

1500

3000

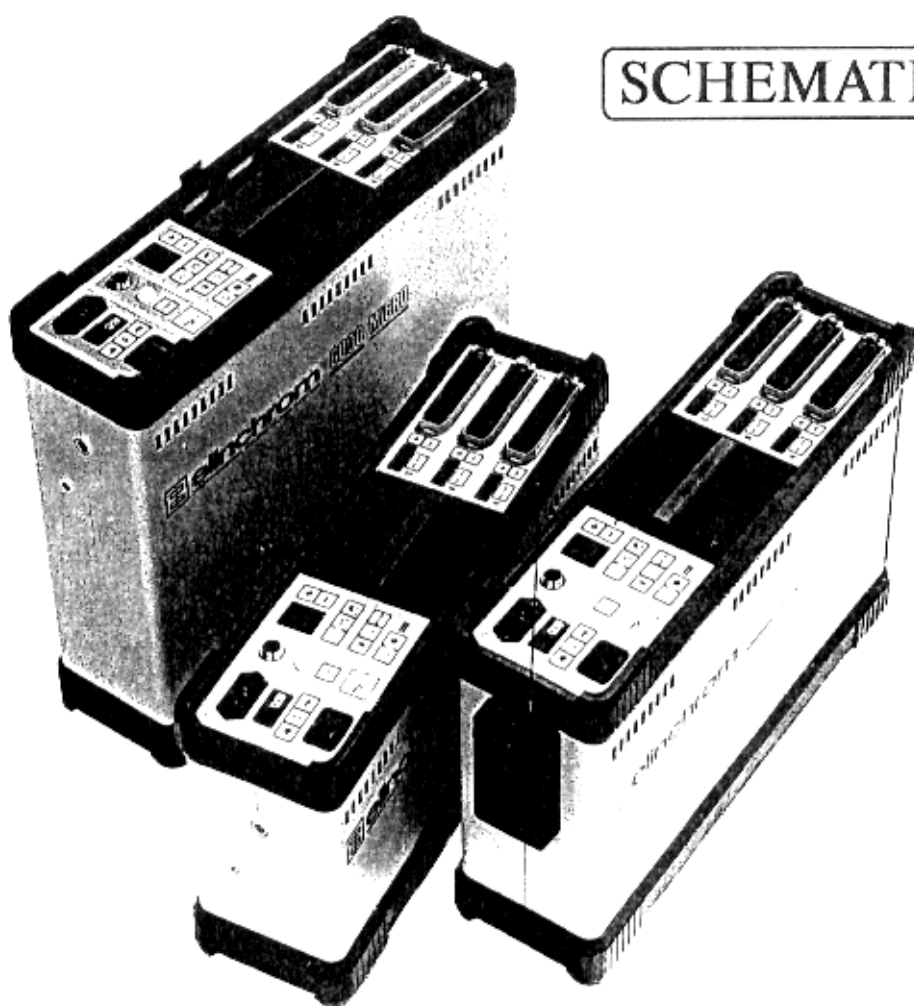
6000



MICRO AS

SCHEMATIC DIAGRAMS

220 V VERSION



Input current limiter

RE : AFTER SALES SERVICE
BETRIFFT : REPARATURDIENST
CONCERNE : SERVICE APRES-VENTES

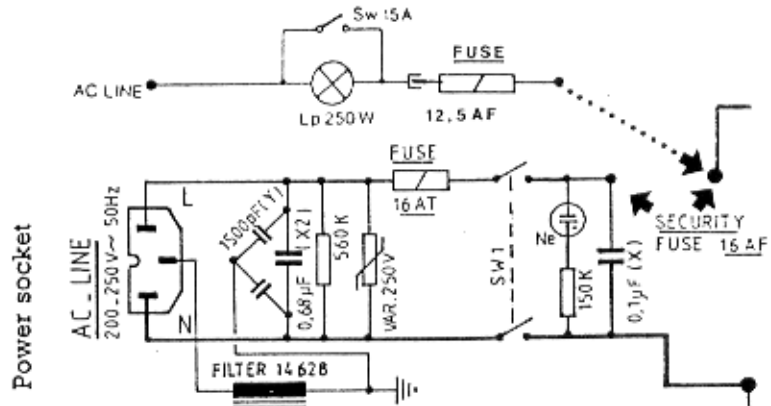
This device limits the current that the unit may draw from the mains supply to around 1 ampere. This prevents damage due to short-circuits, slows down recharging and improves the voltage stabilisation.

With experience, the activity of the limiter lamp can give many clues regarding malfunctions in the unit.

1500 MICRO

3000 MICRO

6000 MICRO



Limitateur du courant d'entrée

Il limite le courant à 1 ampère pour secteur 220V et 2 ampères pour secteur 110V.

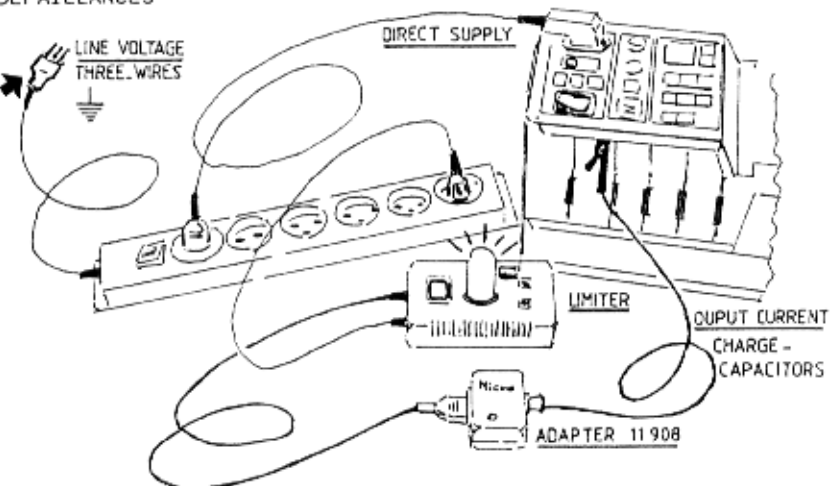
Utile en cas de court-circuit dans la partie d'alimentation des circuits électroniques.

La restriction de courant qu'il produit augmente le temps de charge et améliore la stabilisation, ce qui est apprécié lors du contrôle et des ajustements.

L'OBSERVATION DE L'ETAT DE BRILLANCE DE LA LAMPE FOURNIRA DE BONNES INDICATIONS POUR LE DEPISTAGE DES DEFAILLANCES

USE

Fehlerstrom-Schutzschalter
Fault current protective switches
Interrupteurs-protecteurs de défaut de courant
Interruptores-protectores de defecto de corriente
Interruttori di protezione per difetti della corrente elettrica



Netzstrom-Begrenzungsvorrichtung

Diese Anordnung begrenzt den an das Gerät angeschlossenen Netzstrom auf 1 A bei Netzspannung 220 V bzw. 2 A bei einem Netz 110 V.

Sie ist eine nützliche Schutzmassnahme, falls in der Stromversorgung der Elektronikschaltungen ein Kurzschluss vorliegt.

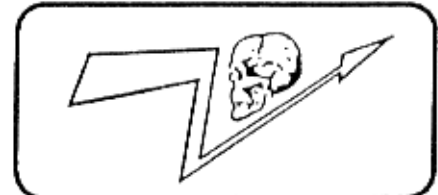
Die Strombegrenzung erhöht die Ladezeit und ergibt eine bessere Stabilisierung, die auch die Kontrolle dieser Einstellungen erleichtert.

DIE BEOBSCHTUNG DER LAMPENHELLIGKEIT IST OFT EINE GUTE ANZEIGE BEI DER FEHLERSUCHE.

IMPORTANT ! The interior of the generator or compact contain components carrying dangerous levels of electric charge, even though the unit has been disconnected from the mains.

ALWAYS TAKE THE FOLLOWING PRECAUTIONS:

1. Always disconnect it from the mains supply, and discharge the unit before (for generator) and after (for compact) removing the outer cover or housing. This is best achieved with a suitable discharge resistor (code 11931 for 220 V) and (11930 for 110 V) fitted to a lamphead plug which may be inserted into a lamphead outlet for generator only.
For compact connect the discharge resistor in the flash tube terminals.
2. Take care when opening a generator. Always start by connecting a voltmeter across the storage capacitors, as capacitor drainage may not have occurred due to a fault in the unit.



ACHTUNG GEFAHR !

Auch wenn der Generator vom Netz getrennt ist, können im Innern des Geräts noch gefährliche elektrische Spannungen vorhanden sein.

ACHTUNG GEFAEHRliche STROMSPANNUNG:

1. Bevor Sie ein Blitzgerät öffnen, entladen Sie zuerst die Kondensatoren mittels Entladewiderstand (Best, Nr. 11931 für 220 V)
2. Vorsicht beim Öffnen eines Blitzgeräts. Verbinden Sie sofort ein Voltmeter mit den Kondensatoren, denn diese könnten wegen einer anderen Panne nicht entladen sein.

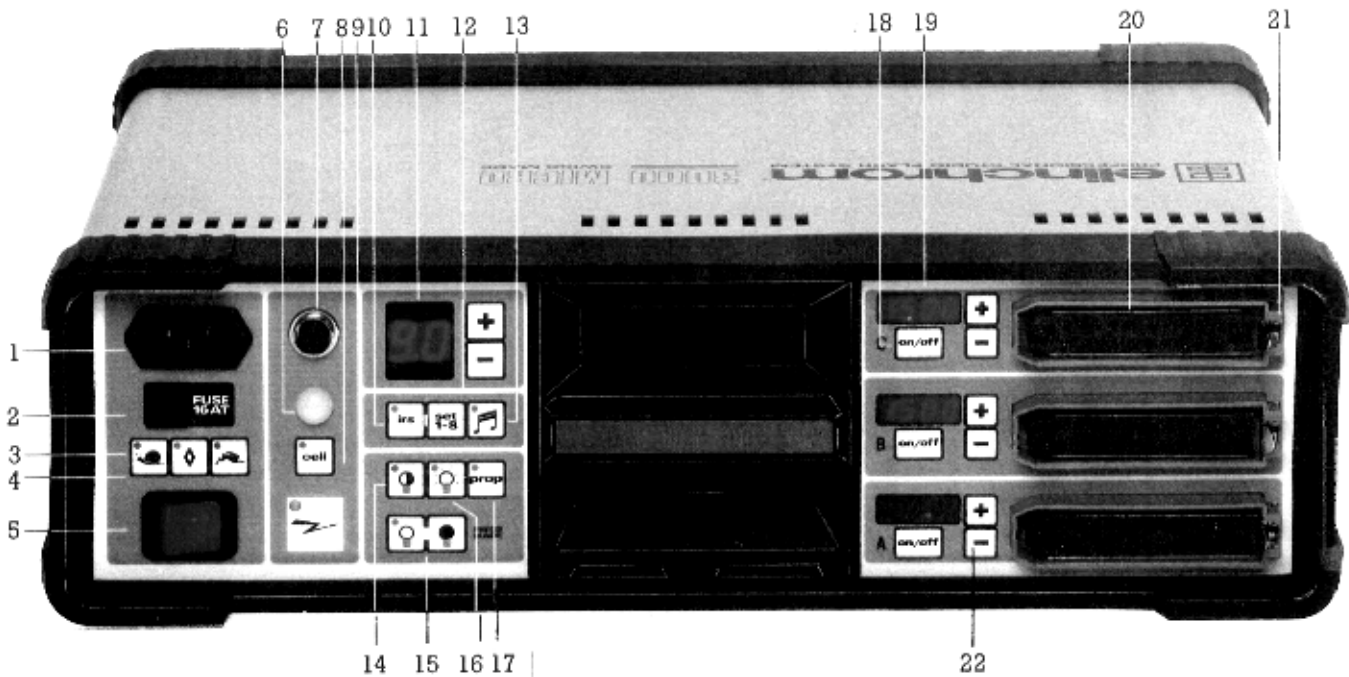
ATTENTION DANGER !

Des tensions électriques dangereuses restent présentes, ceci même lorsque l'appareil est déconnecté du secteur.

PRUDENCE LORS DE L'OUVERTURE D'UN GENERATEUR OU COMPACT.

1. Déconnecter l'appareil du réseau et avant de procéder à son ouverture décharger le générateur au moyen du dispositif de décharge (code 11931 pour 220 V) et (11930 pour 110 V).
Pour les compacts retirer la poignée et la chemise métallique et procéder à la décharge en connectant le dispositif aux bornes du tube flash.
2. Commencer par vérifier la tension aux bornes des condensateurs. Leur drainage peut ne pas avoir eu lieu, la rupture d'un élément ou d'un conducteur peut en être la cause.

THE CONTROLS



- | | | | |
|----|--|----|-------------------------------------|
| 1 | Power socket | 13 | Multi-purpose acoustic signal |
| 2 | Fuse | 14 | Half/full power for modelling lamps |
| 3 | Charge speed selectors | 15 | Modelling lamps ON/OFF |
| - | - slow charge 6 A | 16 | Modelling lamp dimmer/charge signal |
| - | - normal charge 10 A | 17 | Proportional modelling light |
| - | - fast charge 16 A | 18 | Lampheads ON/OFF |
| 4 | Modelling lamps switch off during slow charge when touch 16 is pressed | 19 | LED indication in Ws/Joules |
| 5 | Mains switch | 20 | Lamphead sockets |
| 6 | Photocell and IR-Receiver | 21 | Security catches |
| 7 | Sync socket with security lock | 22 | Lamphead power variators |
| 8 | Photocell ON/OFF | | |
| 9 | Open flash with charge indicator | | |
| 10 | IR-Remote Control ON/OFF | | |
| 11 | LED indication of total power | | |
| 12 | Generator selector for IR (1-8 packs) | | |

MICROPROCESSOR



Technology



RE : AFTER SALES SERVICE
BETRIFFT : REPARATURDIENST
CONCERNE : SERVICE APRES-VENTES

LAMPHEADS FOR THE "MICRO" GENERATORS

From Photokina 1986, all lampheads for generators have been fitted with an auto-signalling resistance to indicate to the microprocessor in the new "MICRO" generators the maximum power acceptable to the lamphead. These lampheads are listed below as version 1986 and version 1988.

Version 1986

A2, A4, R2, R4, S2, T4, X8

Version 1988

A3000, R2000, R4000, S2000, S3000,
S4000, X8000, Box 4000

Lampheads manufactured before Photokina 1986 will signal "malfunction" to the Microprocessor. These models, listed below, may be adapted by fitting the appropriate resistance into the connector (see overleaf).

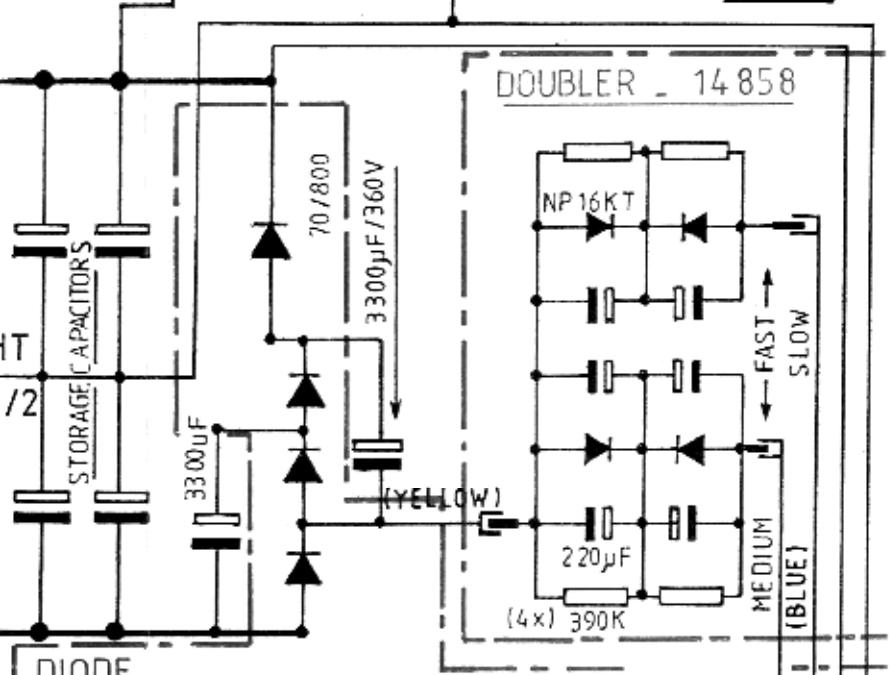
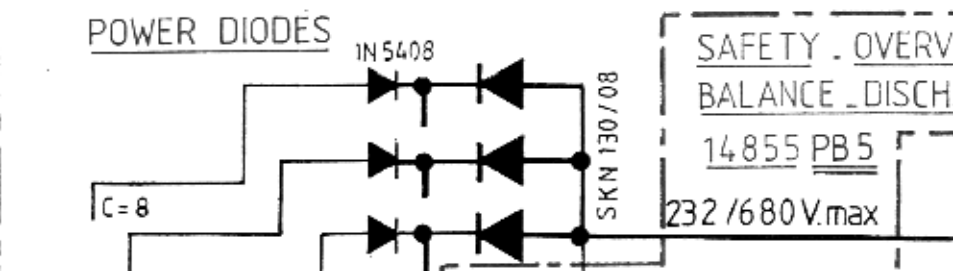
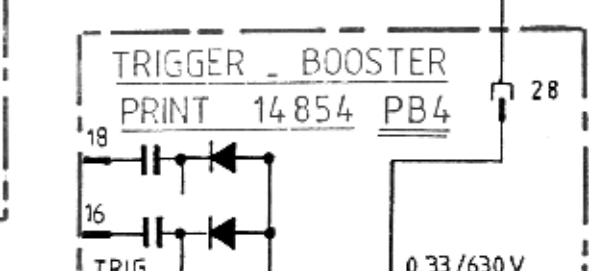
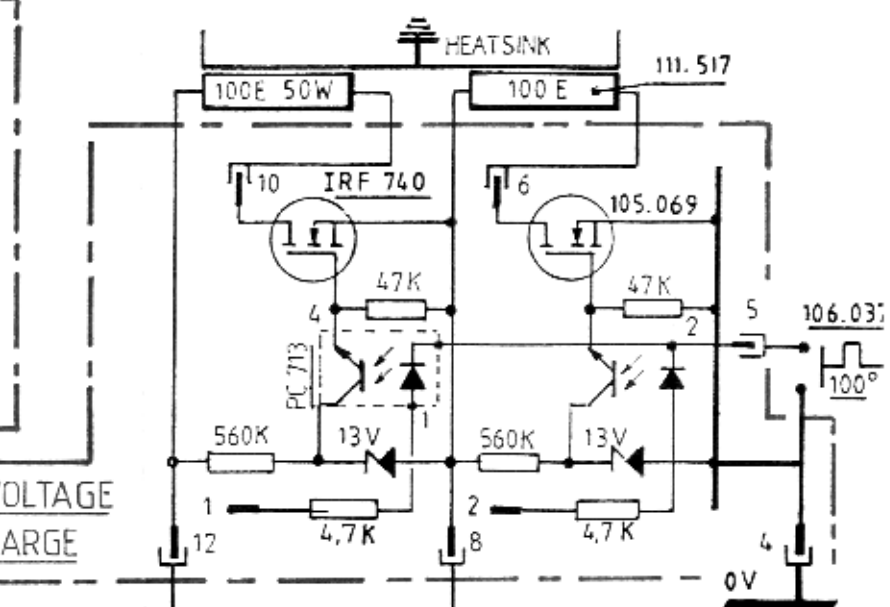
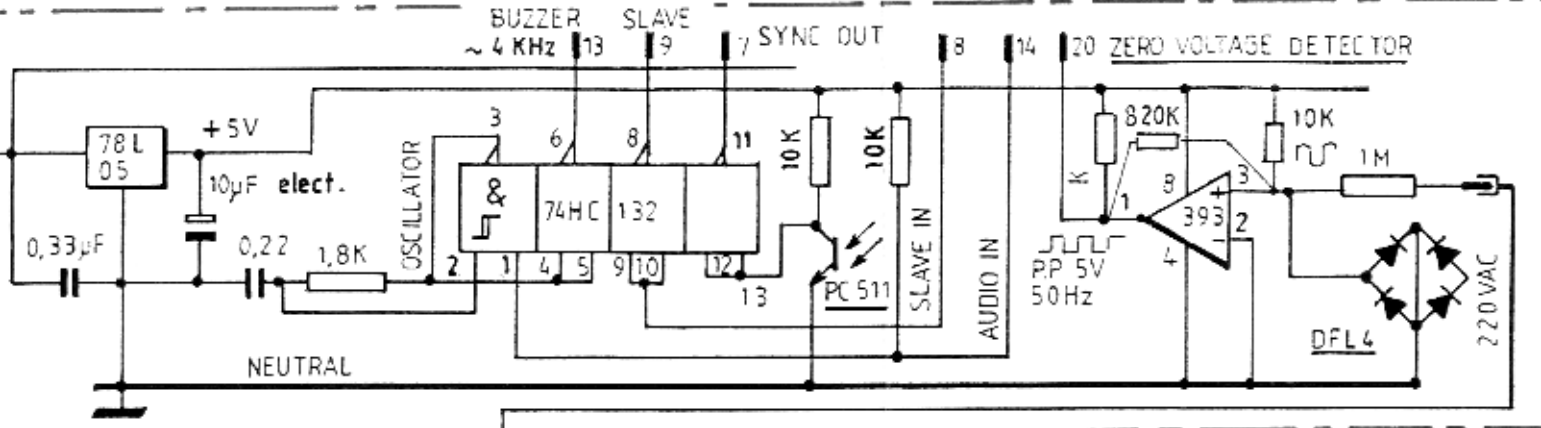
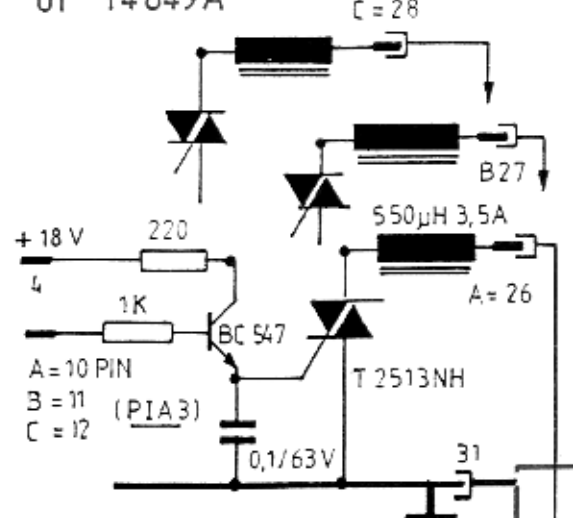
A, R with tube 24006/2000 Ws
R with tube 24048/4000 Ws
S, T, X

N.B. : No lampheads manufactured before 1980 may be used with "MICRO" generators.

MODELLING LAMP DIMMERS

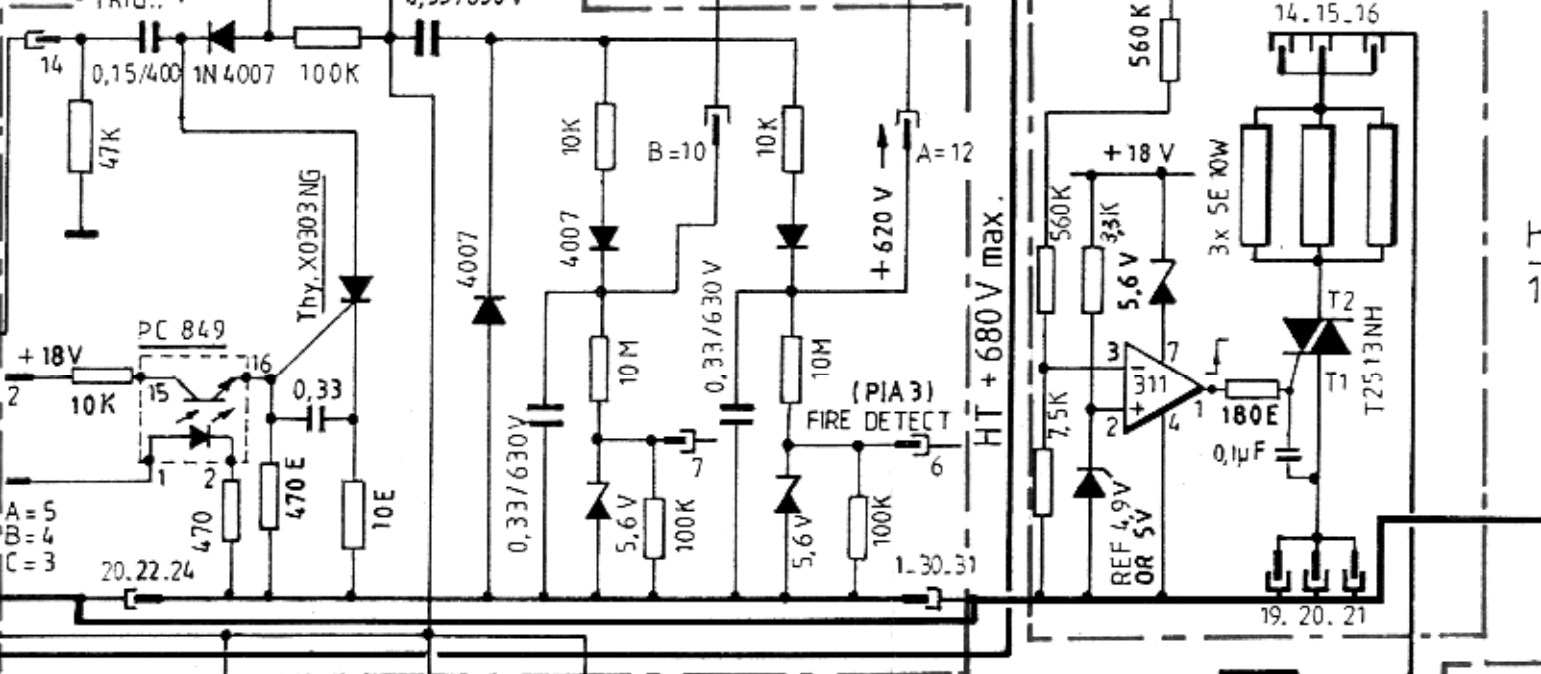
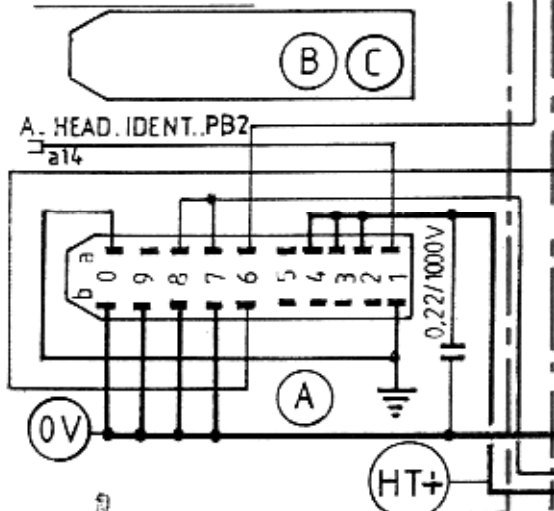
PRINT 14850 PB3

or 14849A



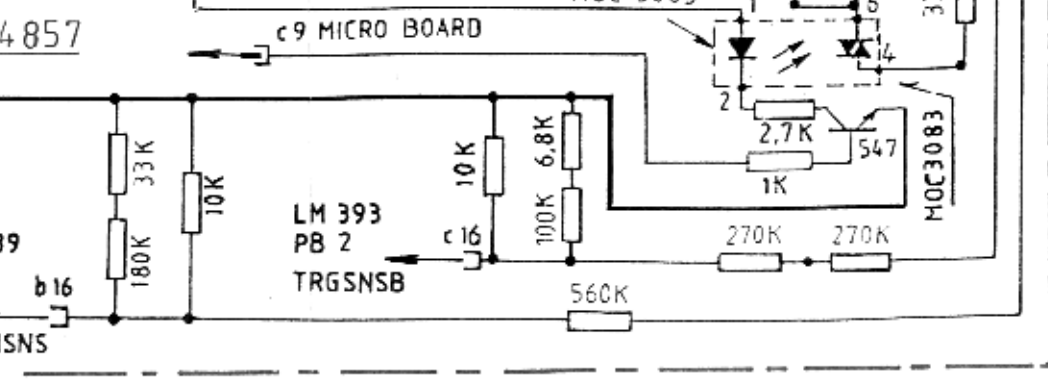
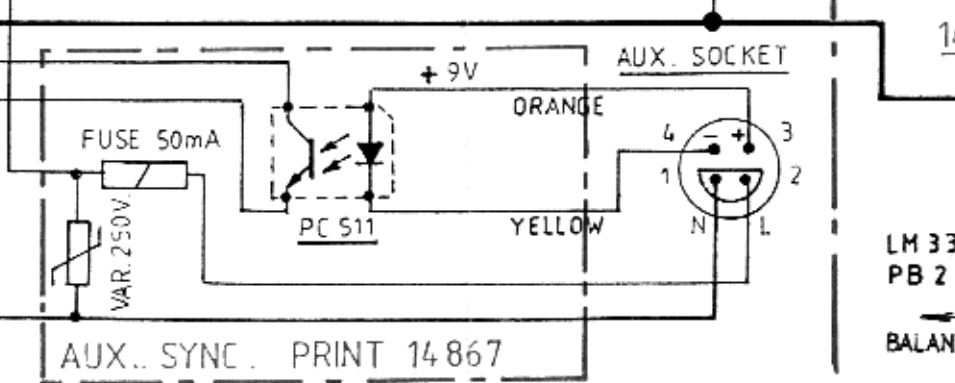
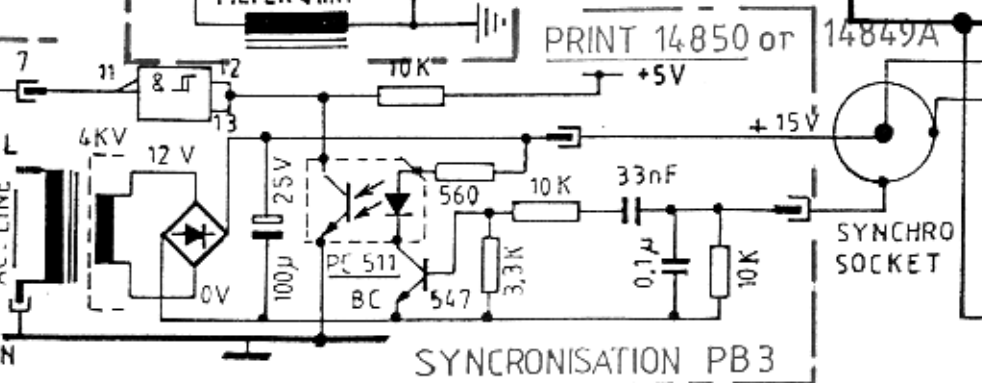
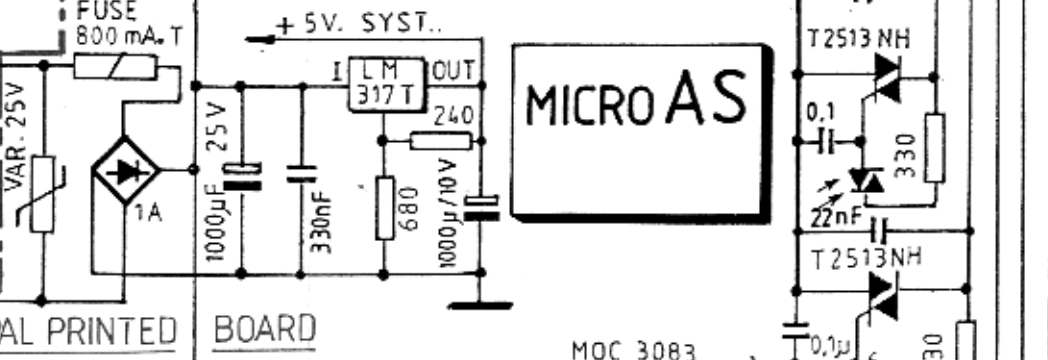
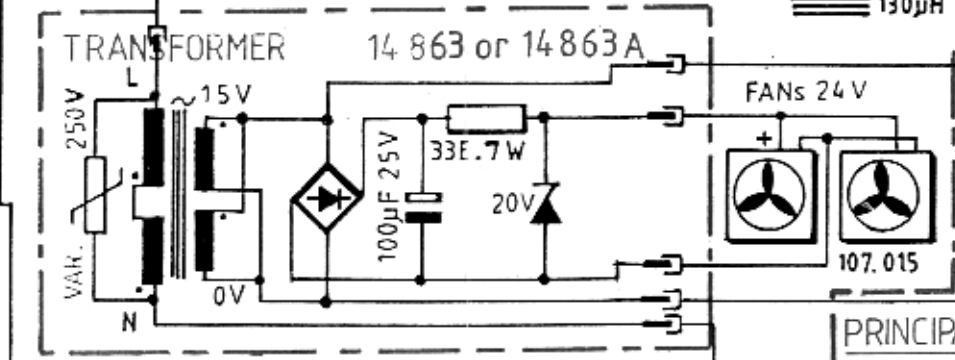
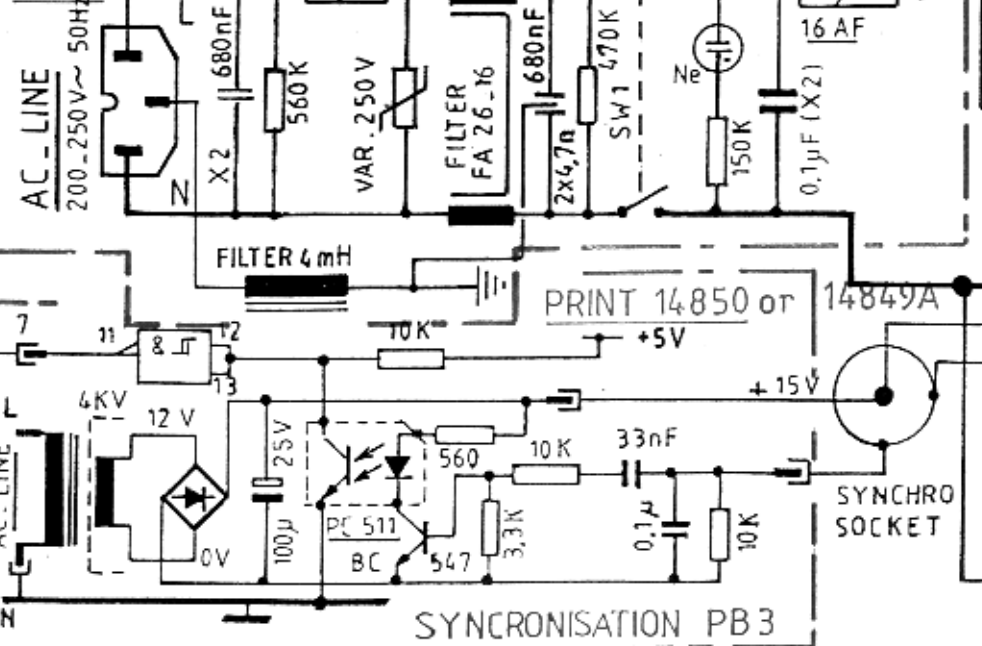
LAMPHEAD SOCKETS

PRINT 14812A



POWER SUPPLY

14861A



MICRO AS

MOC 3083

c9 MICRO BOARD

LM 339 PB 2 TRGSNSB

10K 100K 6.8K 560K

270K 270K

1K 2.7K

547

BOARDS

PB1 = Micro control

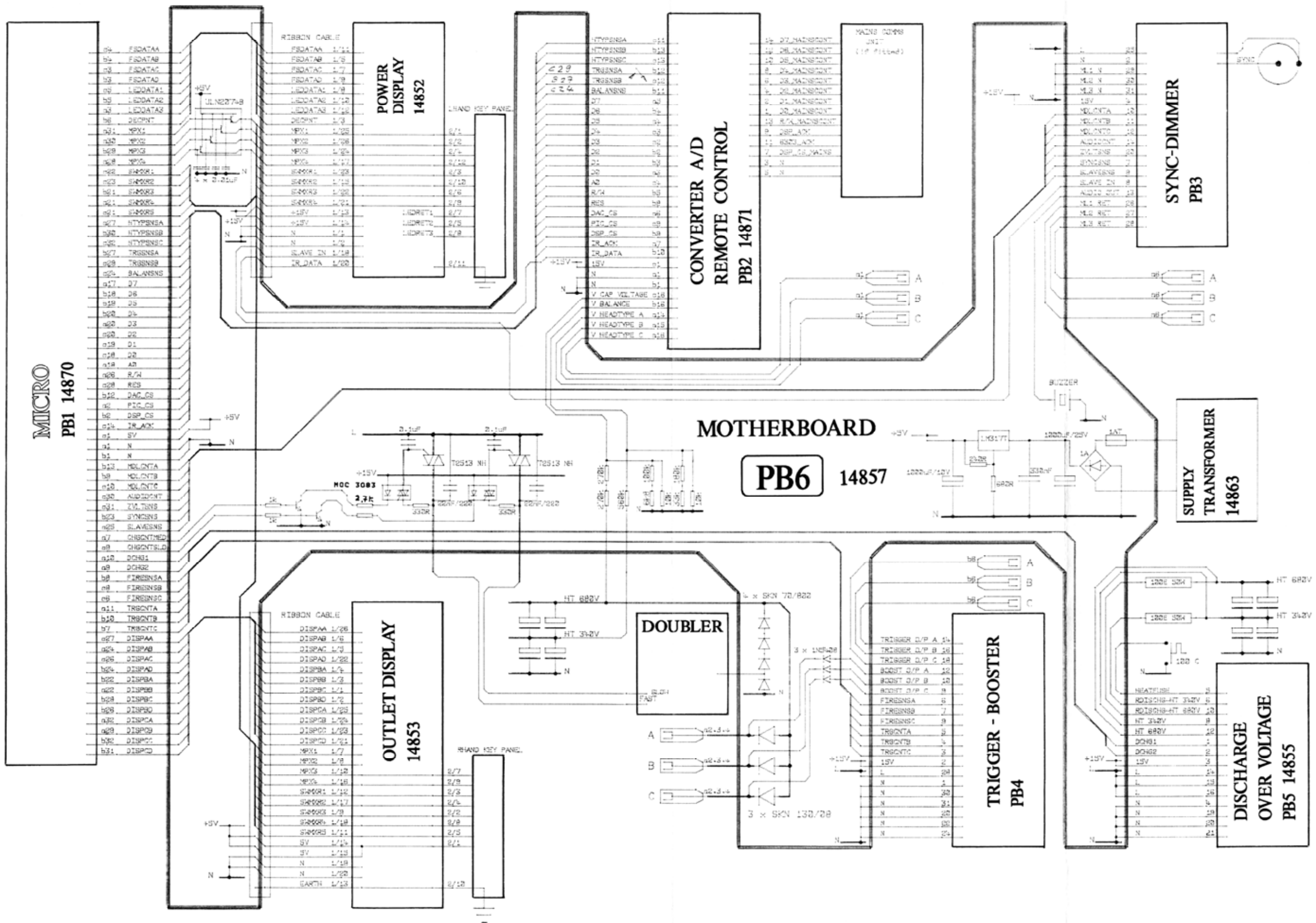
PB2 = Voltage measurement and IR remote decoder

PB3 = Synchro + zero detect and modelling lamp
dimmers

PB4 = Triggers + boosters and fire detect

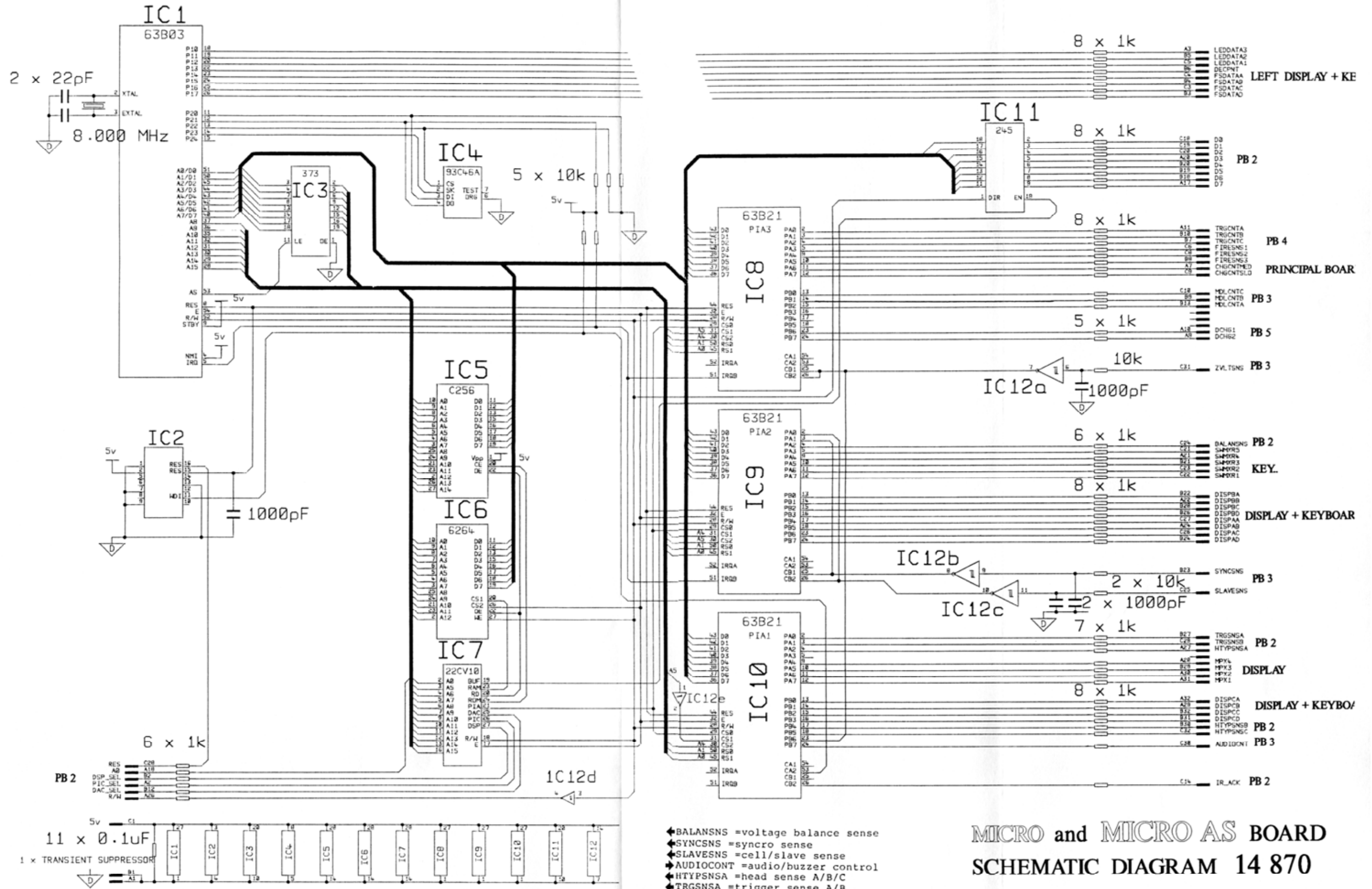
PB5 = Overvoltage crowbar and balance
+ Discharge

PB6 = Motherboard



MICRO and MICRO AS MOTHERBOARD 14857

INTERCONNECTION DIAGRAM



USE ONLY WITH PB 2 NEW 14 870 AND NEW EPROM SEE LIST

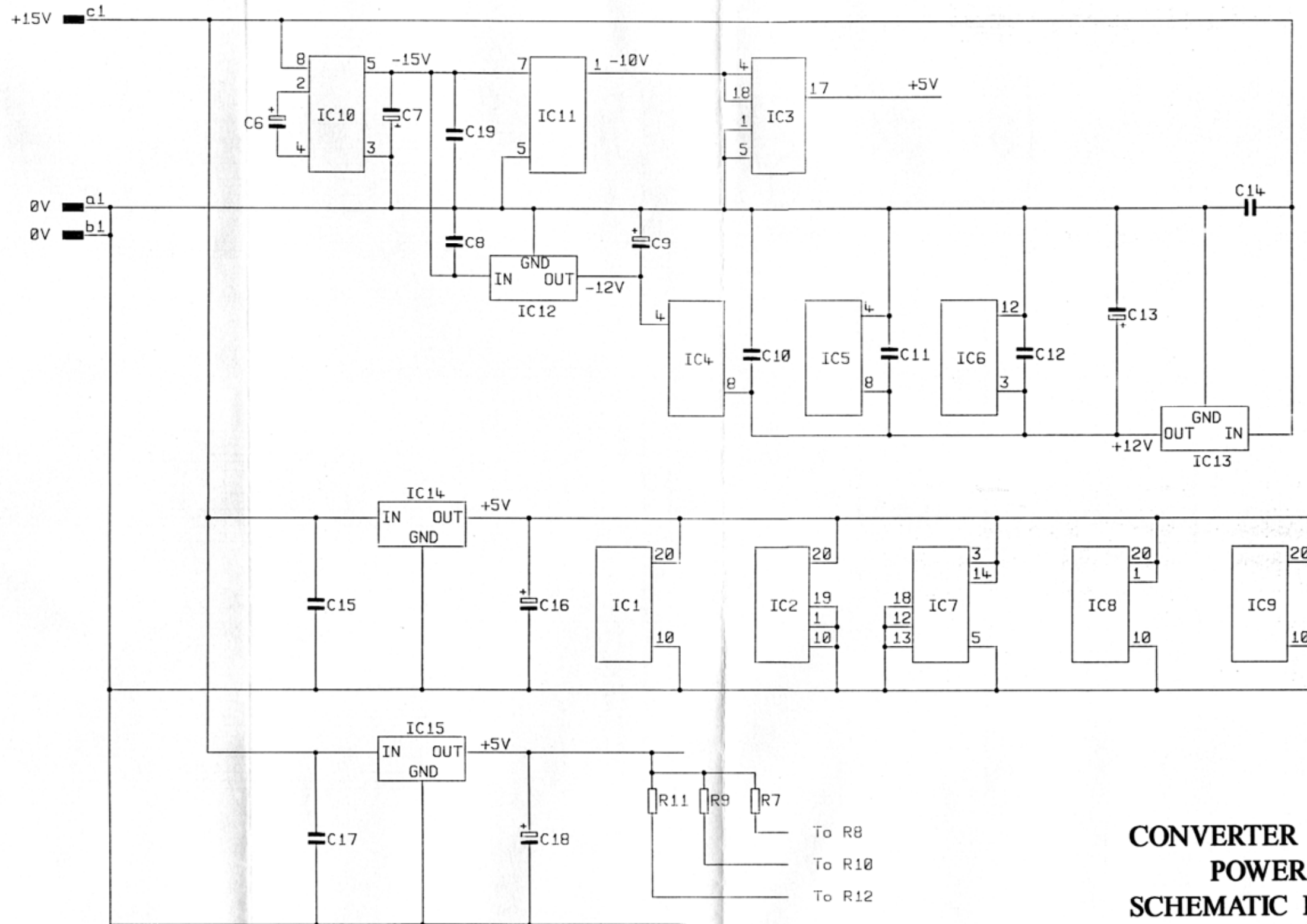
ASYMMETRICAL VERSION
with 14 870 + 14 871
EPROM: label AS.
ORDER: for 1500 AS 105.098
3000 AS 105.099
6000 AS 105.100

SYMMETRICAL VERSION
with 14 870 + 14 871
EPROM: label SY.
ORDER: for 1500 105.105
3000 105.106
6000 105.107

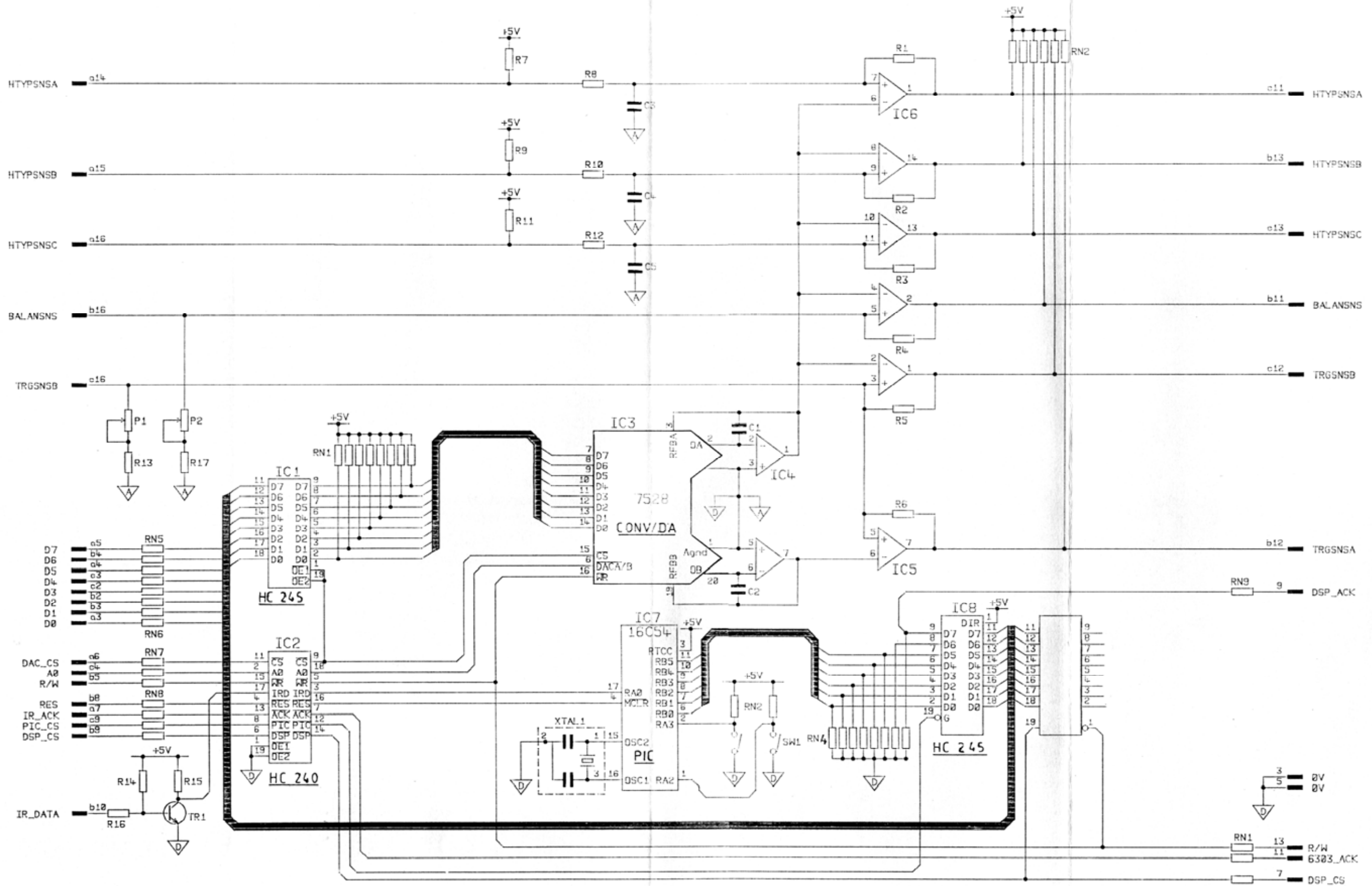
- ◆BALANSNS =voltage balance sense
- ◆SYNCSNS =syncro sense
- ◆SLAVESNS =cell/slave sense
- ◆AUDIOCONT =audio/buzzer control
- ◆HTYPSNSA =head sense A/B/C
- ◆TRGSNSA =trigger sense A/B
- ◆ZVLTSNS =zero voltage sense
- ◆MDLCNT =modelling lamp control
- ◆FIRESNS =fire sense A/B/C
- ◆TRGCNT1 =trigger control
- ◆CHGCNTSLO/MED =charge control slow/med..
- ◆DCHG1/2 =discharge control

MICRO and MICRO AS BOARD SCHEMATIC DIAGRAM 14 870

P B 1



**CONVERTER AND REMOTE
POWER SUPPLY
SCHEMATIC DIAGRAM 14 871**



**USE ONLY WITH
MICRO BOARD
14 870**

**VOLTAGE MEASUREMENT
AND
REMOTE CONTROL**

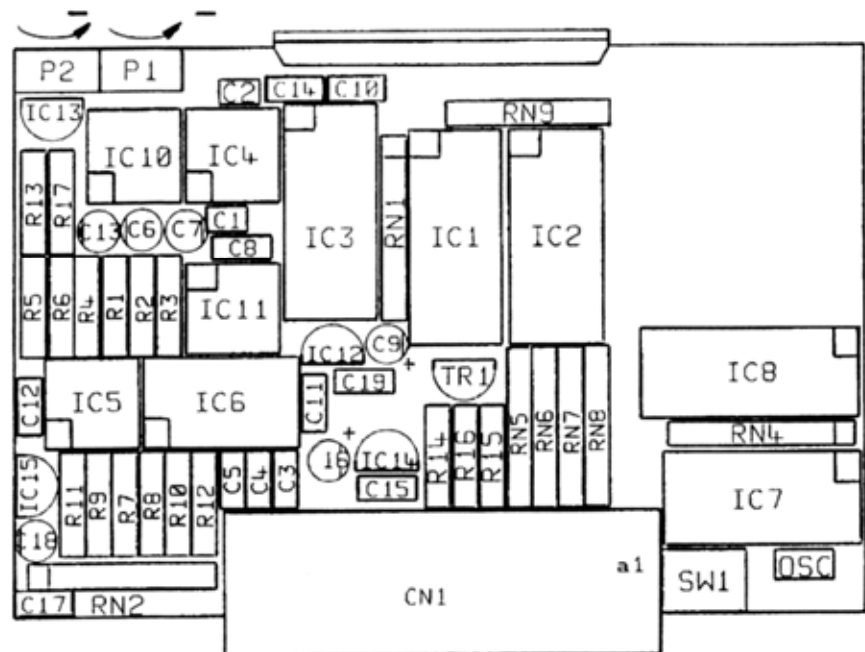
CIRCUIT ASSEMBLY 14 871

P B 2

110V/220V - VERSION

Up-date 09.97

VOLTAGE MEASUREMENT AND REMOTE CONTROL



Part N°	Specification
14 821	BOARD WITHOUT ELEMENT
121.471	RES. 470E 1% R7-R9-R11
121.103	RES. 10K 1% R8-R10-R12
121.333	RES. 33K 1% R13-R17
121.363	RES. 36K 1% R14
121.512	RES. 5K1 1% R15
121.102	RES. 1K 1% R16
120.106	RES 10M 5% R1-2-3-4-5-6
14 034	LM 339 QUAD COMPARATOR IC6
105.102	74HC245 BUFFER BID. IC1-IC8
105.103	74HC240 BUFFER INV. IC2
105.071	CONVERT D/A 7528 IC3
105.070	LF 412 BIFFET OP-AMP IC4
105.055	LM 393 DUAL COMP IC5
105.104	PIC 16C54 PROCESSEUR IC7
105.072	7662 -5V INVERTER IC10
105.200	REF08 -10V REFERENCE IC11
105.075	LM79L12 -12V REGULATOR IC12
105.063	LM78L12 +12V REGULATOR IC13
105.089	LP2950 +5V REGULATOR IC14-IC15
105.160	4.00Mz RESONATOR OSC
105.150	BC184L TRANSISTOR NPN TR1
104.001	10pF CERAMIC DISC C1-C2
104.105	1nF POLYESTER CAPA. C3-C4-C5
104.100	10uF 35V ELECTROTYIC C6-7-9-13-16-18
104.066	100nF POLYESTER C8-10-11-12-14-15-17-19
111.609	10Kx8 NETWORK COMMON RN1-RN2-RN4
111.611	1Kx4 NETWORK ISOLATED RN5-6-7-8
109.026	50K PRESET P1-P2
110.075	48 WAY CONNECTOR CN1
103.066	2 WAY DIL SWITCH SW1
110.093	IC-SOCKET 20P
110.094	IC-SOCKET 18P
110.063	IC- SOCKET 14P
110.092	IC-SOCKET 8P
14 663	CARD SPACER

**USE ONLY WITH
MICRO BOARD
14 870**

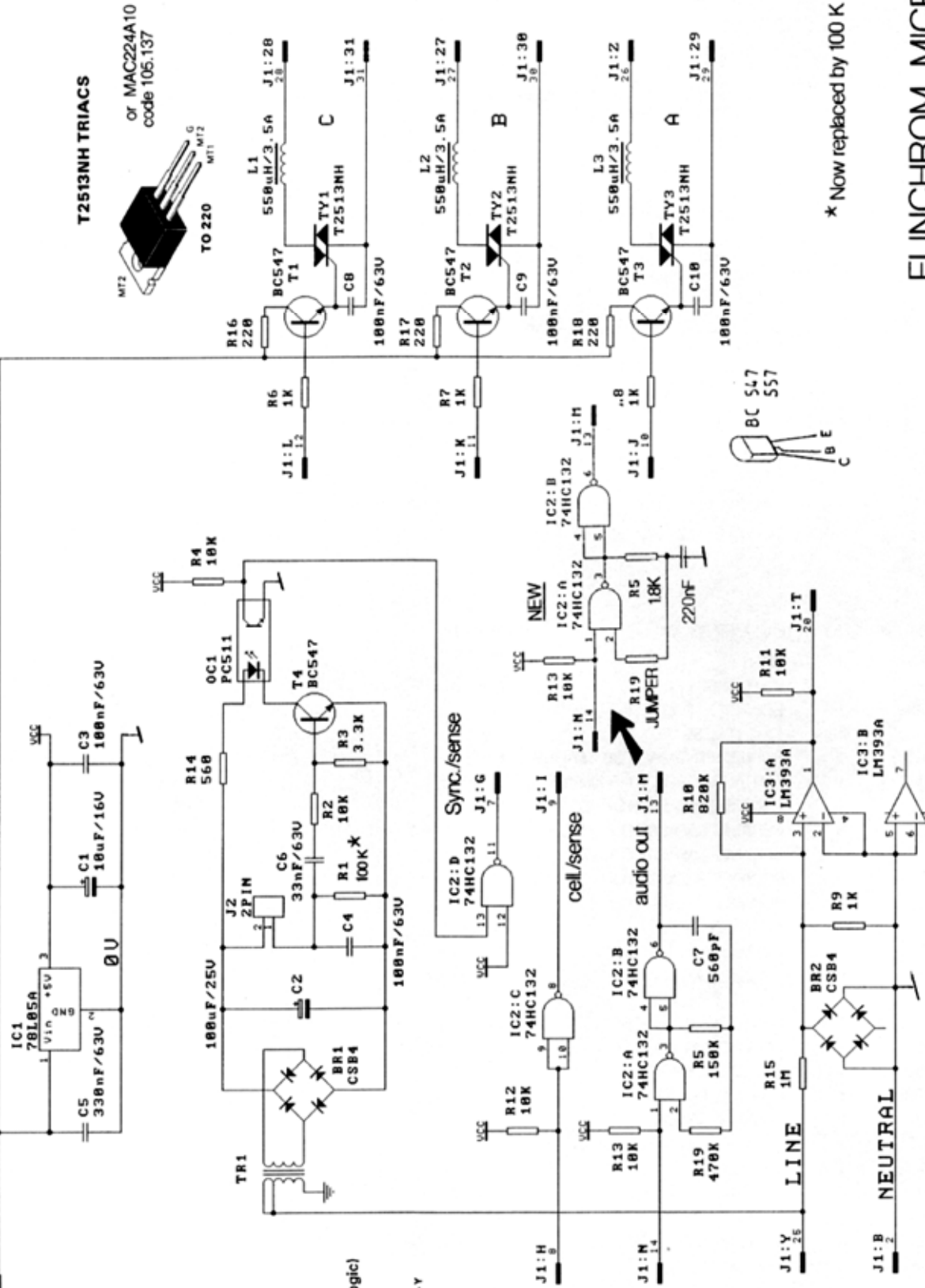
**CONVERTER BOARD
ELINCHROM MICRO
and MICRO AS**

CIRCUIT ASSEMBLY 14 871

P B 2

J1:D

+18U

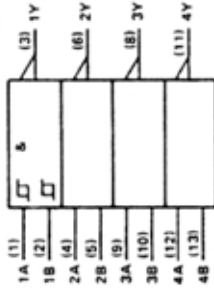


T2513NH TRIACS

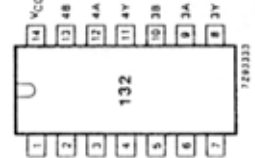
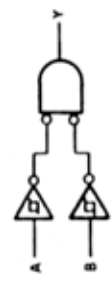


Or MAC224A10
code 105.137

logic symbol†



logic diagram, each gate (positive logic)



FUNCTION TABLE

INPUTS	OUTPUT
nA nB	nY
L L	H
L H	H
H L	H
H H	L

H = HIGH voltage level
L = LOW voltage level

PB3 New

ELINCHROM MICRO
CIRCUIT ASSEMBLY 14849 A
SCHEMATIC DIAGRAM

110V/220V - VERSION

Up-date 09.99

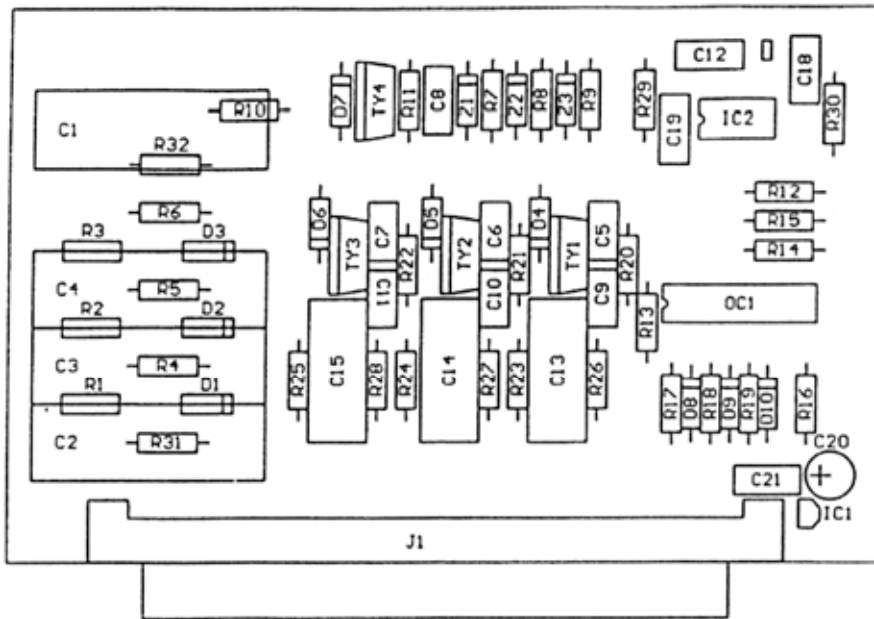
* Now replaced by 100 K

symbol (each comparator)



(TOP VIEW)



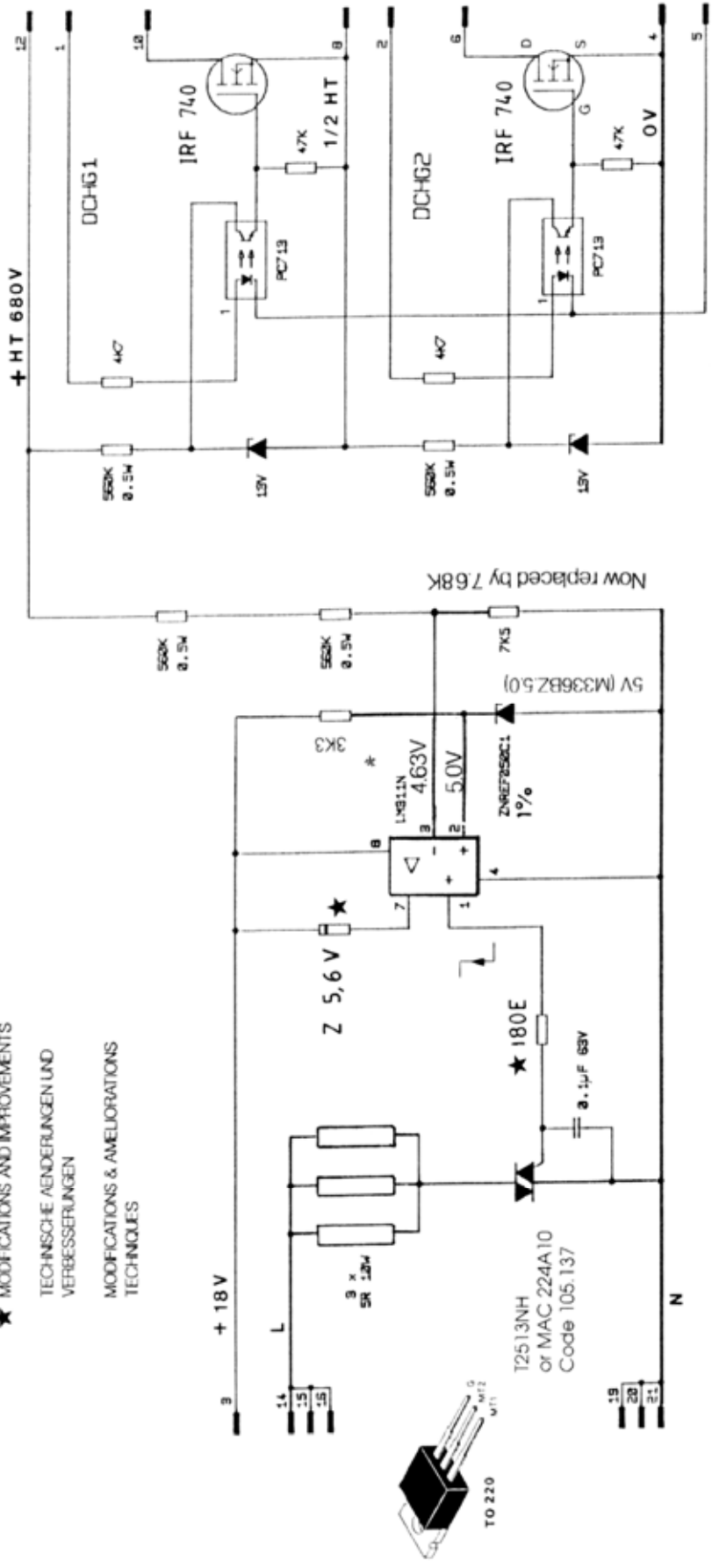


PART N°	QTY	DESCRIPTION	REF. N°
14804A	1	PRINT	
14009	7	1N4007 RECTIFIER	D1-2-3-4-5-6-7
14663	1	BOARD EXTRACTOR	
54013	1	TIMER LM555	IC2
104025	1	POLYESTER CAPACITOR 1uF/400V	C1
104.029	1	TANTALUM CAPACITOR 10uF/16V	C20
104.064	1	POLYESTER CAPACITOR 330nF	C12
104.066	8	CERAMIC CAPACITOR 100nF/63V	C5-6-7-9-10-11-19-21
104.074	2	CERAMIC CAPACITOR 10nF/63V	C8-18
104.076	3	POLYESTER CAPACITOR 150nF/400V	C13-14-15
104.077	3	POLYESTER CAPACITOR 330nF/630V	C2-3-4
105.051	3	1N4148 RECTIFIER	D8-9-10
105.063	1	VOLTAGE REGULATOR 78L12 (12V)	IC1
105.116	4	TYRISTOR X0405NF	TY1-2-3-4
105.117	3	ZENER DIODE 4.7V	Z1-2-3
105.118	1	PHOTOCOUPLER PC8Q52	OC1
110.058	1	CONNECTOR 31PM	J1
110.090	1	IC SOCKET 16P	
110.092	1	IC SOCKET 8P	
111.065	3	2K/2W RESISTOR	R1-2-3
12.071	1	2.8 mm P.C. B MOUNTING TAB	
120.001	1	JUMPER	R32
121.100	3	10R RESISTOR	R23-24-25
111.039	1	100R/2W	R31
121.103	4	10K RESISTOR	R12-13-14-15
121.104	4	100K RESISTOR	R7-8-9-10
121.105	1	1M RESISTOR	R30
121.106	3	10M RESISTOR	R4-5-6
1212220	1	2.2K RESISTOR	R29
121271	1	270R RESISTOR	R16
121.330	3	33R RESISTOR	R20-21-22
121.471	3	470R RESISTOR	R17-18-19
121.473	3	47K RESISTOR	R26-27-28
121561	1	560R RESISTOR	R11

PB 4

ELINCHROM MICRO (6000 AS)
CIRCUIT ASSEMBLY 14854A (NEW)

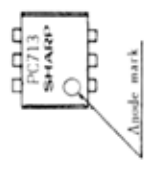
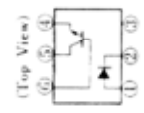
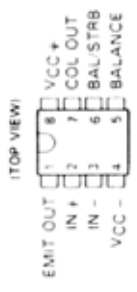
★ MODIFICATIONS AND IMPROVEMENTS
 TECHNISCHE ÄNDERUNGEN UND
 VERBESSERUNGEN
 MODIFICATIONS & AMELIORATIONS
 TECHNIQUES



OVERVOLTAGE CROWBAR

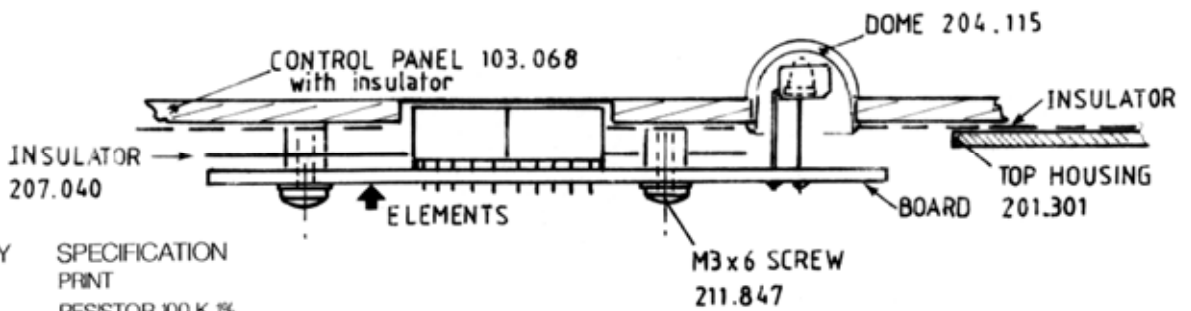
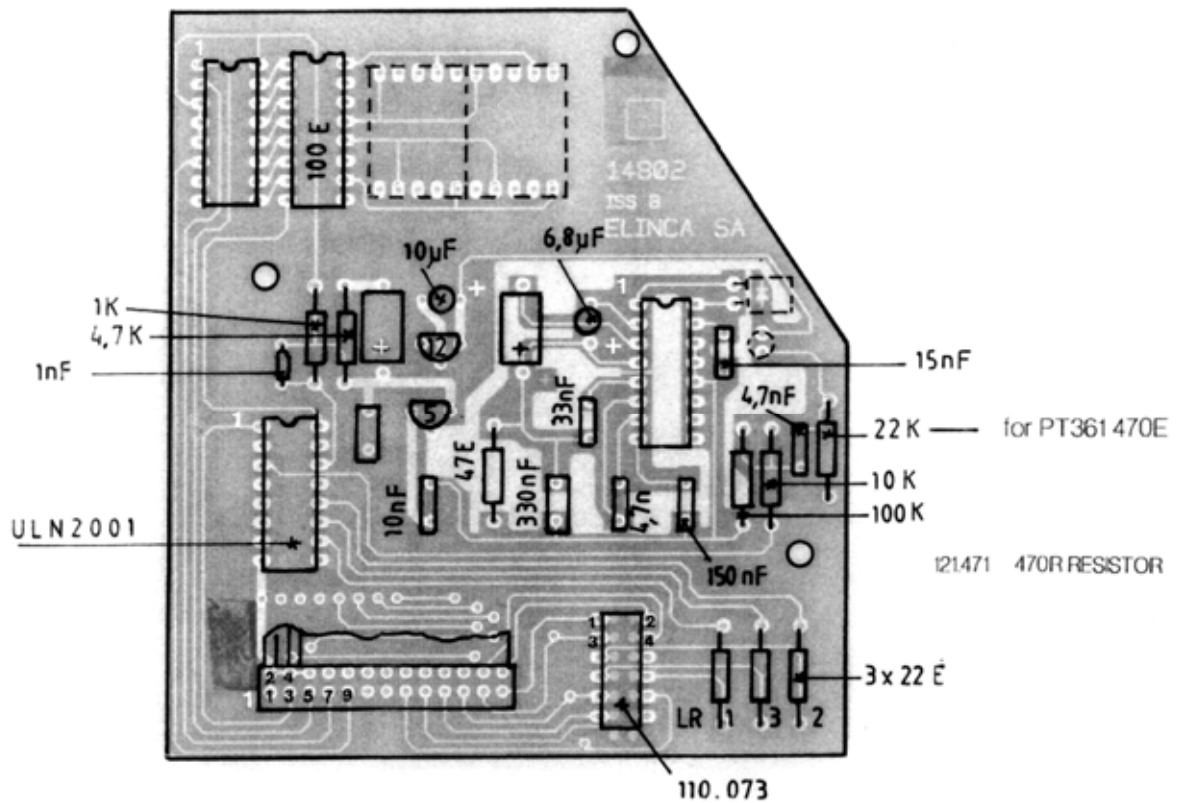
BALANCE - DISCHARGE

LM311



PB 5

ELINCHROM MICRO
 CIRCUIT ASSEMBLY 14855 A
 SCHEMATIC DIAGRAM



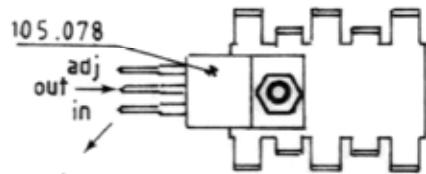
PART N°	QTY	SPECIFICATION
14802	1	PRINT
121.104	1	RESISTOR 100 K 1%
121223	1	RES. 22 K
121.103	1	RES. 10 K
121472	1	RES. 4.7 K
121470	1	RES. 47 E
121220	3	RES. 22 E
121.102	1	RES. 1K
105.060	1	IC BCD to 7-Seg Dec/DrvSN74LS247
105.061	1	IC PREAMPLIFIER IR SL 486
105.062	1	IC DARL ARRAY ULN 2001
105.054	1	REGULATOR 78 L 05 5 VOLT
105.063	1	REGULATOR 12 VOLT
14029	1	PHOTOTRANSISTOR PT 361 SHARP
105.064	1	PHOTODIODE BPW 41N
105.065	2	7 SEG DISPLAY
104.069	1	CAPACITOR 68 µF 16 V
104.078	1	TANTALE CAPACITOR 10 µF 16 V
104.070	1	TANTALE 6.8 µF 16 V
104.064	1	POLYESTER CAPACITOR 330 nF
104.071	1	POLYESTER CAPA. 150 nF
104.072	1	POLYESTER CAPA. 33 nF
104.073	1	POLYESTER CAPA. 15 nF
104.074	1	POLYESTER CAPA. 10 nF
104.075	1	POLYESTER CAPA. 4.7 nF
104.060	1	CERAMIC CAPA. 1nF
111.604	1	RESISTOR ARRAY 7 x 10 K SIL
111.605	1	RESISTOR ARRAY 8 x 100 E DIL
110.073	1	CONNECTOR 12 pF
501028	1	FLAT CABLE 26 P
207.040	1	PVC INSULATOR FOR PRINT

ELINCHROM MICRO CIRCUIT ASSEMBLY 14852A

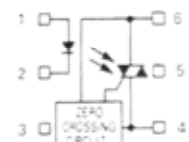
110V/220V - VERSION

Up-date 09.97

630.008 ASSEMBLY
ADJUSTABLE REGULATOR



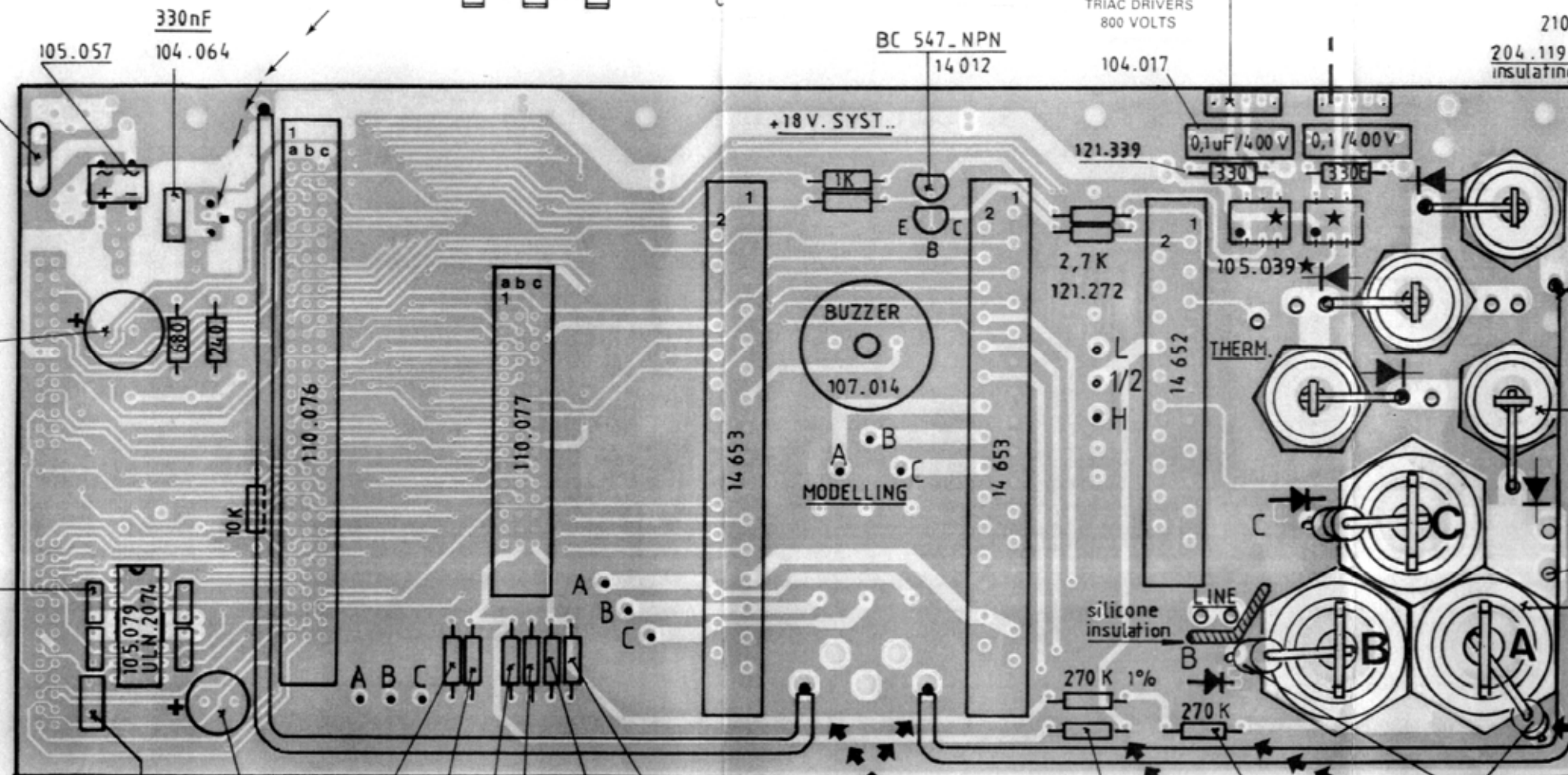
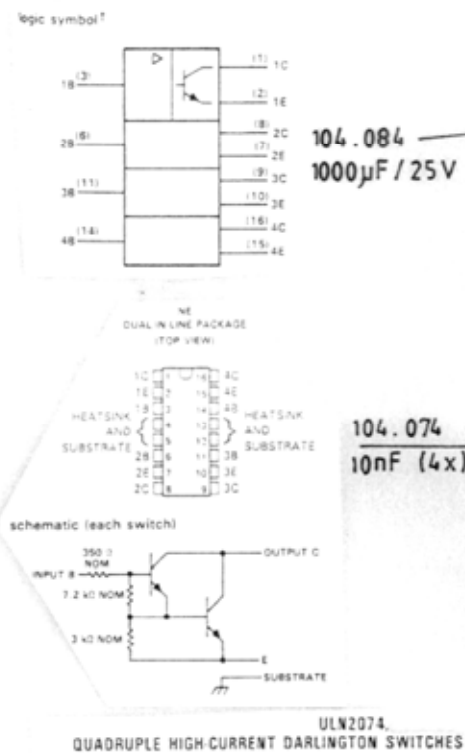
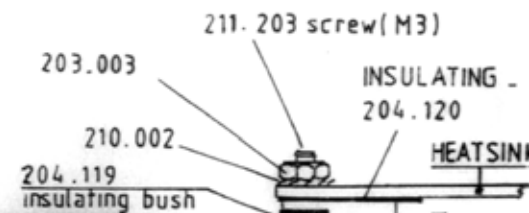
COUPLER SCHEMATIC
MOC3083



DEPARASITAGE TRIACS
DISTURBANCES SUPPRESSOR

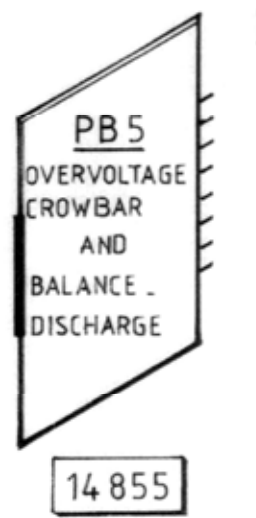
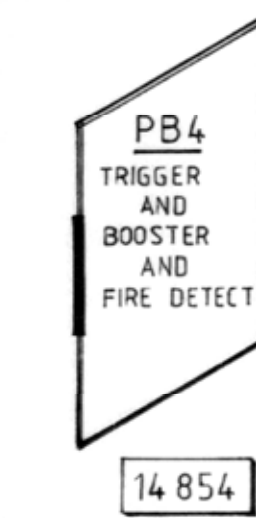
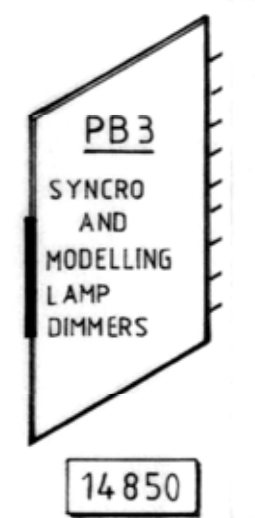
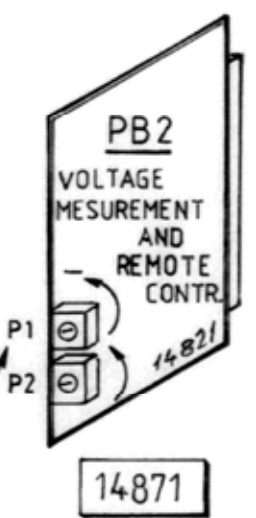
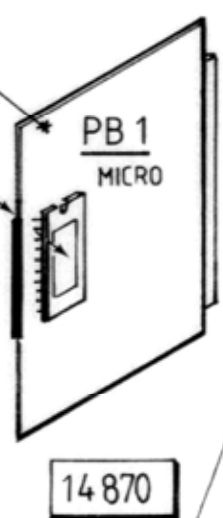
0,022 μF - 104.103
(2x)

TRIAC MOUNTING
TO-220 25A/800V



TEST THE MICRO BOARD WITH THE CONTROLLER BOX
CODE ORDER : 11928

EPROM FOR : ORDER
1500 MICRO AS → 105.098
3000 " → 105.099
6000 " → 105.100
ADJUST +680 ±2 VDC.
WITH TOTAL POWER DISPLAYED
8.0 FOR 1500 MICRO AS
9.0 " 3000 "
10 " 6000 "



P1=OVERALL VOLTAGE SETTING
P2= BALANCE ADJUSTEMENT AT 340 V

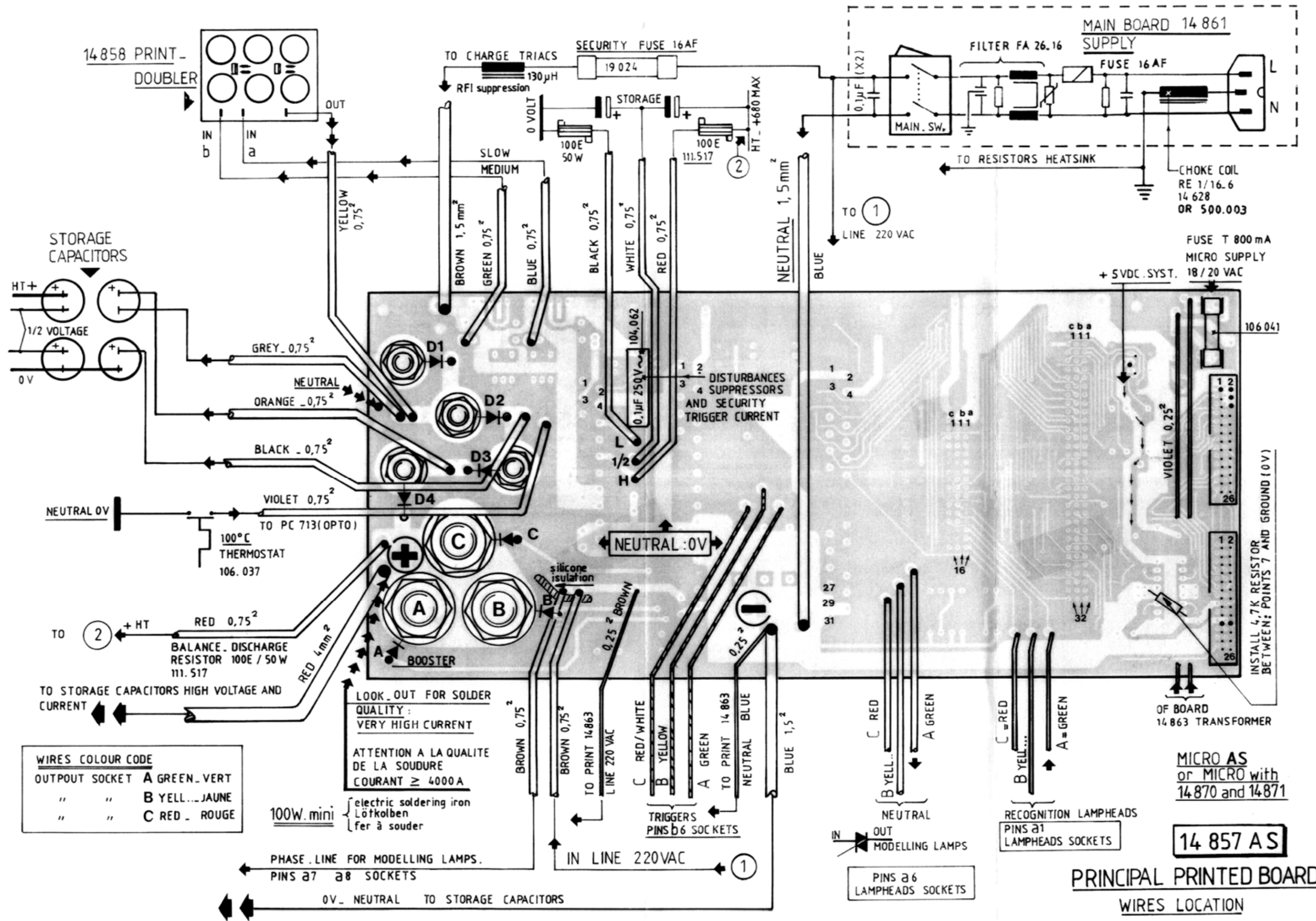
14849 A (NEW)

14854A (NEW)

PRINCIPAL PRINTED BOARD
for servicing order :

14857-AS

FOR MICRO AS
OR MICRO WITH
14870 and 14871



14858 PRINT-
DOUBLER

SECURITY FUSE 16AF
19024

MAIN BOARD 14861
SUPPLY

FILTER FA 26.16

FUSE 16AF

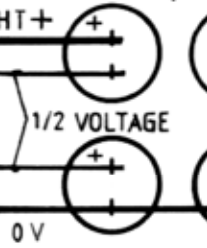
TO (1)
LINE 220 VAC

TO RESISTORS HEATSINK

CHOKE COIL
RE 1/16.6
14628
OR 500.003

FUSE T 800 mA
MICRO SUPPLY
+5VDC .SYST. 18/20 VAC

STORAGE CAPACITORS



GREY .0,75²

NEUTRAL
ORANGE .0,75²

BLACK .0,75²

VIOLET 0,75²

NEUTRAL 0V

100°C
THERMOSTAT
106.037

TO PC 713(OPTO)

TO (2) + HT

BALANCE . DISCHARGE
RESISTOR 100E / 50W
111.517

TO STORAGE CAPACITORS HIGH VOLTAGE AND
CURRENT

LOOK OUT FOR SOLDER
QUALITY :
VERY HIGH CURRENT

ATTENTION A LA QUALITE
DE LA SOUDURE
COURANT ≥ 4000 A

100W .mini

electric soldering iron
LötKolben
fer à souder

WIRES COLOUR CODE
OUTPUT SOCKET A GREEN .VERT
" " B YELL...JAUNE
" " C RED . ROUGE

PHASE . LINE FOR MODELLING LAMPS.
PINS a7 a8 SOCKETS

0V . NEUTRAL TO STORAGE CAPACITORS

IN LINE 220VAC

TO PRINT 14863
LINE 220 VAC

TRIGGERS
PINS b6 SOCKETS

PINS a6
LAMPHEADS SOCKETS

RECOGNITION LAMPHEADS
PINS a1
LAMPHEADS SOCKETS

MICRO AS
or MICRO with
14870 and 14871

14857 AS

PRINCIPAL PRINTED BOARD

WIRES LOCATION

200/260 VAC VERSION

(11.93) 09 .1997

INSTALL 4,7K RESISTOR
BETWEEN: POINTS 7 AND GROUND (0V)

OF BOARD
14863 TRANSFORMER

1 2
3 4
DISTURBANCES
& SUPPRESSORS
AND SECURITY
TRIGGER CURRENT

1 2
3 4

27
29
31

IN

OUT

MODELLING LAMPS

RECOGNITION LAMPHEADS
PINS a1
LAMPHEADS SOCKETS

OF BOARD
14863 TRANSFORMER

MICRO AS
or MICRO with
14870 and 14871

14857 AS

PRINCIPAL PRINTED BOARD

WIRES LOCATION

200/260 VAC VERSION

(11.93) 09 .1997

INSTALL 4,7K RESISTOR
BETWEEN: POINTS 7 AND GROUND (0V)

OF BOARD
14863 TRANSFORMER

1 2
3 4
DISTURBANCES
& SUPPRESSORS
AND SECURITY
TRIGGER CURRENT

1 2
3 4

27
29
31

IN

OUT

MODELLING LAMPS

RECOGNITION LAMPHEADS
PINS a1
LAMPHEADS SOCKETS

OF BOARD
14863 TRANSFORMER

MICRO AS
or MICRO with
14870 and 14871

14857 AS

PRINCIPAL PRINTED BOARD

WIRES LOCATION

200/260 VAC VERSION

(11.93) 09 .1997

INSTALL 4,7K RESISTOR
BETWEEN: POINTS 7 AND GROUND (0V)

OF BOARD
14863 TRANSFORMER

1 2
3 4
DISTURBANCES
& SUPPRESSORS
AND SECURITY
TRIGGER CURRENT

1 2
3 4

27
29
31

IN

OUT

MODELLING LAMPS

RECOGNITION LAMPHEADS
PINS a1
LAMPHEADS SOCKETS

OF BOARD
14863 TRANSFORMER

MICRO AS
or MICRO with
14870 and 14871

14857 AS

PRINCIPAL PRINTED BOARD

WIRES LOCATION

200/260 VAC VERSION

(11.93) 09 .1997

INSTALL 4,7K RESISTOR
BETWEEN: POINTS 7 AND GROUND (0V)

OF BOARD
14863 TRANSFORMER

1 2
3 4
DISTURBANCES
& SUPPRESSORS
AND SECURITY
TRIGGER CURRENT

1 2
3 4

27
29
31

IN

OUT

MODELLING LAMPS

RECOGNITION LAMPHEADS
PINS a1
LAMPHEADS SOCKETS

OF BOARD
14863 TRANSFORMER

MICRO AS
or MICRO with
14870 and 14871

14857 AS

PRINCIPAL PRINTED BOARD

WIRES LOCATION

200/260 VAC VERSION

(11.93) 09 .1997

INSTALL 4,7K RESISTOR
BETWEEN: POINTS 7 AND GROUND (0V)

OF BOARD
14863 TRANSFORMER

1 2
3 4
DISTURBANCES
& SUPPRESSORS
AND SECURITY
TRIGGER CURRENT

1 2
3 4

27
29
31

IN

OUT

MODELLING LAMPS

RECOGNITION LAMPHEADS
PINS a1
LAMPHEADS SOCKETS

OF BOARD
14863 TRANSFORMER

MICRO AS
or MICRO with
14870 and 14871

14857 AS

PRINCIPAL PRINTED BOARD

WIRES LOCATION

200/260 VAC VERSION

(11.93) 09 .1997

INSTALL 4,7K RESISTOR
BETWEEN: POINTS 7 AND GROUND (0V)

OF BOARD
14863 TRANSFORMER

1 2
3 4
DISTURBANCES
& SUPPRESSORS
AND SECURITY
TRIGGER CURRENT

1 2
3 4

27
29
31

IN

OUT

MODELLING LAMPS

RECOGNITION LAMPHEADS
PINS a1
LAMPHEADS SOCKETS

OF BOARD
14863 TRANSFORMER

MICRO AS
or MICRO with
14870 and 14871

14857 AS

PRINCIPAL PRINTED BOARD

WIRES LOCATION

200/260 VAC VERSION

(11.93) 09 .1997

INSTALL 4,7K RESISTOR
BETWEEN: POINTS 7 AND GROUND (0V)

OF BOARD
14863 TRANSFORMER

1 2
3 4
DISTURBANCES
& SUPPRESSORS
AND SECURITY
TRIGGER CURRENT

1 2
3 4

27
29
31

IN

OUT

MODELLING LAMPS

RECOGNITION LAMPHEADS
PINS a1
LAMPHEADS SOCKETS

OF BOARD
14863 TRANSFORMER

MICRO AS
or MICRO with
14870 and 14871

14857 AS

PRINCIPAL PRINTED BOARD

WIRES LOCATION

200/260 VAC VERSION

(11.93) 09 .1997

INSTALL 4,7K RESISTOR
BETWEEN: POINTS 7 AND GROUND (0V)

OF BOARD
14863 TRANSFORMER

1 2
3 4
DISTURBANCES
& SUPPRESSORS
AND SECURITY
TRIGGER CURRENT

1 2
3 4

27
29
31

IN

OUT

MODELLING LAMPS

RECOGNITION LAMPHEADS
PINS a1
LAMPHEADS SOCKETS

OF BOARD
14863 TRANSFORMER

MICRO AS
or MICRO with
14870 and 14871

14857 AS

PRINCIPAL PRINTED BOARD

WIRES LOCATION

200/260 VAC VERSION

(11.93) 09 .1997

INSTALL 4,7K RESISTOR
BETWEEN: POINTS 7 AND GROUND (0V)

OF BOARD
14863 TRANSFORMER

1 2
3 4
DISTURBANCES
& SUPPRESSORS
AND SECURITY
TRIGGER CURRENT

1 2
3 4

27
29
31

IN

OUT

MODELLING LAMPS

RECOGNITION LAMPHEADS
PINS a1
LAMPHEADS SOCKETS

OF BOARD
14863 TRANSFORMER

MICRO AS
or MICRO with
14870 and 14871

14857 AS

PRINCIPAL PRINTED BOARD

WIRES LOCATION

200/260 VAC VERSION

(11.93) 09 .1997

INSTALL 4,7K RESISTOR
BETWEEN: POINTS 7 AND GROUND (0V)

OF BOARD
14863 TRANSFORMER

1 2
3 4
DISTURBANCES
& SUPPRESSORS
AND SECURITY
TRIGGER CURRENT

1 2
3 4

27
29
31

IN

OUT

MODELLING LAMPS

RECOGNITION LAMPHEADS
PINS a1
LAMPHEADS SOCKETS

OF BOARD
14863 TRANSFORMER

MICRO AS
or MICRO with
14870 and 14871

14857 AS

PRINCIPAL PRINTED BOARD

WIRES LOCATION

200/260 VAC VERSION

(11.93) 09 .1997

INSTALL 4,7K RESISTOR
BETWEEN: POINTS 7 AND GROUND (0V)

OF BOARD
14863 TRANSFORMER

1 2
3 4
DISTURBANCES
& SUPPRESSORS
AND SECURITY
TRIGGER CURRENT

1 2
3 4

27
29
31

IN

OUT

MODELLING LAMPS

RECOGNITION LAMPHEADS
PINS a1
LAMPHEADS SOCKETS

OF BOARD
14863 TRANSFORMER

MICRO AS
or MICRO with
14870 and 14871

14857 AS

PRINCIPAL PRINTED BOARD

WIRES LOCATION

200/260 VAC VERSION

(11.93) 09 .1997

INSTALL 4,7K RESISTOR
BETWEEN: POINTS 7 AND GROUND (0V)

OF BOARD
14863 TRANSFORMER

1 2
3 4
DISTURBANCES
& SUPPRESSORS
AND SECURITY
TRIGGER CURRENT

1 2
3 4

27
29
31

IN

OUT

MODELLING LAMPS

RECOGNITION LAMPHEADS
PINS a1
LAMPHEADS SOCKETS

OF BOARD
14863 TRANSFORMER

MICRO AS
or MICRO with
14870 and 14871

14857 AS

PRINCIPAL PRINTED BOARD

WIRES LOCATION

200/260 VAC VERSION

(11.93) 09 .1997

INSTALL 4,7K RESISTOR
BETWEEN: POINTS 7 AND GROUND (0V)

OF BOARD
14863 TRANSFORMER

1 2
3 4
DISTURBANCES
& SUPPRESSORS
AND SECURITY
TRIGGER CURRENT

1 2
3 4

27
29
31

IN

OUT

MODELLING LAMPS

RECOGNITION LAMPHEADS
PINS a1
LAMPHEADS SOCKETS

OF BOARD
14863 TRANSFORMER

MICRO AS
or MICRO with
14870 and 14871

14857 AS

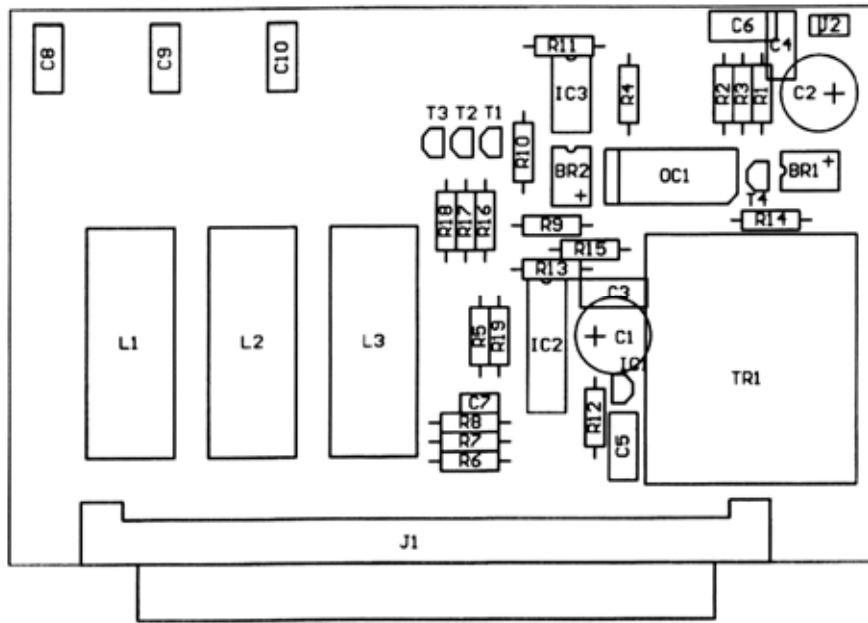
PRINCIPAL PRINTED BOARD

WIRES LOCATION

200/260 VAC VERSION

(11.93) 09 .1

SYNCRONISATION MODELLING LAMP DIMMERS



PART N°	QTY	DESCRIPTION	REF. N°
14800A	1	PRINT	
100.044	3	INDUCTOR 550uH	L1-L2-L3
100.050	1	TRANSFORMER 240/12V	TR1
104.064	1	POLYESTER CAPACITOR 330nF	C5
104.066	5	POLYESTER CAPACITOR 100nF/63V	C3-4-8-9-10
104.072	1	POLYESTER CAPACITOR 33nF/63V	C6
104.078	1	TANTALUM CAPACITOR 10uF/16V	C1
105.137	3	TRIAC T2513NH 25A/900V	T1-2-3
105.053	1	PHOTOCOPLER PC 511	OC1
105.054	1	VOLTAGE REGULATOR 5V	IC1
105.055	1	COMPARATOR LM 393A	IC3
105.057	2	RECTIFIER BRIDGE 1A 400V	BR1-BR2
105.059	1	IC 74HC132	IC2
110.058	1	CONNECTOR 31PM	J1
110.063	1	IC SOCKET 14P	IC2
110.072	1	2 PIN (POLARIZING HEADER)	J2
110.092	1	IC SOCKET 8P	IC3
121.102	4	1K RESISTOR	R6-7-8-9
121.103	5	10K RESISTOR	R2-4-11-12-13
121.105	1	1M RESISTOR	R15
121.182	1	1.8K RESISTOR	R5
121.220	3	220R RESISTOR	R16-17-18
121.332	1	3.3K RESISTOR	R3
120.001	1	JUMPER	R19
121.561	1	560R RESISTOR	R14
14012	4	BC 547 TRANSISTOR	T1-2-3-4
14663	1	BOARD EXTRACTOR	
203.031	3	M3 NUT FOR TRIACS	
210.520	6	COPPER WASHER	
211.203	6	M3x6 SCREW FOR TRIAC	
204.128	3	INSULATING WASHER	
54005	1	CAPACITOR 100uF 25V	
201.713	1	HEATSINK SET OF 3	
121.824	1	820K RESISTOR	
104.065	1	CERAMIC CAPACITOR 220nF/63V	
121.104	1	100K RESISTOR	R1

T2513NH
or MAC 224A10
Code 105.137

Version 97

Modification: 14849 to 14849A
R19 (470K) take out, install jumper
R5 (150K) take out, install 18K
C7 (560pF) take out
added 220nF between pin 2 of 74HC132 and pin 7 0V (ground)

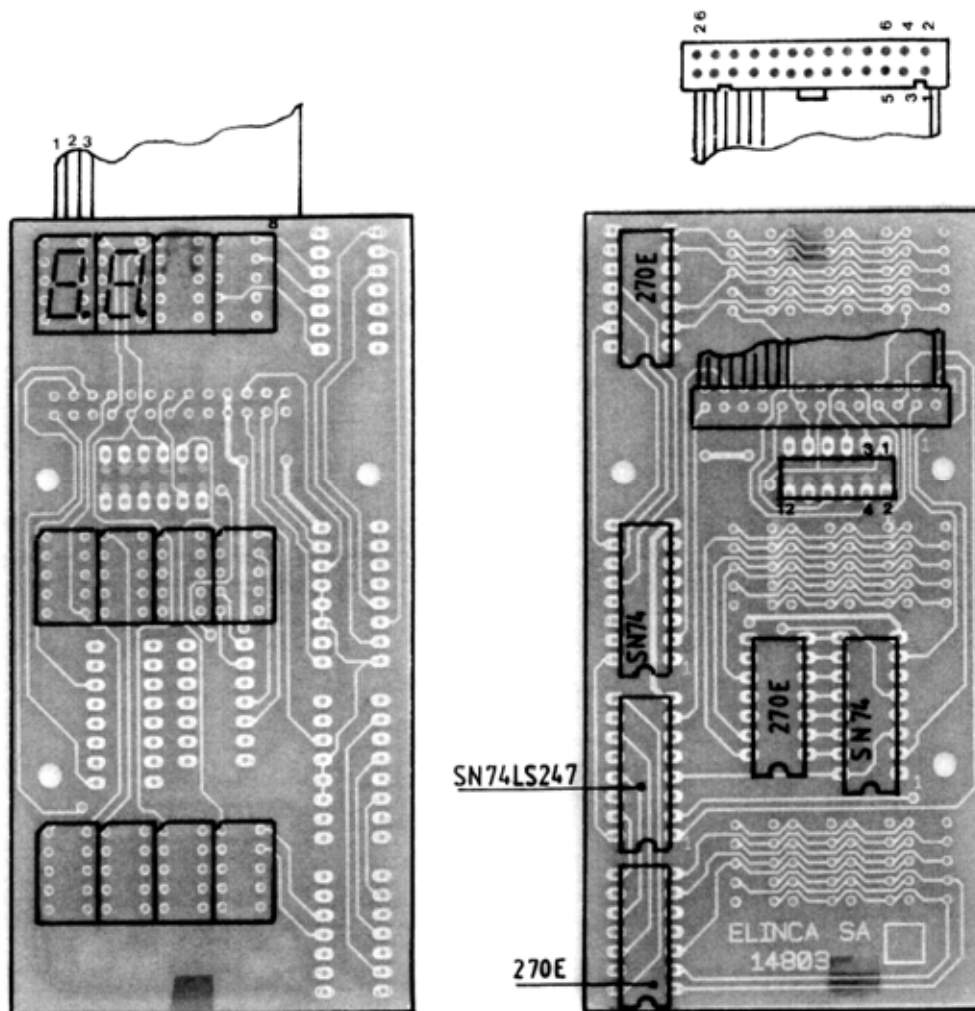
PB3

New

ELINCHROM MICRO
CIRCUIT ASSEMBLY 14849 A

110V/220V - VERSION

Up-date 09.99



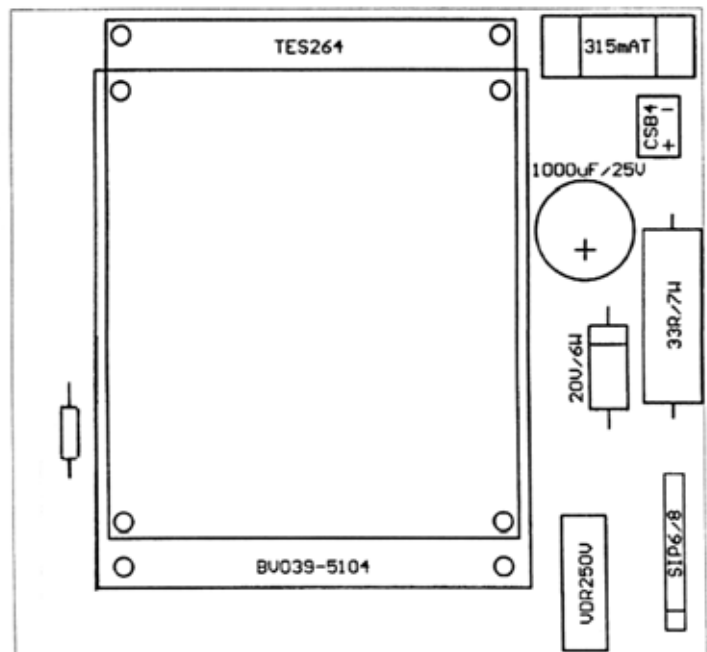
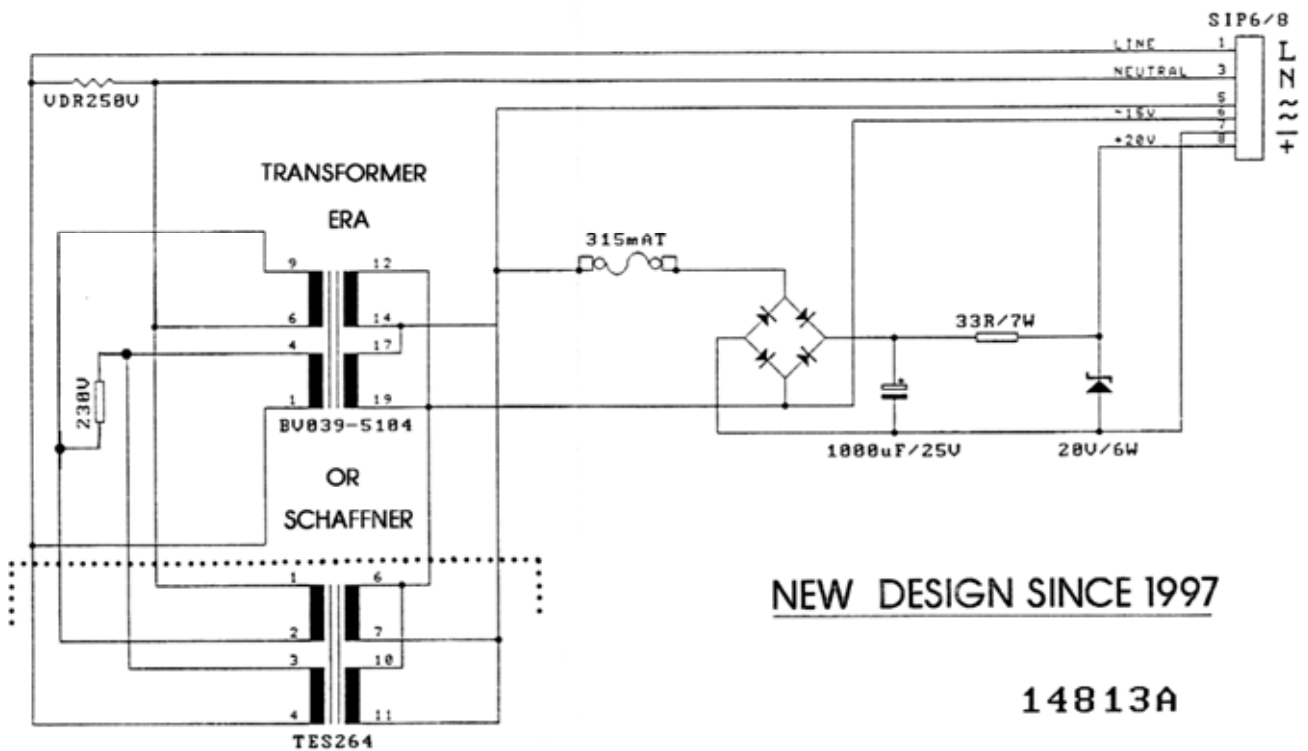
PARTS LIST

<u>Part No.</u>	<u>Specification</u>
105.060	IC DECODEUR SN74LS247
105.066	AFFICHAGE 7 SEG. LED
110.073	CONNECTEUR 12PF POUR C.I.
111.606	RESEAU RES. 7 X 270 Ω DIL
14803	C.I. 3-AFFICHEURS MICRO NU
501.029	CABLE PLAT 26P 49cm GENERATEUR

ELINCHROM MICRO
CIRCUIT ASSEMBLY 14853

110V/220V - VERSION

Power Supply Netzteil

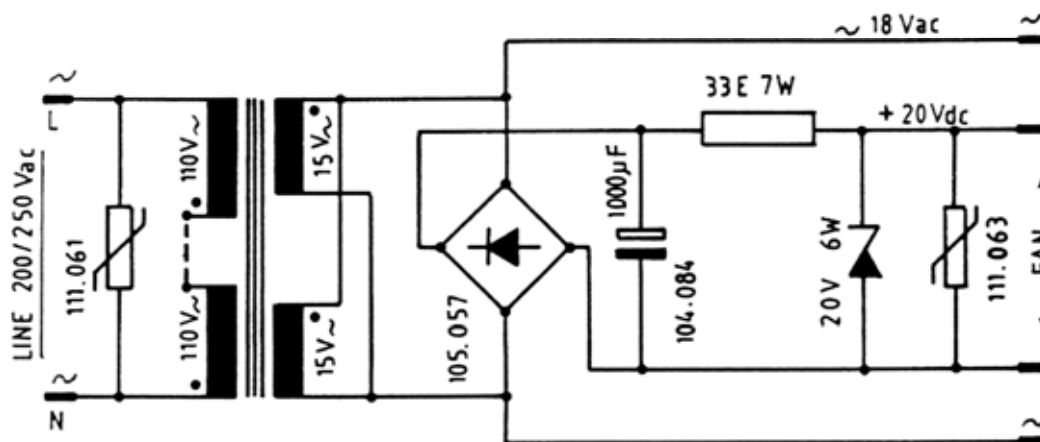
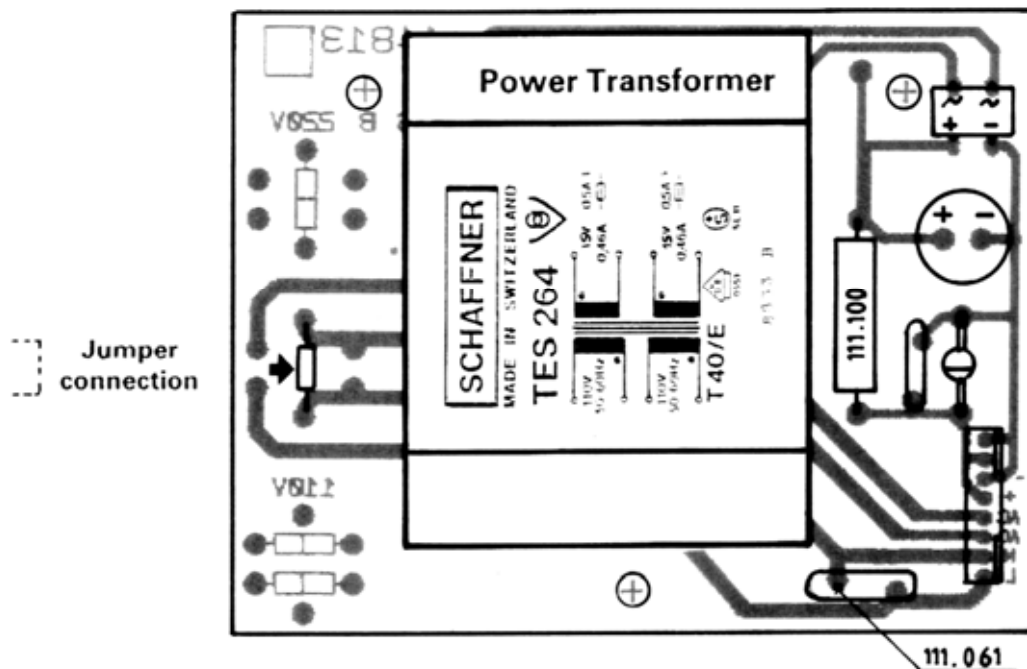


SEQ REFERENCE	DESIGNATION	COMPOSANT
10 14813	C.I.	ALIM VENTILATEUR MICRO NU
20 120.001	RES.	0 Ω
20 111.100	RES. PUISS. CER.	33 Ω 5% 7W
30 105.057	REDRESSEUR DIP	400V 1A
30 105.088	DIODE ZENER	20V 6W
40 104.084	COND.ELECTROL.VERT.	1000µF 25V
50 111.061	VARIISTOR	390K 250VAC
60 100.052	TRANSFORMATEUR STANDARD	14 VA
90 110.084	CONNECTEUR	8pM MOLEX
100 106.039	SUPPORT FUSIBLE PR C.I.	20mm
110 54010	FUSIBLE FST	5x20 315 mA

CIRCUIT ASSEMBLY 14863A

230V - VERSION 09.97

Power Supply Netzteil Alimentation



Part No. Specification

100.052	TRANSFO PLAT SCHAFFNER 14 VA
104.084	COND.ELECTROL.VERT. 1000µF 25V
105.057	REDRESSEUR DIP 400V 1A
105.088	DIODE ZENER 20V 6W
110.084	CONNECTEUR 8pM MOLEX
111.061	VARISTOR 390K 250VAC
111.063	VARISTOR 390K 25VAC
111.100	RES. PUISS. CER. 33 Ω 5% 7W
120.001	RES. 0 Ω (1%) 1/4 W 250 V
14813	C.I. VENTILATEUR MICRO NU

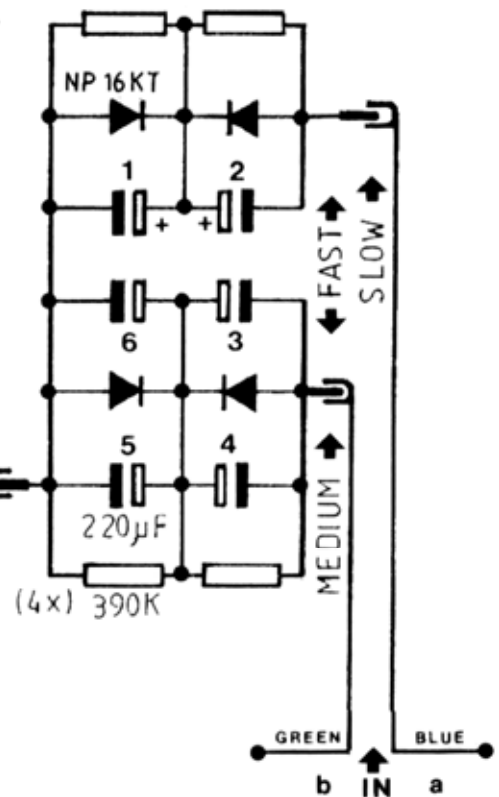
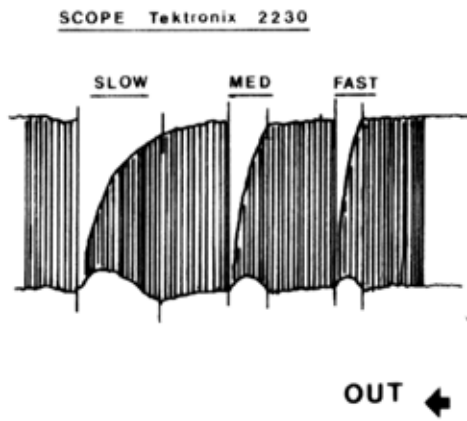
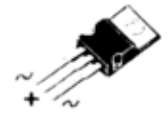
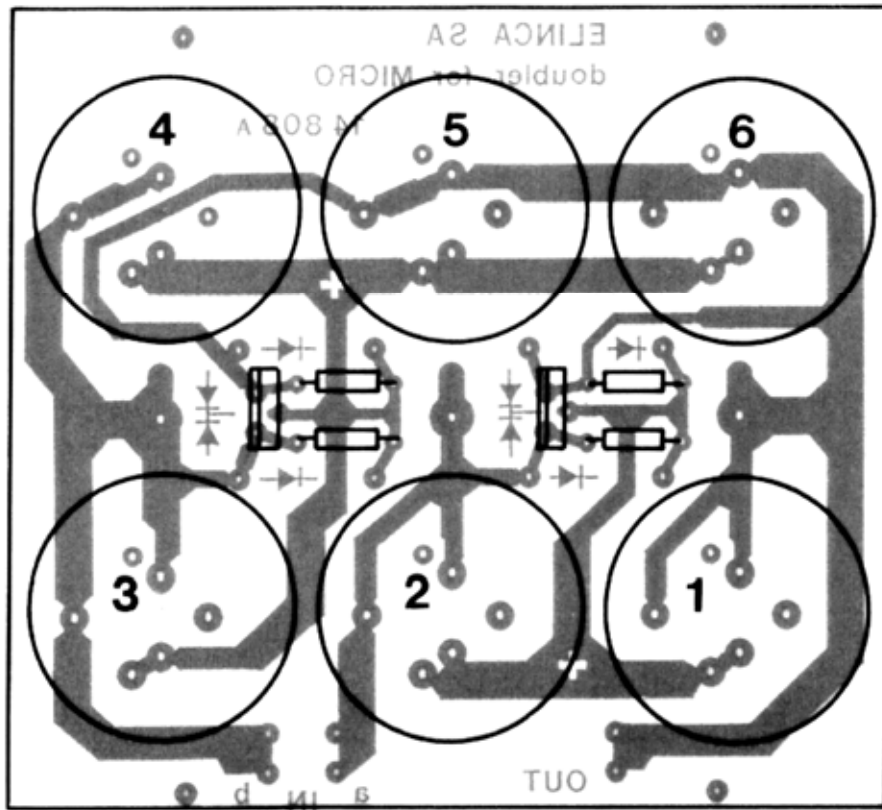
IMPROVEMENT FOR MORE FAN EFFICIENCY

Modification:

- Take out zener diode 20V 105.088
- Install a jump in parallel on 33R/7W resistor

ELINCHROM MICRO
CIRCUIT ASSEMBLY 14 863
SCHEMATIC DIAGRAM

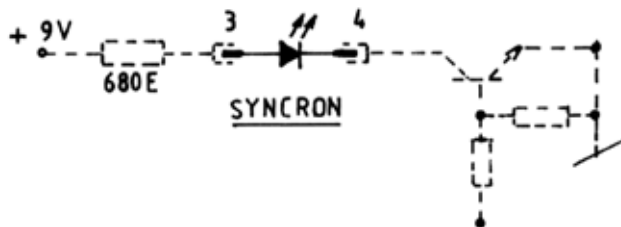
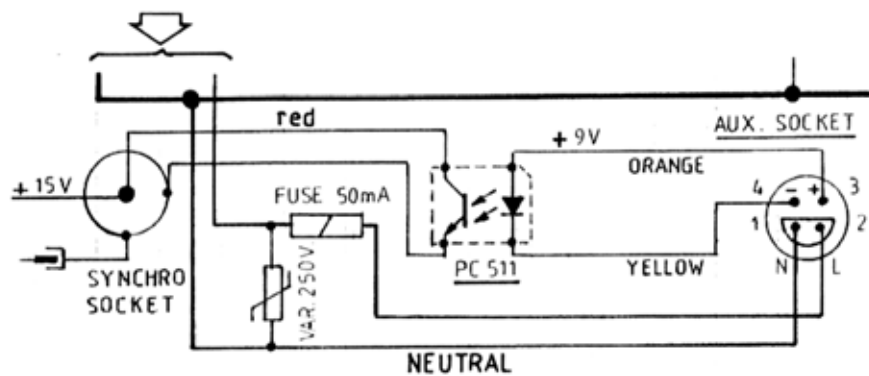
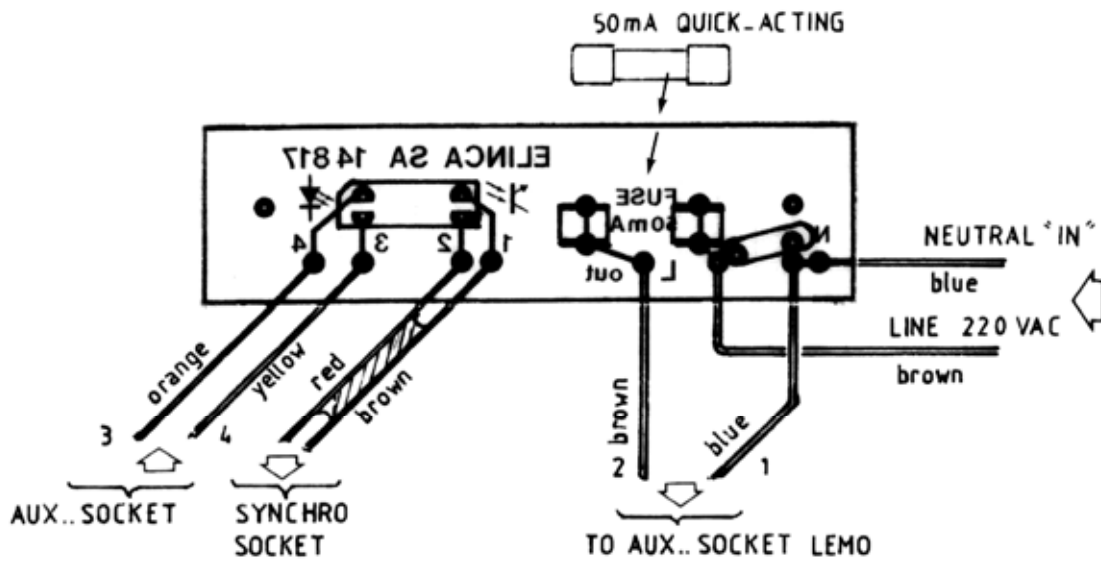
Voltage doubling capacitors



Part No.	Specification
14858	print with elements
14808	print only
121394	res. 390 k / 350 V
105.058	2x dual diode NP 16 KT (version 1989–1994)
105.050	4x diodes 6A/800V (New version 1995)
104.082	capacitor 220uF/385V
112.078	connector 6.35 mm
112.075	connector 4.8 mm
209.103	hexagonal PA spacer 4x10 mm
203.032	nut M4 combi

ELINCHROM MICRO
CIRCUIT ASSEMBLY 14858
SCHEMATIC DIAGRAM

AUXILIARY SOCKET INTERFACE

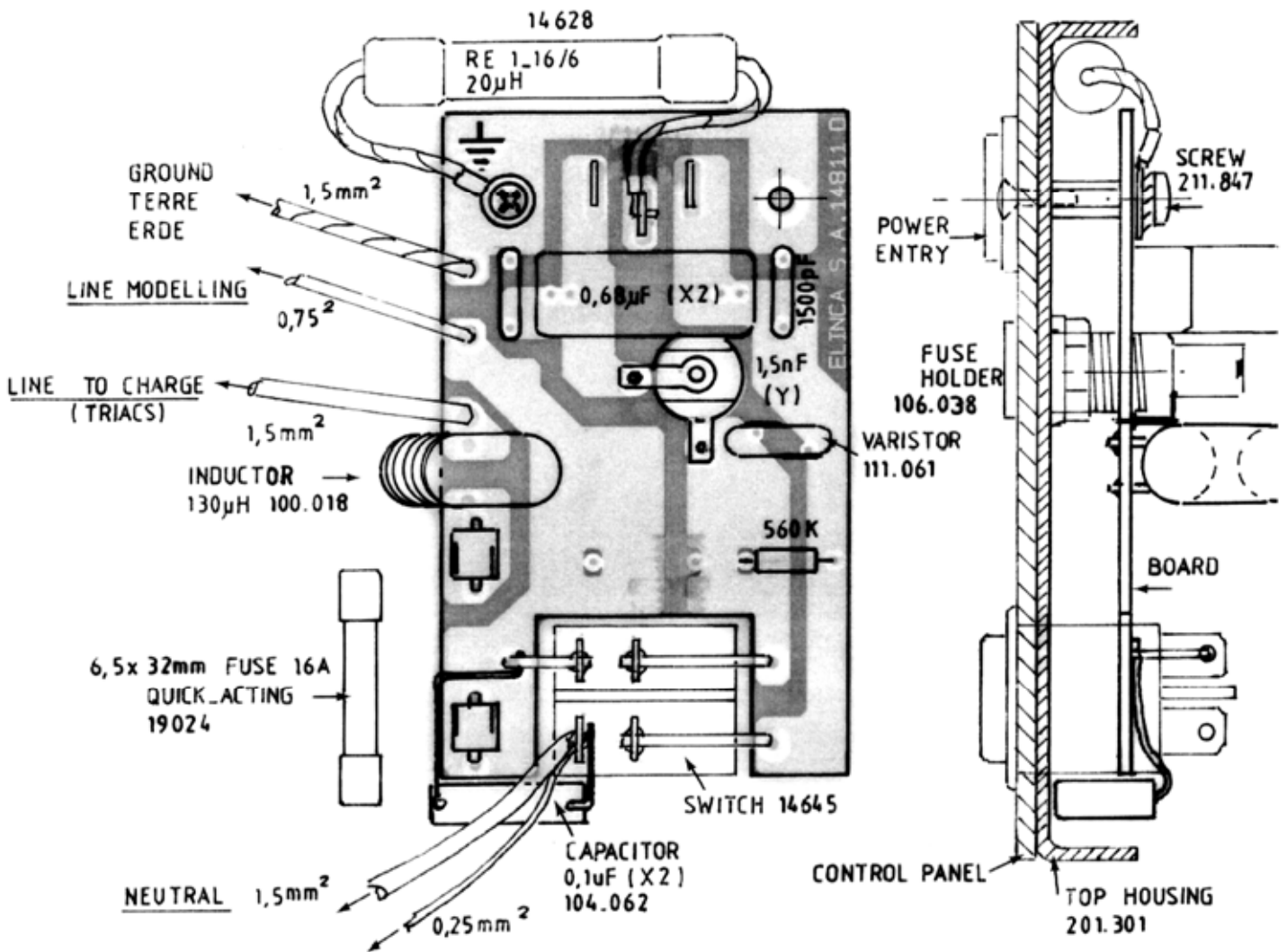


PART N° SPECIFICATION

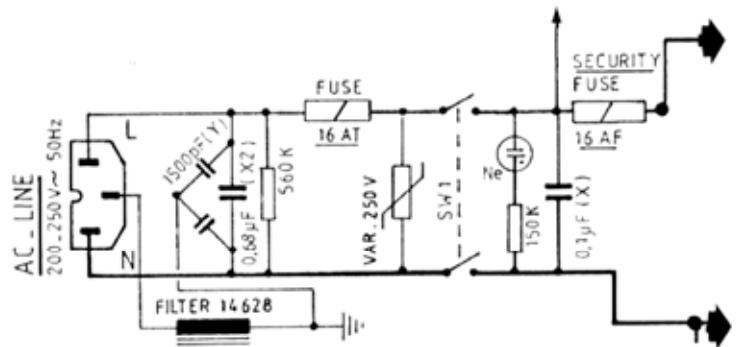
14817	PRINT
111.061	VARISTOR 390k 250 VAC
106.039	SPRING FUSE HOLDER
106.040	FUSE 5x20mm 50mA
105.053	PHOTOCOUPLER PC 511 or HK 3030
	Long Creeping Distance

**ELINCHROM MICRO
CIRCUIT ASSEMBLY 14867**

POWER ENTRY AC



PART N°	SPECIFICATION
14811	PRINT
121.564	RESISTOR 560K/2500v
104.087	CAPACITOR 0.68µF (X2)
104.088	CAPACITOR 1500pF (Y)
111.061	VARIATOR 390K 250VAC
106.026	SPRING FUSE HOLDER
100.018	NOISE ABSORBING INDUCTOR 130µH
14628	EARTH LINE CHOKE RE 20µH
112.080	COLLAR SLEEVES (DOUILLE) 5.4x2.5
112.081	COLLAR SLEEVES 18x3mm

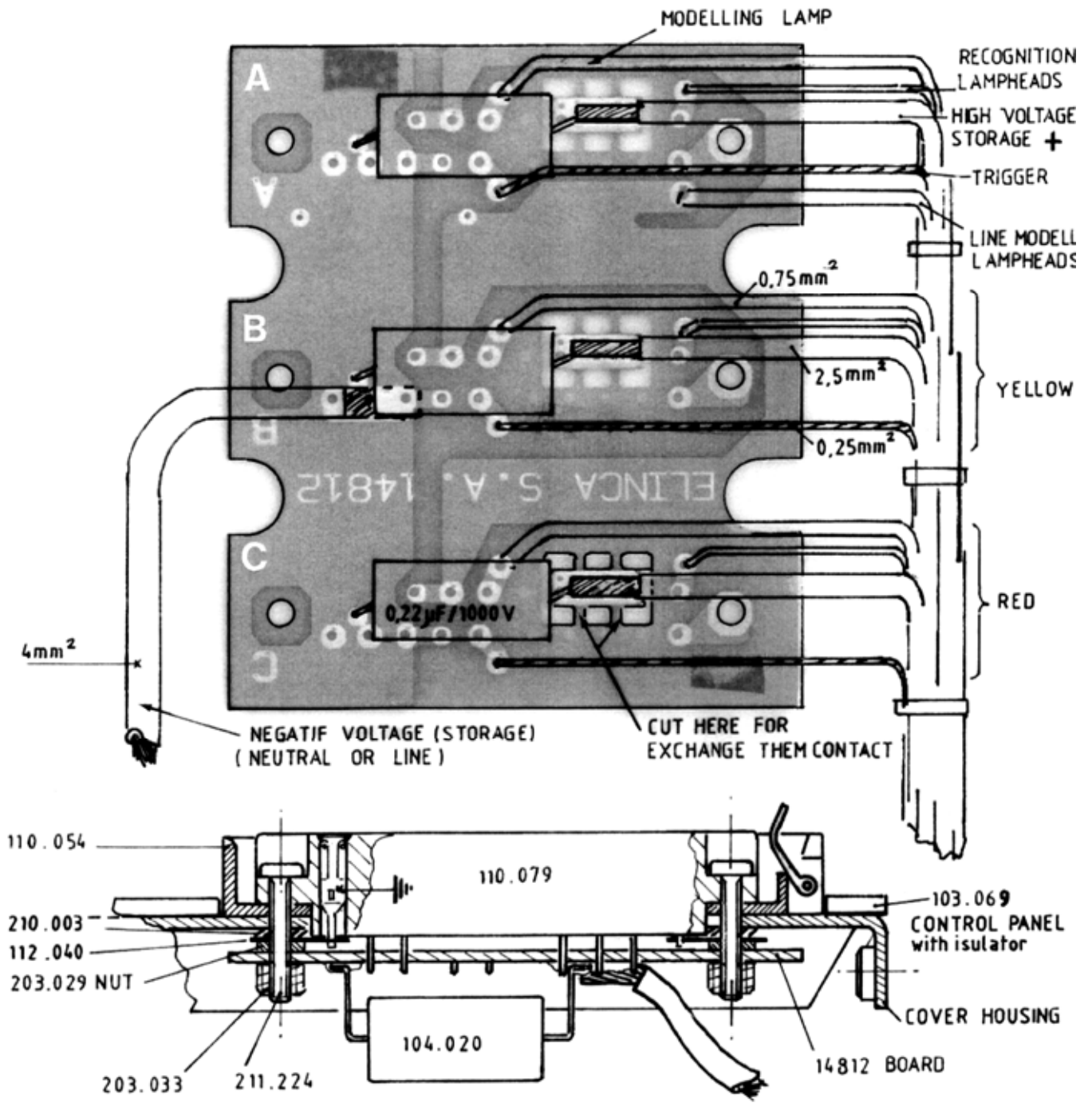


Version 97
 without 1500pF
 New earthline choke 4mH (500.003)
 Line filter FA26.16 (104.112)

ELINCHROM MICRO
 CIRCUIT ASSEMBLY 14861A

ISSUE 09.97

ELINCHROM MICRO CIRCUIT SOCKETS



PARTS N°	DESCRIPTION
14812 A	PRINTED BOARD
104.020	CAPACITOR 0,22/1000V
110.079	SOCKET 20x FOR PRINT
110.054	RECEPTACLE SOCKET (EMBASE)
211.224	FIXING SCREW M4x20
210.003	TOOTHED LOCK WASHER
112.040	FLAT TERMINAL CONNECTION
203.029	M4 NUT (metal)
203.033	M4 NUT (Polyamide)
500.027	STRANDED CONDUCTOR verseiltes Kabel (toron)

14812

PRINTED BOARD
110V/220V - VERSION

MISCELLANEOUS INFORMATION

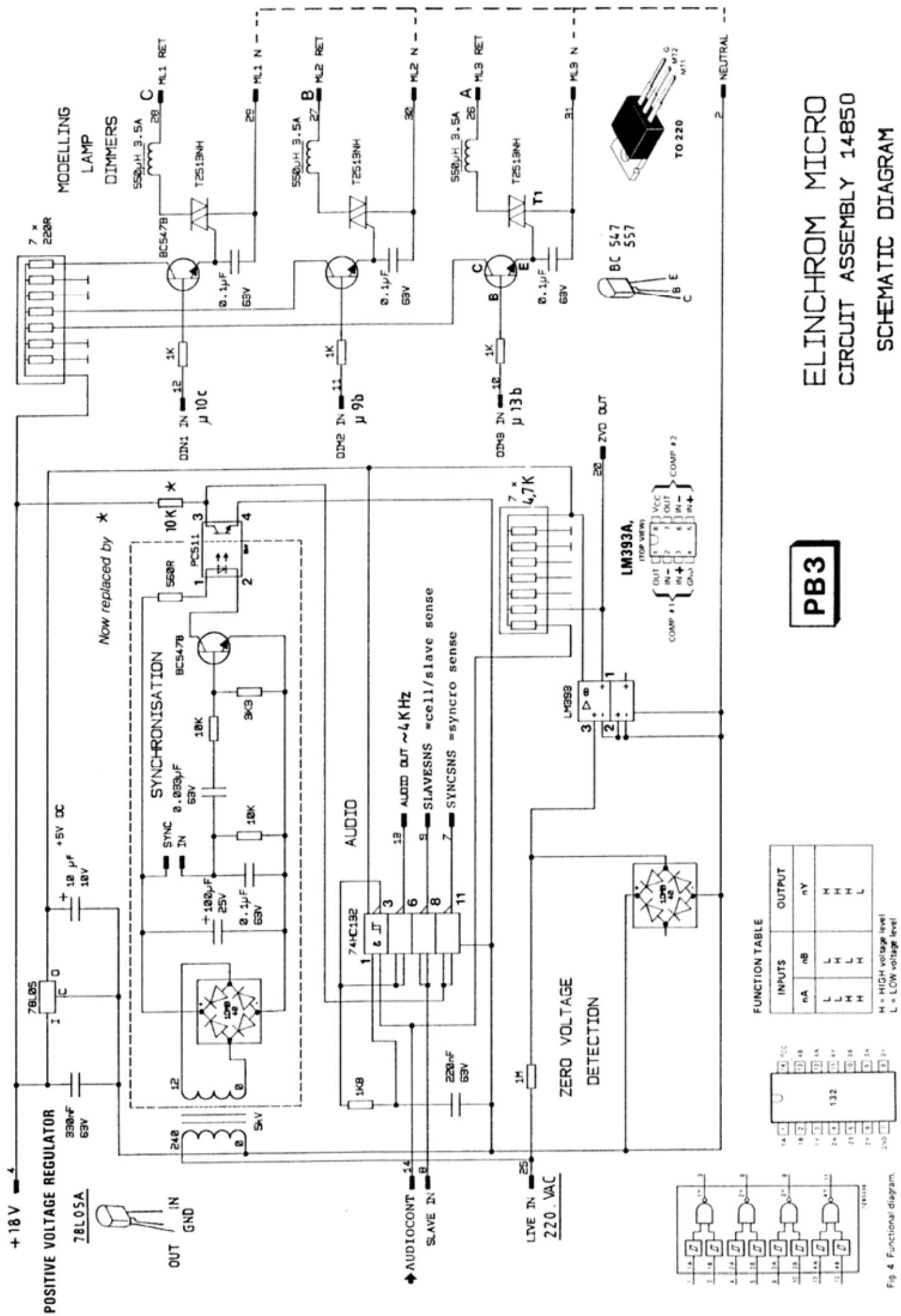
- Micro boards list (220V version)
- Basic list of components needed for Micro AS
- PB3 schematic 1990/94 version
- PB4 schematic up-date 1994 version
- Infos:
- Mounting instruction for triac 105.049
- Charge triac 40A/800V (heavy duty for repair)
- Voltage doubling for Micro 3000 and 6000
(heavy duty for repair)
- Synchro problem: inconsistant firing

MICRO BOARDS LIST 220V

PRINT NU WITHOUT	MONTE WITH	DESCRIPTION	VOLTAGE
14800	14850	Synchro dimmers PB3 (first version OK for 300W modelling)	220 V
14800A	14849A	Synchro dimmers PB3 (New heatsinks for all mod)	110/220 V
14851	14851	Micro board PB1 old (first version) replace by 14870	220 V
14802	14852	Power display	110/220 V
14803	14853	Outlet display	110/220 V
14804A	14854A	Booster trigger PB4 (With booster delay)	220 V
14805	14855	Discharge overvoltage PB5	220 V
14806	14856	Voltage measurement PB2 old (first version) replace by 14871	220 V
14807	14857	Motherboard PB6	220 V
14808	14858	Doubler (Standard part, 6x220uF)	220 V
14165	14910	Doubler 3x100uF (heavy duty version for repair 1500/3000)	220 V
14165	14912	Doubler 3x120uF (heavy duty version for repair 6000)	220V
14811	14861A	Power ac entry (1997 version without 1500 pf) Use with LINE FILTER 104.112	220 V
14811	14861	Power ac entry (first version 89/96)	220 V
14813	14863A	Power supply transformer (new version 1997) connection not similar at 14863 first version	220 V
14817	14867	Auxiliary board interface socket	220 V
14870	14870	Micro board PB1	110/220 V
14821	14871	Voltage measurement converter PB2	110/220 V
14812A		Board lamphead socket (only without elements)	110/220 V
		REMEMBER	
	14872	Transformation kit 1500 AS only	220 V
	14873	Transformation kit 3000 AS only	220 V
	14874	Transformation kit 6000 AS only	220 V
	14875	Initial kit repair for	220 V
	14877	Set EPROM AS-1 (105.098 - 105.099 - 105.100)	220 V
	14878	Set EPROM SY-5 (105.105 - 105.106 - 105.107)	220 V
102.074	14809	Auxiliary board for IRS TWO-FIVE	
102.072	14810	IRS standard board	
14815	14865	Syncron board	
			220 V
			220 V

220V - BASIC LIST OF COMPONENTS NEEDED FOR MICRO AS 1500/3000/6000

QTY	CODE NO.	DESCRIPTION
2	14870	Board micro PB1 (see instruction)
1	14877	Set EPROM AS-1 (105.098 - 105.099 for 3000 - 105.100 for 6000)
2	14871	Board converter PB2 (see instruction)
1	14849A	Board Sync-Dimmers PB3 (new type)
1	14854A	Board Triggers-Boosters PB4 (New type)
1	14855	Board Discharge-overvoltage PB5
1	14852	Power display with insulating 207.040
1	14853	Outlet display with insulating
3	14812A	Board lamphead sockets, 3 for pack (without element)
2	110.079	Connector 20 pF (lamphead socket)
2	110.054	Socket guide with hook for 110.079
1	14910	Board doubler capacitors (complete for 1500/3000) (heavy duty type)
1	14912	Board doubler capacitors (complete for 6000)
2 sets	105.049	Triac 25 A 800V T2513NH (with isolating 204.120+204.119 screws 211.203 or BTB 24BW only for charge
1 set	630.013	Special triacs for repair 40A/800V with heatsink for Micro 3000/6000
3	105.137	Triac MAC224A10 - 40A/800V for modelling and security (New type)
2	105.138	Solid state relay S21ME8Y
2	111.517	Resistor 100E/50W (PB5 discharge)
3	111.051	Resistor 5E 10 W (PB5 for security)
4	121.339	Resistor 330R carbon (PB5 for MOC 3083 or S21ME8Y)
4	111.039	Resistor 100 R/2W « R31 » carbon (for PB4 14854A)
2	105.079	Ic darlington arrays ULN 2074 for motherboard
3	105.060	Ic decoder drivers SN 74LS247 (displays)
1	105.061	Ic preamplifier SL 486 (IRS)
2	105.078	Regulator LM 317T (TO 220) for motherboard
2	105.054	Regulator 5V LP 2950 (TO 92)
2	105.063	Regulator 12V Lm 78L12 (TO 92)
2	105.057	Rectifiers bridge 1A/400V
2	106.038	Fuse holder
1box	19057	Main fuse 16AT 5x20 mm(10 parts)
1box	19024	Security fuse 16AF 6x32 mm for (10 parts)
1box	106.041	Systeme fuse 800 mA (10 parts)
1box	106.040	Auxiliary socket fuse 50 mAF (10 parts)
1	107.015	Fan 24 VDC
1	204.125	Self adhesive for fan 107.015
1	106.037	Thermal switch
2	111.061	Varistor 250 VAC
Tools recommended :		
1	11928	Micro test box (for PB1 14870)
1	11929	A/D test box (for PB2 14871)
1	11931	Input current limiter + discharge resistor
1	11908	adapter for 11931 (see instruction service manual)



PB3

**ELINCHROM MICRO
CIRCUIT ASSEMBLY 14850
SCHEMATIC DIAGRAM**

FUNCTION TABLE

INPUTS	OUTPUT
nA	nV
L	H
L	H
H	H
H	L

H = HIGH voltage level
L = LOW voltage level

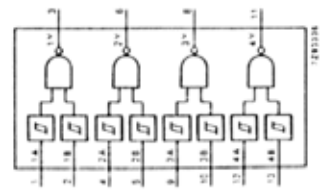
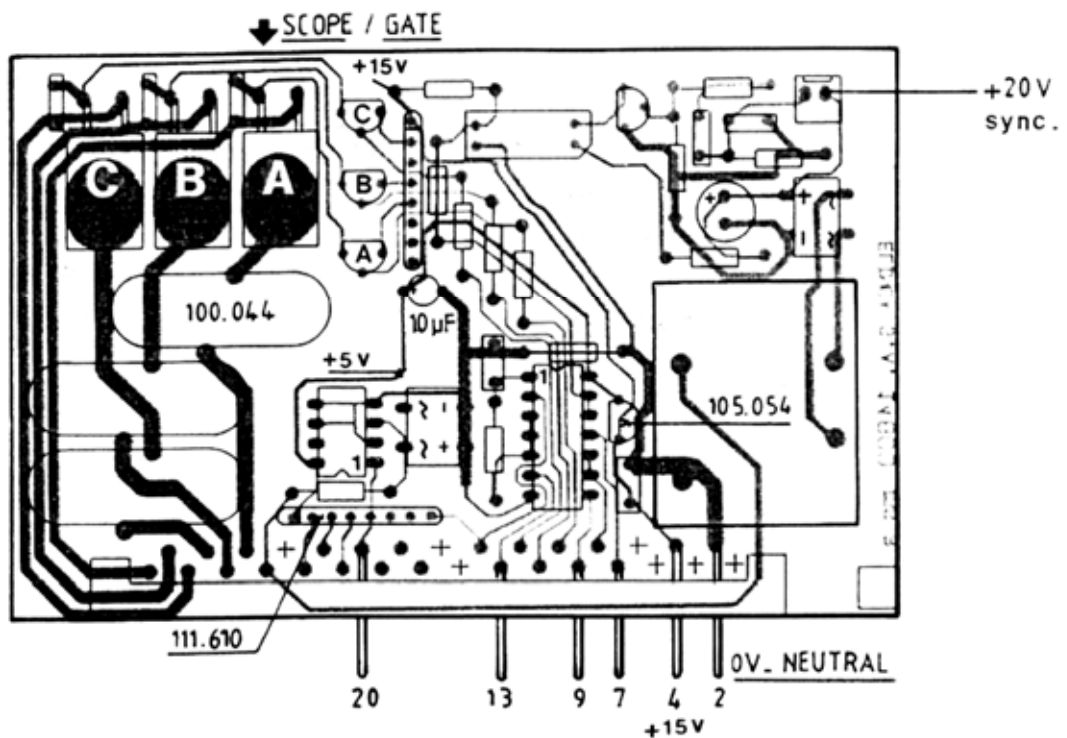


Fig. 4 Functional diagram.

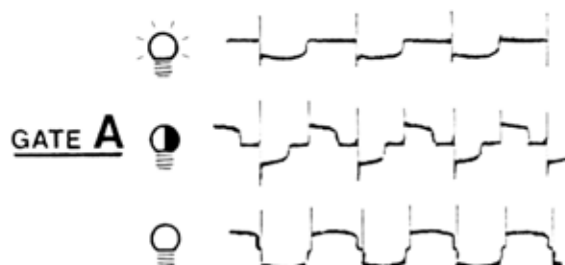
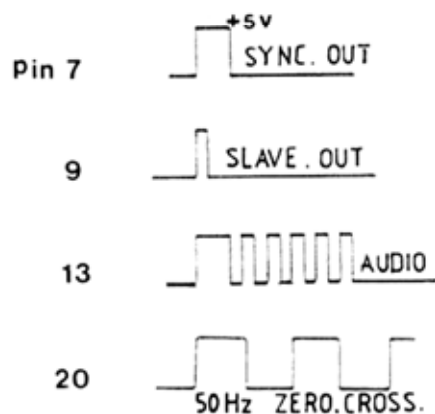
SYNCHRONISATION

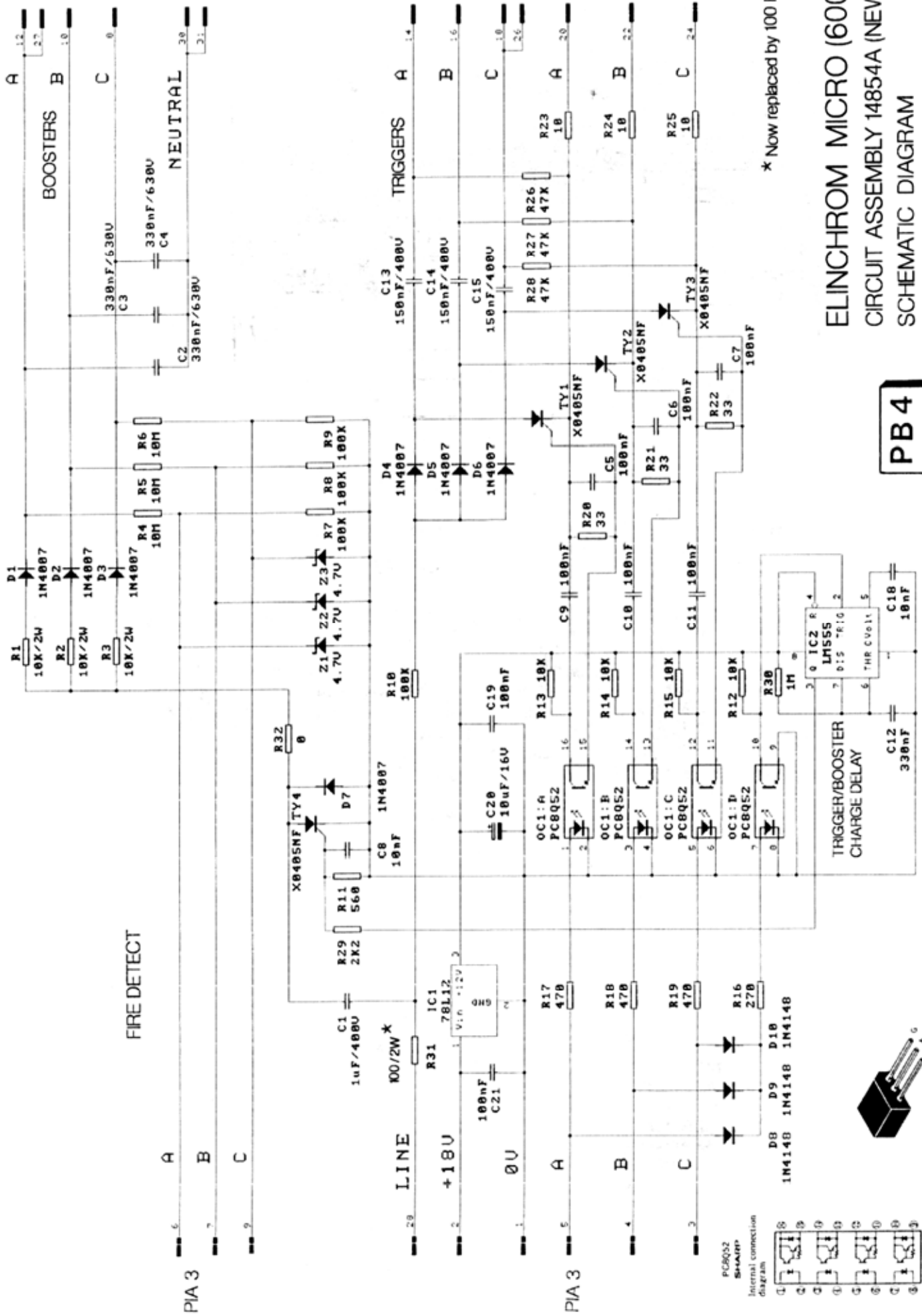
MODELLING LAMP DIMMERS



Part No. Specification

100.044	SELF 550 µH 3 A
100.050	TRANSFO GENERATEUR MICRO 220V
104.064	COND. POLYESTER MET. 330nF 63V
104.065	COND. POLYESTER MET. 220nF 63V
104.066	COND. POLYESTER MET. 100nF 63V
104.072	COND. POLYESTER MET. 33nF 63V
104.078	COND. PERLE TANTALE 10µF 16V
105.049	TRIAC 25A 800V BOIT. TO 220
105.053	OPTO COUPLEUR PC 511
105.054	STABILISATEUR 78 L 05 5V
105.057	REGRESSEUR DIP 400V 1A
105.059	IC QUAD NAND SCHMITT 74HC192
110.058	CONNECTEUR 31µM COUDE A CIRC. I
110.072	CONNECTEUR MALE 2P 0.1" MOLEX
111.602	RESEAU RES. 7 X 220 Ω SIL
111.610	RESEAU RES. 4 X 10 K SIL
120.001	RES. 0 Ω (12) ½ W 250 V
121.102	RES. 1 K 1% ½ W 350 V
121.103	RES. 10 K 1% ½ W 350 V
121.105	RES. 1 M 1% ½ W 350 V
121.182	RES. 1.8 K 1% ½ W 350 V
121.272	RES. 2.7 K 1% ½ W 350 V
121.332	RES. 3.3 K 1% ½ W 350 V
121.561	RES. 560 Ω 1% ½ W 350 V
14012	TRANSISTOR BC 547B BOIT. TO92
14034	IC LM 339N TEXAS
14663	GUIDE CARTES 8827-2
14800	C.I. SYNCHRO & PILOTE NU
208.030	REGULATEUR TRIAC MICRO
210.520	RONDILLE CUIVRE M2
211.201	VIS T. CYL. BOM. FREED. M 3X 6
54005	COND. ELECTROL. VERT. 100µF 25V

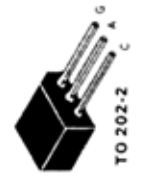




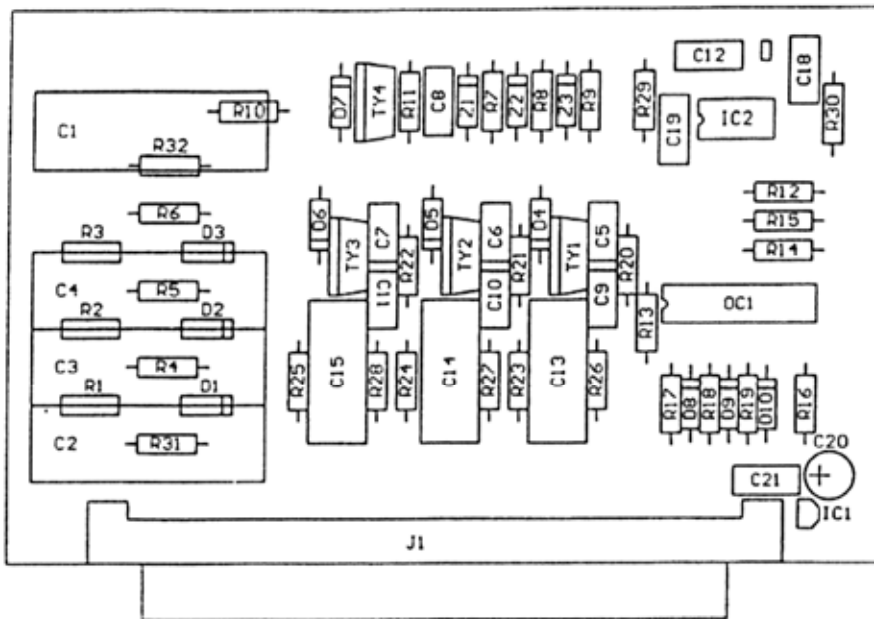
ELINCHROM MICRO (6000AS)
 CIRCUIT ASSEMBLY 14854A (NEW)
 SCHEMATIC DIAGRAM

PB 4

* Now replaced by 100 R/2 W



TO 202-2



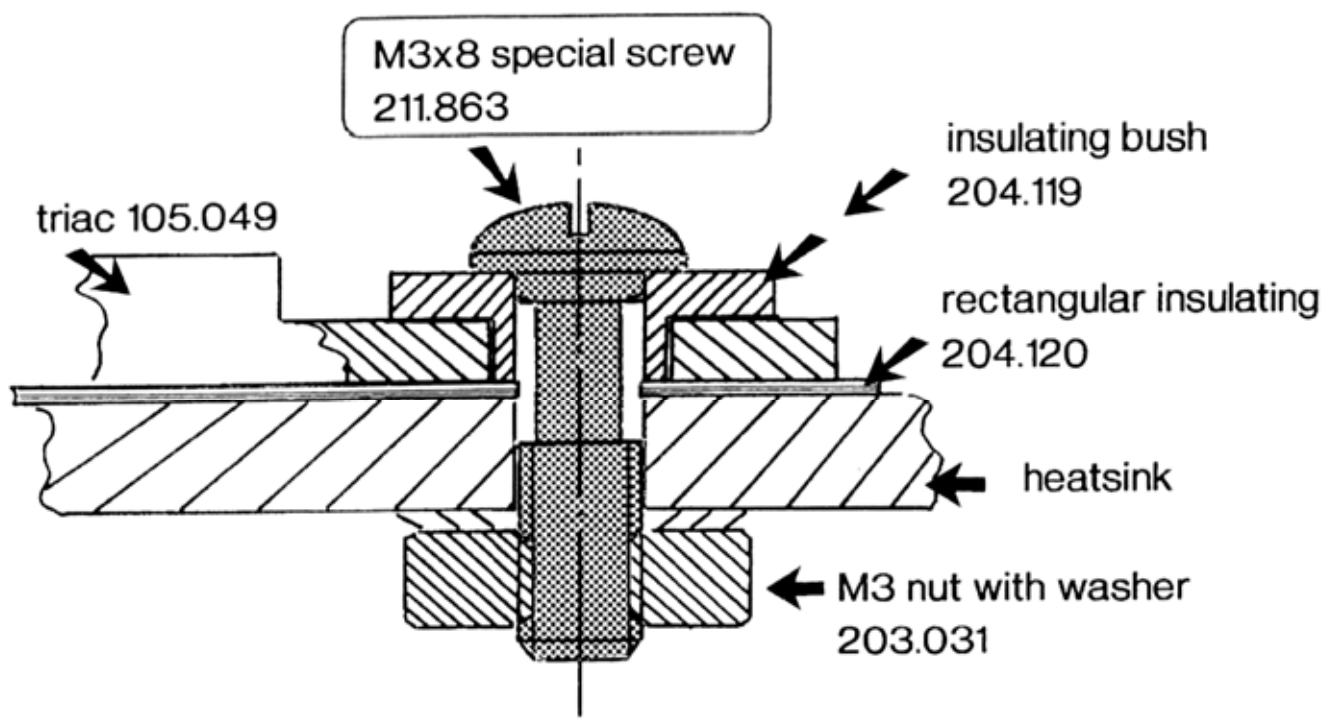
PART N°	QTY	DESCRIPTION	REF. N°
14804A	1	PRINT	
14009	7	IN4007 RECTIFIER	D1-2-3-4-5-6-7
14663	1	BOARD EXTRACTOR	
54013	1	TIMER LM555	IC2
104025	1	POLYESTER CAPACITOR 1uF/400V	C1
104.029	1	TANTALUM CAPACITOR 10uF/16V	C20
104.064	1	POLYESTER CAPACITOR 330nF	C12
104.066	8	CERAMIC CAPACITOR 100nF/63V	C5-6-7-9-10-11-19-21
104.074	2	CERAMIC CAPACITOR 10nF/63V	C8-18
104.076	3	POLYESTER CAPACITOR 150nF/400V	C13-14-15
104.077	3	POLYESTER CAPACITOR 330nF/630V	C2-3-4
105.051	3	IN4148 RECTIFIER	D8-9-10
105.063	1	VOLTAGE REGULATOR 78L12 (12V)	IC1
105.116	4	TYRISTOR X0405NF	TY1-2-3-4
105.117	3	ZENER DIODE 4.7V	Z1-2-3
105.118	1	PHOTOCOUPLER PC8Q52	OC1
110.058	1	CONNECTOR 31PM	J1
110.090	1	IC SOCKET 16P	
110.092	1	IC SOCKET 8P	
111.065	3	2K/2W RESISTOR	R1-2-3
12.071	1	2.8 mm P.C. B MOUNTING TAB	
120.001	1	JUMPER	R32
121.100	3	10R RESISTOR	R23-24-25
111.039	1	100R/2W	R31
121.103	4	10K RESISTOR	R12-13-14-15
121.104	4	100K RESISTOR	R7-8-9-10
121.105	1	1M RESISTOR	R30
121.106	3	10M RESISTOR	R4-5-6
1212220	1	2.2K RESISTOR	R29
121271	1	270R RESISTOR	R16
121330	3	33R RESISTOR	R20-21-22
121471	3	470R RESISTOR	R17-18-19
121473	3	47K RESISTOR	R26-27-28
121561	1	560R RESISTOR	R11

PB 4

ELINCHROM MICRO (6000 AS)
CIRCUIT ASSEMBLY 14854A (NEW)

MICRO AND MICRO AS

MOUNTING INSTRUCTION FOR TRIAC INSULATION



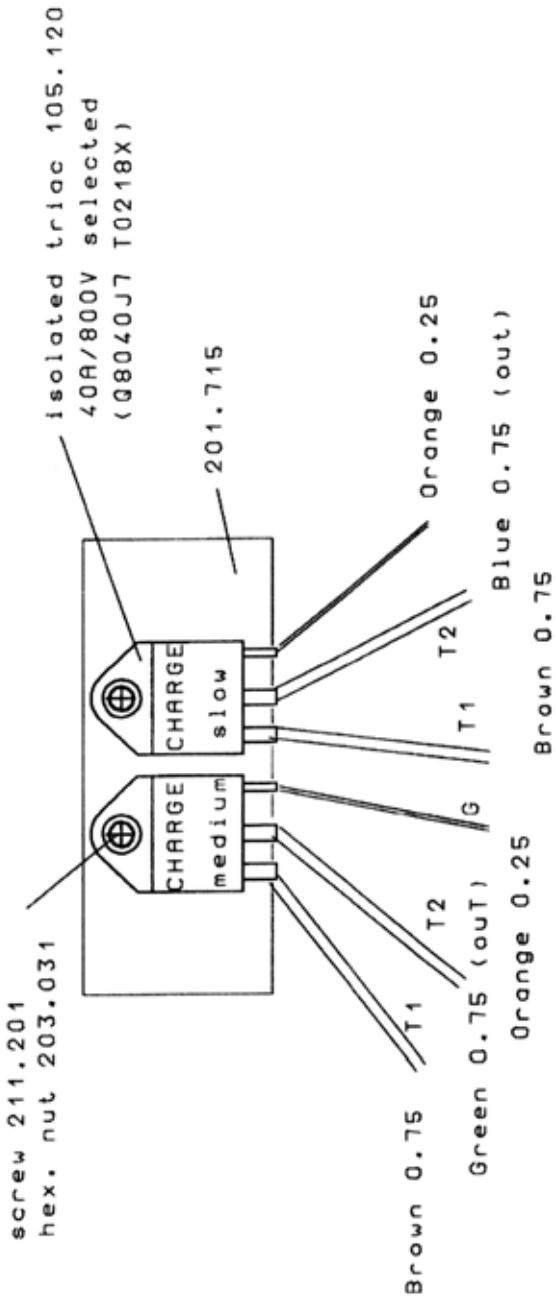
When mounting the screw on the TO 220 envelope, it is particularly important to apply torque slowly so that the mounting base is not deformed.

SET: 105.049+211.863+204.119+204.120+203.031
ORDER N° 900.001

CHARGE TRIACS FOR MICRO

SERVICE PART (HEAVY DUTY)

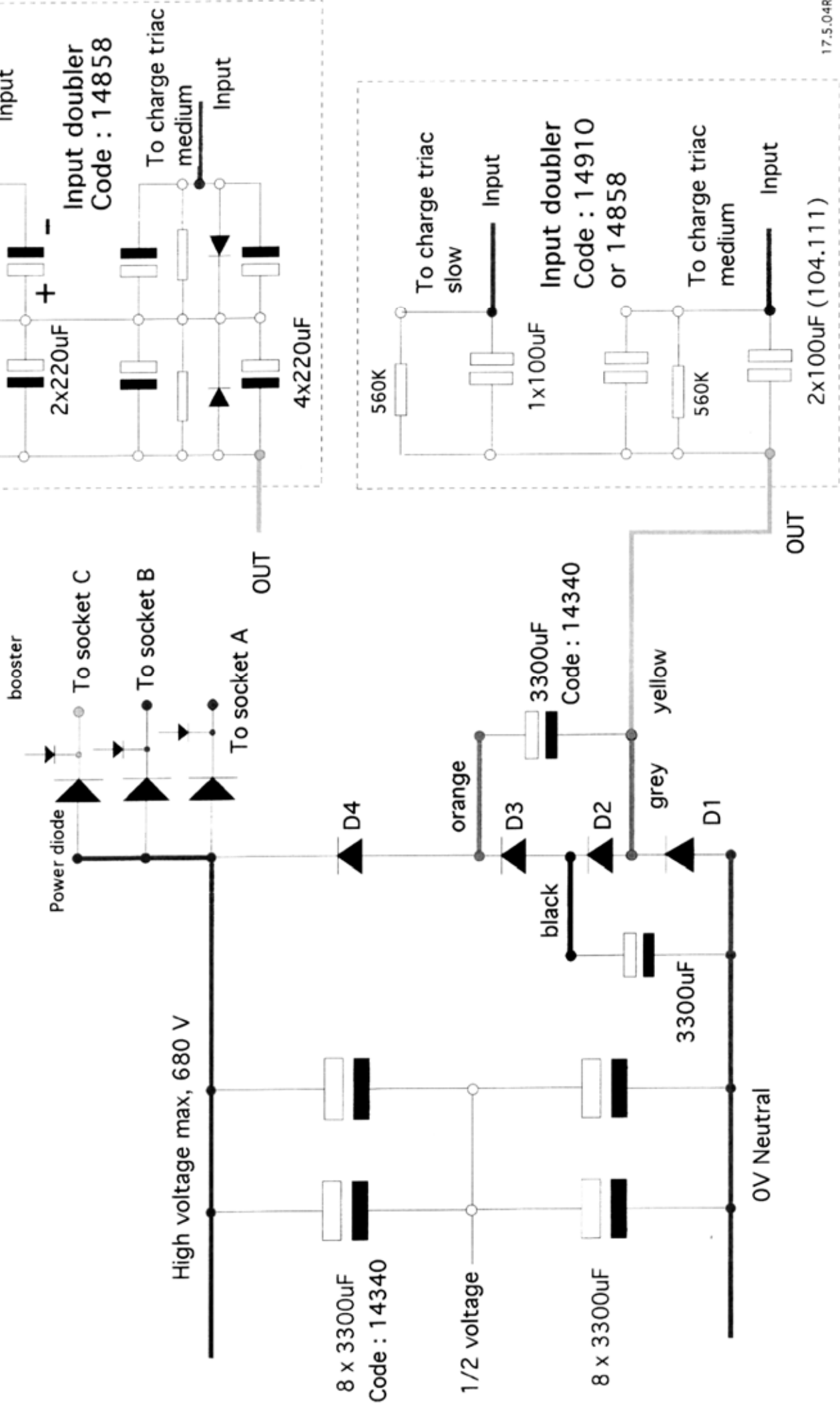
ORDER SET: 630.013



Micro 3000 AS

(230V version)

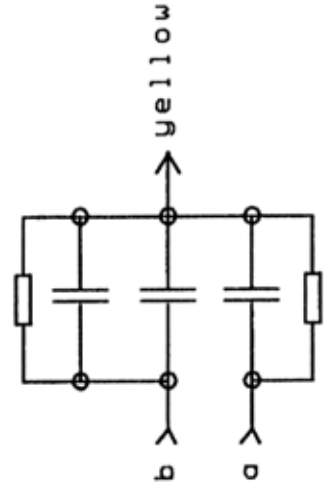
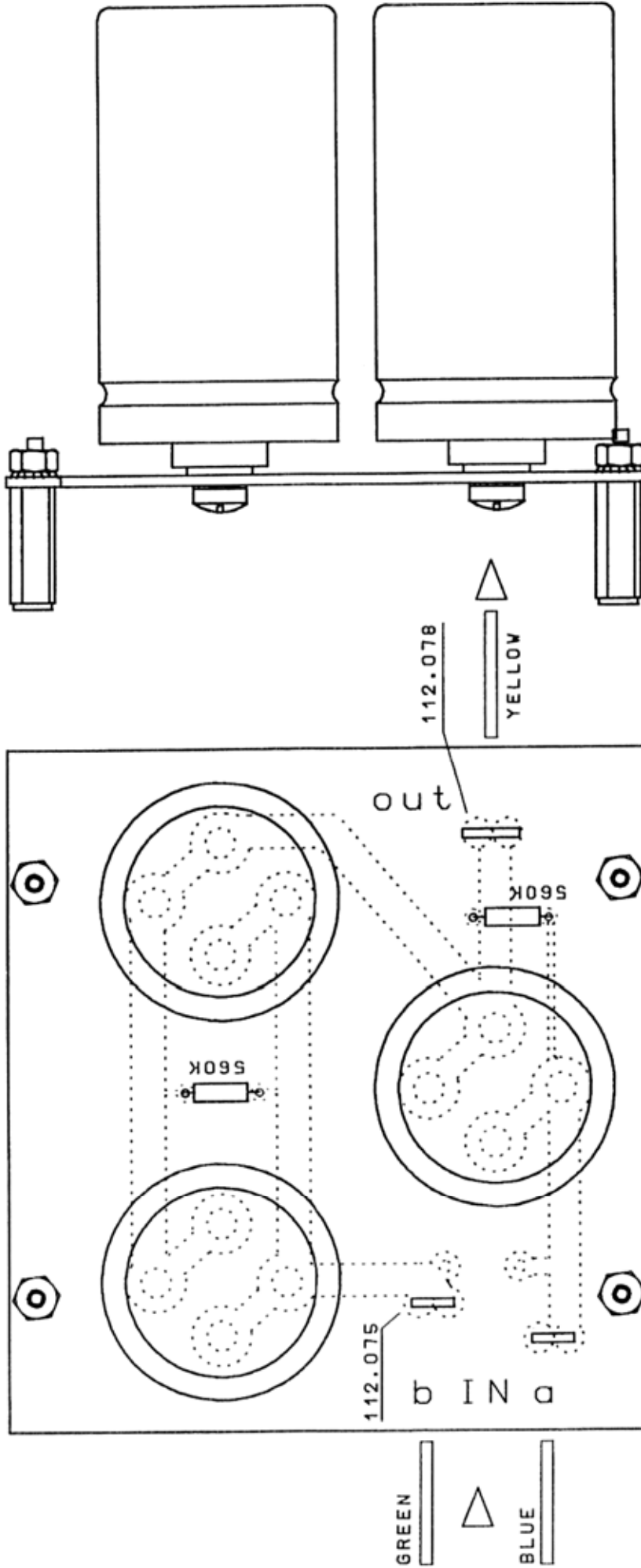
Capacitors interconnection diagram



Voltage doubling capacitors MICRO 3000 AS

FOR 230V/50-60HZ VERSION

SERVICE PART (HEAVY DUTY)

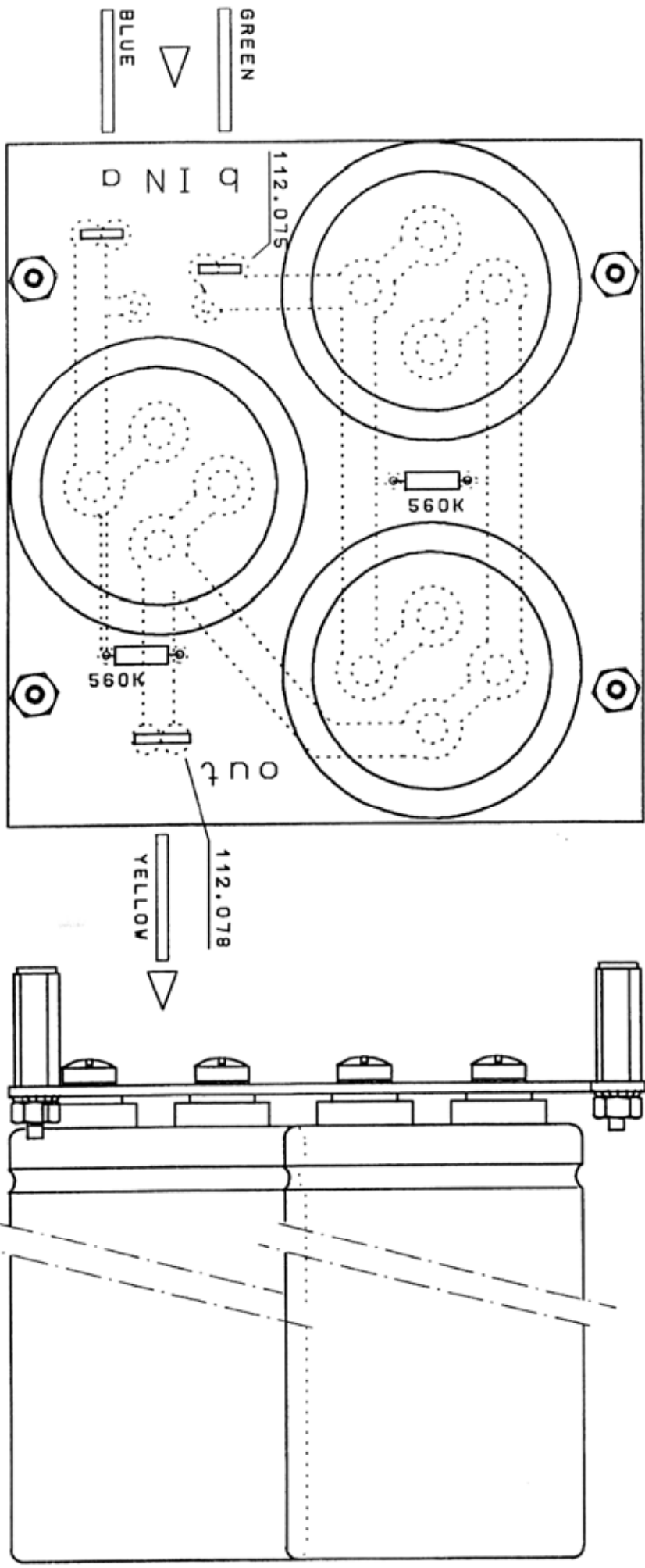


- Part No SPECIFICATION
- 14165 PRINT WITHOUT ELEMENT
 - 104.111 3x CAPACITOR 100uF/250VAC
 - 211.879 6x SCREW M5x10 FOR CAPACITORS
 - 121.564 2x RESISTOR 560K
 - 112.078 1x P.C.B MOUNTING TAB 6.3mm
 - 112.075 2x P.B.C MOUNTING TABS 4.8mm
 - 209.120 4x HEXAGONAL SPACER M4x20
 - 203.032 4x METAL NUT M4

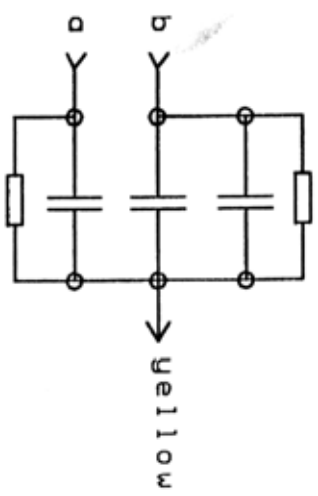
ELINCHROM MICRO
CIRCUIT ASSEMBLY 14910

ISSUE 01.97

Voltage doubling capacitors MICRO 6000 AS
 SERVICE PART (HEAVY DUTY) FOR 230V/50-60HZ VERSION



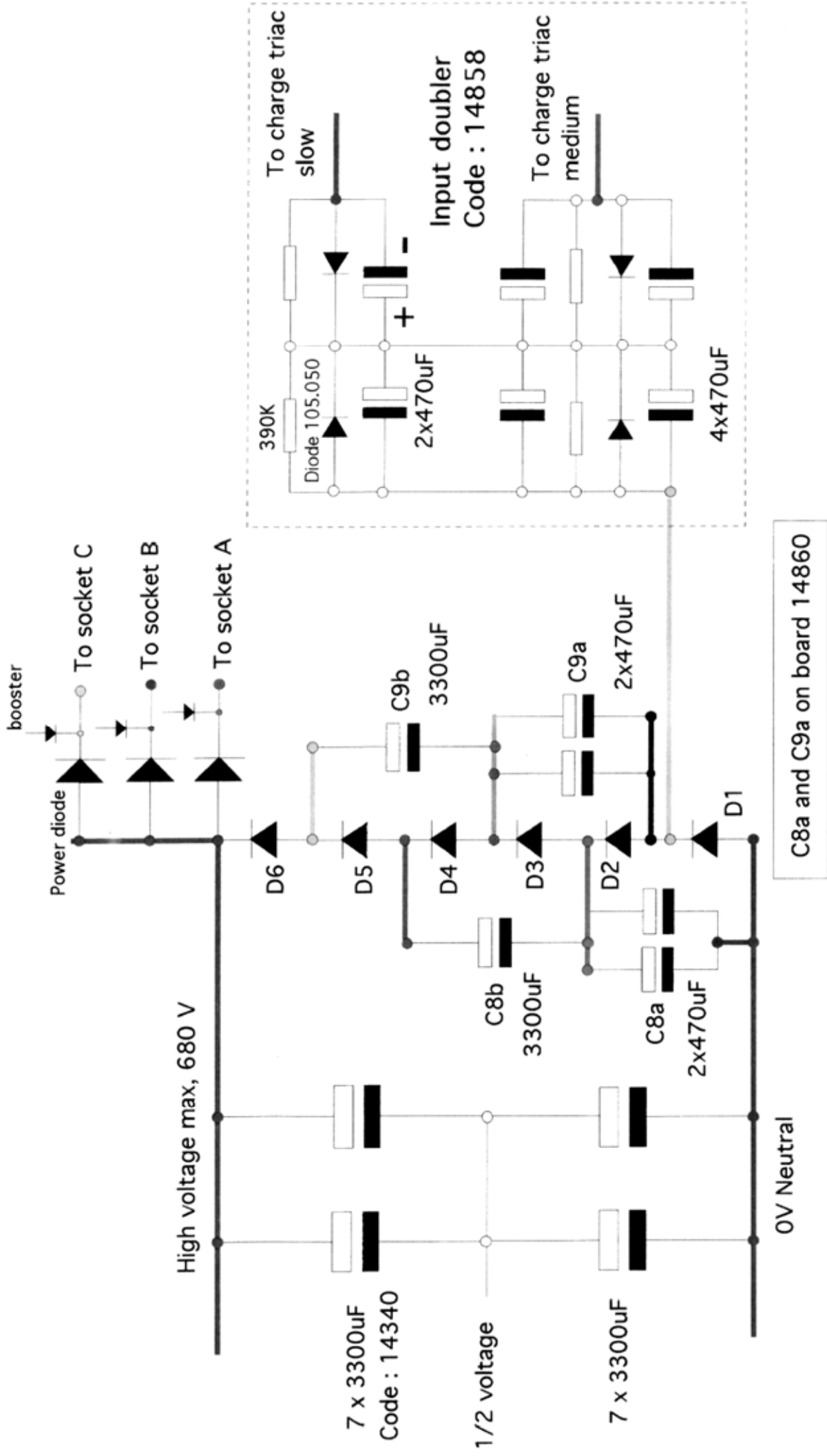
- Part No SPECIFICATION
 14165 PRINT WITHOUT ELEMENT
 104.117 3x CAPACITOR 120UF/250VAC
 211.973 6x SCREW MSx10 FOR CAPACITORS
 121.564 2x RESISTOR 560K
 112.078 1x P.C.B MOUNTING TAB 6.3mm
 112.075 2x P.B.C MOUNTING TABS 4.8mm
 209.120 4x HEXAGONAL SPACER M4x20
 203.032 4x METAL NUT M4



ELINCHROM MICRO
 CIRCUIT ASSEMBLY 14912

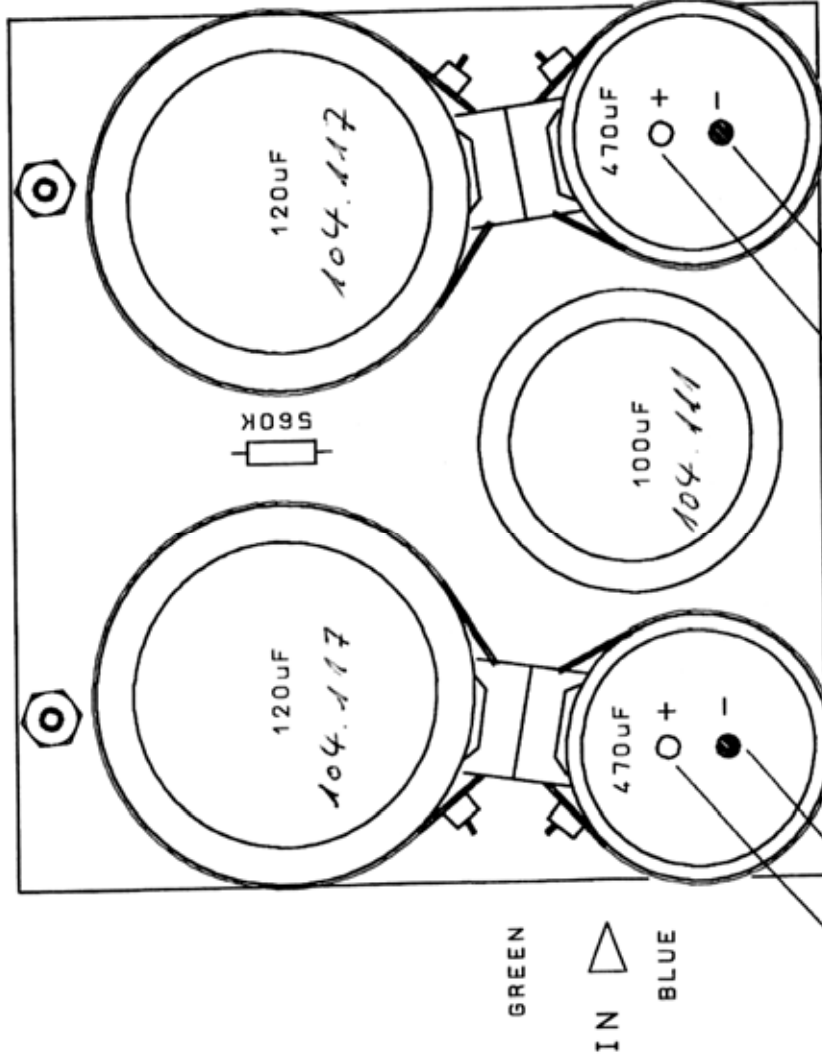
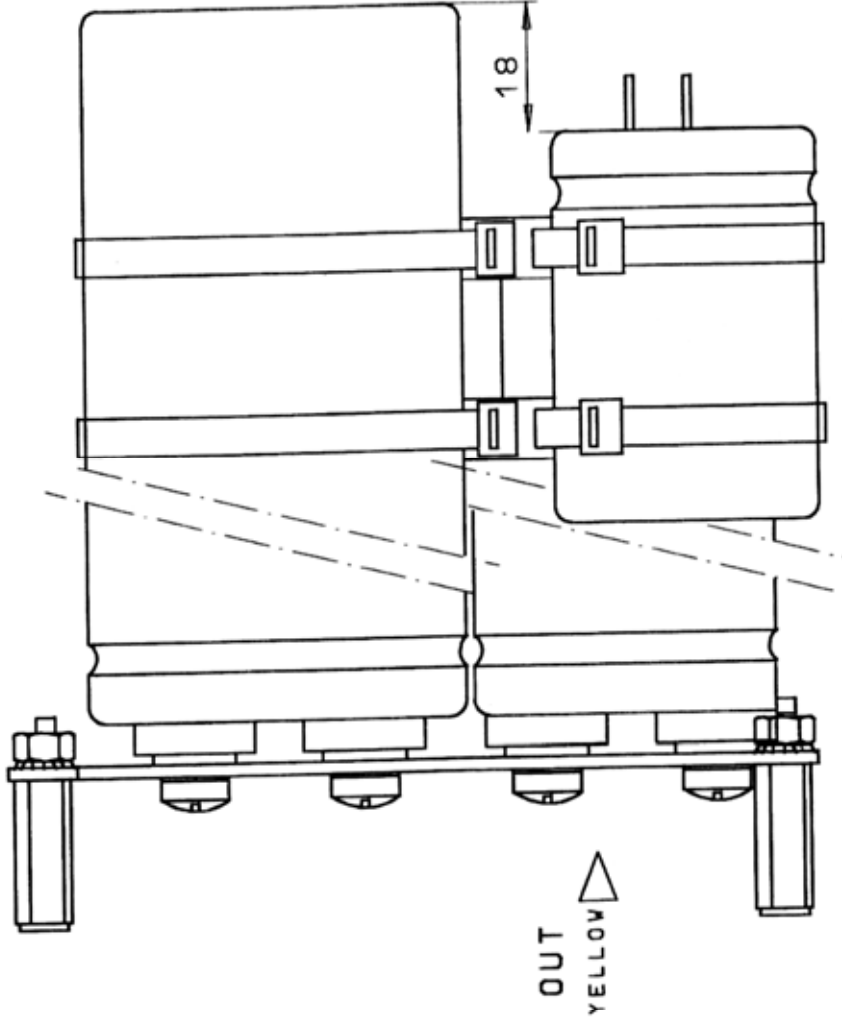
Digital 3000 AS

Capacitors interconnection diagram



Voltage doubling capacitors Digital 3000AS

FOR 230V/50-60Hz VERSION

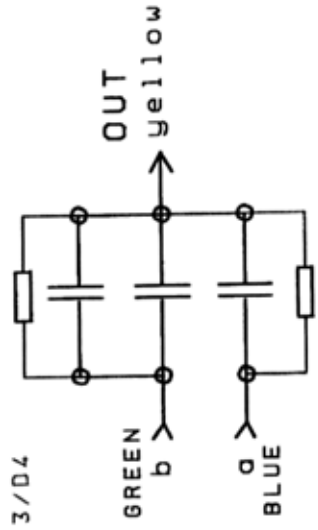


Grey to diodes D1/D2

Orange to diodes D3/D4

Blue to ground storage capacitors

Black to diodes D2/D3



Part N° SPECIFICATION

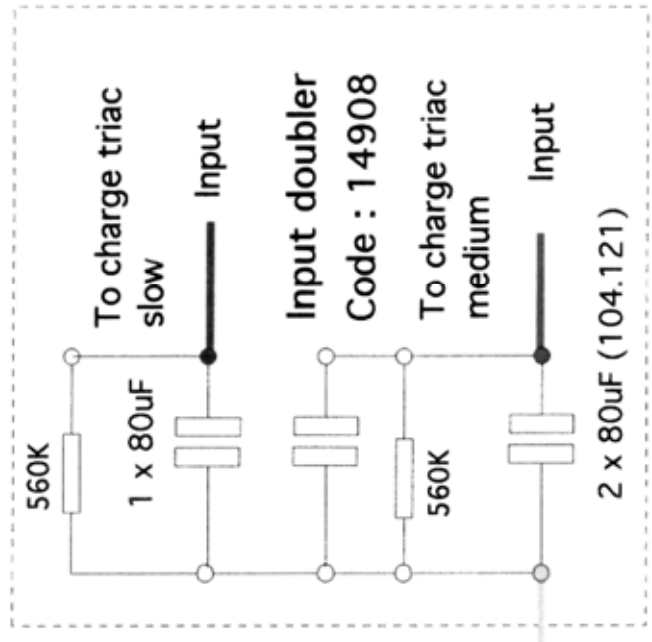
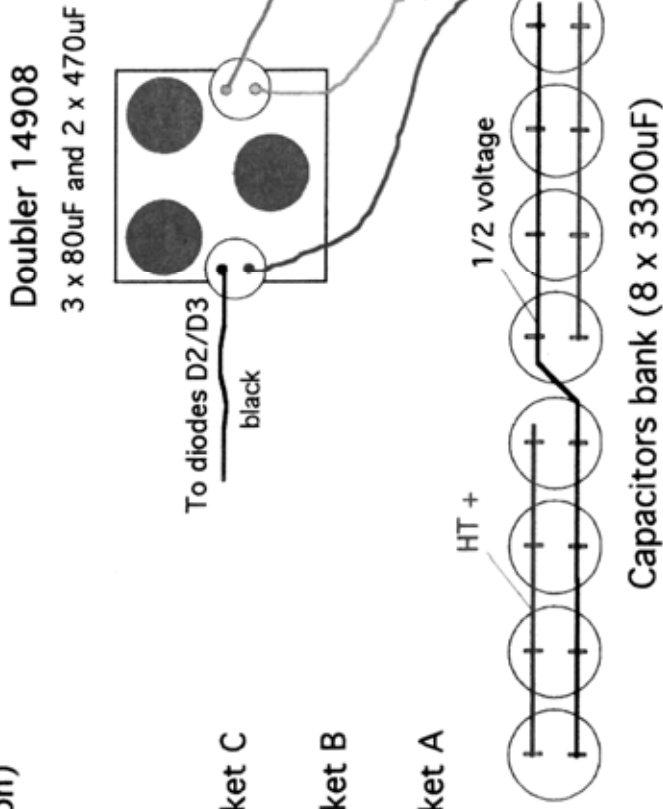
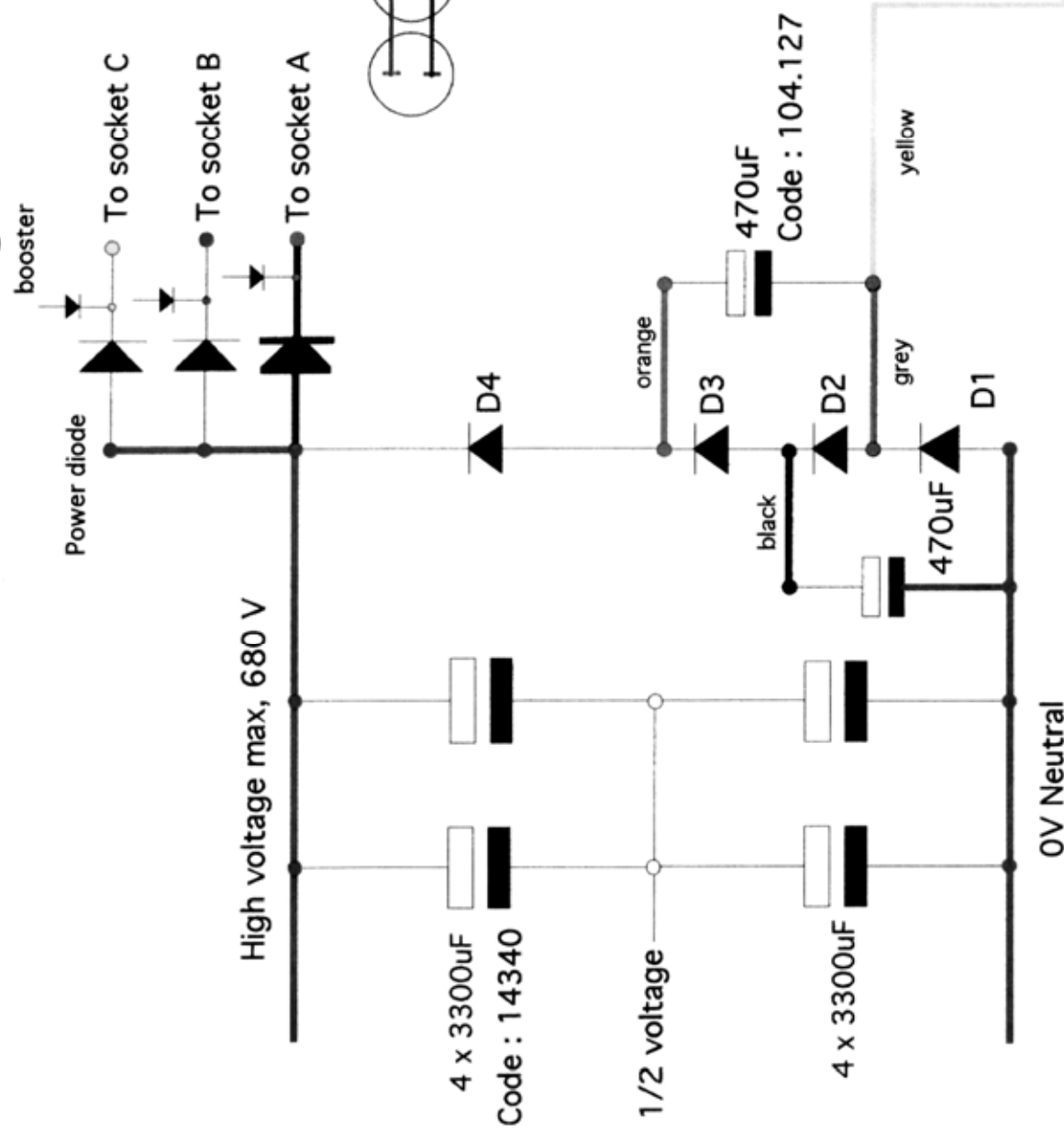
- 14911 PRINT ASSEMBLY (without 2x 470uF)
- 104.127 2x CAPACITOR 470uF/450VDC (polarized)
- 101.078 8x CABLE TIE
- 101.081 4x CRADLE (support de bride)
- 211.201 4x SCREW M3x6
- 203.031 4x NUT M3

Digital 3000 AS
CIRCUIT ASSEMBLY : 14911

12.04.2001

Micro Digital 1500 AS (230V version)

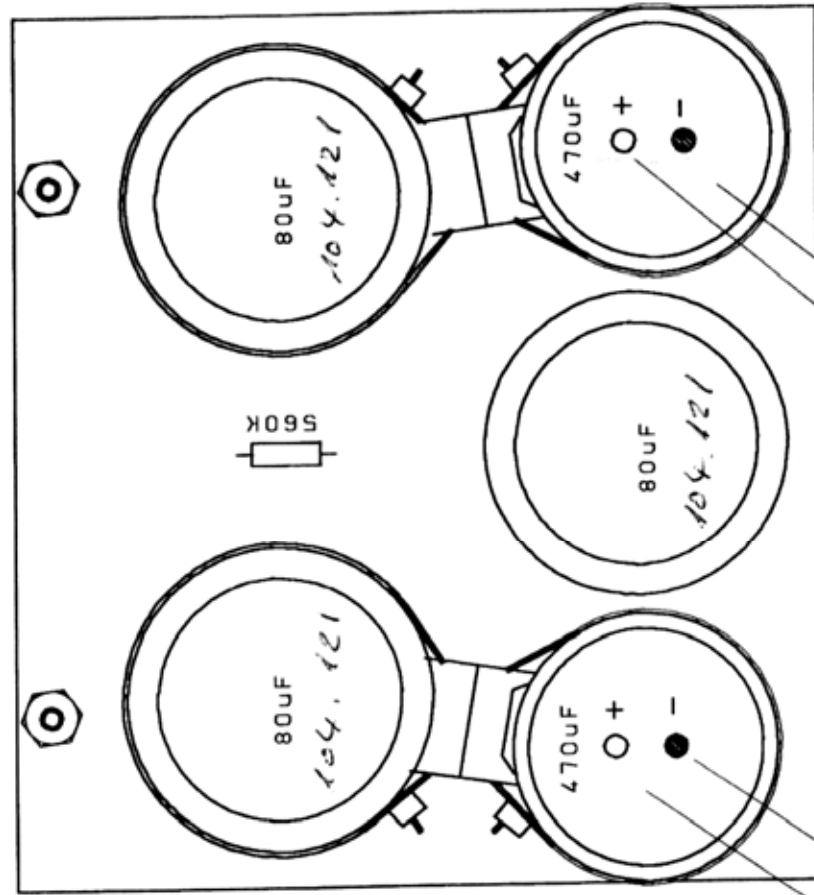
Capacitors interconnection diagram



Voltage doubling capacitors Digital 1500AS

FOR 230V/50-60Hz VERSION

G. ZANATTA

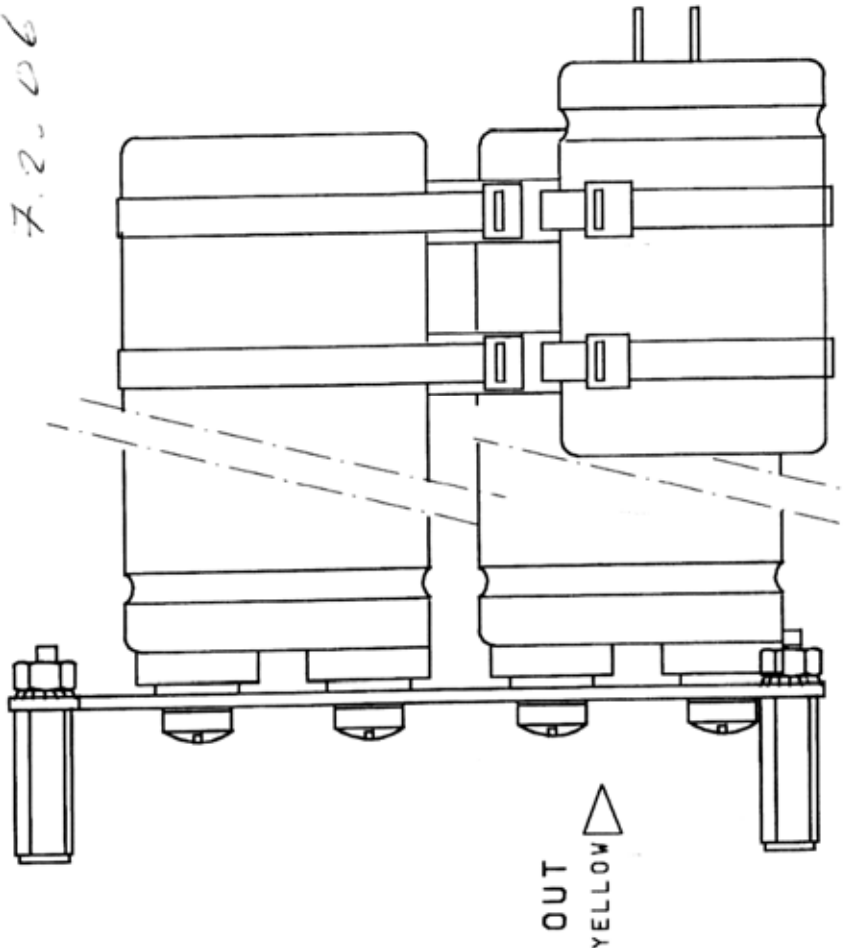



GREEN
IN 
BLUE

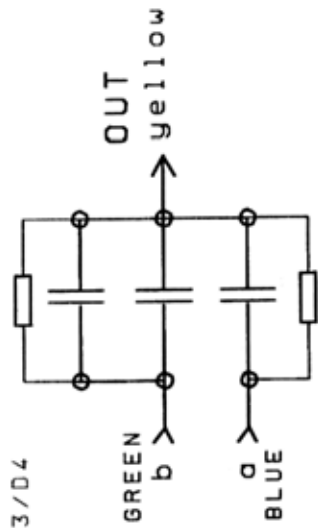
Blue to ground
storage capacitors
Black to diodes D2/D3

Grey to diodes D1/D2

Orange to diodes D3/D4



OUT
YELLOW 



- Part No SPECIFICATION
- 14910 PRINT (with 3 x 80uF)
 - 104.127 2x CAPACITOR 470uF/450VDC (polarized)
 - 101.078 8x CABLE TIE
 - 101.081 4x CRADLE (support de bride)
 - 211.201 4x SCREW M3x6
 - 203.031 4x NUT M3

Digital 1500 AS
CIRCUIT ASSEMBLY : 14908

25.05.2004