	
	450740-2	LOW EMP THERMAL LINK		SEE DRG		EA	2	
	450741-1	SCREEN WALL 4MHz LOWER		SEE DRG		EA	1	
	450742-1	SCREEN WALL 60Hz LOWER		SEE DRG		EA	1	
	450794-1	SCREEN WALL 4MHz UPPER		SEE DRG		EA	1	
	450795-1	SCREEN WALL 60Hz UPPER		SEE DRG		EA	1	
	450796-1	SCREEN COVER 60Hz CELL 4910		SEE DRG		EA	2	
	450798-1	SCREEN GASKET 4MHz CELL 4910		SEE DRG		EA	2	
	450799-1	SCREEN GASKET 60Hz CELL 4910		SEE DRG		EA	2	
	540002	WIRE 1/.7 Tinned COPPER	BS4109	22SWG		AR	1	
	540006	WIRE 1/.4 TYPE 250V BLK	BSG210	TYPE A		AR	1	

DESIG	PART NO	DESCRIPTION	PRINC MANUF	MANUF PART NUMBER	CLASS	UM	QUANTITY	CHANGES
	590001	SLEEVE NP 1.5 X 20MM BLK	HELLERMANN	H15 X 20MM BLK		EA	2	
	590004	SLEEVE PTFE 1mm BLK	HELLERMANN	FE10		AR	1	
	611016	SCREW M3 X 8 POZIPAN SZP				EA	4	
	611096	SCREW M2.5 X 12 POZIPAN SZP				EA	2	
	611109-1	SCREW M3 X 12 SLT CH GL.PL				EA	4	
	611115	SCREW M3 X 25 POZIPAN SZP				EA	4	
	612026-1	STANDOFF M3 X 6	DATRON	SEE DRG		EA	4	
	613029	WASHER M3 WAVY SS				EA	10	
	613047	WASHER M2.5 WAVY SS				EA	4	
	613053-1	WASHER M3 PLAIN CU GL.PL				EA	4	
	614016-1	SPACER M3 X 14 CLEAR		SEE DRG		EA	4	
	615002	NUT FULL M3 SZP				EA	2	
	615006	NUT FULL M2.5 SZP				EA	2	
	615024	NUT SQ M3 ST BZP				EA	4	
	618015	COMPONENT CARRIER	JERMYN	J22-4019		EA	21	
	620003	SOLDER PIN	HARWIN	H2105A01		EA	6	
	630024	BEAD CERAMIC 16 SWG	PARK ROYAL PORCELAIN	Ng2		EA	2	
	630112	PCB EJECTOR BLACK	RICHCO	CBE		EA	2	
	630243	BEAD GLASS 2.4 X 0.81 X 1.8	MANSOL (PREFORMS)	LT M5363B/3		EA	54	

End







DIGITAL ASSEMBLY

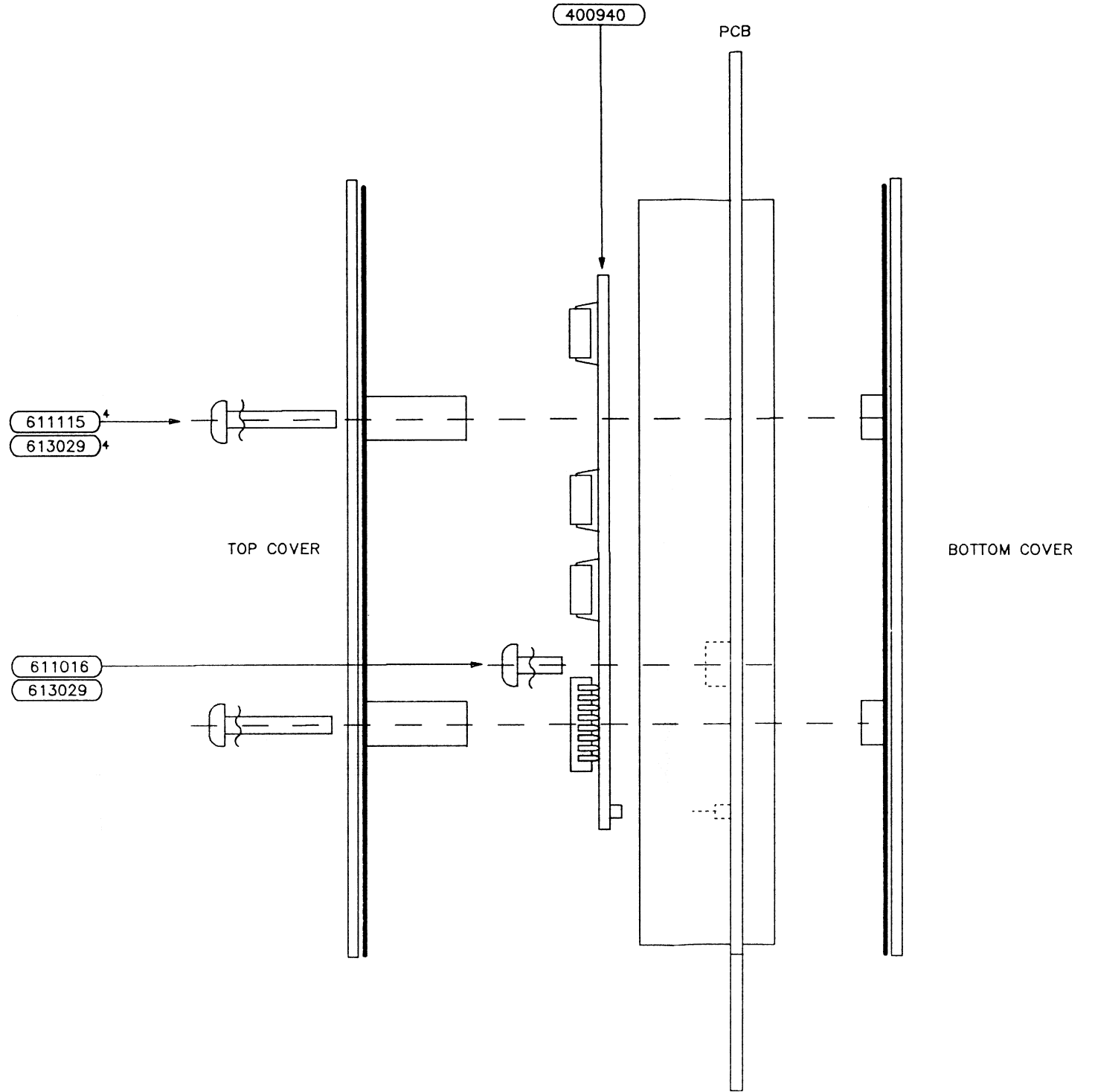
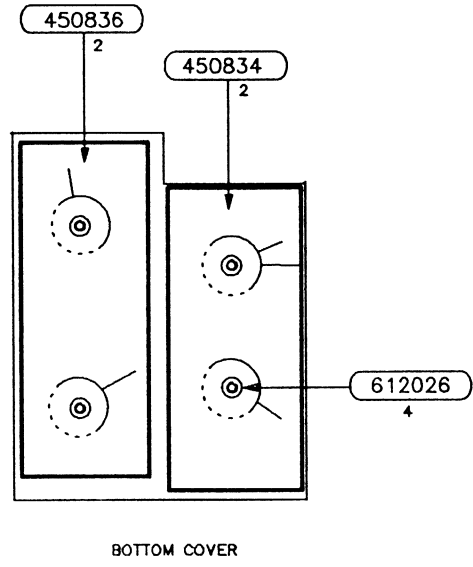
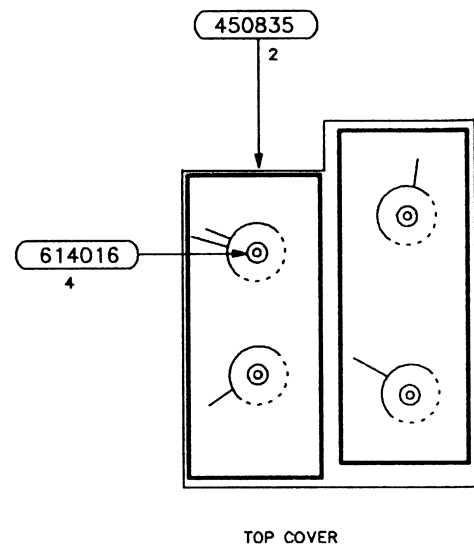
Drawing No. DC400923 Sheet 1



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DESIG	PART NO	DESCRIPTION	PRINC MANUF	MANUF PART NUMBER	CLASS UM	QUANTITY	CHANGES
TP8	620007	TEST POINT TERMINAL	MICROVAR	TYPE C30	EA	-	
Y1	800037	CRYSTAL OSC 8MHz	EUROQUARTZ	EQXO-1100HC	EA	1	
FL1	390004	FILTER RFI SUPP CHASSIS MFG	OXLEY	DLT4/L/22000	EA	2	
FL2	390004	FILTER RFI SUPP CHASSIS MFG	OXLEY	DLT4/L/22000	EA	-	
	410440-A	PCB DIGITAL 4910		SEE DRG	EA	1	
	410443-1	PCB DIGITAL SCREEN 4910		SEE DRG	EA	1	
	420098	LABEL SERIAL/ASSY No.	RS COMPONENTS	554-793	EA	1	
	420112-1	LABEL SSD WARNING 12 X 12mm	TEKNIS	LN1212	EA	1	A
	450792-1	SCREEN ETCHED COPPER 4910		SEE DRG	EA	1	
	512000	WIRE 7/.2 PTFE 1KV BLK	BSG210	TYPE C	AR	1	
	512222	WIRE 7/.2 PTFE 1KV RED	BSG210	TYPE C	AR	1	
	590001	SLEEVE NP 1.5 X 20MM BLK	HELLERMANN	H15 X 20MM BLK	EA	2	
	605051	HOUSING 4-WAY	MOLEX	6471 SERIES 22-01-20	EA	1	
	605057	CRIMP TERMINAL GD PL	MOLEX	08-56-0120/SEE DRG	EA	2	
	606037	GASKET RFI (15-WAY)	AMP	747025-3	EA	5	
	611015	SCREW M3 X 8 POZICKS S2P			EA	10	
	612029-1	STANDOFF M3 X 12	DATRON	SEE DRG	EA	10	
	630036	BEAD CERAMIC 18 SWG	PARK ROYAL PORCELAIN	No1	EA	2	
	630243	BEAD GLASS 2.4 X 0.81 X 1.8	MANSOL (PREFORMS) LT	M5363B/3	EA	28	
	900009	LOCKING COMPOUND	LOCTITE	222	AR	1	

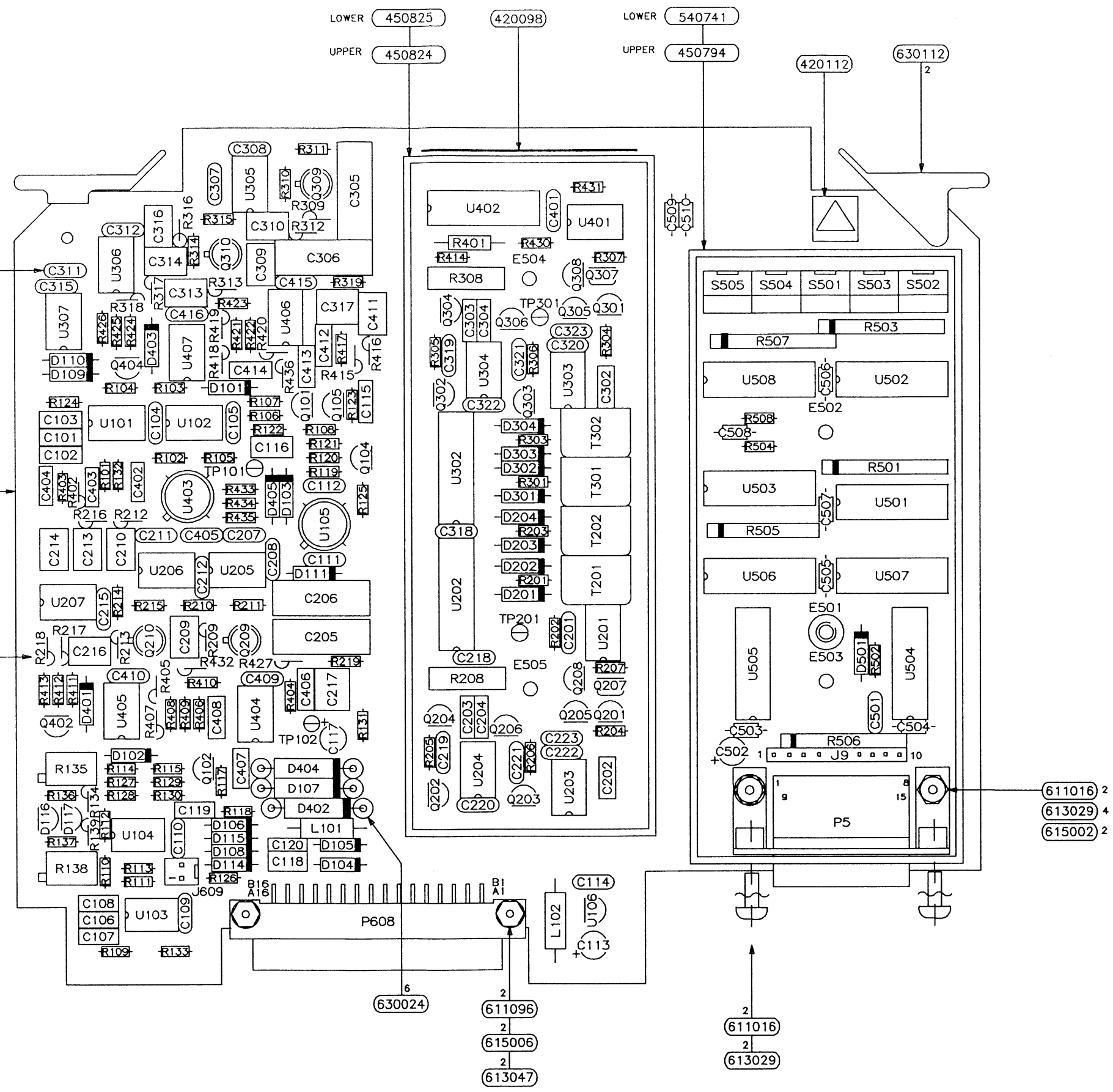
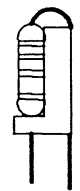
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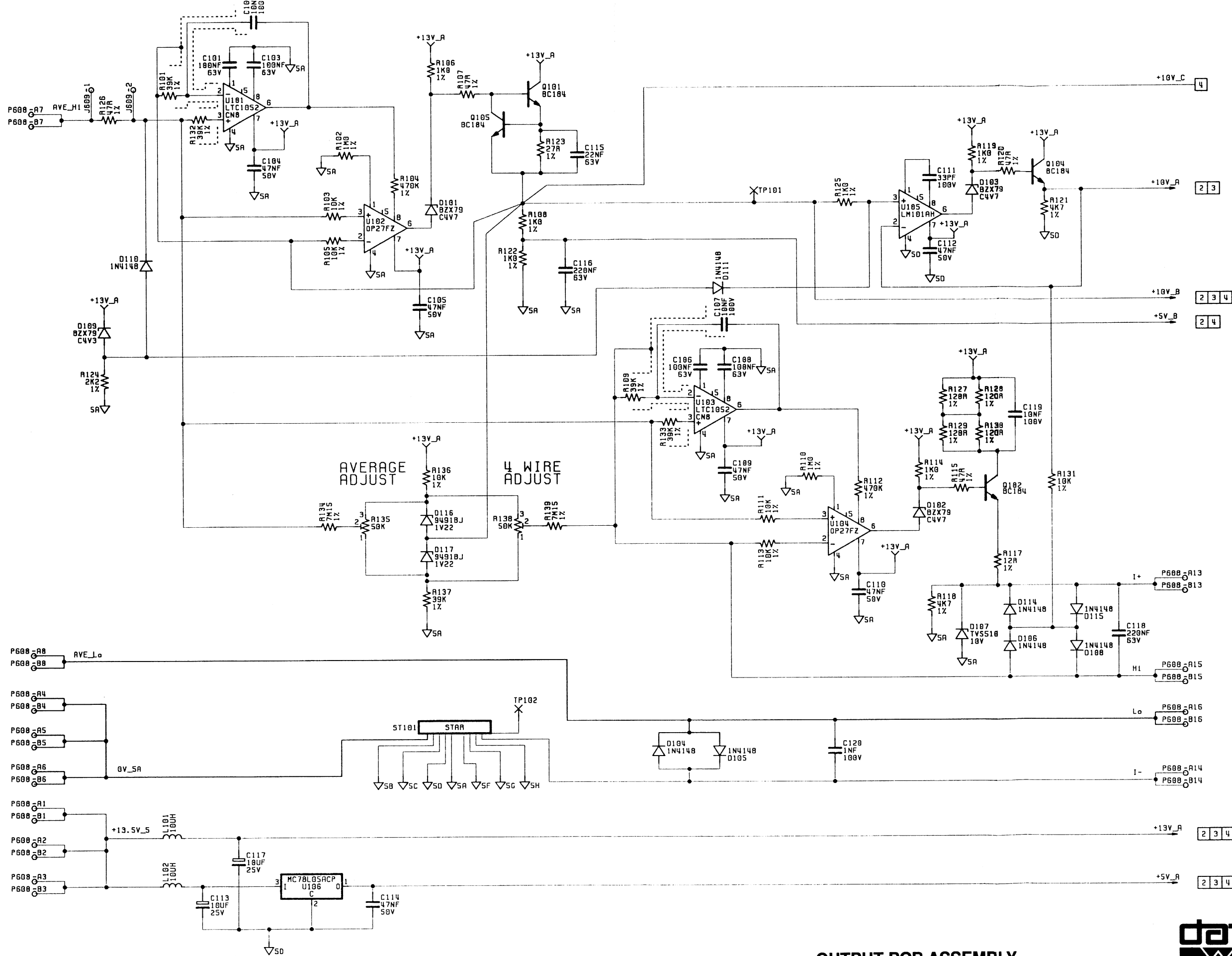


OUTPUT PCB ASSEMBLY
 Drawing No. DA400881 Sheet 2

630024 58
 FIT ONE GLASS BEAD PER LEAD ON :-
 C104 , 105 , 109 , 110 , 112 , 114 , 201 , 208 ,
 212 , 215 , 218 , 219 , 220 , 221 , 222 ,
 223 , 308 , 312 , 315 , 318 , 319 , 320 ,
 322 , 401 , 405 , 409 , 410 , 415 AND 416 .

618015 24
 MOUNT THE FOLLOWING COMPONENTS
 ON CARRIERS R134 , 139 ,
 209 , 212 , 213 , 216 , 217 , 218 ,
 309 , 312 , 313 , 316 , 317 , 318 ,
 405 , 407 , 415 , 416 , 418 , 419 ,
 420 , 427 , 432 , AND 436 .



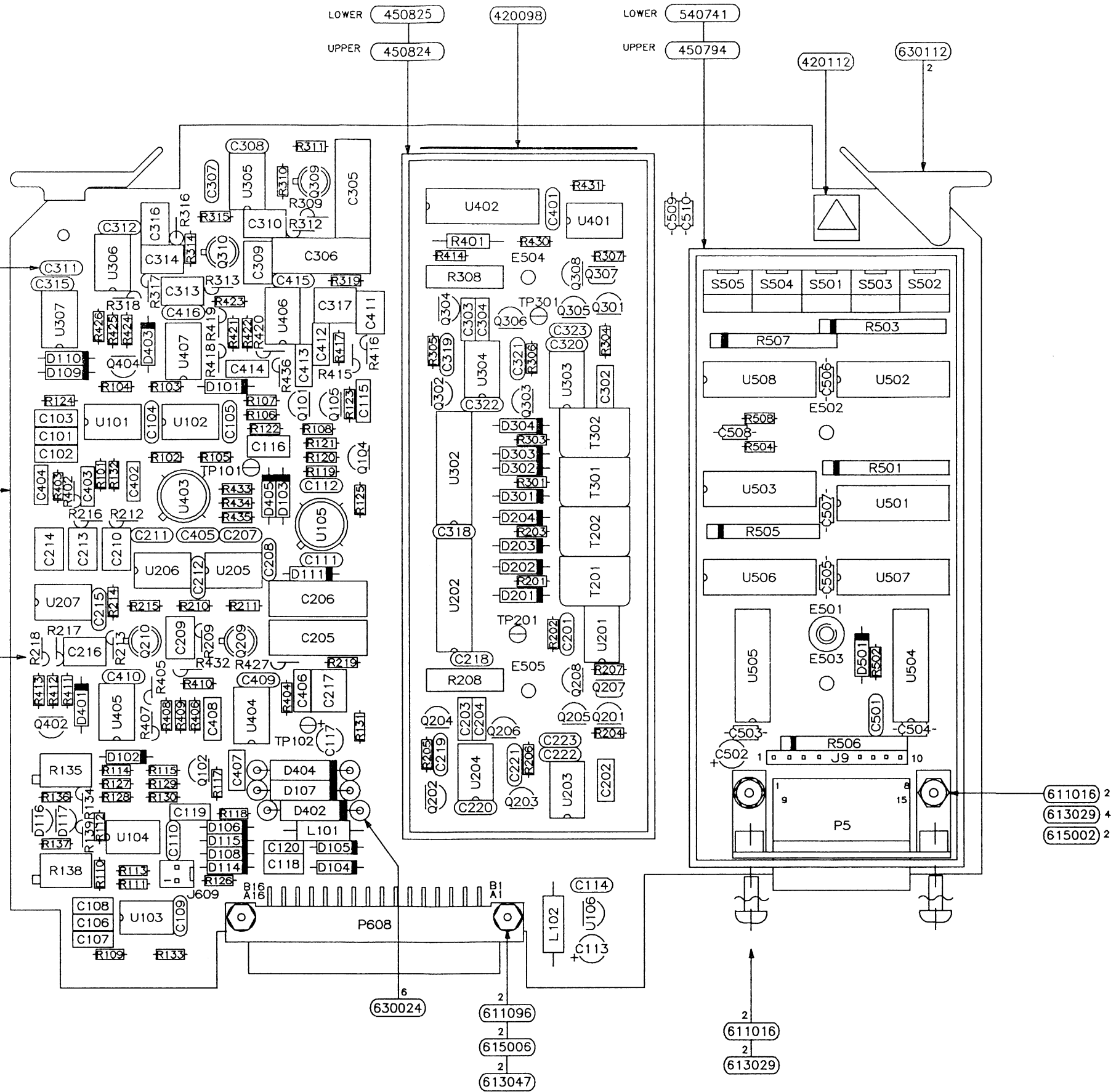
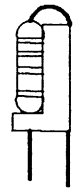


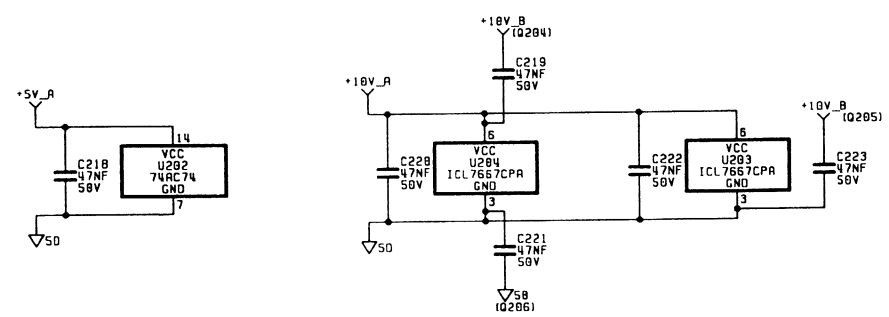
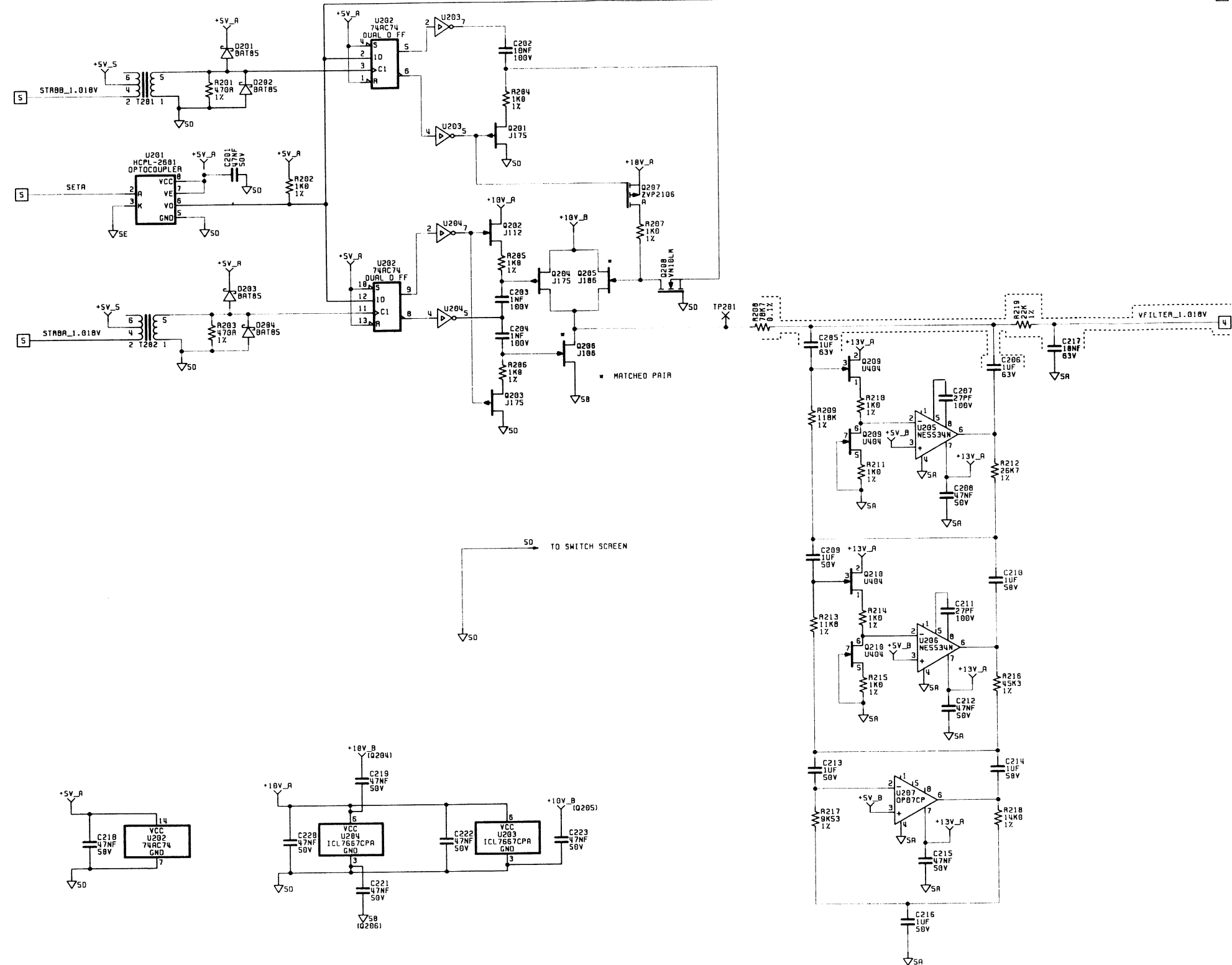
OUTPUT PCB ASSEMBLY
 Drawing No. DC400881 Sheet 1



FIT ONE GLASS BEAD PER LEAD ON :-
 C104 , 105 , 109 , 110 , 112 , 114 , 201 , 208 ,
 212 , 215 , 218 , 219 , 220 , 221 , 222 ,
 223 , 308 , 312 , 315 , 318 , 319 , 320 ,
 322 , 401 , 405 , 409 , 410 , 415 AND 416 .

MOUNT THE FOLLOWING COMPONENTS
 ON CARRIERS R134 , 139 ,
 209 , 212 , 213 , 216 , 217 , 218 ,
 309 , 312 , 313 , 316 , 317 , 318 ,
 405 , 407 , 415 , 416 , 418 , 419 ,
 420 , 427 , 432 , AND 436 .

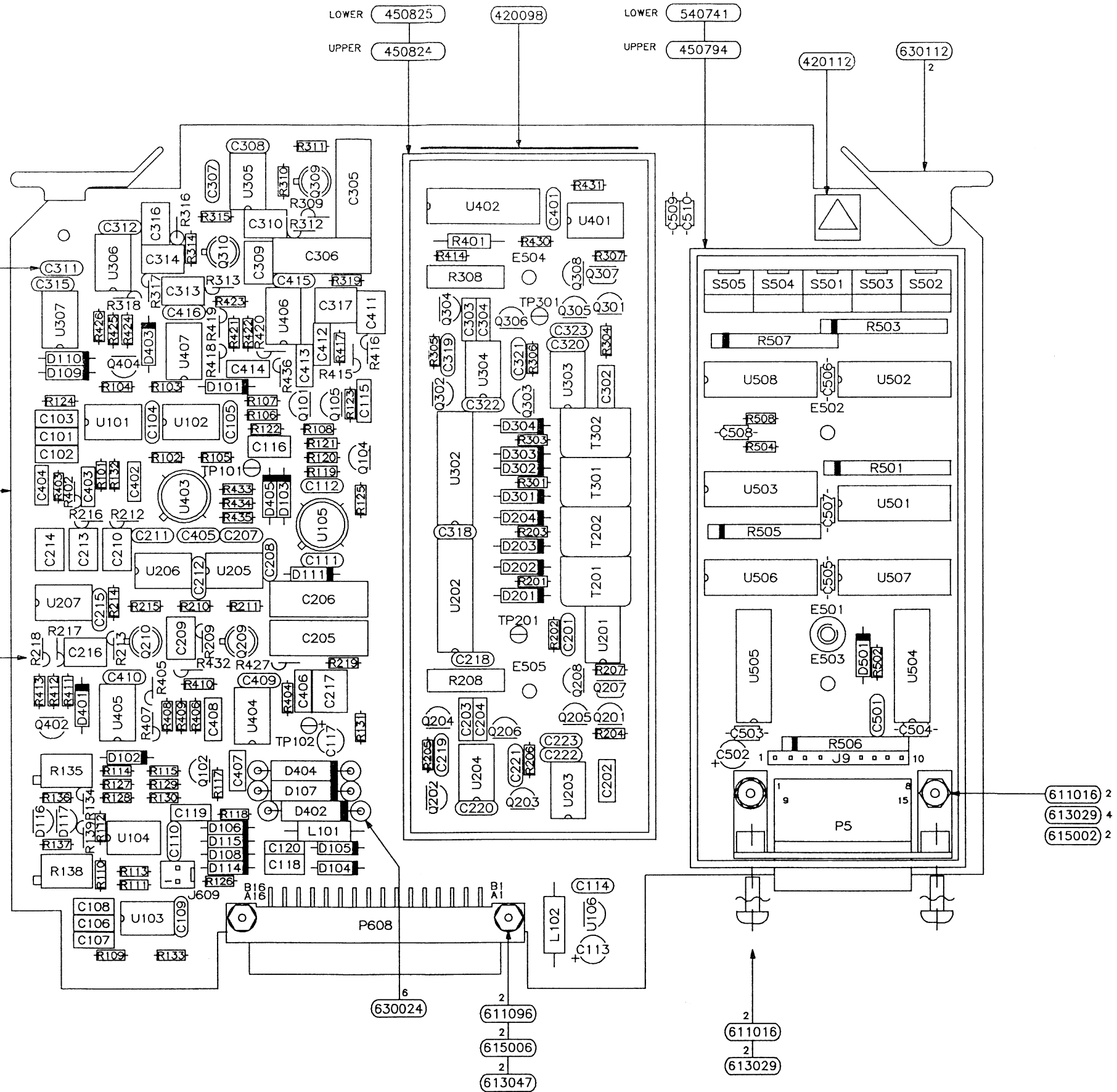
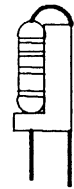


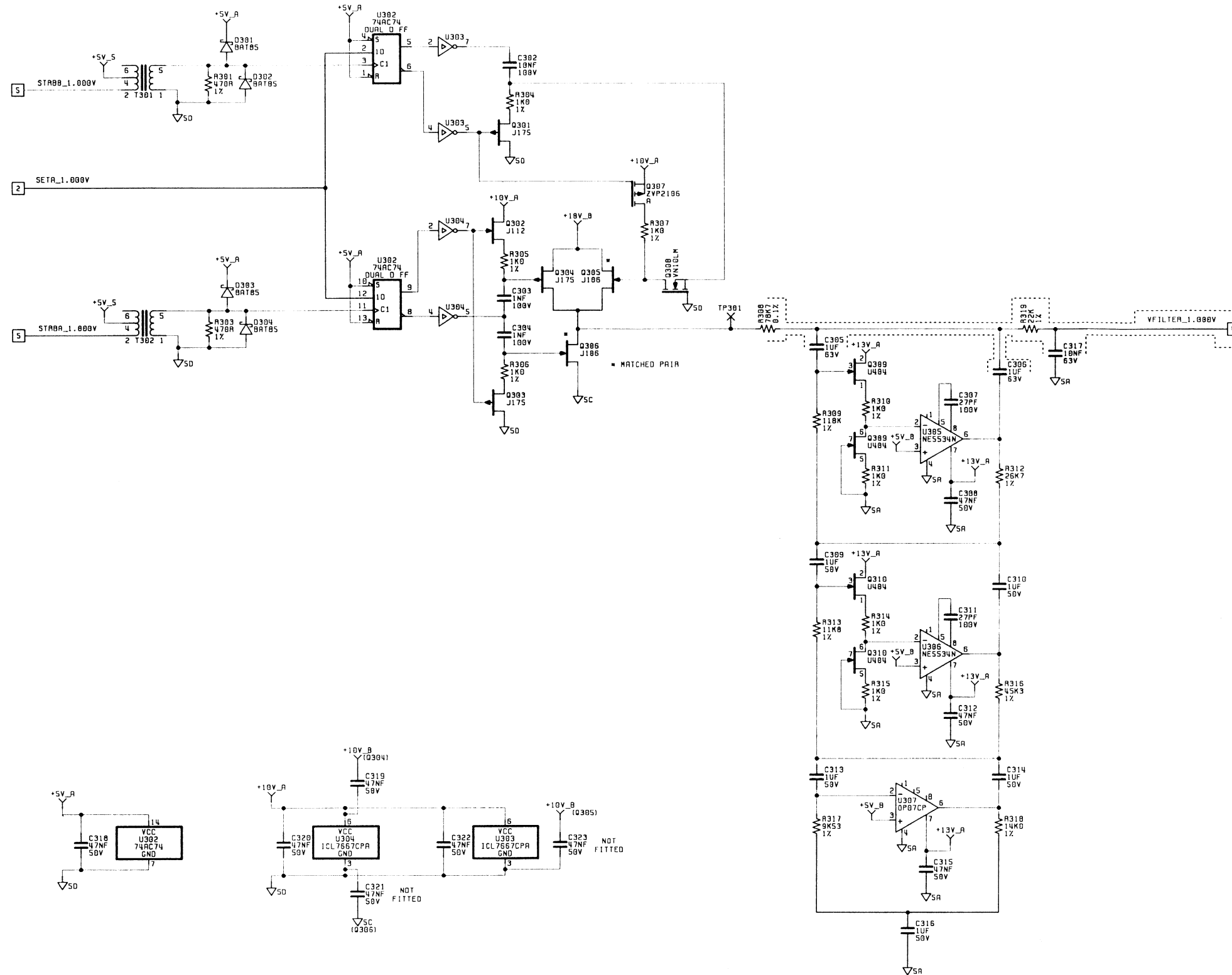


OUTPUT PCB ASSEMBLY
 Drawing No. DC400881 Sheet 2

FIT ONE GLASS BEAD PER LEAD ON :-
 C104 , 105 , 109 , 110 , 112 , 114 , 201 , 208 ,
 212 , 215 , 218 , 219 , 220 , 221 , 222 ,
 223 , 308 , 312 , 315 , 318 , 319 , 320 ,
 322 , 401 , 405 , 409 , 410 , 415 AND 416 .

MOUNT THE FOLLOWING COMPONENTS
 ON CARRIERS R134 , 139 ,
 209 , 212 , 213 , 216 , 217 , 218 ,
 309 , 312 , 313 , 316 , 317 , 318 ,
 405 , 407 , 415 , 416 , 418 , 419 ,
 420 , 427 , 432 , AND 436 .

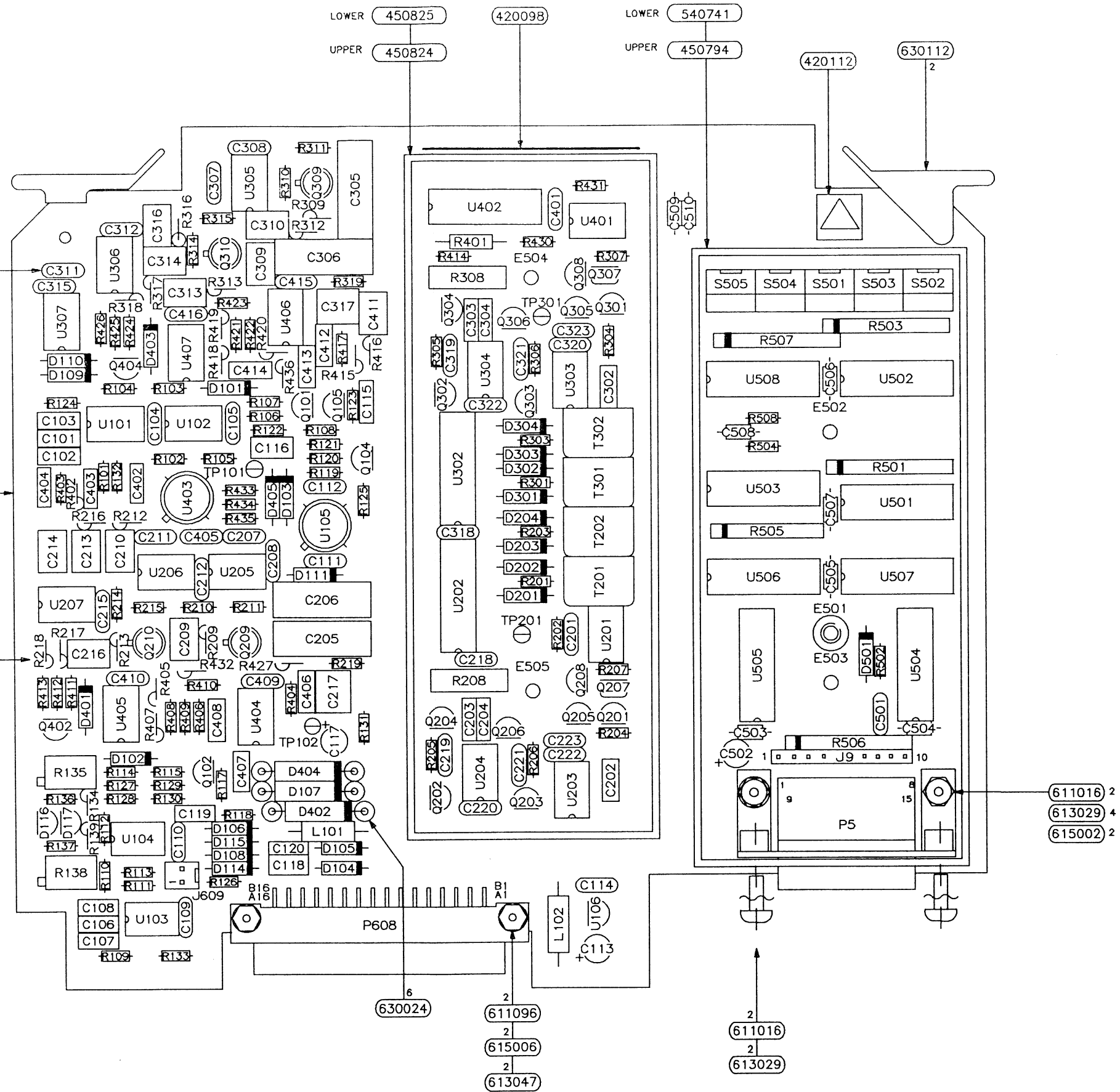
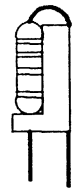


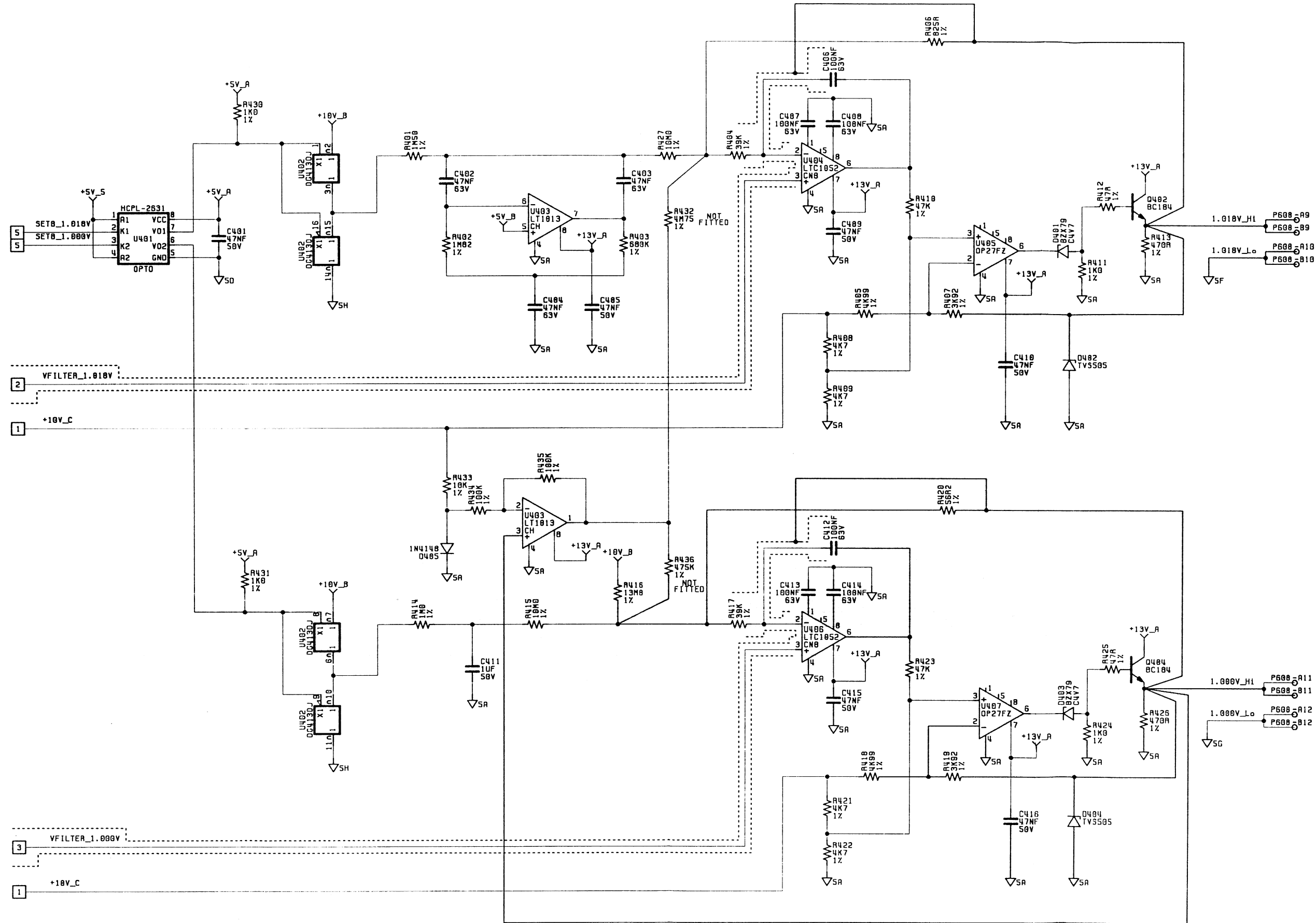


OUTPUT PCB ASSEMBLY
 Drawing No. DC400881 Sheet 3

FIT ONE GLASS BEAD PER LEAD ON :-
 C104 , 105 , 109 , 110 , 112 , 114 , 201 , 208 ,
 212 , 215 , 218 , 219 , 220 , 221 , 222 ,
 223 , 308 , 312 , 315 , 318 , 319 , 320 ,
 322 , 401 , 405 , 409 , 410 , 415 AND 416 .

MOUNT THE FOLLOWING COMPONENTS
 ON CARRIERS R134 , 139 ,
 209 , 212 , 213 , 216 , 217 , 218 ,
 309 , 312 , 313 , 316 , 317 , 318 ,
 405 , 407 , 415 , 416 , 418 , 419 ,
 420 , 427 , 432 , AND 436 .



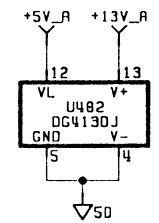


2 VFILTER_1.018V

1 +18V_C

3 VFILTER_1.000V

1 +18V_C

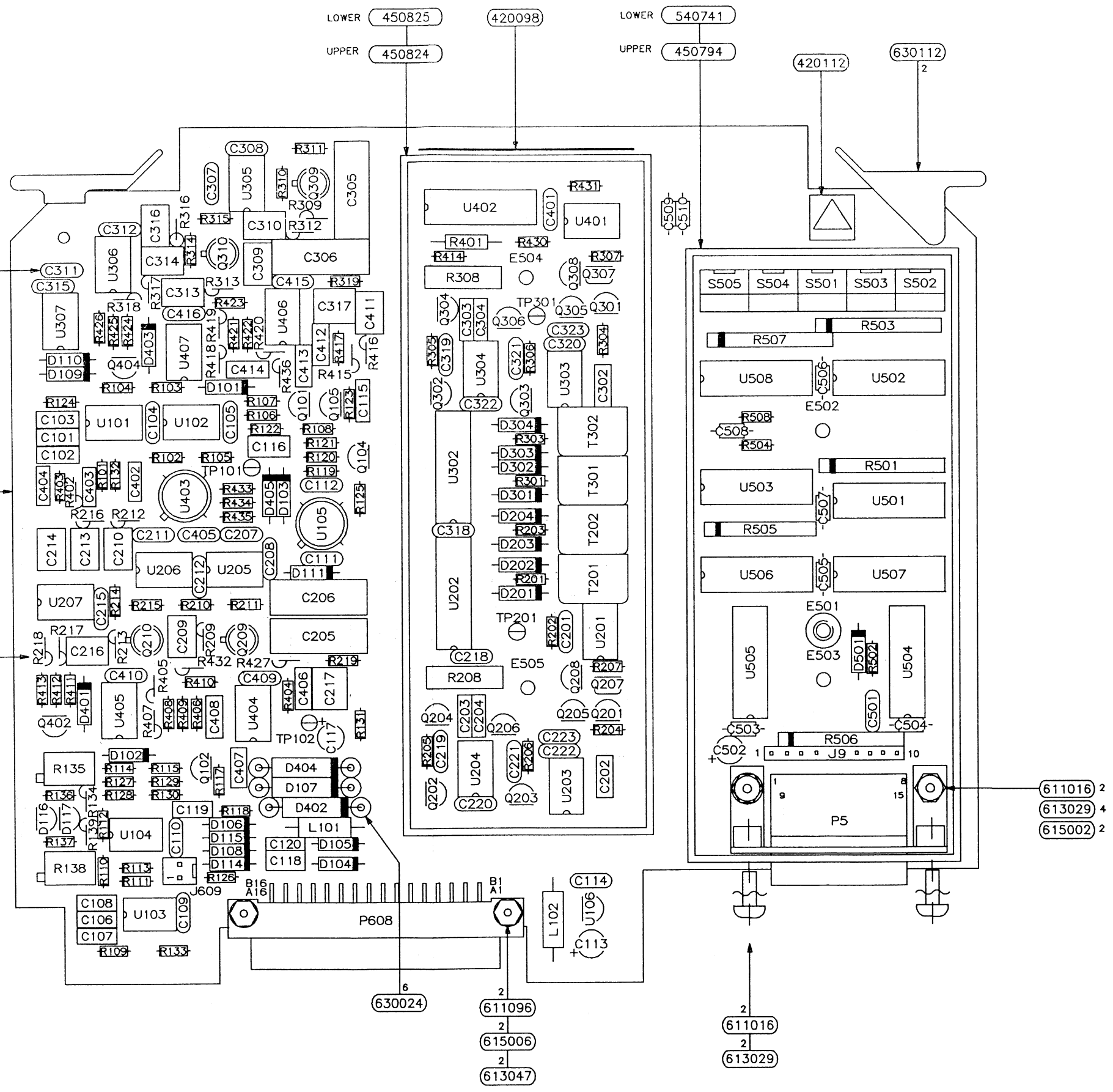
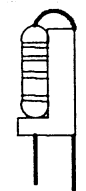


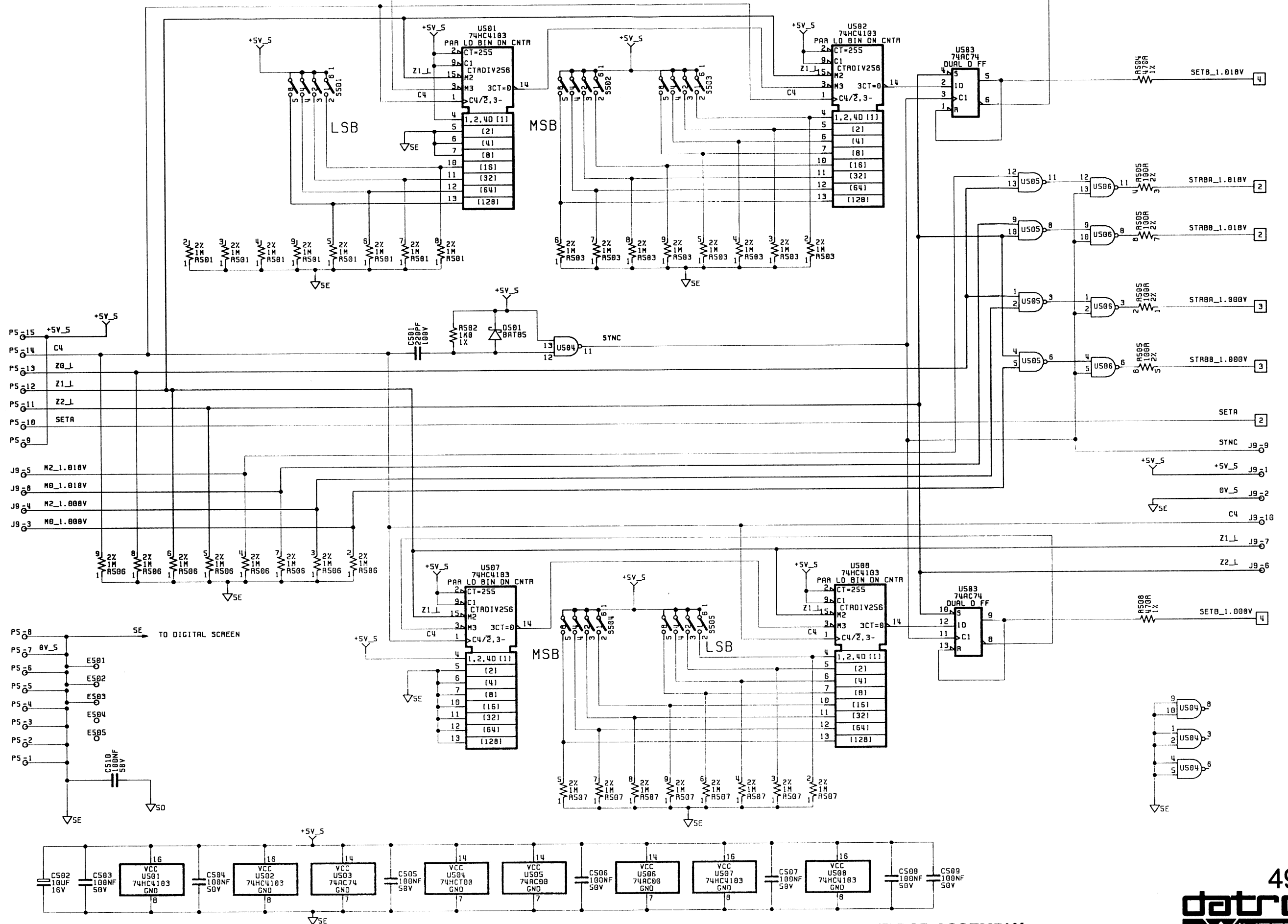
OUTPUT PCB ASSEMBLY
 Drawing No. DC400881 Sheet 4

4910
datron
WAVETEK
 © Datron Instruments 1990

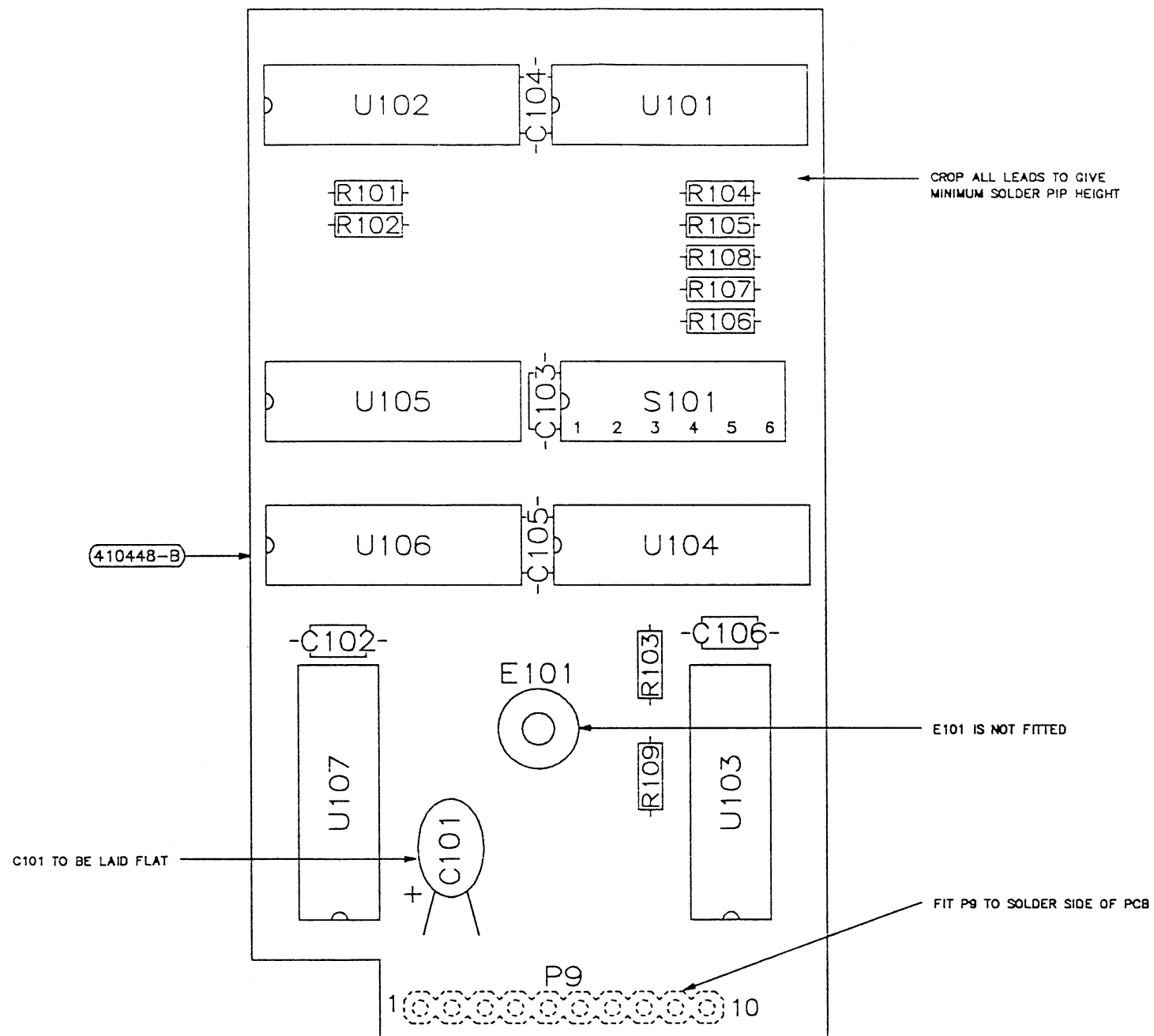
FIT ONE GLASS BEAD PER LEAD ON :-
 C104 , 105 , 109 , 110 , 112 , 114 , 201 , 208 ,
 212 , 215 , 218 , 219 , 220 , 221 , 222 ,
 223 , 308 , 312 , 315 , 318 , 319 , 320 ,
 322 , 401 , 405 , 409 , 410 , 415 AND 416 .

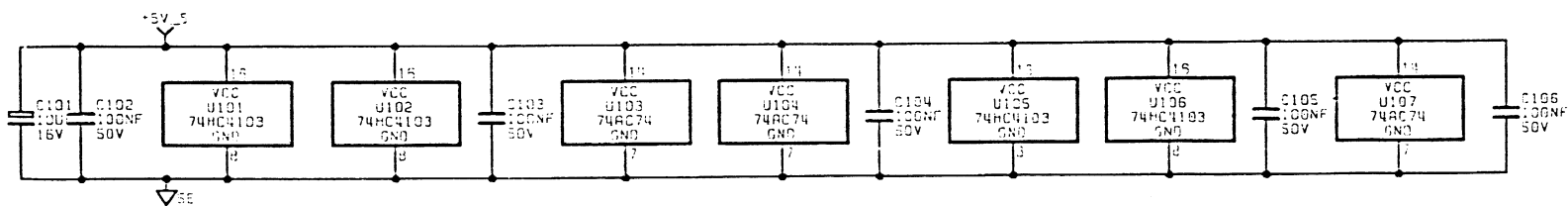
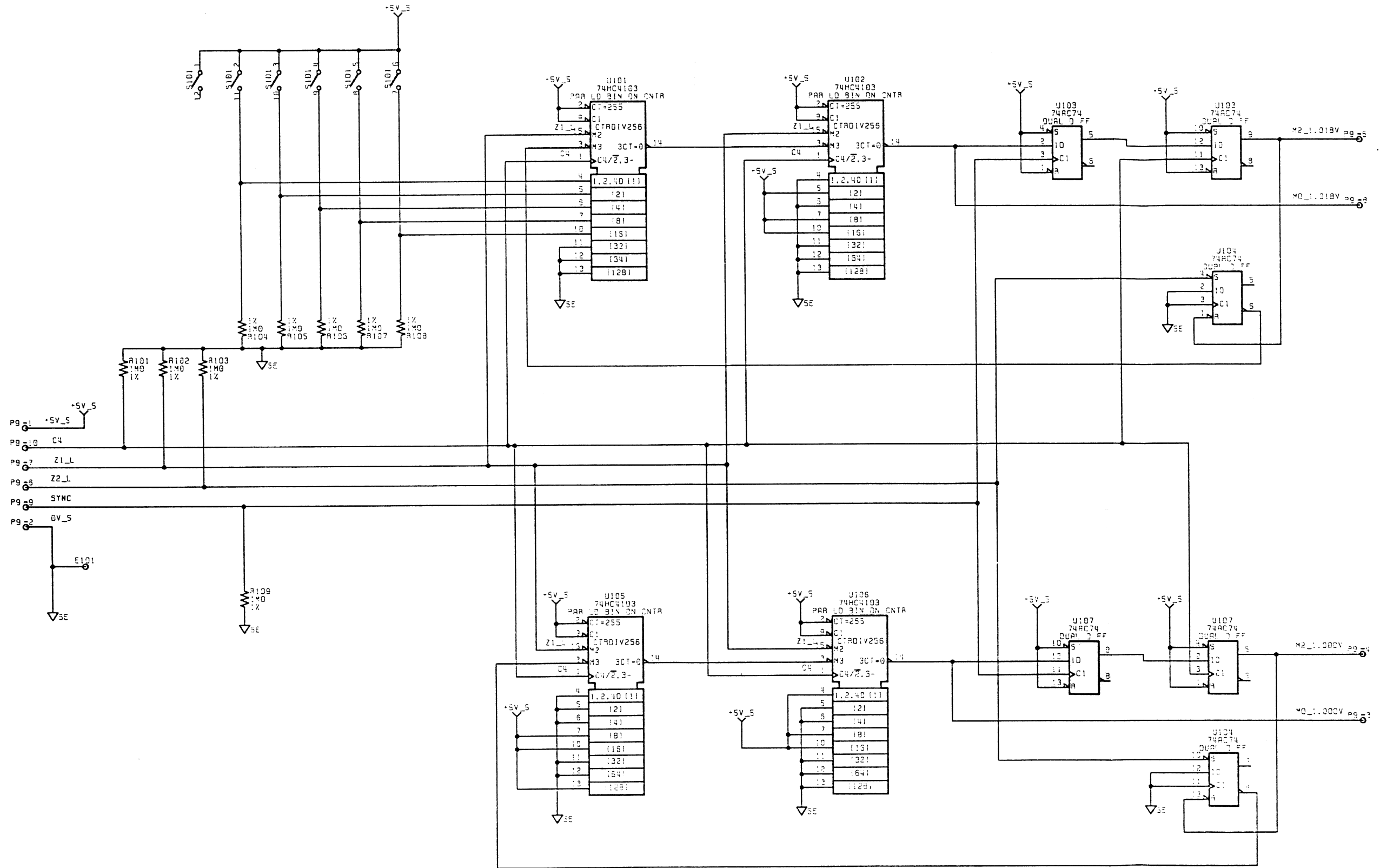
MOUNT THE FOLLOWING COMPONENTS
 ON CARRIERS R134 , 139 ,
 209 , 212 , 213 , 216 , 217 , 218 ,
 309 , 312 , 313 , 316 , 317 , 318 ,
 405 , 407 , 415 , 416 , 418 , 419 ,
 420 , 427 , 432 , AND 436 .





OUTPUT PCB ASSEMBLY
 Drawing No. DC400881 Sheet 5





OUTPUT PCB ASSEMBLY
Digital Sub-Assembly
 Drawing No. DC400940 Sheet 1

4910
Datron
WAVETEK
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DESIG	PART NO	DESCRIPTION	PRINC MANUF	MANUF PART NUMBER	CLASS	UM	QUANTITY	CHANGES
R208	080032	RES MF 78K7 1% 10PPM	VISHAY MANN	V53C-5			EA	2
R209	011183	RES MF 118K 1% .12W 50PPM	HOLSWORTHY	H8C	A		EA	2
R210	050112	RES MF 1K0 1% .4W 100PPM	NEOHM	LR0204	A		EA	-
R211	050112	RES MF 1K0 1% .4W 100PPM	NEOHM	LR0204	A		EA	-
R212	012672	RES MF 26K7 1% .12W 50PPM	HOLSWORTHY	H8C	A		EA	2
R213	011182	RES MF 11K8 1% .12W 50PPM	HOLSWORTHY	H8C	A		EA	2
R214	050112	RES MF 1K0 1% .4W 100PPM	NEOHM	LR0204	A		EA	-
R215	050112	RES MF 1K0 1% .4W 100PPM	NEOHM	LR0204	A		EA	-
R216	014532	RES MF 45K3 1% .12W 50PPM	HOLSWORTHY	H8C	A		EA	2
R217	019531	RES MF 9K53 1% .12W 50PPM	HOLSWORTHY	H8C	A		EA	2
R218	011402	RES MF 14K0 1% .12W 50PPM	HOLSWORTHY	H8C	A		EA	2
R219	050128	RES MF 22K 1% .4W 100PPM	NEOHM	LR0204	A		EA	2
R301	050108	RES MF 470R 1% .4W 100PPM	NEOHM	LR0204	A		EA	-
R303	050108	RES MF 470R 1% .4W 100PPM	NEOHM	LR0204	A		EA	-
R304	050112	RES MF 1K0 1% .4W 100PPM	NEOHM	LR0204	A		EA	-
R305	050112	RES MF 1K0 1% .4W 100PPM	NEOHM	LR0204	A		EA	-
R306	050112	RES MF 1K0 1% .4W 100PPM	NEOHM	LR0204	A		EA	-
R307	050112	RES MF 1K0 1% .4W 100PPM	NEOHM	LR0204	A		EA	-
R308	080032	RES MF 78K7 1% 10PPM	VISHAY MANN	V53C-5			EA	-
R309	011183	RES MF 118K 1% .12W 50PPM	HOLSWORTHY	H8C	A		EA	-
R310	050112	RES MF 1K0 1% .4W 100PPM	NEOHM	LR0204	A		EA	-
R311	050112	RES MF 1K0 1% .4W 100PPM	NEOHM	LR0204	A		EA	-
R312	012672	RES MF 26K7 1% .12W 50PPM	HOLSWORTHY	H8C	A		EA	-
R313	011182	RES MF 11K8 1% .12W 50PPM	HOLSWORTHY	H8C	A		EA	-
R314	050112	RES MF 1K0 1% .4W 100PPM	NEOHM	LR0204	A		EA	-
R315	050112	RES MF 1K0 1% .4W 100PPM	NEOHM	LR0204	A		EA	-
R316	014532	RES MF 45K3 1% .12W 50PPM	HOLSWORTHY	H8C	A		EA	-
R317	019531	RES MF 9K53 1% .12W 50PPM	HOLSWORTHY	H8C	A		EA	-
R318	011402	RES MF 14K0 1% .12W 50PPM	HOLSWORTHY	H8C	A		EA	-
R319	050128	RES MF 22K 1% .4W 100PPM	NEOHM	LR0204	A		EA	-
R401	041504	RES MF 1M50 1% .12W 100PPM	HOLSWORTHY	H8C	A		EA	1
R402	041824	RES MF 1M82 1% .12W 100PPM	HOLSWORTHY	H8C	A		EA	1
R403	050146	RES MF 680K 1% .4W 100PPM	NEOHM	LR0204	A		EA	1
R404	050131	RES MF 39K 1% .4W 100PPM	NEOHM	LR0204	A		EA	-
R405	014991	RES MF 4K99 1% .12W 50PPM	HOLSWORTHY	H8C	A		EA	2
R406	050034	RES MF 825R 1% .1W 15PPM	HOLSWORTHY	H10	A		EA	1
R407	013921	RES MF 3K92 1% .12W 50PPM	HOLSWORTHY	H8C	A		EA	2
R408	050120	RES MF 4K7 1% .4W 100PPM	NEOHM	LR0204	A		EA	-
R409	050120	RES MF 4K7 1% .4W 100PPM	NEOHM	LR0204	A		EA	-
R410	050132	RES MF 47K 1% .4W 100PPM	NEOHM	LR0204	A		EA	2
R411	050112	RES MF 1K0 1% .4W 100PPM	NEOHM	LR0204	A		EA	-
R412	050096	RES MF 47R 1% .4W 100PPM	NEOHM	LR0204	A		EA	-
R413	050108	RES MF 470R 1% .4W 100PPM	NEOHM	LR0204	A		EA	-
R414	050148	RES MF 1M0 1% .4W 100PPM	NEOHM	LR0204	A		EA	-
R415	041005	RES MF 10M0 1% .12W 100PPM	STEATITE	MK2	A		EA	2

DESIG	PART NO	DESCRIPTION	PRINC MANUF	MANUF PART NUMBER	CLASS	UM	QUANTITY	CHANGES
R416	041305	RES MF 13M0 1% .12W 150PPM	MEPCO	5053YL	A		EA	1
R417	050131	RES MF 39K 1% .4W 100PPM	NEOHM	LR0204	A		EA	-
R418	014991	RES MF 4K99 1% .12W 50PPM	HOLSWORTHY	H8C	A		EA	-
R419	013921	RES MF 3K92 1% .12W 50PPM	HOLSWORTHY	H8C	A		EA	-
R420	015628	RES MF 56R2 1% .12W 50PPM	HOLSWORTHY	H8C	A		EA	1
R421	050120	RES MF 4K7 1% .4W 100PPM	NEOHM	LR0204	A		EA	-
R422	050120	RES MF 4K7 1% .4W 100PPM	NEOHM	LR0204	A		EA	-
R423	050132	RES MF 47K 1% .4W 100PPM	NEOHM	LR0204	A		EA	-
R424	050112	RES MF 1K0 1% .4W 100PPM	NEOHM	LR0204	A		EA	-
R425	050096	RES MF 47R 1% .4W 100PPM	NEOHM	LR0204	A		EA	-
R426	050108	RES MF 470R 1% .4W 100PPM	NEOHM	LR0204	A		EA	-
R427	041005	RES MF 10M0 1% .12W 100PPM	STEATITE	MK2	A		EA	-
R430	050112	RES MF 1K0 1% .4W 100PPM	NEOHM	LR0204	A		EA	-
R431	050112	RES MF 1K0 1% .4W 100PPM	NEOHM	LR0204	A		EA	-
R432	00000N	NOT FITTED					EA	8
R433	050124	RES MF 10K 1% .4W 100PPM	NEOHM	LR0204	A		EA	-
R434	050136	RES MF 100K 1% .4W 100PPM	NEOHM	LR0204	A		EA	2
R435	050136	RES MF 100K 1% .4W 100PPM	NEOHM	LR0204	A		EA	-
R436	00000N	NOT FITTED					EA	-
R501	090096	RES NTWK 1M X 8 2%	BECKMAN	LO9-1-R1M	A		EA	4
R502	050112	RES MF 1K0 1% .4W 100PPM	NEOHM	LR0204	A		EA	-
R503	090096	RES NTWK 1M X 8 2%	BECKMAN	LO9-1-R1M	A		EA	-
R504	050108	RES MF 470R 1% .4W 100PPM	NEOHM	LR0204	A		EA	-
R505	090105	RES PACK 100R X 4 2%	BECKMAN	LO8-3-R100	A		EA	1
R506	090096	RES NTWK 1M X 8 2%	BECKMAN	LO9-1-R1M	A		EA	-
R507	090096	RES NTWK 1M X 8 2%	BECKMAN	LO9-1-R1M	A		EA	-
R508	050108	RES MF 470R 1% .4W 100PPM	NEOHM	LR0204	A		EA	-
C101	110042	CAP PE 100NF 20% 63V	WIMA	MKS2			EA	10
C102	110041	CAP PE 10NF 20% 100V	WIMA	FKS2			EA	5
C103	110042	CAP PE 100NF 20% 63V	WIMA	MKS2			EA	-
C104	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E4732A	A		EA	29
C105	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E4732A	A		EA	-
C106	110042	CAP PE 100NF 20% 63V	WIMA	MKS2			EA	-
C107	110041	CAP PE 10NF 20% 100V	WIMA	FKS2			EA	-
C108	110042	CAP PE 100NF 20% 63V	WIMA	MKS2			EA	-
C109	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E4732A	A		EA	-
C110	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E4732A	A		EA	-
C111	100330	CAP CP 33PF 2% 100V	PHILLIPS	2222 683 34339			EA	1
C112	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E4732A	A		EA	-
C113	150020	CAP DT 10UF 20% 25V	AVX	TAP10M25F	A		EA	2
C114	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E4732A	A		EA	-
C115	110050	CAP PE 22NF 10% 63V	WIMA	MKS4			EA	1
C116	110035	CAP PE 220NF 20% 63V	WIMA	MKS2			EA	2
C117	150020	CAP DT 10UF 20% 25V	AVX	TAP10M25F	A		EA	-
C118	110035	CAP PE 220NF 20% 63V	WIMA	MKS2			EA	-

DESIG	PART NO	DESCRIPTION	PRINC MANUF	MANUF PART NUMBER	CLASS	UM	QUANTITY	CHANGES
C119	110041	CAP PE 10NF 20% 100V	WIMA	FKS2			EA	-
C120	110030	CAP PE 1NF 20% 100V	WIMA	FKS2			EA	5
C201	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A		EA	-
C202	110041	CAP PE 10NF 20% 100V	WIMA	FKS2			EA	-
C203	110030	CAP PE 1NF 20% 100V	WIMA	FKS2			EA	-
C204	110030	CAP PE 1NF 20% 100V	WIMA	FKS2			EA	-
C205	120019	CAP PC 1UF 10% 63V	ASHCROFT	M2B10201B			EA	4
C206	120019	CAP PC 1UF 10% 63V	ASHCROFT	M2B10201B			EA	-
C207	100270	CAP CP 27PF 2% 100V	PHILIPS	2222 683 34279			EA	4
C208	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A		EA	-
C209	110046	CAP PE 1UF 20% 50V	WIMA	MKS2 1UF 20% 50V	A		EA	11
C210	110046	CAP PE 1UF 20% 50V	WIMA	MKS2 1UF 20% 50V	A		EA	-
C211	100270	CAP CP 27PF 2% 100V	PHILIPS	2222 683 34279			EA	-
C212	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A		EA	-
C213	110046	CAP PE 1UF 20% 50V	WIMA	MKS2 1UF 20% 50V	A		EA	-
C214	110046	CAP PE 1UF 20% 50V	WIMA	MKS2 1UF 20% 50V	A		EA	-
C215	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A		EA	-
C216	110046	CAP PE 1UF 20% 50V	WIMA	MKS2 1UF 20% 50V	A		EA	-
C217	140086	CAP PP 10NF 5% 63V	WIMA	FKP2			EA	2
C218	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A		EA	-
C219	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A		EA	-
C220	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A		EA	-
C221	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A		EA	-
C222	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A		EA	-
C223	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A		EA	-
C302	110041	CAP PE 10NF 20% 100V	WIMA	FKS2			EA	-
C303	110030	CAP PE 1NF 20% 100V	WIMA	FKS2			EA	-
C304	110030	CAP PE 1NF 20% 100V	WIMA	FKS2			EA	-
C305	120019	CAP PC 1UF 10% 63V	ASHCROFT	M2B10201B			EA	-
C306	120019	CAP PC 1UF 10% 63V	ASHCROFT	M2B10201B			EA	-
C307	100270	CAP CP 27PF 2% 100V	PHILIPS	2222 683 34279			EA	-
C308	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A		EA	-
C309	110046	CAP PE 1UF 20% 50V	WIMA	MKS2 1UF 20% 50V	A		EA	-
C310	110046	CAP PE 1UF 20% 50V	WIMA	MKS2 1UF 20% 50V	A		EA	-
C311	100270	CAP CP 27PF 2% 100V	PHILIPS	2222 683 34279			EA	-
C312	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A		EA	-
C313	110046	CAP PE 1UF 20% 50V	WIMA	MKS2 1UF 20% 50V	A		EA	-
C314	110046	CAP PE 1UF 20% 50V	WIMA	MKS2 1UF 20% 50V	A		EA	-
C315	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A		EA	-
C316	110046	CAP PE 1UF 20% 50V	WIMA	MKS2 1UF 20% 50V	A		EA	-
C317	140086	CAP PP 10NF 5% 63V	WIMA	FKP2			EA	-
C318	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A		EA	-
C319	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A		EA	-
C320	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A		EA	-
C321	00000N	NOT FITTED					EA	-

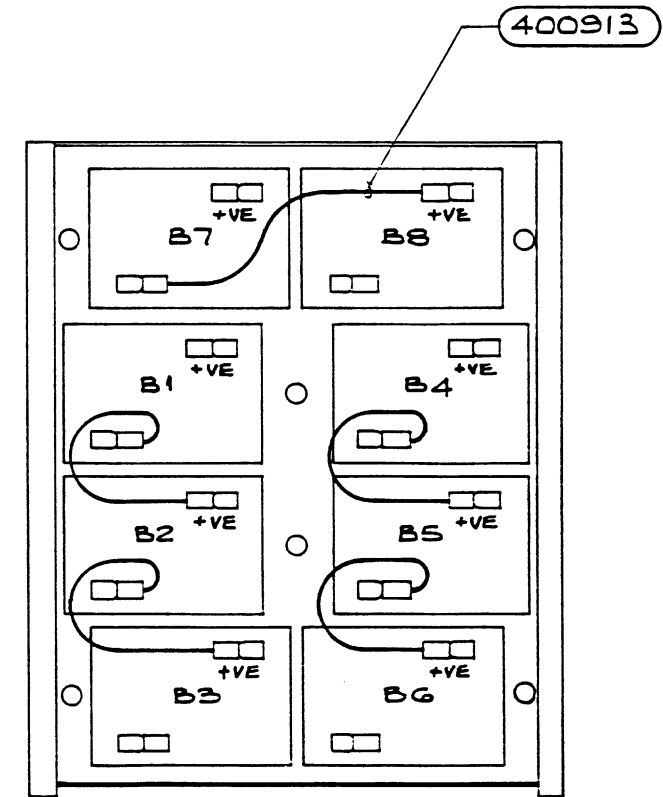
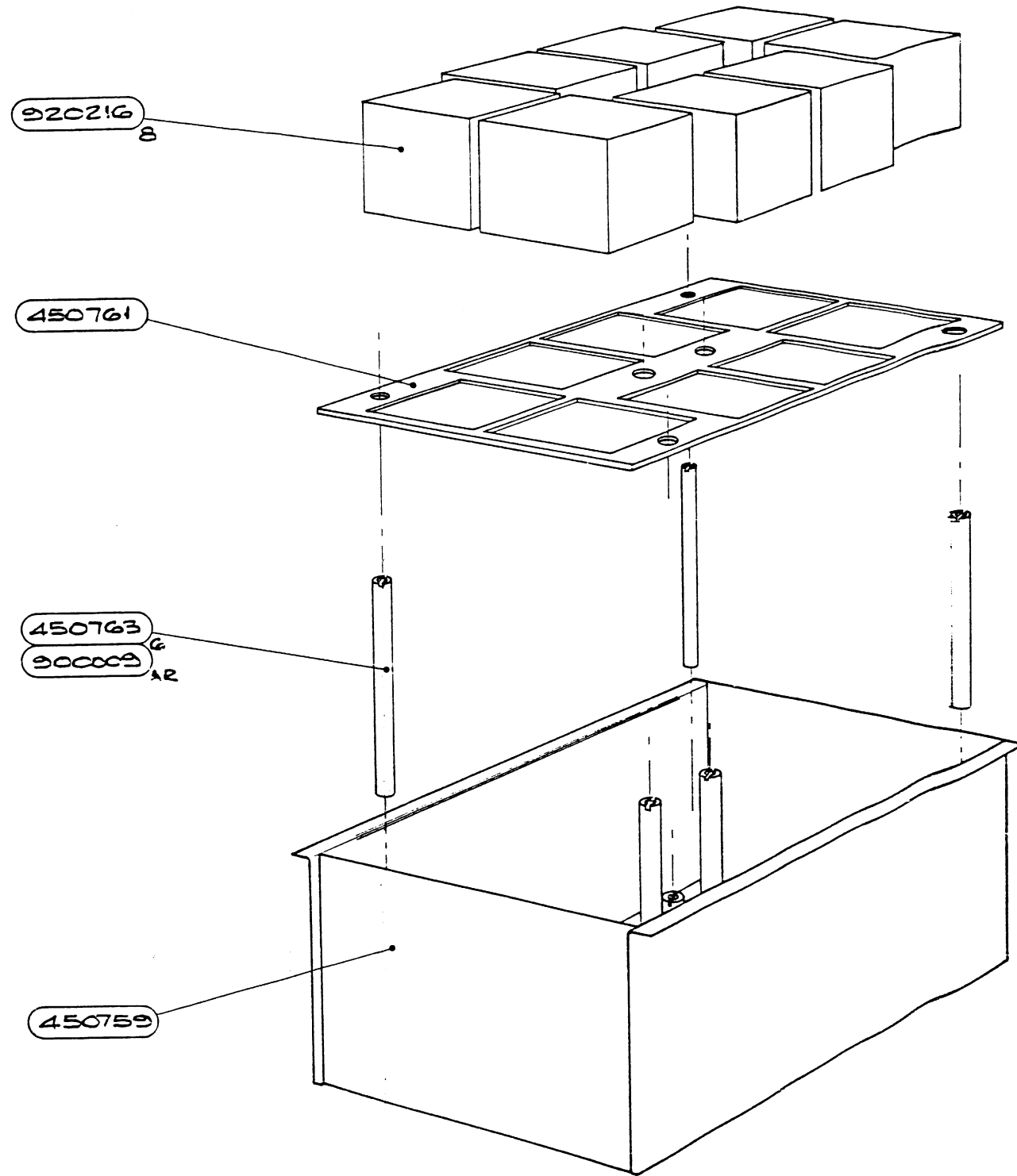
DESIG	PART NO	DESCRIPTION	PRINC MANUF	MANUF PART NUMBER	CLASS	UM	QUANTITY	CHANGES
C322	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A		EA	-
C323	00000N	NOT FITTED					EA	-
C401	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A		EA	-
C402	110020	CAP PE 47NF 20% 63V	WIMA	MKS2			EA	3
C403	110020	CAP PE 47NF 20% 63V	WIMA	MKS2			EA	-
C404	110020	CAP PE 47NF 20% 63V	WIMA	MKS2			EA	-
C405	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A		EA	-
C406	110042	CAP PE 100NF 20% 63V	WIMA	MKS2			EA	-
C407	110042	CAP PE 100NF 20% 63V	WIMA	MKS2			EA	-
C408	110042	CAP PE 100NF 20% 63V	WIMA	MKS2			EA	-
C409	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A		EA	-
C410	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A		EA	-
C411	110046	CAP PE 1UF 20% 50V	WIMA	MKS2 1UF 20% 50V	A		EA	-
C412	110042	CAP PE 100NF 20% 63V	WIMA	MKS2			EA	-
C413	110042	CAP PE 100NF 20% 63V	WIMA	MKS2			EA	-
C414	110042	CAP PE 100NF 20% 63V	WIMA	MKS2			EA	-
C415	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A		EA	-
C416	104026	CAP CM 47NF +80%-20% 50V	AVX	SR175E473ZA	A		EA	-
C501	100221	CAP CP 220PF 2% 100V	PHILIPS	2222 683 58221			EA	1
C502	150002	CAP DT 10UF 20% 16V	AVX	TAP10M16F	A		EA	1
C503	104067	CAP CA 100NF +80%-20% 50V	AVX	SA105E104ZAA	A		EA	8
C504	104067	CAP CA 100NF +80%-20% 50V	AVX	SA105E104ZAA	A		EA	-
C505	104067	CAP CA 100NF +80%-20% 50V	AVX	SA105E104ZAA	A		EA	-
C506	104067	CAP CA 100NF +80%-20% 50V	AVX	SA105E104ZAA	A		EA	-
C507	104067	CAP CA 100NF +80%-20% 50V	AVX	SA105E104ZAA	A		EA	-
C508	104067	CAP CA 100NF +80%-20% 50V	AVX	SA105E104ZAA	A		EA	-
C509	104067	CAP CA 100NF +80%-20% 50V	AVX	SA105E104ZAA	A		EA	-
C510	104067	CAP CA 100NF +80%-20% 50V	AVX	SA105E104ZAA	A		EA	-
D101	210047	DIODE ZN 4V7 400mW	PHILIPS	B2X79C4V7	A		EA	5
D102	210047	DIODE ZN 4V7 400mW	PHILIPS	B2X79C4V7	A		EA	-
D103	210047	DIODE ZN 4V7 400mW	PHILIPS	B2X79C4V7	A		EA	-
D104	200001	DIODE GP 75mA 75V	FAIRCHILD	1N4148			EA	9
D105	200001	DIODE GP 75mA 75V	FAIRCHILD	1N4148			EA	-
D106	200001	DIODE GP 75mA 75V	FAIRCHILD	1N4148			EA	-
D107	213022	DIODE TS 10V 5/500W	UNITRODE	TVS510	A		EA	1
D108	200001	DIODE GP 75mA 75V	FAIRCHILD	1N4148			EA	-
D109	210043	DIODE ZN 4V3 400mW	PHILIPS	B2X79C4V3	A		EA	1
D110	200001	DIODE GP 75mA 75V	FAIRCHILD	1N4148			EA	-
D111	200001	DIODE GP 75mA 75V	FAIRCHILD	1N4148			EA	-
D114	200001	DIODE GP 75mA 75V	FAIRCHILD	1N4148			EA	-
D115	200001	DIODE GP 75mA 75V	FAIRCHILD	1N4148			EA	-
D116	214014	DIODE ZN 1V22 100PPM	TELEDYNE	9491BJ	A		EA	2
D117	214014	DIODE ZN 1V22 100PPM	TELEDYNE	9491BJ	A		EA	9
D201	200005	DIODE SB 200mA 30V	PHILIPS	BAT85			EA	2
D202	200005	DIODE SB 200mA 30V	PHILIPS	BAT85			EA	-

DESIG	PART NO	DESCRIPTION	PRINC MANUF	MANUF PART NUMBER	CLASS	UM	QUANTITY	CHANGES
D203	200005	DIODE SB 200mA 30V	PHILIPS	BAT85			EA	-
D204	200005	DIODE SB 200mA 30V	PHILIPS	BAT85			EA	-
D301	200005	DIODE SB 200mA 30V	PHILIPS	BAT85			EA	-
D302	200005	DIODE SB 200mA 30V	PHILIPS	BAT85			EA	-
D303	200005	DIODE SB 200mA 30V	PHILIPS	BAT85			EA	-
D304	200005	DIODE SB 200mA 30V	PHILIPS	BAT85			EA	-
D401	210047	DIODE ZN 4V7 400mW	PHILIPS	BZX79C4V7		A	EA	-
D402	213006	DIODE TS 5V 5/500W	UNITRODE	TVS505		A	EA	2
D403	210047	DIODE ZN 4V7 400mW	PHILIPS	BZX79C4V7		A	EA	-
D404	213006	DIODE TS 5V 5/500W	UNITRODE	TVS505		A	EA	-
D405	200001	DIODE GP 75mA 75V	FAIRCHILD	1N4148			EA	-
D501	200005	DIODE SB 200mA 30V	PHILIPS	BAT85			EA	-
Q101	240001	TRAN NPN	MOTOROLA	BC184			EA	6
Q102	240001	TRAN NPN	MOTOROLA	BC184			EA	-
Q104	240001	TRAN NPN	MOTOROLA	BC184			EA	-
Q105	240001	TRAN NPN	MOTOROLA	BC184			EA	-
Q201	230039	TRAN JFET P CHAN	SILICONIX	J175			EA	6
Q202	230038	TRAN JFET N-CHAN	SILICONIX	J112			EA	2
Q203	230039	TRAN JFET P CHAN	SILICONIX	J175			EA	-
Q204	230039	TRAN JFET P CHAN	SILICONIX	J175			EA	-
Q205	239087-1	TRAN JFET SET J106 X 2	DATRON	SEE DRG			S2	2
Q206	239087-1	TRAN JFET SET J106 X 2	DATRON	SEE DRG			S2	-
Q207	230086	TRAN MOSFET P-CHAN 60V	FERRANTI	ZVP2106A		A	EA	2
Q208	230082	TRAN MOSFET N-CHAN 60V	SILICONIX	VN10LM			EA	2
Q209	230031	TRAN JFET N-CHAN DUAL	SILICONIX	U404			EA	4
Q210	230031	TRAN JFET N-CHAN DUAL	SILICONIX	U404			EA	-
Q301	230039	TRAN JFET P CHAN	SILICONIX	J175			EA	-
Q302	230038	TRAN JFET N-CHAN	SILICONIX	J112			EA	-
Q303	230039	TRAN JFET P CHAN	SILICONIX	J175			EA	-
Q304	230039	TRAN JFET P CHAN	SILICONIX	J175			EA	-
Q305	239087-1	TRAN JFET SET J106 X 2	DATRON	SEE DRG			S2	-
Q306	239087-1	TRAN JFET SET J106 X 2	DATRON	SEE DRG			S2	-
Q307	230086	TRAN MOSFET P-CHAN 60V	FERRANTI	ZVP2106A		A	EA	-
Q308	230082	TRAN MOSFET N-CHAN 60V	SILICONIX	VN10LM			EA	-
Q309	230031	TRAN JFET N-CHAN DUAL	SILICONIX	U404			EA	-
Q310	230031	TRAN JFET N-CHAN DUAL	SILICONIX	U404			EA	-
Q402	240001	TRAN NPN	MOTOROLA	BC184			EA	-
Q404	240001	TRAN NPN	MOTOROLA	BC184			EA	-
U101	260082	IC LIN OP AMP CHOPPER	LINEAR TECHNOLOGY	LTC1052CN8			EA	4
U102	260065	IC LIN OP AMP	PMI	OP27FZ		A	EA	4
U103	260082	IC LIN OP AMP CHOPPER	LINEAR TECHNOLOGY	LTC1052CN8			EA	-
U104	260065	IC LIN OP AMP	PMI	OP27FZ		A	EA	-
U105	260025	IC LIN OP AMP	NATIONAL	LM101AH			EA	1
U106	260033	IC LIN REG 5V .1A	MOTOROLA	MC78L05ACP			EA	1
U201	220027	OPTO ISOL HIGH CMR	H.P.	HCPL-2601		A	EA	1

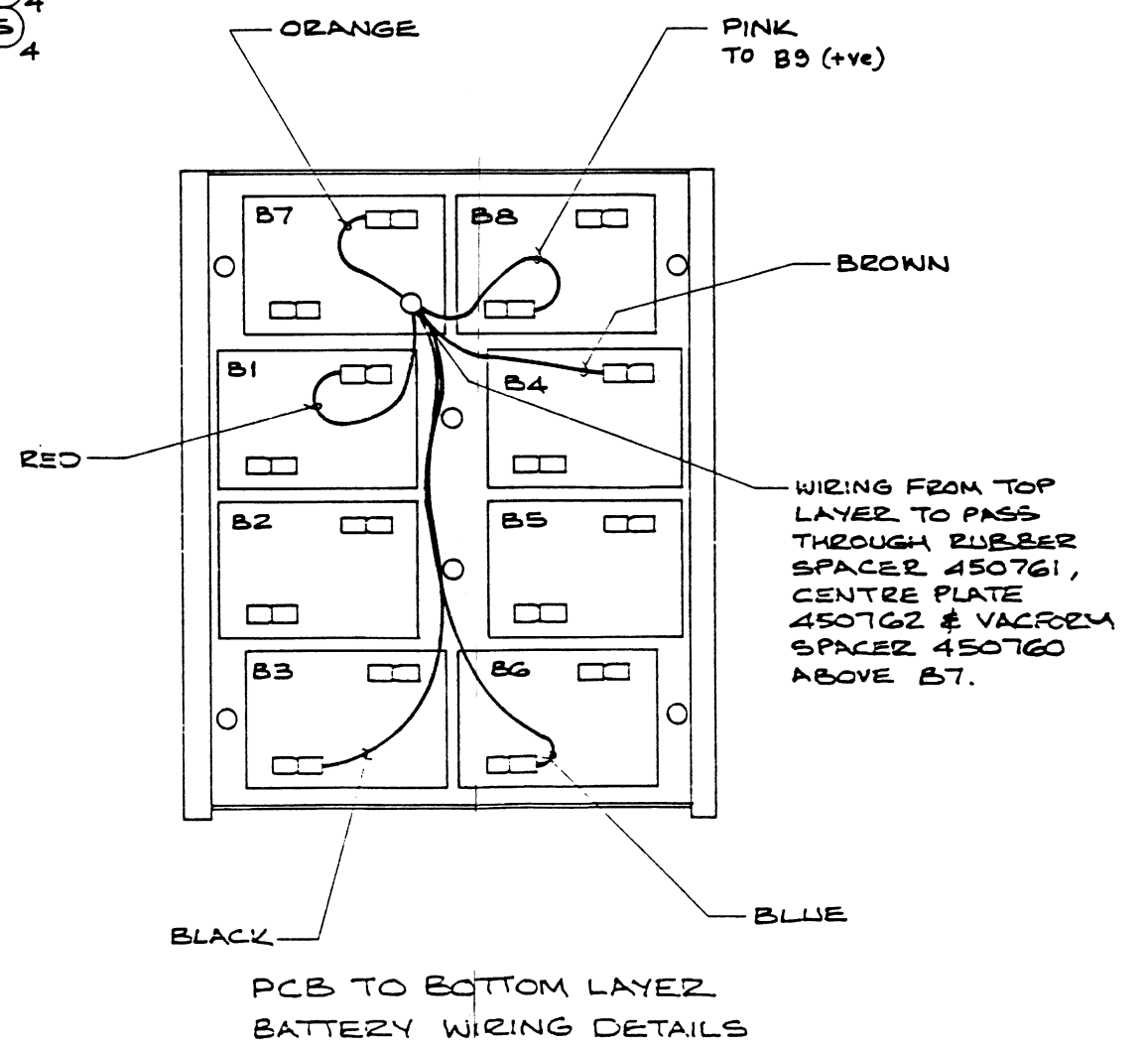
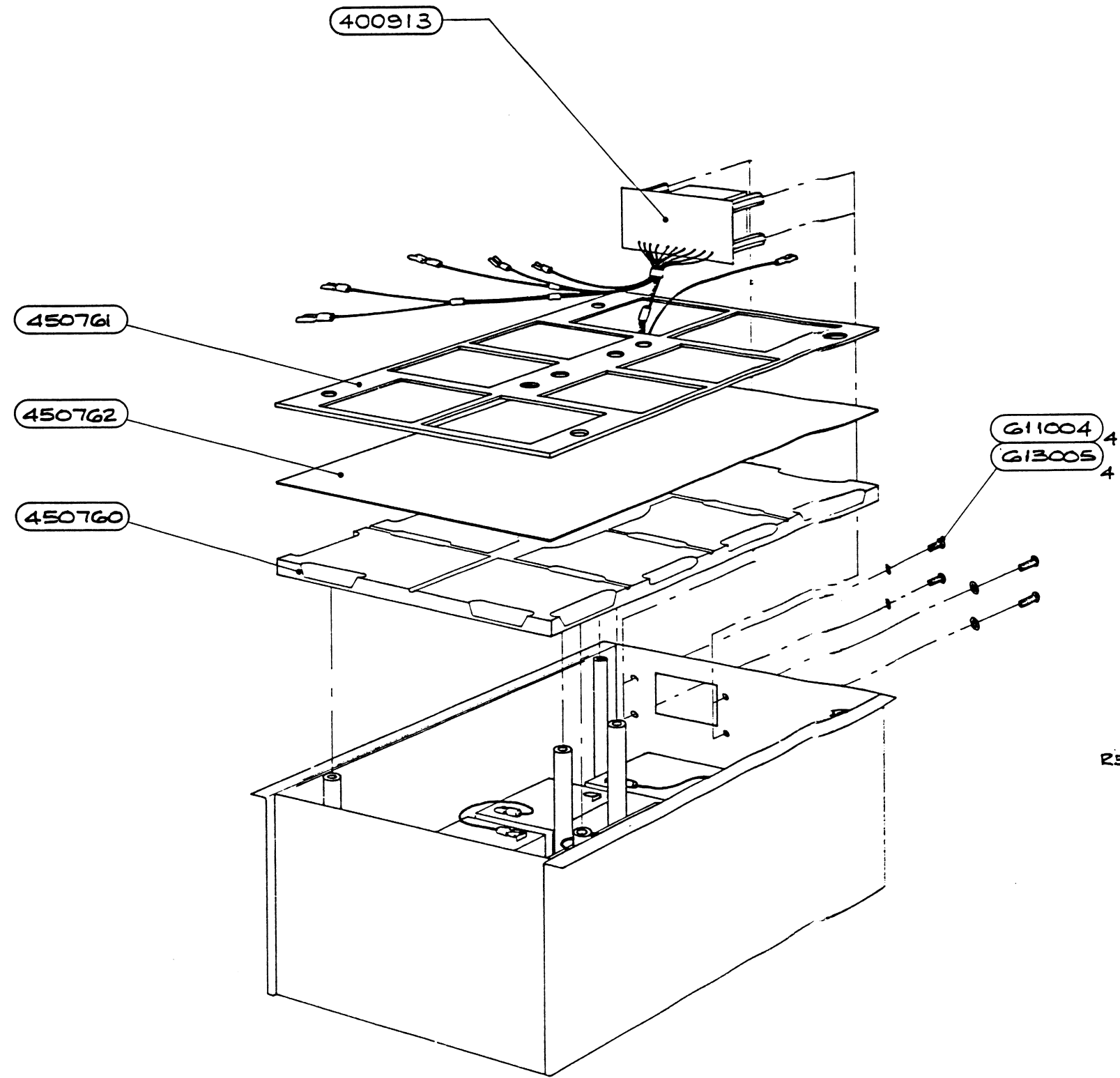
DESIG	PART NO	DESCRIPTION	PRINC MANUF	MANUF PART NUMBER	CLASS	UM	QUANTITY	CHANGES
U202	280182	IC DIG FLIP FLOP D X2	NATIONAL	74AC74PC			EA	3
U203	280185	IC DIG INV MOSFET DRIVER X2	INTERMIL	ICL7667CPA			EA	4
U204	280185	IC DIG INV MOSFET DRIVER X2	INTERMIL	ICL7667CPA			EA	4
U205	260057	IC LIN OP AMP	SIGNETICS	NE5534N			EA	4
U206	260057	IC LIN OP AMP	SIGNETICS	NE5534N			EA	-
U207	260107	IC LIN OP AMP	PRECISION MONOLITHIC	OP07CP			EA	2
U302	280182	IC DIG FLIP FLOP D X2	NATIONAL	74AC74PC			EA	-
U303	280185	IC DIG INV MOSFET DRIVER X2	INTERMIL	ICL7667CPA			EA	-
U304	280185	IC DIG INV MOSFET DRIVER X2	INTERMIL	ICL7667CPA			EA	-
U305	260057	IC LIN OP AMP	SIGNETICS	NE5534N			EA	-
U306	260057	IC LIN OP AMP	SIGNETICS	NE5534N			EA	-
U307	260107	IC LIN OP AMP	PRECISION MONOLITHIC	OP07CP			EA	-
U401	220041	OPTO ISOL 3KV DUAL	H.P.	HCPL-2631		A	EA	1
U402	280190	IC DIG SWITCH ANALOG 2NO 2NC	SILICONIX	DG413DJ			EA	1
U403	260088	IC LIN OP AMP PREC.	LINEAR TECHNOLOGY	LT1013CH			EA	1
U404	260082	IC LIN OP AMP CHOPPER	LINEAR TECHNOLOGY	LTC1052CN8			EA	-
U405	260065	IC LIN OP AMP	PMI	OP27FZ		A	EA	-
U406	260082	IC LIN OP AMP CHOPPER	LINEAR TECHNOLOGY	LTC1052CN8			EA	-
U407	260065	IC LIN OP AMP	PMI	OP27FZ		A	EA	-
U501	280141	IC DIG COUNTS SYNC BIN PL DN	SGS	M74HC4103B1			EA	4
U502	280141	IC DIG COUNTS SYNC BIN PL DN	SGS	M74HC4103B1			EA	-
U503	280182	IC DIG FLIP FLOP D X2	NATIONAL	74AC74PC			EA	-
U504	280166	IC DIG NAND2 X4	TEXAS	SN74HC00N		A	EA	1
U505	280188	IC DIG NAND2 X4	RCA	CD74AC00E			EA	2
U506	280188	IC DIG NAND2 X4	RCA	CD74AC00E			EA	-
U507	280141	IC DIG COUNTS SYNC BIN PL DN	SGS	M74HC4103B1			EA	-
U508	280141	IC DIG COUNTS SYNC BIN PL DN	SGS	M74HC4103B1			EA	-
T201	310002-2	TRANSP PULSE	NEWPORT	SEE DRG			EA	4
T202	310002-2	TRANSP PULSE	NEWPORT	SEE DRG			EA	-
T301	310002-2	TRANSP PULSE	NEWPORT	SEE DRG			EA	-
T302	310002-2	TRANSP PULSE	NEWPORT	SEE DRG			EA	-
L101	370001	CHOKE RF 10UH	SIGMA	SC10/25		A	EA	2
L102	370001	CHOKE RF 10UH	SIGMA	SC10/25		A	EA	-
P5	604111	PLUG 15-WAY PCB 10.3 D TYPE	AMP	343647-2			EA	1
P608	604106	PLUG PCB 32-WAY	BICC-VERO	905-72216J			EA	1
J9	604113	PLUG PCB 10-WAY .1" SIL	SAMTEK	BBL-110-G-E			EA	1
J609	604085	PLUG PCB 2-WAY .1"	MOLEX	22-29-2021			EA	1
E501	612026-1	STANDOFF M3 X 6	DATRON	SEE DRG			EA	5
E502	00000N	NOT FITTED					EA	-
E503	00000N	NOT FITTED					EA	-
E504	00000N	NOT FITTED					EA	-
E505	00000N	NOT FITTED					EA	-
TP101	620007	TEST POINT TERMINAL	MICROVAR	TYPE C30			EA	4
TP102	620007	TEST POINT TERMINAL	MICROVAR	TYPE C30			EA	-
TP201	620007	TEST POINT TERMINAL	MICROVAR	TYPE C30			EA	-

DESIG	PART NO	DESCRIPTION	PRINC MANUF	MANUF PART NUMBER	CLASS	UM	QUANTITY	CHANGES
TP301	620007	TEST POINT TERMINAL	MICROVAR	TYPE C30	EA	-		
S501	700118	SWITCH 16 POS ROTARY DIP	OMRON	A6CR-16R	EA	5		
S502	700118	SWITCH 16 POS ROTARY DIP	OMRON	A6CR-16R	EA	-		
S503	700118	SWITCH 16 POS ROTARY DIP	OMRON	A6CR-16R	EA	-		
S504	700118	SWITCH 16 POS ROTARY DIP	OMRON	A6CR-16R	EA	-		
S505	700118	SWITCH 16 POS ROTARY DIP	OMRON	A6CR-16R	EA	-		
	400940-1	ASSY PCB COUNTER PLUG IN 4910	DATRON	SEE DRG	EA	1		
	410434-1	PCB OUTPUT 4910		SEE DRG	EA	1		
	420098	LABEL SERIAL/ASSY No.	RS COMPONENTS	554-793	EA	1		
	420112-1	LABEL SSD WARNING 12 X 12mm	TEKNIS	LN1212	A	EA	1	
	450741-3	SCREEN WALL 4MHz LOWER 4910		SEE DRG	EA	1		
	450794-2	SCREEN WALL 4MHz UPPER 4910		SEE DRG	EA	1		
	450824-1	SCREEN WALL 60Hz UPPER OUPUT		SEE DRG	EA	1		
	450825-1	SCREEN WALL 60Hz LOWER OUPUT		SEE DRG	EA	1		
	450834-A	SCREEN GASKET 60Hz OUPUT 4910		SEE DRG	EA	2		
	450835-A	SCREEN COVER OUTPUT 4910		SEE DRG	EA	2		
	450836-A	SCREEN GASKET 4MHz OUPUT 4910		SEE DRG	EA	2		
	611016	SCREW M3 X 8 POZIPAN SZP			EA	5		
	611096	SCREW M2.5 X 12 POZIPAN SZP			EA	2		
	611115	SCREW M3 X 25 POZIPAN SZP			EA	4		
	612026-1	STANDOFF M3 X 6	DATRON	SEE DRG	EA	-		
	613029	WASHER M3 WAVY SS			EA	7		
	613047	WASHER M2.5 WAVY SS			EA	2		
	614016-1	SPACER M3 X 14 CLEAR		SEE DRG	EA	4		
	615002	NUT FULL M3 SZP			EA	2		
	615006	NUT FULL M2.5 SZP			EA	2		
	618015	COMPONENT CARRIER	JERMYN	J22-4019	EA	23		
	630024	BEAD CERAMIC 16 SWG	PARK ROYAL PORCELAIN	No2	EA	6		
	630112	PCB EJECTOR BLACK	RICHCO	CBE	EA	2		
	630243	BEAD GLASS 2.4 X 0.81 X 1.8	MANSOL (PREFORMS)	LT M5363B/3	EA	58		
ST101	99912S	STAR-POINT 12 NOT FITTED			EA	1		

End

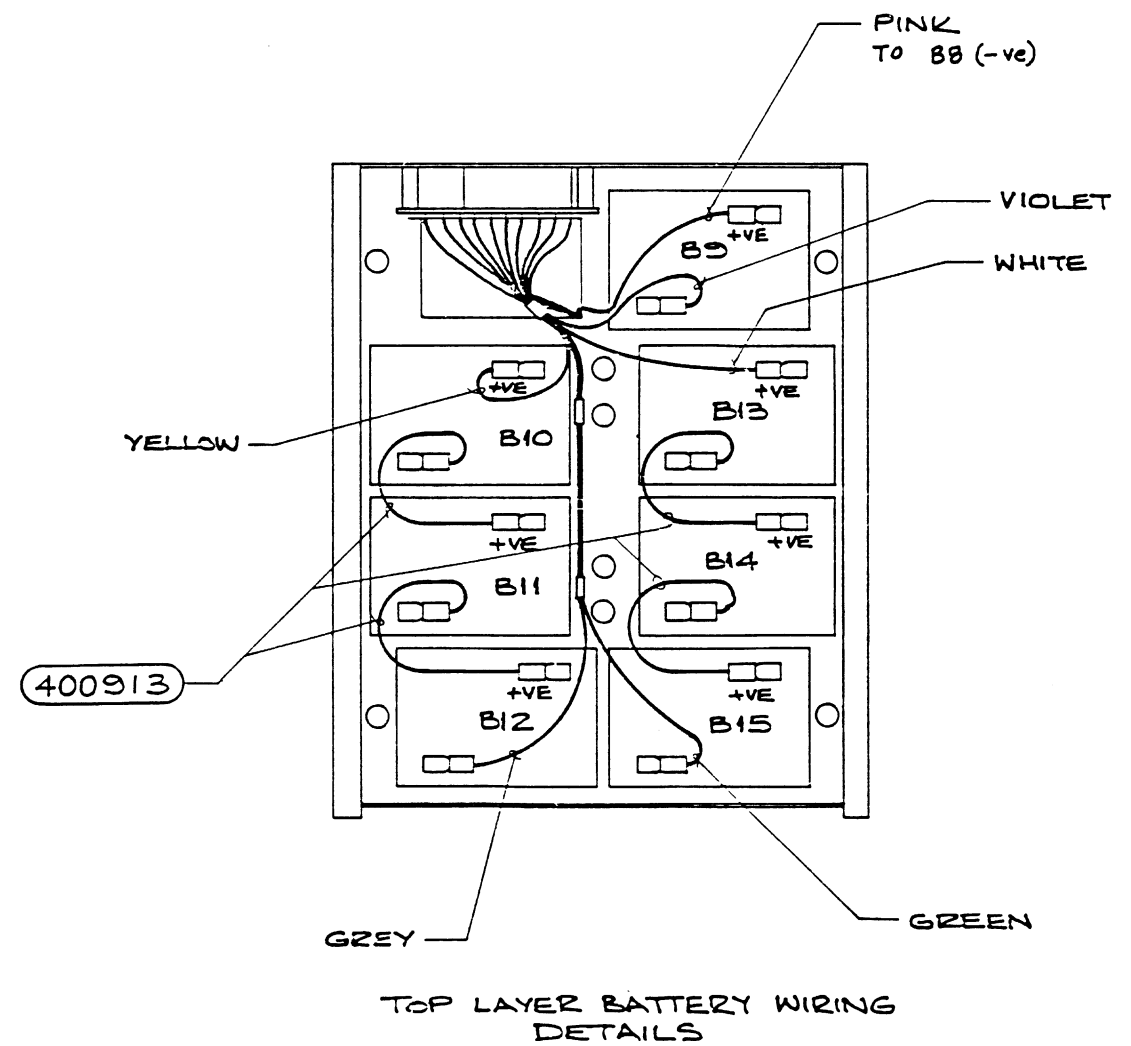
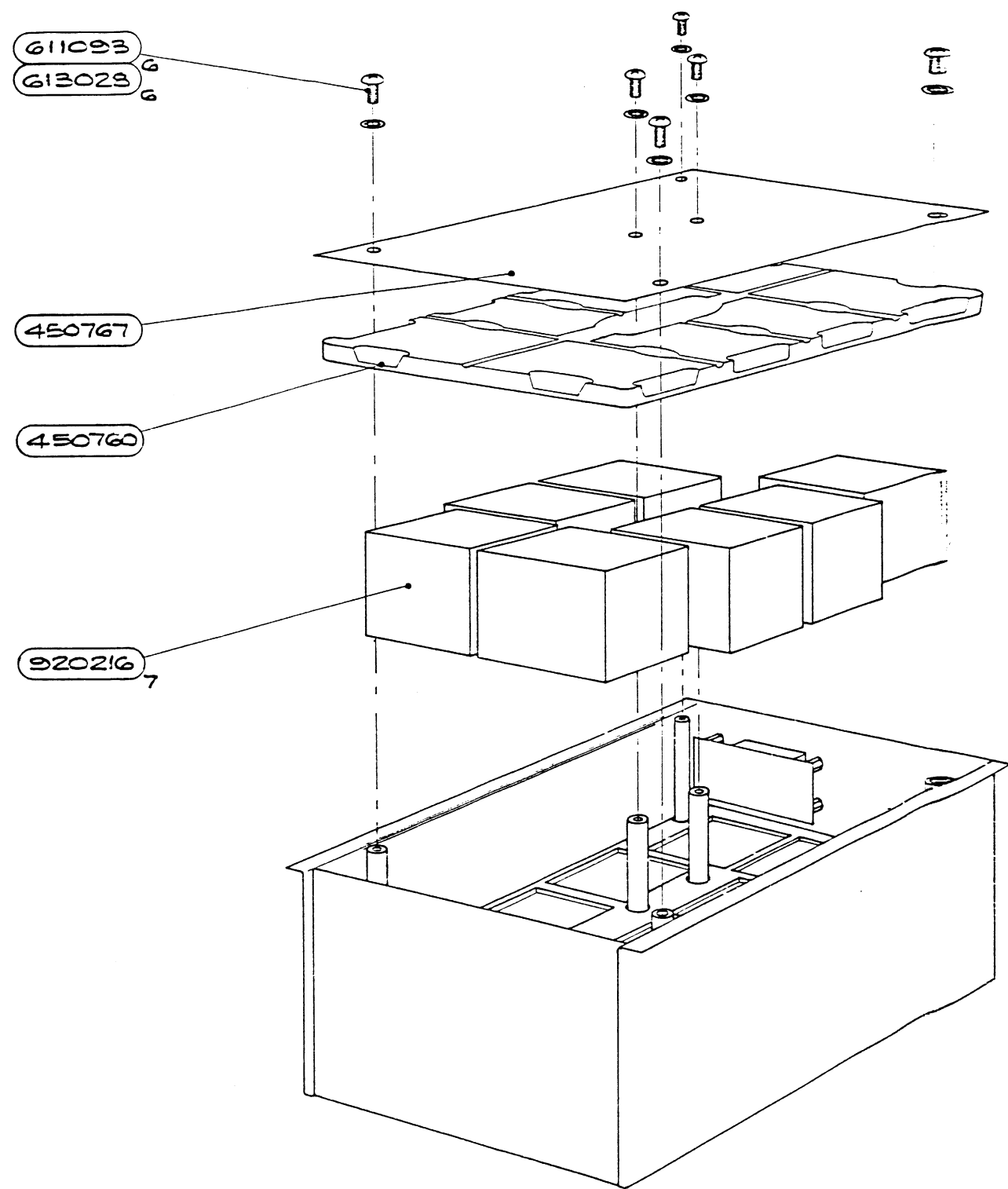


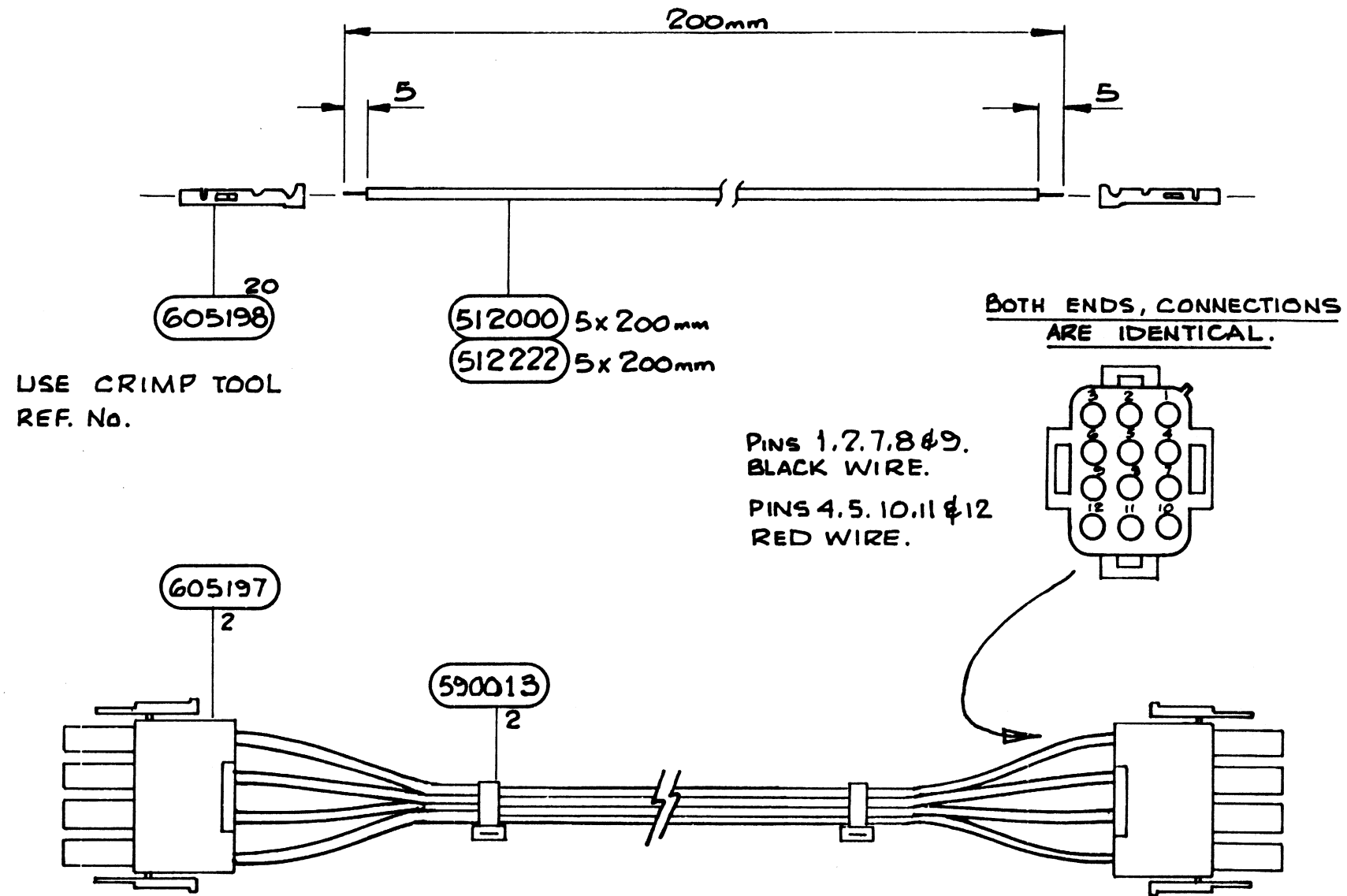
BOTTOM LAYER BATTERY WIRING
DETAILS



BATTERY TRAY ASSEMBLY
Drawing No. DA400885 Sheet 2

4910/4911
datron
WAVETEK
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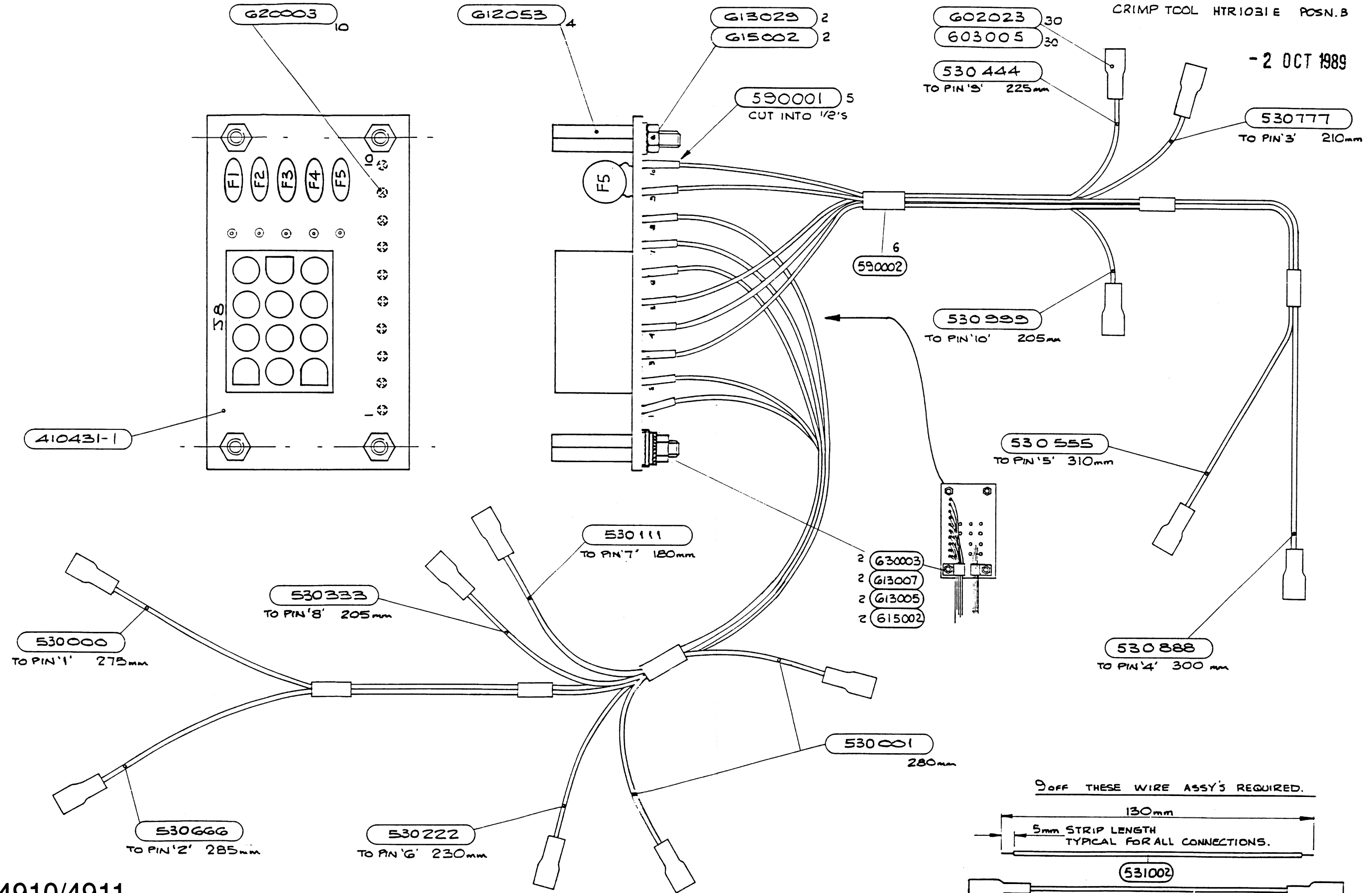


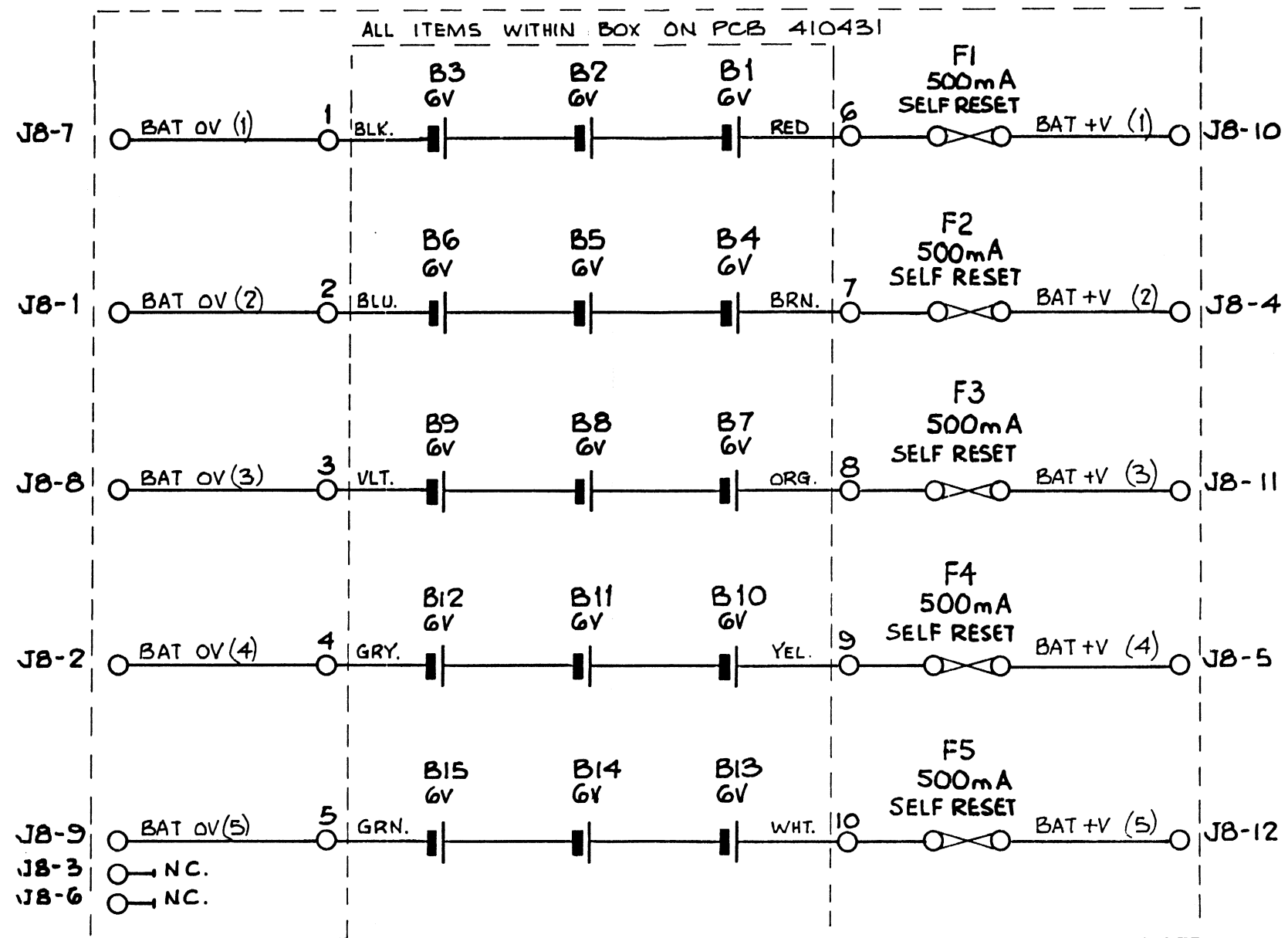


BATTERY CABLE ASSEMBLY
Drawing No. DA400908 Sheet 1

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- 2 OCT 1989





BATTERY TRAY ASSEMBLY
 Battery Tray PCB Assembly
 Drawing No. DC400913 Sheet 1

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 WAVETEK
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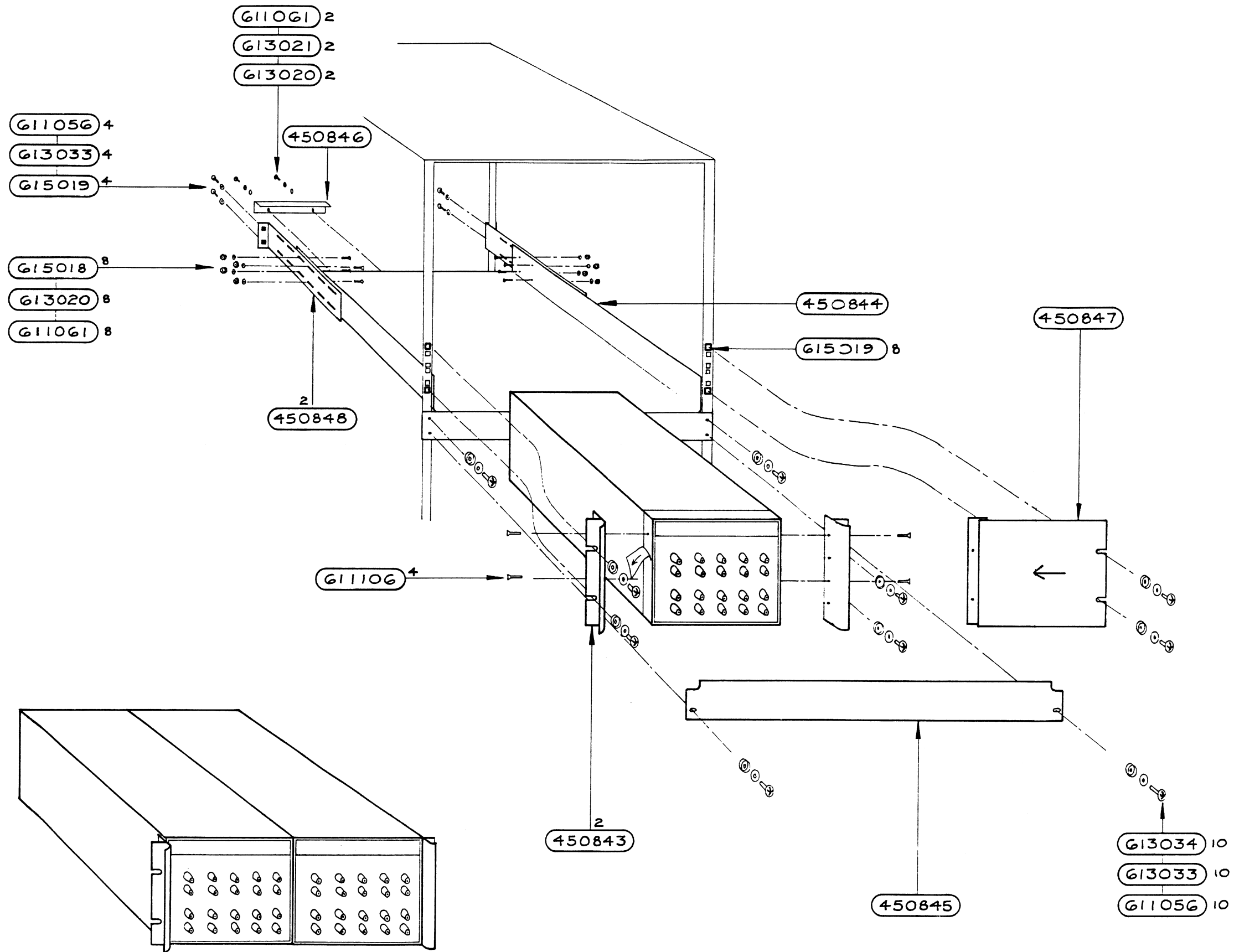
DRAWING NO.		ECCD		DATE		ECCO		REVISION	
LD400913								1.0 3310 20.3.89 BY	
DOCUMENT LIST								1.1 3426 21.9.89 AD	
DESCRIPTION								1.2 3425 21.9.89 AD	
DESCRIPTION	DRAWING NUMBER	SHEET NUMBER	ISSUE - REVISION						
LP400913	ALL	1.0	1.0	1.1	1.1	1.2	1.2		
DA400913	1	1	1.0	1.1	1.1	1.2	1.2		
DC400913	1	1	1.0	1.1					
410431	ALL	A.0							
<input type="checkbox"/> DENOTES NO CHANGE TO DCS AT ISSUE LEVEL CHANGE			 datron NORWICH ENGLAND		DRN B.S. JACKSON DATE 15.5.89	CHKD RRS DATE 23 JUN 89	APPD RUF DATE 28 JUN 89	TITLE 4910/4911 BATTERY TRAY PCB ASSEMBLY	DRAWING No. LD400913 SHEET 1 OF 1

- 2 OCT 1989

DATRON INSTRUMENTS LTD PARTS LIST 03-Oct-89 DESC: ASSY PCB BATTERY TRAY 4910 DRG NO: LP400913-1 REV: 2 PAGE NO: 1

DESIG	PART NO	DESCRIPTION	PRINC MANUF	MANUF PART NUMBER	CLASS UM	QUANTITY	CHANGES
J8	604108	PLUG PCB 12-WAY	AMP	350433-2	EA	1	
F1	920230	FUSE 500mA 60V SELF RESET	BOURNS	MP-R050	EA	5	
F2	920230	FUSE 500mA 60V SELF RESET	BOURNS	MP-R050	EA	-	
F3	920230	FUSE 500mA 60V SELF RESET	BOURNS	MP-R050	EA	-	
F4	920230	FUSE 500mA 60V SELF RESET	BOURNS	MP-R050	EA	-	
P5	920230	FUSE 500mA 60V SELF RESET	BOURNS	MP-R050	EA	-	
	410431-1	PCB BATTERY TRAY 4910		SEE DRG	EA	1	
	530000	WIRE 24/.2 PVC 1.5KV BLK		DEF61-12	AR	1	
	530111	WIRE 24/.2 PVC 1.5KV BRN		DEF61-12	AR	1	
	530222	WIRE 24/.2 PVC 1.5KV RED		DEF61-12	AR	1	
	530333	WIRE 24/.2 PVC 1.5KV ORG		DEF61-12	AR	1	
	530444	WIRE 24/.2 PVC 1.5KV YEL		DEF61-12	AR	1	
	530555	WIRE 24/.2 PVC 1.5KV GRN		DEF61-12	AR	1	
	530666	WIRE 24/.2 PVC 1.5KV BLU		DEF61-12	AR	1	
	530777	WIRE 24/.2 PVC 1.5KV VLT		DEF61-12	AR	1	
	530888	WIRE 24/.2 PVC 1.5KV GRY		DEF61-12	AR	1	
	530999	WIRE 24/.2 PVC 1.5KV WHI		DEF61-12	AR	1	
	531002	WIRE 24/.2 PVC 1.5KV PNK		DEF61-12	AR	1	
	590001	SLEEVE NP 1.5 X 20MM BLK	HELLERMANN	H15 X 20MM BLK	EA	5	
	590002	SLEEVE NP 3 X 25MM BLK	HELLERMANN	H30 X 25MM BLK	EA	6	
	602023	CONN UNINS CRIMP 4.8MM	RS COMPONENTS	533-257	EA	30	
	603005	CONN COVER 4.8MM	RS COMPONENTS	533-263	EA	30	
	612053	SPACER MALE/FEMALE X 15MM	HARWIN	R6342-02	EA	4	
	613005	WASHER M3 INT SHAKEPROOF			EA	2	
	613007	WASHER M3 PLAIN SZP			EA	2	
	613029	WASHER M3 WAVY SS			EA	2	
	615002	NUT FULL M3 SZP			EA	4	
	620003	SOLDER PIN	HARWIN	H2105A01	EA	10	
	630003	CLIP P 4.8	SRS	CNS	EA	2	

End




**OPTION 90
RACK MOUNTING KIT**

Drawing No. DA440161 Sheet 1



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DRAWING No. LD 440161		CHKD	
DOCUMENT LIST		DATE	
DISTRIBUTION		ECO	
		REVISION	
		ISSUE	
DESCRIPTION	DRAWING NUMBER	SHEET NUMBER	ISSUE - REVISION
PARTS LIST	LP440161	1	R.O.R.O.
ASSEMBLY DRAWING	DA440161	1	
CIRCUIT DIAGRAM	---		
TEST PROCEDURE	---		
TEST SPECIFICATION	---		
PCB	---		
NOTES <input type="checkbox"/> DENOTES NO CHANGE TO DOCS AT ISSUE LEVEL CHANGE		 DRN JR DATE 20-11-89	CHKD DATE APPD DATE
		TITLE	4910 RACK MOUNTING KIT
		DRAWING No.	LD 440161
		SHEET	1 of 1

DATRON INSTRUMENTS LTD PARTS LIST 16-Nov-89 DESC: KIT RACK MOUNT 4910 DRG NO: LP440161-R REV: 0 PAGE NO: 1

DESIG	PART NO	DESCRIPTION	PRINC MANUF	MANUF PART NUMBER	CLASS UM	QUANTITY	CHANGES
	450843-1	RACK EAR/HANDLE 4U 4910		SEE DRG		EA 2	
	450844-1	RACK MOUNTING TRAY 4910		SEE DRG		EA 1	
	450845-1	BLANKING PLATE 1U 4910		SEE DRG		EA 1	
	450846-1	BRACKET REAR CLAMP 4910		SEE DRG		EA 2	
	450847-1	BLANKING PLATE HALF RACK 4910		SEE DRG		EA 1	
	450848-1	BRACKET REAR SUPPORT 4910		SEE DRG		EA 2	
	611056	SCREW M6 X 16 POZIPAN ST.CR.PL				EA 14	
	611061	SCREW M4 X 12 POZIPAN SZP				EA 12	
	611106	SCREW 8-32 X 5/8 POZICSK SZP				EA 4	
	613020	WASHER M4 SZP				EA 12	
	613021	WASHER M4 INT. SHAKP.				EA 4	
	613033	WASHER M6 SZP	SCHROFF	21100-104		EA 14	
	613034	WASHER M6 PLASTIC BLK.	SCHROFF	21100-015		EA 10	
	615018	NUT NYLOCK M4 SZP				EA 8	
	615019	NUT CAGE M6 SZP	SCHROFF	21100-004		EA 12	

End

DATRON INSTRUMENTS FAILURE REPORT.

Please complete all sections and return with your instrument.

Company:
Division: Department/Mail Stop
User, Name: Telephone Ext
Serial number:
Datron Return Authorisation number Date of failure

Brief description of fault:
.....
.....
.....
.....

is the fault: Permanent Intermittent
if intermittent under what conditions does the fault re-appear
.....
.....
.....

Is the instrument normally enclosed in a rack? Yes No
Approximate ambient temperature

TERMS AND CONDITIONS OF SALE

1. GENERAL

The acceptance of a quotation, of any goods supplied, advice given or service rendered includes the acceptance of the following terms and conditions and no variation of or addition to the same shall be binding upon us unless expressly agreed in writing by us. Any order shall be subject to our written acceptance.

2. QUOTATION

Unless previously withdrawn our quotation is open to acceptance in writing within the period stated or where no period is stated within thirty (30) days after its date. We reserve the right to correct any errors or omissions in our quotation. Unless otherwise stated all quotations are firm and fixed. The prices quoted are based on manufacture of the quantity and type ordered and are subject to revision when interruptions, engineering changes or changes in quantity are caused or requested by the customer.

3. LIABILITY FOR DELAY

Any delivery times quoted are from the date of our written acceptance of any order and on receipt of all information and drawings to enable us to put the work in hand. Where delivery is to take place by instalments each such instalment shall constitute a separate contract. We will use our best endeavours to complete delivery of the goods or services in the period stated but accept no liability in damages or otherwise for failure to do so for any cause whatsoever. In all cases of delay the delivery time shall be extended by reasonable period having regard to the cause of delay.

4. PAYMENT

Payment shall be made net cash within thirty (30) days of delivery or in accordance with the payment terms set out in the quotation. Unless specifically stated to the contrary payment shall be in pounds sterling. In the event of any payment to us being overdue we may without prejudice to any other right suspend delivery to you or terminate the contract and/or charge you simple interest on overdue amounts at the rate of 2.5% above the ruling Bank of England Minimum Lending Rate. No payment to us shall in any circumstance be offset against any sum owing by us to you whether in respect of the present transaction or otherwise.

5. INSPECTION & TEST

All goods are fully inspected at our works and where practicable subjected to our standard tests before despatch. If tests are required to be witnessed by your representative notice of this must be given at the time of placing the order and notice of readiness will then be given to you seven (7) days in advance of such tests being carried out. In the event of any delay on your part in attending such tests or in carrying out inspection by you after seven (7) days notice of readiness the tests will proceed in your absence and shall be deemed to have been made in your presence and the inspection deemed to have been made by you. In any event you shall be required promptly after witnessing a test or receiving test results of witnessed or unwitnessed tests to notify us in writing of any claimed defects in the goods or of any respect in which it is claimed that the goods do not conform with the contract. Before you become entitled to reject any goods we are to be given reasonable time and opportunity to rectify them. You assume the responsibility that the goods stipulated by you are sufficient and suitable for your purpose and take all steps to ensure that the goods will be safe and without risk to health when properly used. Any additional certification demanded may incur extra cost for which a special quotation will be issued.

6. DELIVERY AND PACKING

All shipments are, unless otherwise specifically provided, Ex-works which is the address given on the invoice. An additional charge will be made for carriage and insurance as necessary with the provision that all shipments shall be insured and this insurance expense shall be paid by the purchaser. Where special domestic or export packing is specified a charge will be made to cover the extra expense involved.

7. DAMAGE IN TRANSIT

Claims for damage in transit or loss in delivery of the goods will only be considered if the carriers and ourselves receive notice of such damage within seven (7) days of delivery or in the event of loss of goods in transit within fourteen (14) days of consignment.

8. TRANSFER OF PROPERTY & RISK

Title and property of the goods shall pass when full payment has been received of all sums due to us whether in respect of the present transaction or not. The risk in the goods shall be deemed to have passed on delivery.

9. WARRANTY

We agree to correct, either by repair, or at our election, by replacement, any defects of material or workmanship which develop within the warranty period specified in the sales literature or quotation after delivery to the original purchaser. All items claimed defective must be promptly returned to us carriage paid unless otherwise arranged and will be returned to you free of charge. Unless otherwise agreed no warranty is made concerning components or accessories not manufactured by us. We will be released from all obligations under warranty in the event of repairs or modifications made by persons other than our own authorised service personnel unless such repairs are made with our prior written consent.

10. PATENTS

We will indemnify you against any claim of infringement of Letters Patent, Registered Design, Trade Mark or Copyright (published at the date of the contract) by the use or sale of any goods supplied or service rendered by us to you and against all costs and damages which you may incur and for which you may become liable in any action for such infringement. Provided always that this indemnity shall not apply to any infringement which is due to our having followed a design or instruction furnished or given by you or to the use of such goods or service in association or combination with any other article, material or service not supplied by us. This indemnity is conditional on your giving to us the earliest possible notice in writing of any claim being made or action threatened or brought against you and on your permitting us at our own expense to conduct litigation that may ensue and all negotiations for a settlement of the claim or action. You on your part warrant that any design or instruction furnished or given by you shall not cause us to infringe any Letter Patent, Registered Design, Trade Mark or Copyright in the execution of your order.

11. DOCUMENTATION

All drawings, plans, designs, software specifications, manuals and technical documents and information supplied by us for your use or information shall remain at all times our exclusive property and must not be copied, reproduced, transmitted or communicated to a third party without our prior written consent.

12. FRUSTRATION

If any contract or any part of it shall become impossible of performance or otherwise frustrated we shall be entitled to a fair and reasonable proportion of the price in respect of the work done up to the date thereof. For this purpose any monies previously paid by you shall be retained against the sum due to us under this provision. We may dispose of the goods as we think fit due allowance being made to you for the net proceeds thereof.

13. BANKRUPTCY

If the purchaser shall become bankrupt or insolvent, or being a Limited Company commence to be wound up or suffer a Receiver to be appointed, we shall be at liberty to treat the contract as terminated and be relieved of further obligations. This shall be without prejudice to our right to claim for damages for breach of contract.

14. LEGAL INTERPRETATION

Any contract will be deemed to be made in England and shall be governed and construed for all purposes and in all respects in accordance with English Law and only the Courts of England shall have jurisdiction.



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ATT. RUDD DECKER
 FOR BATTERY BOX
 DELIVERED THIS WEEK
 BY JI BAKER

WAVETEK

Alfons / Robert

4910 Battery (New Version) Set up Procedure

Equipment Required

6 1/2 Digit DMM (Wavetek 1271 or similar)
 10 Kohm +/- 0.1% (1/4 W) resistor

Objective

To adjust the charging voltage of the 4910 Power Supply Assembly (400971) to the correct level when replacing the battery box for the new version (400885-4 or later).

Note

The procedure is written for two different versions of Power Supply Assembly.
 400971 Issue A pcb (No test points)
 400971 Issue 1 or later

Procedure

Step 1

Remove battery box from the instrument.

Step 2

Connect 10Kohm resistor between pin 2 & 9 of J8 (Larger of the 2 "D" connectors usually connected to battery box).

Step 3

Measure voltage across R110 on the Power Supply Assembly (400971). Now adjust reading on DMM using R107 to read as below :

400971 Issue A	3.4535V +/-1mV
400971 Issue 1 or later	3.6937V +/-1mV

Step 4

Repeat Step 2 and 3 for other channels using connections as listed.

Resistor across Pins 3 & 11 of J8	Voltage across R210	Adjust R207
Resistor across Pins 5 & 12 of J8	Voltage across R310	Adjust R307
Resistor across Pins 6 & 14 of J8	Voltage across R410	Adjust R407
Resistor across Pins 8 & 15 of J8	Voltage across R510	Adjust R507

Step 5

Replace and reconnect new battery box.

Directie	Datum ontvangst			
	23 JULI 1999			
Datum:	23/7			
Aan:	RD			

Prepared by Andy Eddy

Date 15* February 1999

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Issue: 3.1
14 Aug 1998

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4910/11/12 PSU Assembly Test Procedure.

Test Equipment Required

1. 400971 PSU Test Rig
2. 1281 DMM

1. Initial Checks

- 1.1 Visually check the unit under test (UUT) for assembly faults, short circuits etc. Ensure that all relevant ECOs have been incorporated.
- 1.2 Using the DMM set to the 10M Ω range check that the insulation between the mounting tags of U101, 102, 103, 104 and 105 and the chassis is infinity.
- 1.3 Set all pots to mid travel.
- 1.4 Ensure that the transformer is connected to J101 and is pre-tested.

2. Initial Setting Up.

- 2.1 Connect the ribbon cables from the test rig to J1 and J2 on the UUT.
- 2.2 On the test rig select Channel 1. Set all Sense Switches to Closed. Set the DMM switch to Volts and the Load Switch to OFF.
- 2.3 Connect the DMM (Set to the 100V range) to the right hand terminals on the test rig.
- 2.4 Connect the mains supply to the rear panel input socket.
- 2.5 Check that the Green led on the test rig is On and the DMM indication is between 17 and 25 volts.
- 2.6 Adjust trimpot R107 for a DMM indication of 20.6V.
- 2.7 Open Channel 1 Sense Switch and ensure that DMM indication is between 24 and 25V. Close Sense switch.
- 2.8 Repeat steps 2.2. to 2.7. for the other 4 channels.

3. Charge Voltage Setting Up

- 3.1 Leave the DMM -ve lead connected to the test rig terminal and select Channel 1.
- 3.2 Select the 10V range on the DMM and with the +ve lead measure the voltage at U102 pin 3 (TP101). Adjust trim pot R107 for an indication shown in Table 1 (these are set using 10k Ω \pm 0.1% resistors in place of the battery pack thermistors to simulate a temperature of 25°C):

TABLE 1

Battery Tray	400971 Charger Assy Iss A PCB (No test points)	400971 Charger Assy Iss 1 and Later PCB
400885-3 or earlier 401068-2 or earlier (Wavetek manufacture)	3.3872V \pm 1mV	3.6150V \pm 1mV
400885-4 or later 101068-3 or later (DMS Technologies manufacture)	3.4535V \pm 1mV	3.6937V \pm 1mV

Note: This adjustment can be made easier by using the maths function of the DMM.

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3.3 Repeat steps 3.1. and 3.2. for the other 4 channels.

4. Current Limit FSV Selection.

4.1 On the test rig select Channel 1 and set DVM Switch to AMPS.

4.2 Connect the DMM (Set to the 1V range) to the right hand terminals on the test rig.

4.3 On the test rig set the Load Switch to ON. Record the DMM indication.

4.4 Repeat 4.3. for the other 4 channels.

4.5 Using Table 2 for channels 1 to 4 and Table 3 for Channel 5 select the correct FSV value.

TABLE 2

I Measured Limits	FSV Value
230mA to 236mA	5R6
237mA to 245mA	6R8
246mA to 254mA	8R2
255mA to 260mA	10R

TABLE 3

I Measured Limits	FSV Value
340mA to 341mA	4R7
342mA to 347mA	5R1
348mA to 356mA	5R6
357mA to 366mA	6R8
367mA to 375mA	8R2
376mA to 377mA	10R

4.6 Switch off the Mains supply and fit FSVs

4.7 Apply AC mains and repeat steps 4.3. and 4.4. Ensure that indications are within the limits of 305mA \pm 15mA for Channels 1 to 4 and 425mA \pm 15mA for Channel 5.

5. Transformer Load Check.

5.1 On test rig select Channel 1. Set Load switch to Off. Leave DMM -ve lead connected.

5.2 Connect DMM +ve lead to U101 pin 1. Check that DMM indication is approx. 39V. Set Load switch to On. Check that DMM indication drops to approx. 34V.

5.3 Repeat step 5.2. for the other 4 channels.

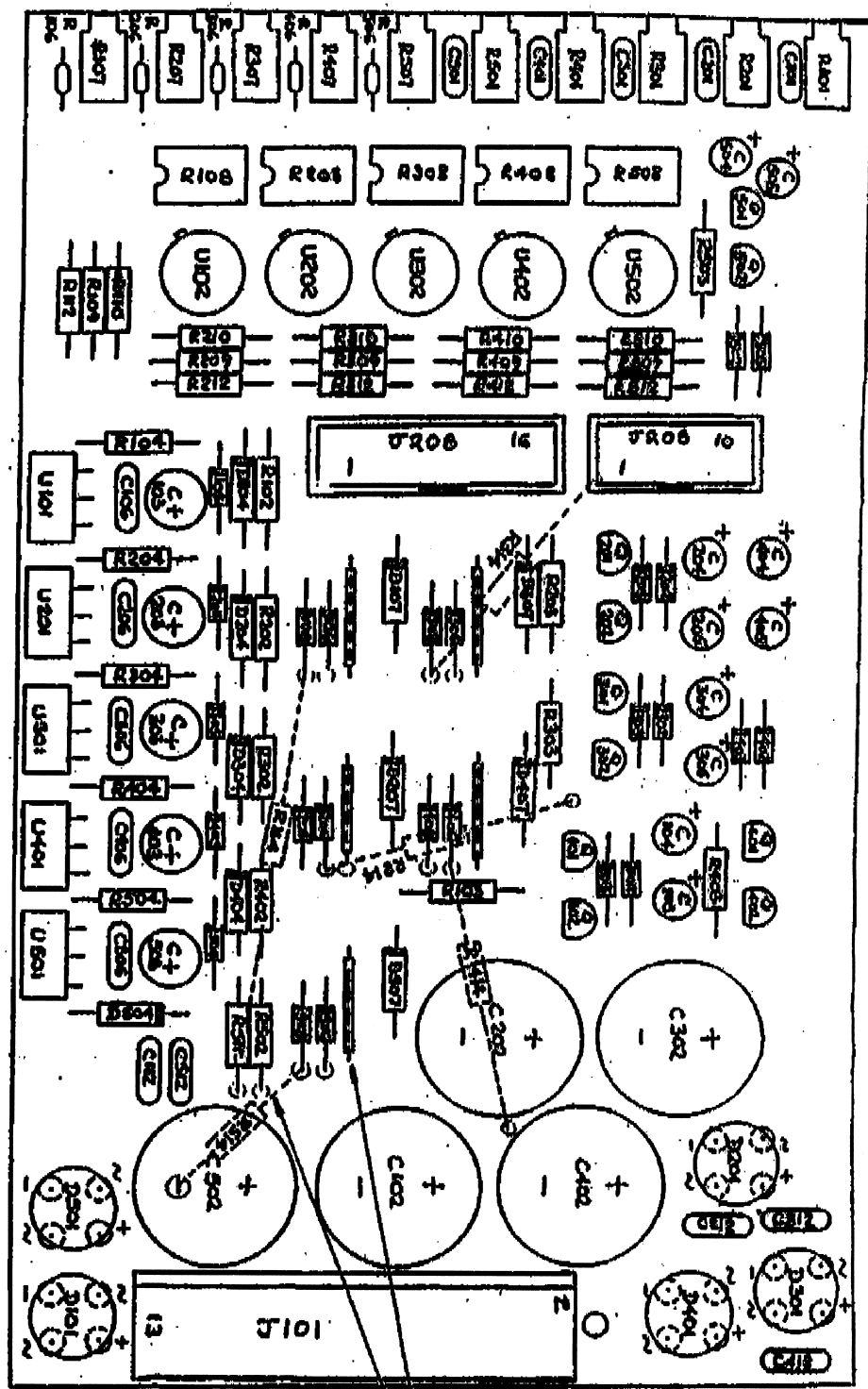
5.4 Switch off Mains supply.

6. Completion.

6.1 Seal trimpots R107 to R507 with Tip-ex.

6.2 Secure cables between transformer and J101 with tie-wrap.

6.3 Attach Tested label to UUT below Ser. No. label.



4910/4911



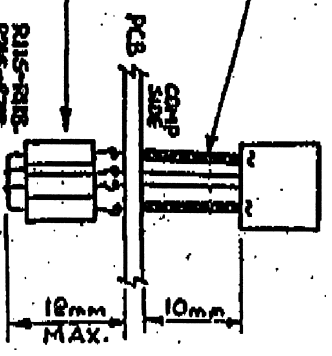
Balston Instruments 1991

POWER SUPPLY ASSEMBLY
Drawing No. DA46-071

Sheet 1

SLEEVE BOTH AC (~) LEADS WITH 10mm SLEEVE 59000-4 THIS APPLIES TO D101, D201, D301, D401 & D501. DEVICES USED SHOULD BE G.I. WORN

FTI RESISTOR BELOW EACH LEG OF BRIDGE. CONNECT OTHER END OF 4 RESISTOR TOGETHER AS SHOWN



SLEEVE WIRE LEADS & LEADS OF R114, R214, R314, R414, R514

540002 AIR
590004 AIR

410458-2