elinchrom
SWISS MADE STUDIO FLASH SYSTEM

RE : After sales service

Servicing Manual

STYLE 300 - 300 S

600 - 600 S

1200 S

Schematic diagrams and parts list

120V version

11.2000

Table of contents

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 230 V and (11930 for 120 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 230 V)

2. Vorsicht bein Oeffnen eines Blitzgeräts. Verbinden Sie sofort ein Voltmeter mit den Kondensatoren, denn diese könnten wegen einer anderen Panne nicht entladen sein.

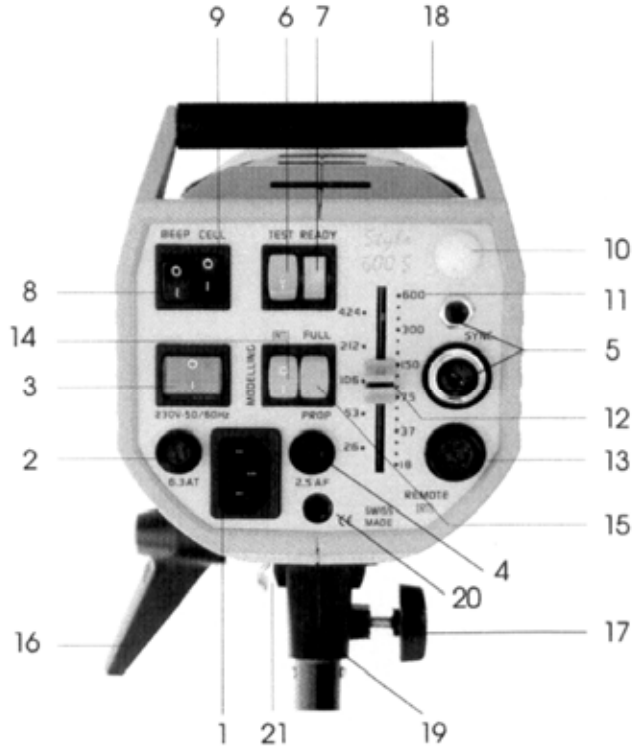
ATTENTION DANGER !

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 sont ouverture décharger le générateur au moyen du dispositif de décharge (code 11931 pour 230 V) et (11930 pour 120 V)
   Pour les compacts retirer la poignée et la chemise métallique ou les coques 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.



Operating instructions

1. Check that the unit voltage is correct
2. Check that the mains switch "**3**" is on "**O**" position.
3. Insert mains cable to the MAINS INLET "**1**" and connect to a FULLY EARTHED OUTLET
4. Connect the sync cord on the socket "**5**".
5. Using the main ON/OFF SWITCH "**3**" switch the unit "O" position.
6. Eventually fit the remote plug on the socket "**13**"
7. Select the power with the sliding variator "**12**"

Puesta en Marcha

1. Asegúrese de que el enchufe tenga toma de tierra y que el voltaje es correcto.
2. Compruebe que el interruptor "3" está en posición O.
3. Conecte el cable de red suministrado en la toma " 1" y el oro extremo a la red.
4. Encienda el aparato basculando el interruptor general "3".
5. Conecte un cable sincro en una de las dos tomas.
6. Conecte el mando a distancia (si dispone de él) en la toma "13"
7. Elija la potencia del flash, deslizando el potenciómetro "12"

Mise en service

1. S'assurer que l'alimentation secteur soit munie d'une mise à la terre et que la tension corresponde à celle indiquée sur l'étiquette signalétique qui est située sous l'appareil.
2. Vérifier que l'interrupteur (3) soit sur "**O**".
3. Brancher le cordon secteur livré sur la prise (1) et ensuite au réseau.
4. Raccorder un câble de synchronisa - tion sur une des deux prises de synchronisation (5).
5. Enclencher l'appareil en basculant l'interrupteur (3) le mettre sur la position "I"
6. Raccorder éventuellement la télé - commande sur la prise (13)
7. Choisir la puissance du flash en dépla - çant le curseur du potentiomètre (12)

According to the safety regulation: We draw your attention to the fact that this equipment should be used only in a dry environment; it must be protected from dripping water and from extremely dusty conditions. The unit must **ALWAYS** be plugged into an **EARTHED** electrical socket.

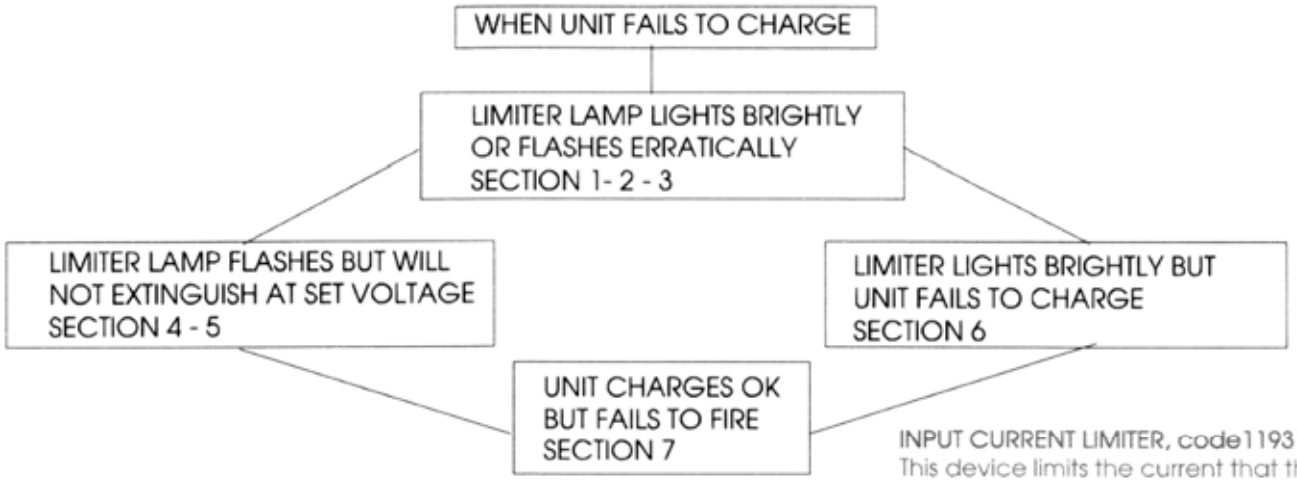
120 V - BASIC LIST OF COMPONENTS NEEDED FOR STYLE UNITS

QTY	CODE N°	DESCRIPTION	USED ON *or compatible for :*
1	14385 PB1	Trigger- booster assembly board	300 - 600
1	14377 PB1	Trigger- booster assembly board	300 S - 600 S
1	14393 PB1	Trigger- booster assembly board *(Circuit PB1 assemblé)*	1200 S
1	14398 PB2	Ouput flash and modelling assembly board *(Circuit PB2 assemblé, sortie flash et pilote)*	300 - 600
1	14396 PB2	Ouput flash and modelling board assembly *(Circuit PB2 assemblé, flash, décharge et pilote)*	300 S - 600 S
1	14397 PB2	Ouput flash and modelling assembly board *(Circuit PB2 assemblé, flash, décharge et pilote)*	1200 S
1	14389 PB3	Capacitor assembly board *(Circuit PB3 assemblé, condensateurs)*	300 - 300 S
1	14379 PB3	Capacitor board assembly PB3 *(Circuit PB3 assemblé, condensateurs)*	600 - 600 S - 1200 S
1	14381	Capacitor front assembly board *(Groupe frontal de condensateurs supplémentaires)*	1200 S
1	14387 PB4	Control assembly board *(PB4 Circuit complet de commande)*	300 - 600
1	14380 PB4	Control assembly board *(PB4 Circuit complet de commande)*	300 S - 600 S - 1200 S
1	14395 PB5	Potentiometer assembly *(potentiomètre complet avec circuit)*	300 - 600
1	14376 PB5	Potentiometer assembly PB5 *(potentiomètre complet avec circuit)*	300S - 600 S - 1200 S
2	105.049	Triac BTB 24-800BW or T2513NH (charge)	
2	105.116	Thyristor X0405NF (trigger)	All packs and compacts
2	105.138	Solide state relay triggering S21ME8Y	Compacts and generators
1	14033	Transistor Mos BUZ 51 or STP 4NB100 (discharge)	Compacts 750S/1500S/Chic
1	107.019	Buzzer SMA-17L10 *(signal acoustique)*	
1	111.524	Resistor 3K3/25W (discharge) *Résistance de décharge 3K3/25W*	
4	14342	Capacitor 2600 µF/360 V	Chic and Micro 750
2	104.125	Doubler capacitor 820 µF/250 V	
2	104.126	Doubler capacitor 470 µF/350 V	
2	103.097	Mains on/off luminous switch *(interrupteur principal)*	
2	103.096	Momentary luminous switch (green) *(interrupteur vert de test)*	
1	103.095	Latching switch (orange) *(interrupteur de la lampe pilote)*	
1	103.094	Latching beep/cell switch (black) *(interrupteur cellule et signal de disponibilité)*	
1	659.008	Fan with connector *(ventilateur avec connecteur)*	
1	224.020	Holder for fan *(équerre support du ventilateur)*	
1	211.884	Screw M4 x 20 synthetic material PA 6.6 *(vis de fixation du ventilateur)*	

120 V - BASIC LIST OF COMPONENTS NEEDED FOR STYLE UNITS

QTY	CODE N°	DESCRIPTION	USED ON *or compatible for :*
2	14651	Fuse holder 5 x 20 mm *(support de fusible)*	Classic + Combi + Chic + Compacts
2	19020	10 fuses 6.3AT 5 x 20 mm	
2	19022	10 fuses 8AT 5 x 20 mm	
2	19056	10 fuses 10AT 5 x 20 mm	
1	224.001 SAV	Housing left and right *(boîtier partie gauche et droite)*	300 - 600 - 300 S - 600 S
1	224.100 SAV	Housing left and right	1200 S
1	219.008	Rubber handle *(poignée caoutchouc)*	
1	219.001	Metal chassis *(châssis métallique)*	300 S - 600 S - 1200 S
1	620.204	Set front ring + locking device *(bague frontale complète)*	
1	204.131	Front ring bayonet	
1	12076	Synchro socket Elinchrom *(prise synchro)*	All Compacts/Packs
1	110.104	Synchro socket female jack 3.5 mm	All Style units/Chic Packs
TILTHEAD *Fixation rapide pour trépied*			
1	14598	Mobile part for tilthead *(fixation rapide partie mobile)*	All compacts
1	204.132	Fixed parts *(parties fixées sur châssis)*	
4	209.093	Bolt for tilthead *(goujon fileté)*	All
2	14492	Plastic level for tilthead *(manette de serrage)*	
2	223.009	Umbrella tube *(tube parapluie)*	300 - 600 - 300 S - 600 S
2	224.102	Umbrella tube *(tube parapluie)*	1200 S
SELF ADHESIVE LABEL *Etiquettes autocollantes*			
4	205.223	Self adhesive label 300 *(étiquette)*	
4	205.222	Self adhesive label 600	
4	205.224	Self adhesive label 300 S	
4	205.225	Self adhesive label 600 S	
2	205.221	Self adhesive label 1200 S	
FLASHTUBES			
2	24031	Flashtube *(tube flash fixation par vis)*	300 - 600 - EL 250 - 500
2	24029	Plug-in flashtube *(tube flash embrochable)*	300 S - 600 S - EL250C - 500C
2	24068	Plug-in flashtube *(tube flash embrochable)*	1200 S - Micro 750
4	209.131	Insulating glass for trigger *(tube isolant en verre)*	
2	224.017	Trigger contact fork *(contact d'ionisation du tube flash)*	
MODELLING LAMPS *Lampes de mise au point (pilote)*			
2	23036	100W socket BA15D Halogen	300 - 600
2	23037	150W socket BA15D Halogen	300 S - 600 S
2	23038	250W socket BA15D Halogen	1200 S
MODELLING FUSE *Fusibles pour lampes de mise au point*			
For lamps 100 W to 300 W			
2	19035	10 fuses 4 AF 5 x 20 mm ø 5 x 20 mm 4 AF (fast, flink.) *(fusible à fusion rapide)*	All Style units (230V)

TROUBLE SEEKING GUIDE



INPUT CURRENT LIMITER, code11931. This device limits the current that the unit may draw from the mains supply to around 1 ampere. This prevents damage due to shorts-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.

ALWAYS DISCHARGE UNIT BEFORE COMMENCING WORK
(déchargez l'appareil avant de commencer le travail)

1- FAULT TRAC1NG FOR BLOWN FUSE

a) Wrong value fuse. *(mauvaise valeur de fusible)*
b) Charge Triac short circuit. *(triac en court-circuit)*
c) 5A 1000V Charge Diodes short circuit. *(diodes de charge en court-circuits)*
d) S21ME8Y Opto Triac Driver short circuit. *(optocoupleur en court-circuit)*
e) Opto Triac Drivers feed resistors 330 Ω open circuit. *(résistance de 330 Ω coupée)*
f) Voltage reference IC LM2950 short circuit. *(référence de tension en court-circuit)*
g) Comparator IC LM 339 short circuit. *(comparateur de tension défectueux)*
h) Photoflash Capacitor (2600µF) short circuit. *(condensateur en court-circuit)*
i) Buz 51 Mosfet transistor short circuit (continual discharge). *(transistor de décharge en court-circuit)*

If in the above list a fault occurs with any of the sections, a,b, c,d. check all the sections as they are related to each other.

2 - TO TRACE FOR A FAULTY PHOTO FL ASH CAPACITOR *Recherche d'un condensateur défectueux*

Check the following with the Limiter Lamp in circuit and the power setting of the unit set to minimum.
(Alimenter l'appareil au travers du limiteur de courant Elinchrom, mettre le potentiomètre au minimum, ensuite mesurer simultanément l'évolution de la tension de chaque groupe de condensateurs.)
Use two voltmeters, one for group A and one for the group B. *(utilisez deux multimètres, un pour le groupe A et un pour le groupe B)*

A) Place the common probe on the neutral point of test on the PB3 (see page 21), or on the neutral point on the PB4 (on the Blue point, see page 23 or 25) and the other probe on the1/2 voltage test point.
B) Place the other multimeter on the positive test points on the PB3 (on the Red point, see page 21) and the other probe on the test point «1/2 voltage» (common test point).

Briefly switch the unit «ON» and observe both multimeter readings. One side of the charge capacitors will rise, the other will not. This test will determine on which side the faulty component can be found.

3 - REPLACING A PHOTO FLASH CAPACITOR

a) Always discharge the unit before commencing work.
b) Check that there is no voltage across the new capacitors.

WHEN A PHOTOFLASH CAPACITOR IS BEING REPLACED, IT MUST BE REFORMED. WITH THE LIMITER IN LINE (1.3A), SET THE UNIT TO MINIMUM. *(quand un condensateur a été remplacé, pour le formé il faut alimenter l'appareil au travers du limiteur de courant; lorsque celui-ci est équipé d'une lampe de 150W il limite le courant à 1.3A)*

Switch on and let the unit charge to minimum power. GRADUALLY increase the voltage until maximum is reached. Repeat this a few times before switching to direct mains.

4 - MODELLING LAMP CIRCUITRY DOES NOT FUNCTION *Le sytème pilote ne fonctionne pas*

a) Modelling Lamp fuse blown (quick acting). *(fusible pilote coupé)*
b) Blown bulb. *(lampe défectueuse)*
c) 10K Resistor open circuit. *(résistance de 10K ouverte)*
d) Modelling Lamp Triac (TC1 BT24) open circuit. *(triac ouvert)*
e) Slider control open circuit. *(potentiomètre à glissière défectueux, circuit ouvert)*
f) Modelling Lamp Switch open circuit. *(commutateur de la lampe pilote défectueux)*

5 - MODELLING LAMPS WILL NOT VARY *Absence de variation de la lampe pilote*

a) Modelling Lamp Triac (TC1) short circuit. (light full)
b) Diac short circuit. (light full) *(diac 32V en court-circuit, la lampe est au maximum)*
c) The Phase Control Capacitor (C1 220nF) is open circuit or a dry joint (light full)
(condensateur ouvert ou mauvaise soudure)
d) 200K ohm trimmer open circuit (PB5). *(potentiomètre 200 K défectueux, sur PB5, la lampe est éteinte)*
(No light)

6 - FAULT TRACING FOR FIRING FAULTS *Absence d'allumage du tube flash*

a) Cracked Flashtube. *(tube flash usé ou présentant de fissures)*
b) Trigger Capacitor (C6 - 0.1 µF/400V or C3 - 47nF/250V) open circuit.
c) 1N4007 Trigger Voltage Rectifier, partial short. *(diode partiellement en court-circuit)*
d) No voltage present across flash tube. *(absence de tension aux bornes du tube flash)*
e) Mains Transformer open circuit.
(transformateur ouvert, absence d'alimentation du circuit de commande)
f) Open Flash Switch open circuit. *(interrupteur défectueux)*
g) Transistors BC 547 and BC 557 on slave PCB short circuit. *(court-circuit)*
h) 150nF Capacitor on pin 6-7 of the 555 Timer short circuit. *(court-circuit)*
i) Thyristor X405NF short circuit. *(thyristor en court-circuit)*
j) Slave cell flooding. *(éblouissement de la cellule)*
k) Trigger Boost Circuitry faulty (D4 diode, open circuit or C7 capacitor defect).
(«booster» renforçateur d'allumage défectueux)
l) Integrated circuit 4001 Nor gate, defect or transistor T3 *(circuit ou transistor défectueux)*
J) Flashtube aged. Will fire at maximum power but not at minimum although this fault will be rare as the unit incorporates a trigger boost.
(tube flash défectueux, verre fissuré ou tube trop utilisé)
When there is no voltage present across the trigger capacitor try replacing 1N4007 Diode (D1). This sometimes reads OK but is often 'leaky' when a voltage is applied.

7- FAULT TRACING FOR DISCHARGE RESISTOR FAILURE. *Système de décharge défectueux*

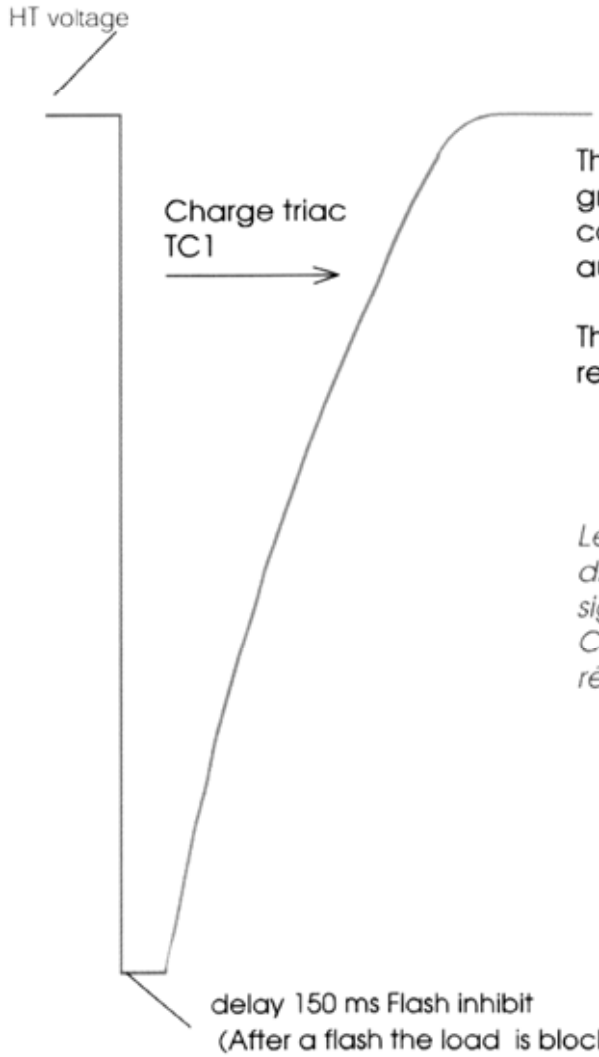
a) 3.3 KΩ / 25W Resistor open circuit. *(résistance de décharge ouverte)*
b) Mosfet BUZ51 discharge transistor short circuit. *(transistor en court-circuit)*
c) PCB Tracking blown on front PCB connecting the Mosfet to the negative terminal of the flashtube and the PCB connector.
(piste coupée entre le transistor et la borne négative du tube flash)
d) Drive IC3 LM339 to the Mosfet short circuit. *(court-circuit)*
e) ZD1 zener diode or R3 resistor short circuit. *(court-circuit)*
f) SWTH1 (thermic switch open, Style «S» only) *(interrupteur thermique ouvert)*

CHARGE CAPACITORS PRINCIPLE

(It is based on the principle of the quadruple of the peak voltage of the line)

Principe de charge des condensateurs

(il est basé sur le principe du quadruplage de la tension crête du secteur)



The level of the appearance of the green signal of availability (Ready), coincides with the appearance of the audible signal.

This level depends on the value of the resistance R11, it is situated on the PB4.

Le niveau de l'apparition du signal vert de disponibilité, coïncide avec l'apparition du signal sonore.
Ce niveau dépend de la valeur de la résistance R11, elle est située sur le PB4.

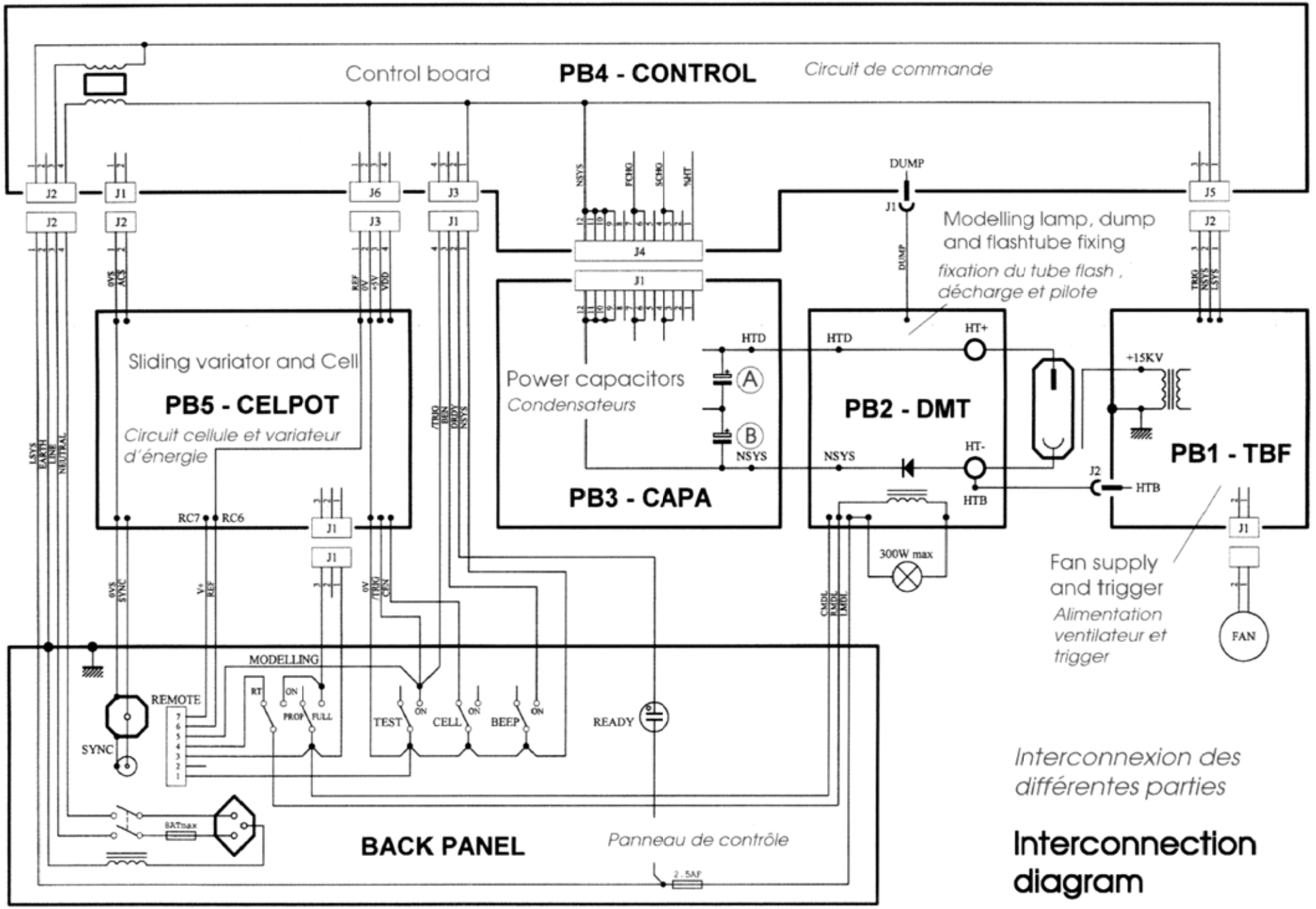
delay 150 ms Flash inhibit
(After a flash the load is blocked during 150 ms)

Après un flash la charge des condensateurs est bloquée pendant 150 ms pour éviter un allumage intempestif du tube.

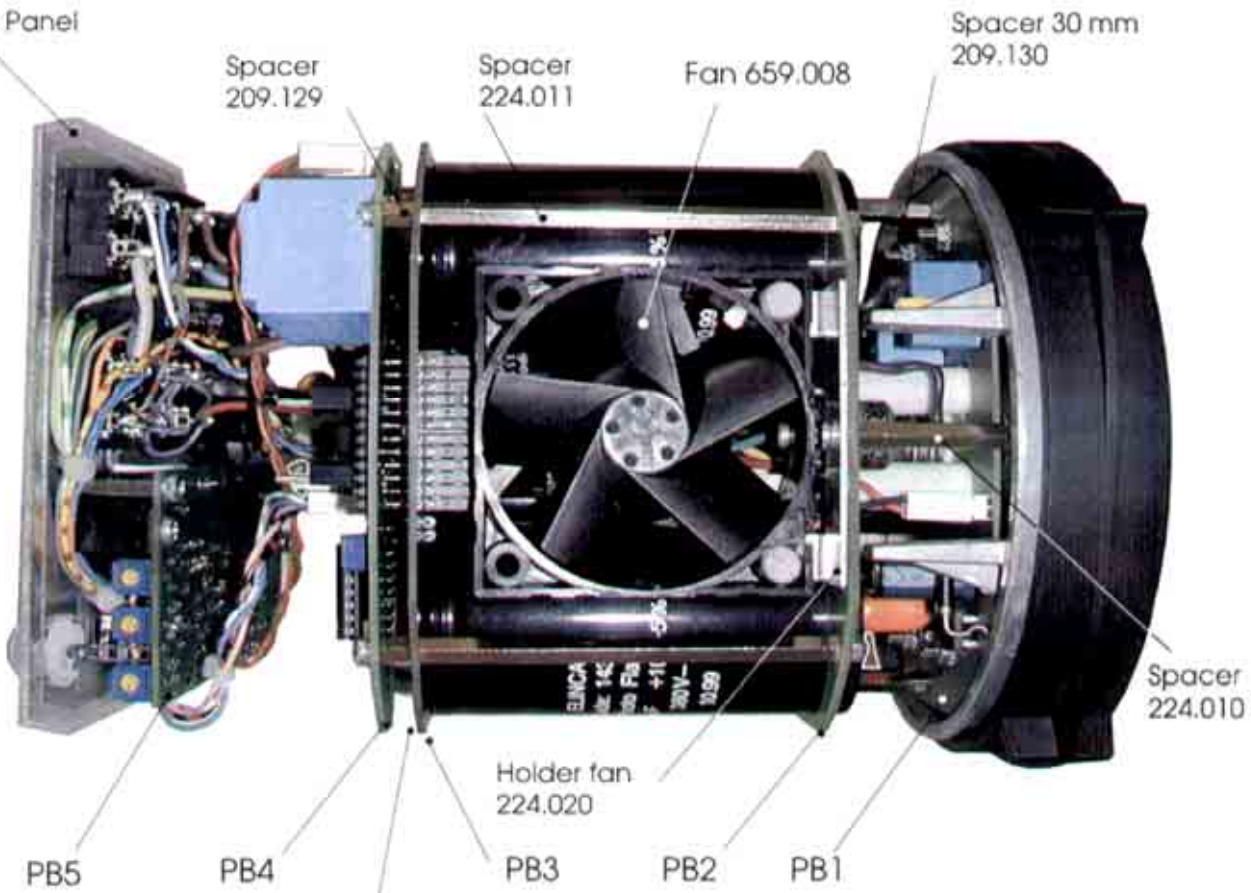
TRIAC FONCTION:

TC1: BTB24/800BW or T2513NH (25A/800V) charge.
Triac de charge

CHARGE SPEED	Style 300	Style 300 S	Style 600	Style 600 S	Style 1200 S
on mains 150V/60 Hz	0.24 - 1s	0.2 - 1s	0.28 - 1.5	0.22 - 1.6	0.25 - 2.8


Control board
PB4 - CONTROL
Circuit de commande
DUMP
Modelling lamp, dump and flashtube fixing
fixation du tube flash , décharge et pilote
Sliding variator and Cell
PB5 - CELPOT
Circuit cellule et variateur d'énergie
Power capacitors
Condensateurs
PB3 - CAPA
PB2 - DMT
PB1 - TBF
HTD
HT+
HT-
HTB
NSYS
+15KV
300W max
Fan supply and trigger
Alimentation ventilateur et trigger
FAN
MODELLING
REMOTE
SYNC
RT
PROP
FULL
TEST
CELL
BEEP
READY
BACK PANEL
Panneau de contrôle
Interconnexion des différentes parties
Interconnection diagram

Style 300 S and 600 S



Back Panels
695.010 (600 S)
695.009 (300 S)

659.013 (600)
659.012 (300)

General information Semiconductors

Informatiom sur la fonction des semiconducteurs

TRIACS:

TC1 on PB4 : BTB24 or T2513NH (24A/800V) Charge *(triac de charge)*

TC3 on PB4 : Z0103NA (Triac 1A/800V) Drive green button flash READY
(triac de commutation du signal lumineux "vert" de disponibilité)

TC1 on PB1 : BTB24 or T2513NH (24A/800V) Modelling lamp control
(triac de contrôle de la lampe de mise au point " pilote")

THYRISTOR:

THY1: Trigger thyristor *(thyristor d'allumage du flash).*

TRANSISTORS:

T1 on PB2 : BUZ 51 (MOS FET) Dump transistor *(transistor de décharge)*

T3 on PB4 : BC 547 (npn) Allows the trigger when the charge unit is ready
(autorise le déclenchement lorsque le flash est chargé).

T2 on PB4 Style "S" only : BC 557 (pnp) Temperatur control (LM335) short-circuit OC1 (charge off)
(Dépend du détecteur de température LM335, lorsque la température dépasse 60°C le transitor T2 bloque OC1 et interdit la recharge des condensateurs)

INTEGRATED CIRCUITS :

IC1 LM339 Quad comparators

A part : Drive the dump and controls the new charge after the flash.
(contrôle la décharge lors d'une réduction de puissance et l'ajustement précis après une recharge)

B part : Controls and orders the ready light and the accoustic signal
(autorise la charge et le signal de disponibilité)

C part : Thermal safety control, becomes active when the ambient temperature is above 60°C (the unit cannot recharge any more, the ready light goes out). Style "S" only
(contrôle la surchauffe de l'appareil et interdit la recharge, lorsque la température du détecteur LM 335 dépasse 60°) seulement sur les Style "S" .

D part : Controls and orders the start (fast) charge *(contrôle la charge rapide)*

IC 4 555 Timer
Start the flash and inhibit the charge with the diode D1 for 150ms
(le temporisateur 555 déclenche le flash et interdit la recharge via la diode D1 pendant 150ms

IC 5 : IC4001 quad 2-input NOR GATE

A part : Drive the ready. *(commande les avertisseurs de disponibilité)*

B part : Authorize the trigger (ready) *(autorise le déclenchement)*

C part : Control SP1 Buzzer *(temporise et active le signal de disponibilité, via le buzzer SP1)*

D part : Controls the Ready light (TC3 triac). *(commande l'allumage du témoin vert de disponibilité, via le triac TC3)*

STYLE (S) Adjusting the charge and Modelling lamp

STYLE (S) Réglage de la tension de charge et de la pilote

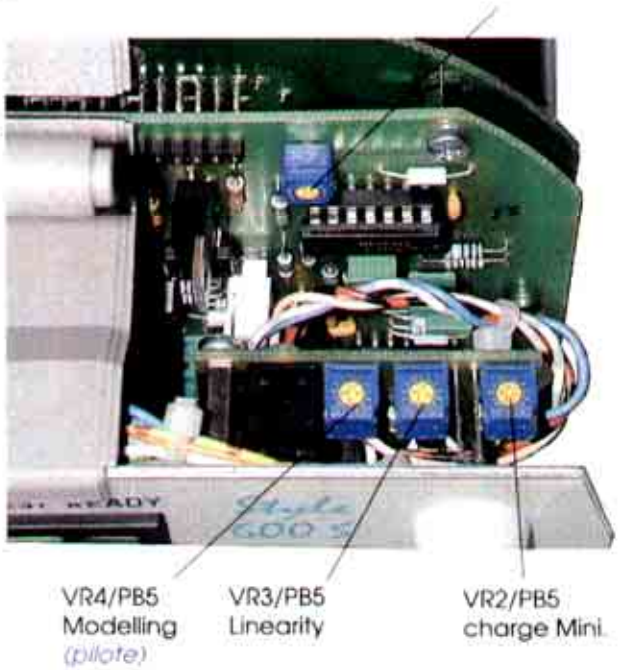
ADJUSTING THE CHARGE

The upper and lower limiting values of the charge are controlled by potentiometers VR1/PB4 and VR2 of circuit board PB5. Intermediate values are controlled by the potentiometer (VR3/PB5) which adjusts the linearity of the sliding potentiometer or variator.

Use a voltmeter in DC mode to measure the charge voltage capacitors at points 0V (Neutral) and positive HT of PB3 (see page 21).

1. at the 1/1 setting, adjust VR1/ PB4 (max. charge voltage) 595/600 V
2. at the 1/32 (for Style «S») setting, adjust VR2/PB5 (mini. charge voltage) 160 V
3. at the 1/4. (for Style « S») setting adjust *VR1/PB5 (linearity) 310 V

*Note that adjustment is necessary only when the linear sliding potentiometer is replaced.



ADJUSTING THE MODELLING LIGHT

This adjustment brings the light intensity from full (1/1) down minimum (1/32) with the trimmer (VR4 of PB5).

1. Measure the voltage with a voltmeter VRMS in VAC mode.
2. Modelling light selector: light ON
3. Adjustment 45 V RMS at line 115 V/60Hz. between the yellow thread and the black conductor of the lamp socket BA15B.

For Style 300 and 600 See page 27 and 31

FLASH ADJUSTMENT Style 300 and 600

1° adjust VR1 full power MAX : 595 to 600 V
2° adjust VR2 PB5 mini power MINI 215 V
3° adjust VR3 PB5 medium (linearity) : 350 V
4° verify full power

MODELLING ADJUSTMENT

Adjustment 52 VRMS at line 115V/60Hz. between the yellow thread has the output of the fuse holder and the socket of lamp.

Ajustage de la charge Style «S»

A l'aide d'un voltmètre en mode DC, mesurer la tension de charge HT sur le PB3 aux points positive HT et ***0V Neutral*** *(voir page 21)*

Les valeurs limites, supérieures et inférieures, de variation de charge sont ajustées par les potentiomètres VR1 et VR2. VR3 corrige la linéarité.

1. à la sélection pleine puissance (curseur vert en haut) ajuster avec VR2 la charge maximale à 595/600V.

2. à la sélection 1/32 (curseur vert en bas) ajuster la charge maximale à 160V.

à la sélection 1/16 pour les modèles 300 et 600 (curseur vert en bas) ajuster la charge maximale à 215V.

3. à la sélection 1/4 (curseur vert au milieu) ajuster la linéarité à 310V. (seulement si le potentiomètre linéaire situé sur le PB5 est remplacé)

à la sélection 1/4 pour les modèles 300 et 600 ajuster la linéarité à 350V.

Réglage de la lampe de mise au point (pilote) Style «S»

Mettre au minimum de puissance au 1/32 et régler la tension à 45 VRMS à l'aide de VR4

Mettre au minimum de puissance au 1/16 sur les modèles 300 et 600 et régler la tension à 52 VRMS à l'aide de VR4

Le voltmètre doit être raccordé entre le fil jaune et le fil noir qui sortent de la douille de lampe BA15D)

14377 PB1 for Style 300 S and 600 S
Trigger + booster and supply fan

Part Nb	Qty	Designation	Identification
100.060	1	ZS1052/1(trigger coil) *(bobine d'amorçage)*	TR1
104.006	1	4.7nF/500 V	C2
104.007	1	10nF	C1
104.012	2	47nF/250 V	C3 - C5
104.016	1	100nF/250 V	C4
104.017	1	100nF/400 V	C6
104.026	1	1.5µF/250 V	C9
104.124	1	330nF/400 V	C7
105.011	1	1 N5359B (24V/5W zener diode)	ZD1
105.057	1	CSB4 (rectifier bridge)	BR1
105.116	1	X0405NF (thyristor)	TY1
110.072	1	Fan connector	J 1
110.134	1	Connector with screws 3p CSF-03001	J2
111.038	1	39R/3W	R4
111.065	1	10K/2W	R3
112.056	1	Trigger Eyelet terminal *(rivet)*	15KV
112.071	1	LP 2.8 mm (tab/*cosse*)	HTB
121.102	1	1K	R1
121.220	1	22R	R2
121.154	1	150K	R5
14009	4	1N4007 (1A /400 V diode)	D1- D4 - D3
14053	1	330uF/50 V (capacitor)	C8
500.600	1	ø 6 x 50 mm insulation tube	
500.429	1	Fil 0.5 mm^2 Brown L = 200 mm	LSYS
500.430	1	Fil 0.5 mm^2 Blue L = 200 mm	NSYS
500.431	1	Fil 0.5 mm^2 Green L = 200 mm	TRIG
14082a	1	Printed board without elements	

Remember:

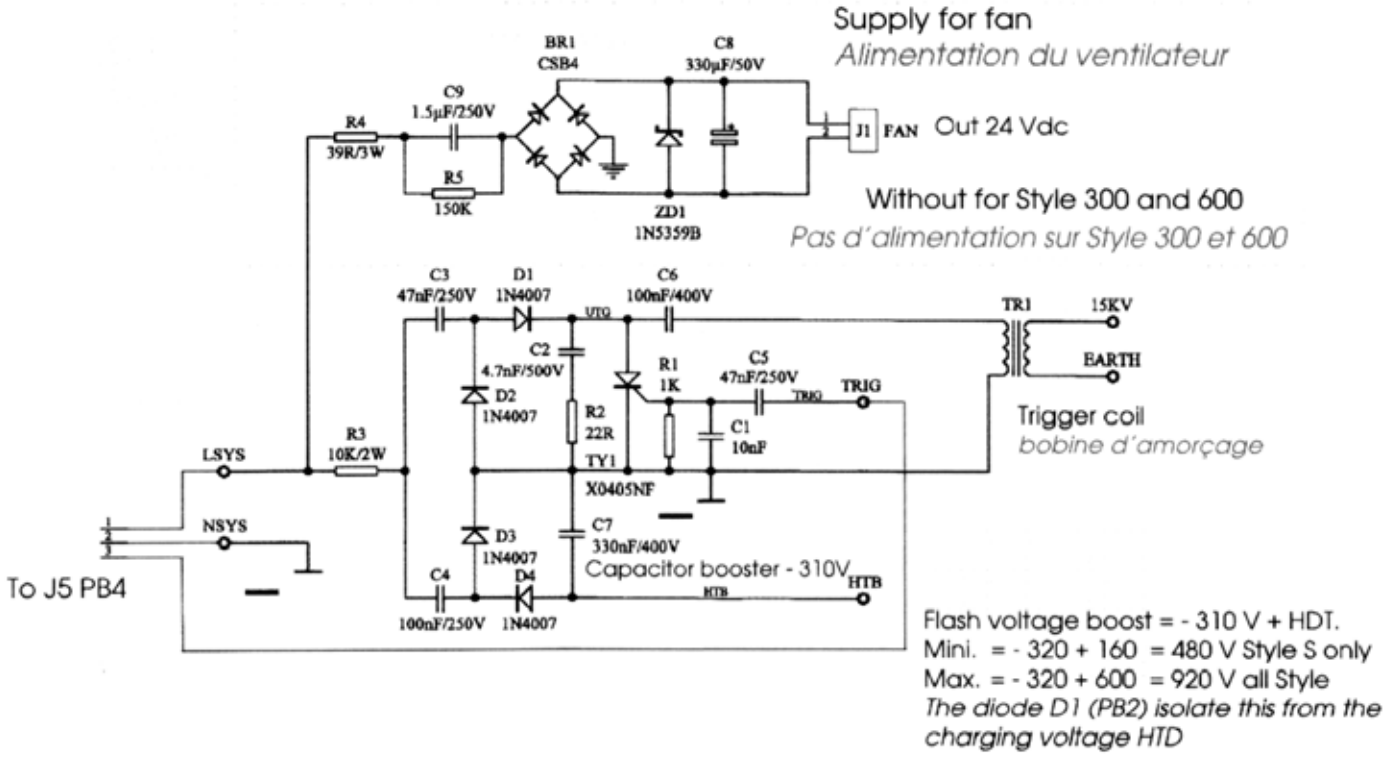
14377 PB1 for Style 300 S and 600 S (With supply for Fan)

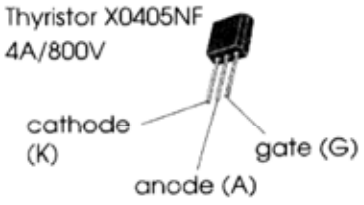
14385 PB1 for Style 300 and 600 (Without supply for Fan)

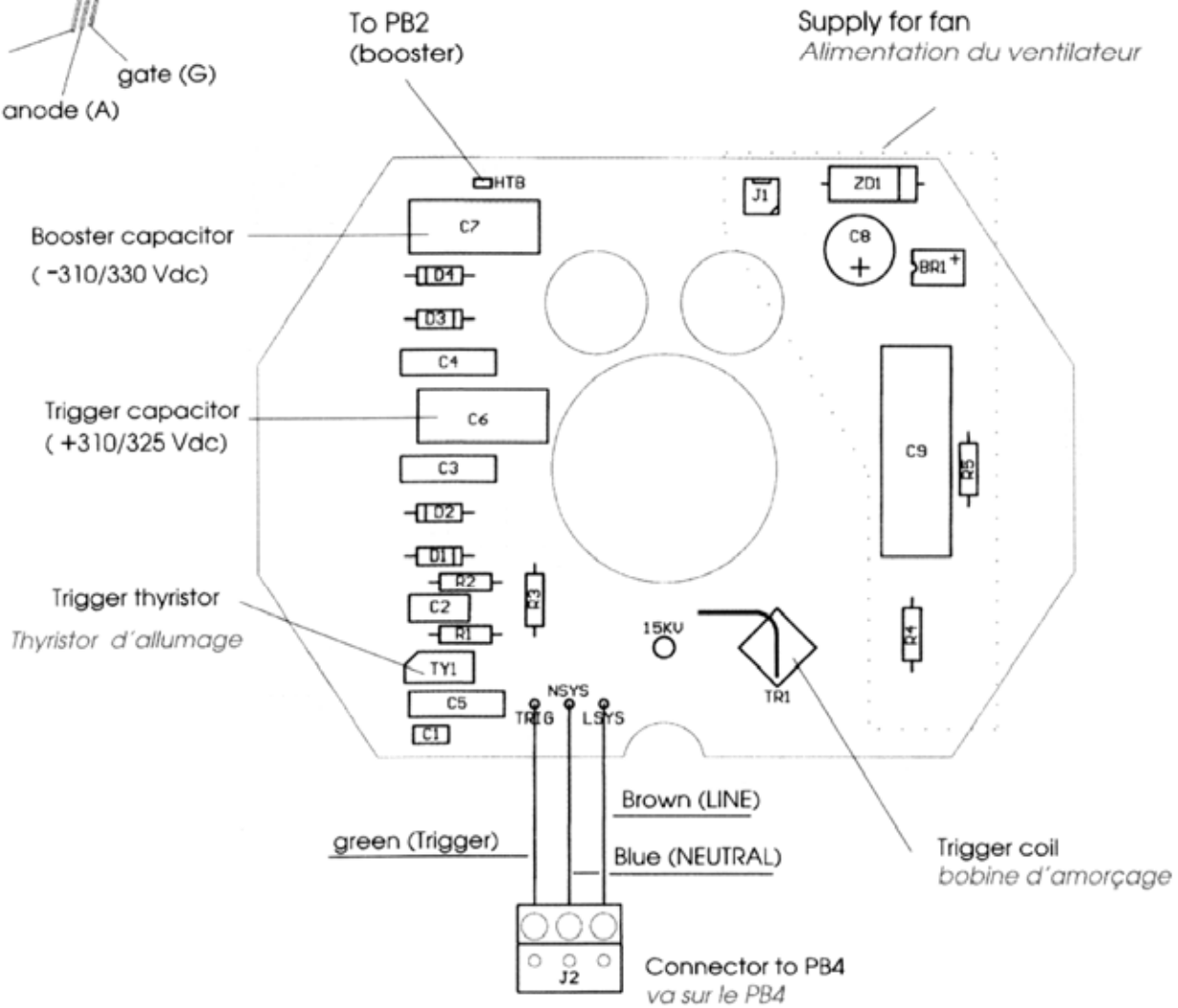
14393 PB1 for Style 1200 S (Special supply, with two capacitors 1.5µF/250V)

14377 PB1 for Style 300 S and 600 **S**

Trigger + booster and supply fan





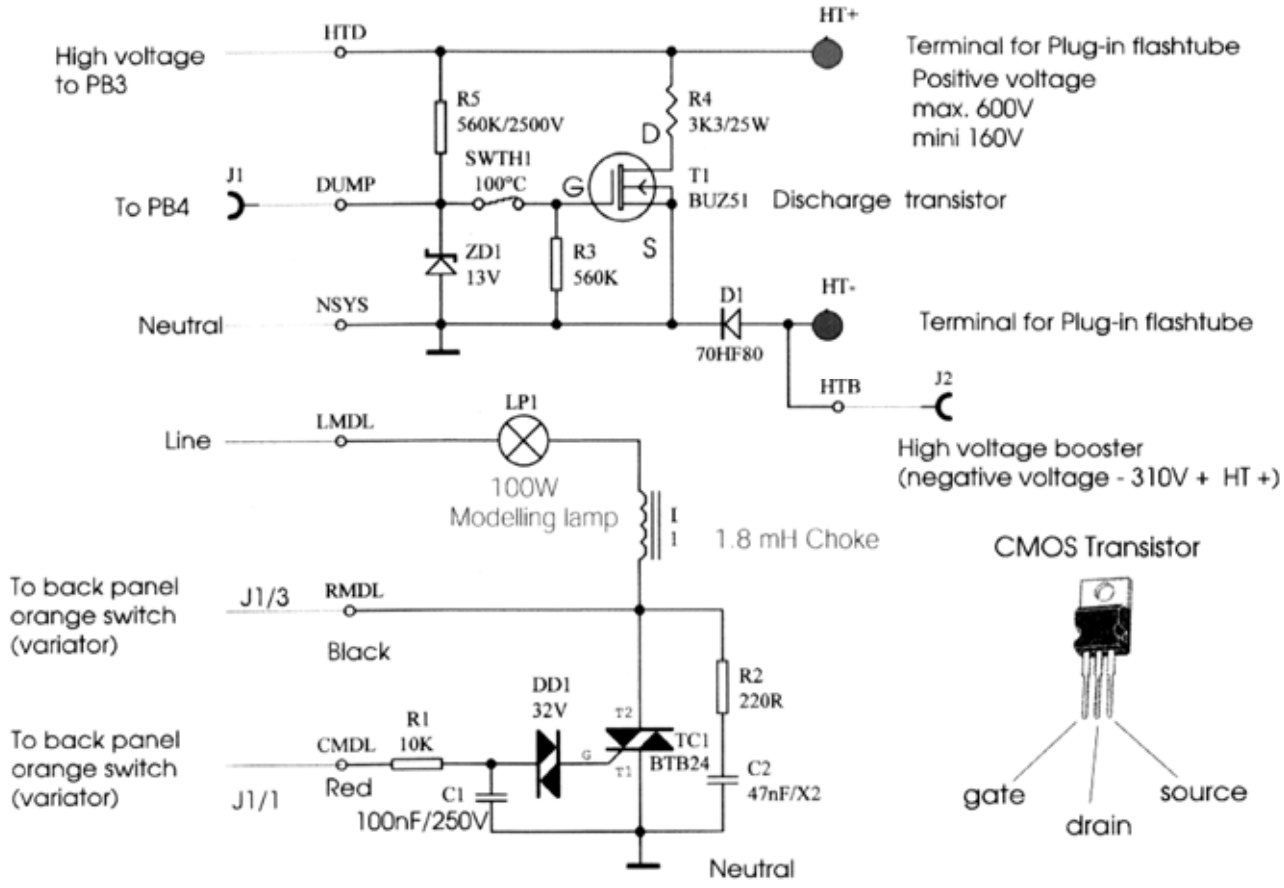


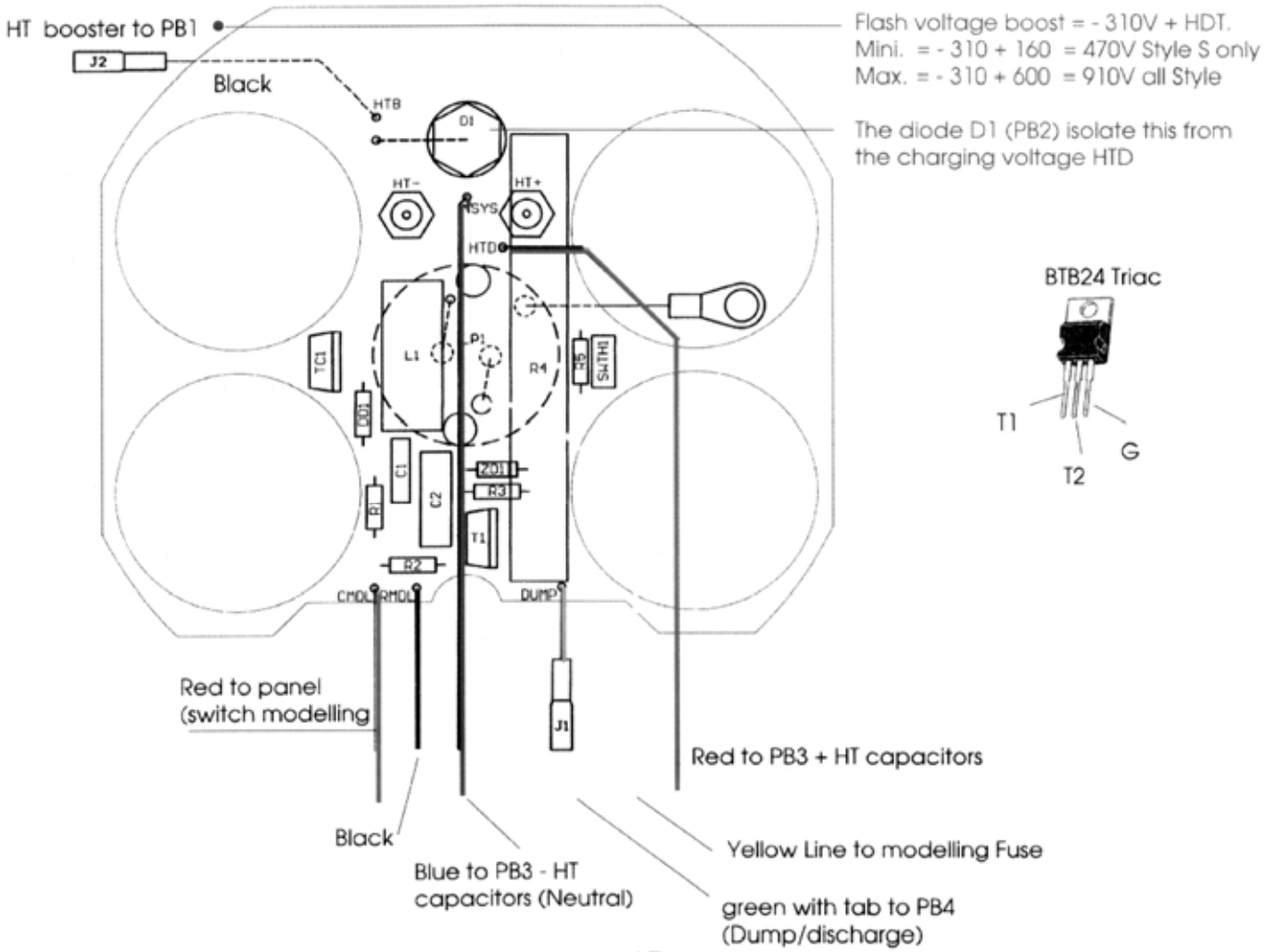
14396 PB2 for Style 300 S and 600 S

Part Nb	Qty	Part	Identification
100.047	1	1,8 mH/2.5A Self (disturbances choke)	L1
101.229	1/3	SIL 12 X 50 insulation tube	R4
104.013	1	47nF/X2 (capacitor)	C2
104.016	1	100nF/250 V	C1
105.006	1	13V zener diode	ZD1
105.049	1	BTB24 triac (24A/800V)	TC1
105.087	1	70HF80 Power diode	D1
111.524	1	3K3/25W (discharge resistor)	R4
112.099	1	Socle BA15D (Lampholder BA15D)	LP1
112.076	2	Cosse 2.8 x 0.8 (soldering lug)	J1 J2
112.101	2	Terminal for Plug-In flashtube	HT+ HT-
121.103	1	10K	R1
121.229	1	220R	R2
121.564	1	560K/2500 V	R5
121.569	1	560K	R3
203.010	2	M5 Nut for terminal flash tube	HT+ HT-
203 031	1	M3 Security nut	LP1
204.128	1	Toroïdal ring (for 100.047)	L1
209.132	2	Spacer ø 8x5	R4
209.134	2	Hexagonal Spacer M3 x 22	LP1
210.004	2	Security washer	HT+ HT-
210.119	1	M6 x 0.8 washer	D1
211.203	4	M3 x 8 screw	LP1
14015	1	Diac 32 V	DD1
14032	1	100°C Thermal switch	SWTH 1
14033	1	BUZ51 or ST 4N100 Transistor Mos	T1
14083a	1	Printed board without elements	
500.439	1	Fil 0.75 mm^2 Black L = 40mm	D1
500.440	1	Fil 0.75 mm^2 Red L =180 mm	HTD
500.441	1	Fil 0.75 mm^2 Blue L =190 mm	NSYS
500.443	1	Fil 0.5 mm^2 Green L =150 mm	DUMP
500.442	1	Fil 0.5 mm^2 Black L = 200 mm	RMDL
500.444	1	Fil 0.5 mm^2 Black L = 40 mm	HTB
500.445	1	Fil 0.5 mm^2 Red L = 200 mm	CMDL
500.446	1	Fil 0.5 mm^2 Yellow L = 210 mm	LMDL

14396 PB2 Modelling lamp and Dump (120V)

Printed board assembly for 300 S and 600 S



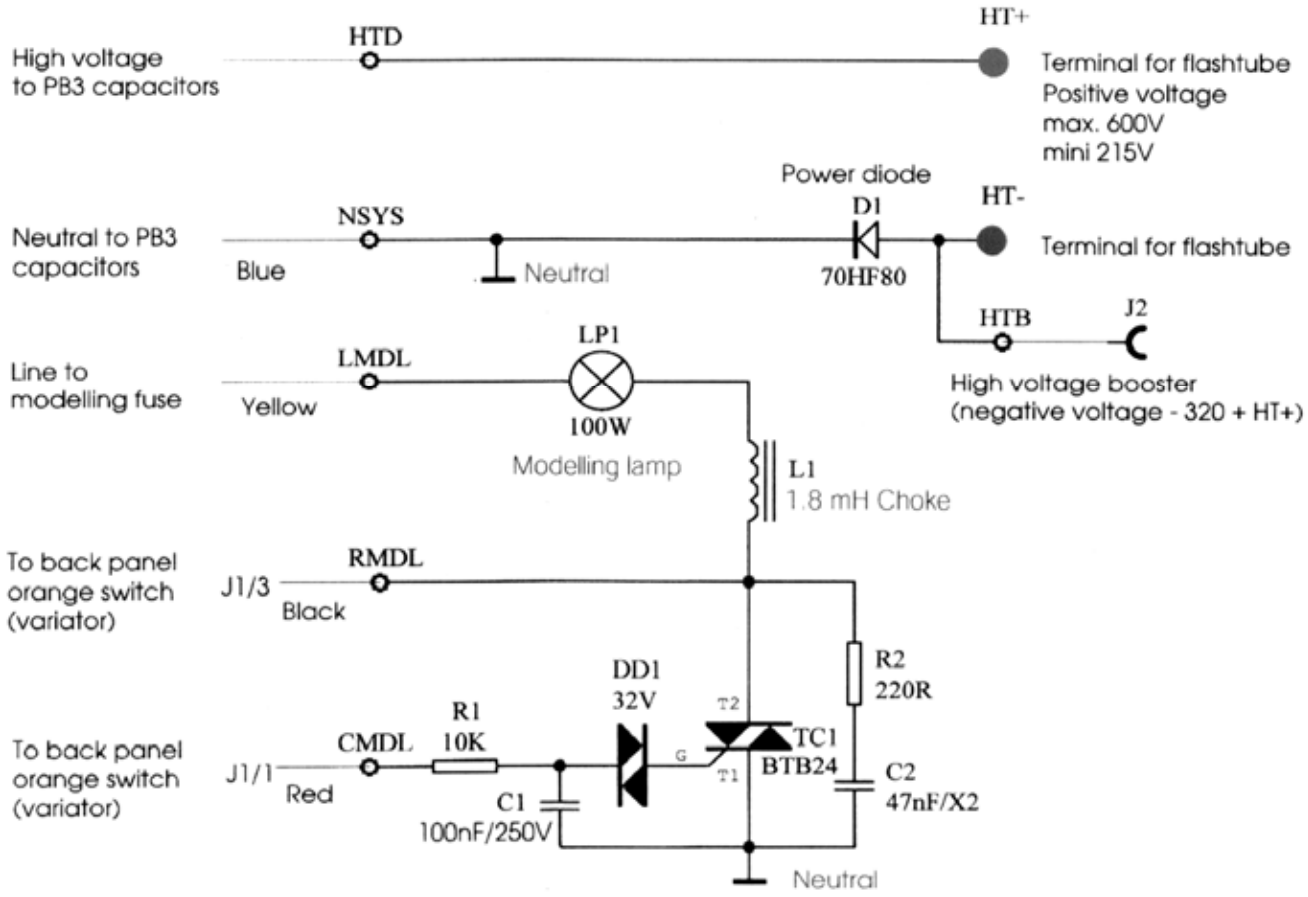


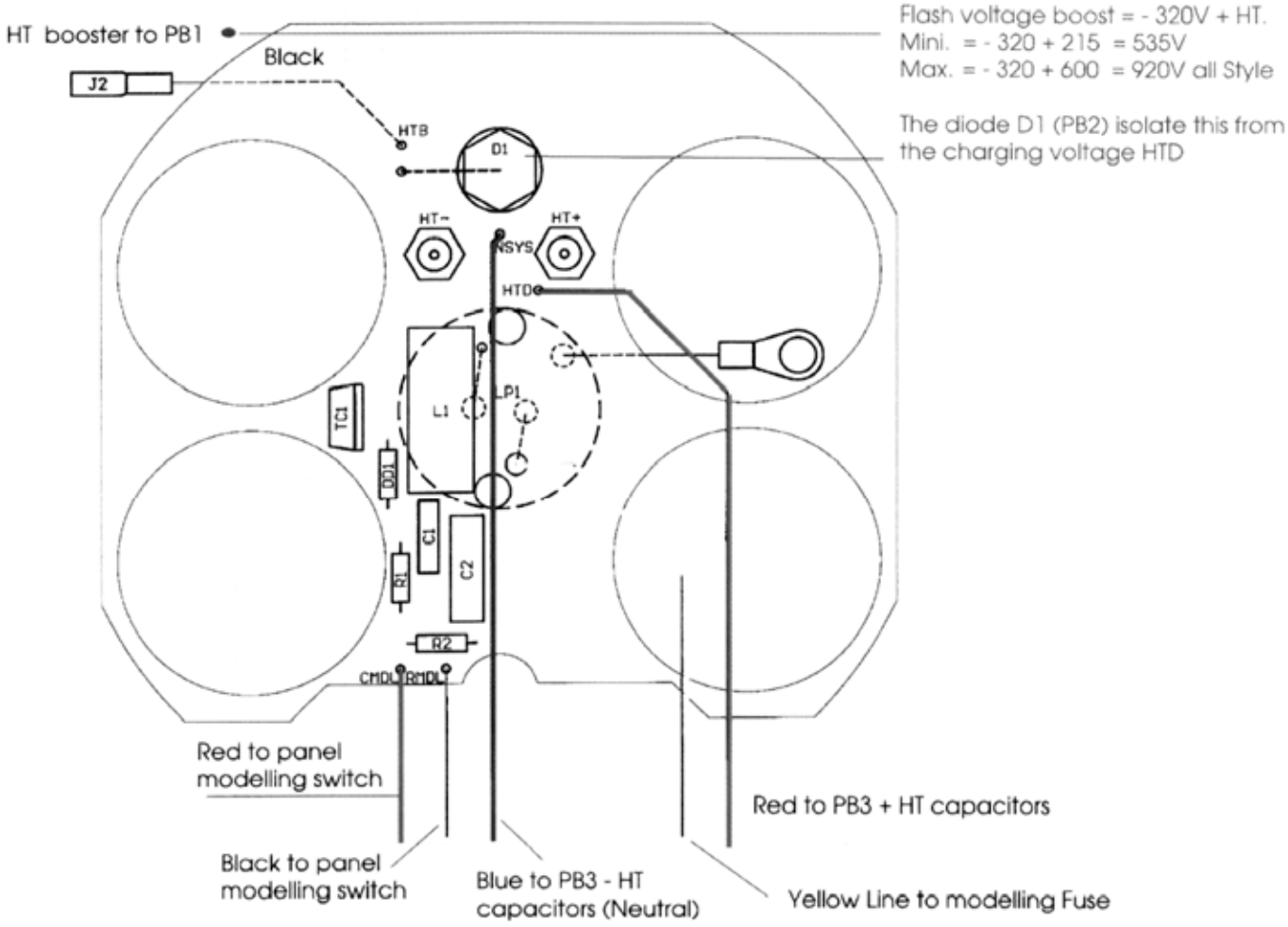
14398 PB2 for Style 300 and 600 only

Part Nb	Qty	Part	Identification
100.047	1	1,8 mH/2.5A Self (disturbances choke)	L1
104.013	1	47nF/X2 (capacitor)	C2
104.016	1	100nF/250 V	C1
105.049	1	BTB24 triac (24A/800V)	TC1
105.087	1	70HF80 Power diode	D1
112.099	1	Socle BA15D (Lampholder BA15D)	LP1
112.076	2	Soldering lug 2.8 x 0.8	J1 J2
510.022	2	Fixing for flash tube with screw	HT+ HT-
121.103	1	10K	R1
121.229	1	220R	R2
203.010	2	M5 nut for 510.022	HT+ HT-
203 031	1	M3 Security nut	LP1
204.128	1	Toroïdal ring (for 100.047)	L1
209.134	2	Hexagonal Spacer M3 x 22	LP1
210.004	2	Security washer	HT+ HT-
210.119	1	Washer M6 x 0.8	D1
211.203	4	M3 x 8 screw	LP1
14015	1	Diac 32 V	DD1
14083a	1	PCB nu (without elements) -	
500.439	1	Fil 0.75 mm^2 Black L = 40mm	D1
500.440	1	Fil 0.75 mm^2 Red L =180 mm	HTD
500.441	1	Fil 0.75 mm^2 Blue L =190 mm	NSYS
500.442	1	Fil 0.5 mm^2 Black L = 200 mm	RMDL
500.444	1	Fil 0.5 mm^2 Black L = 40 mm	HTB
500.445	1	Fil 0.5 mm^2 Red L = 200 mm	CMDL
500.446	1	Fil 0.5 mm^2 yellow L = 210 mm	LMDL

14398 PB2 Modelling lamp (120V)

for Style 300 and 600 only

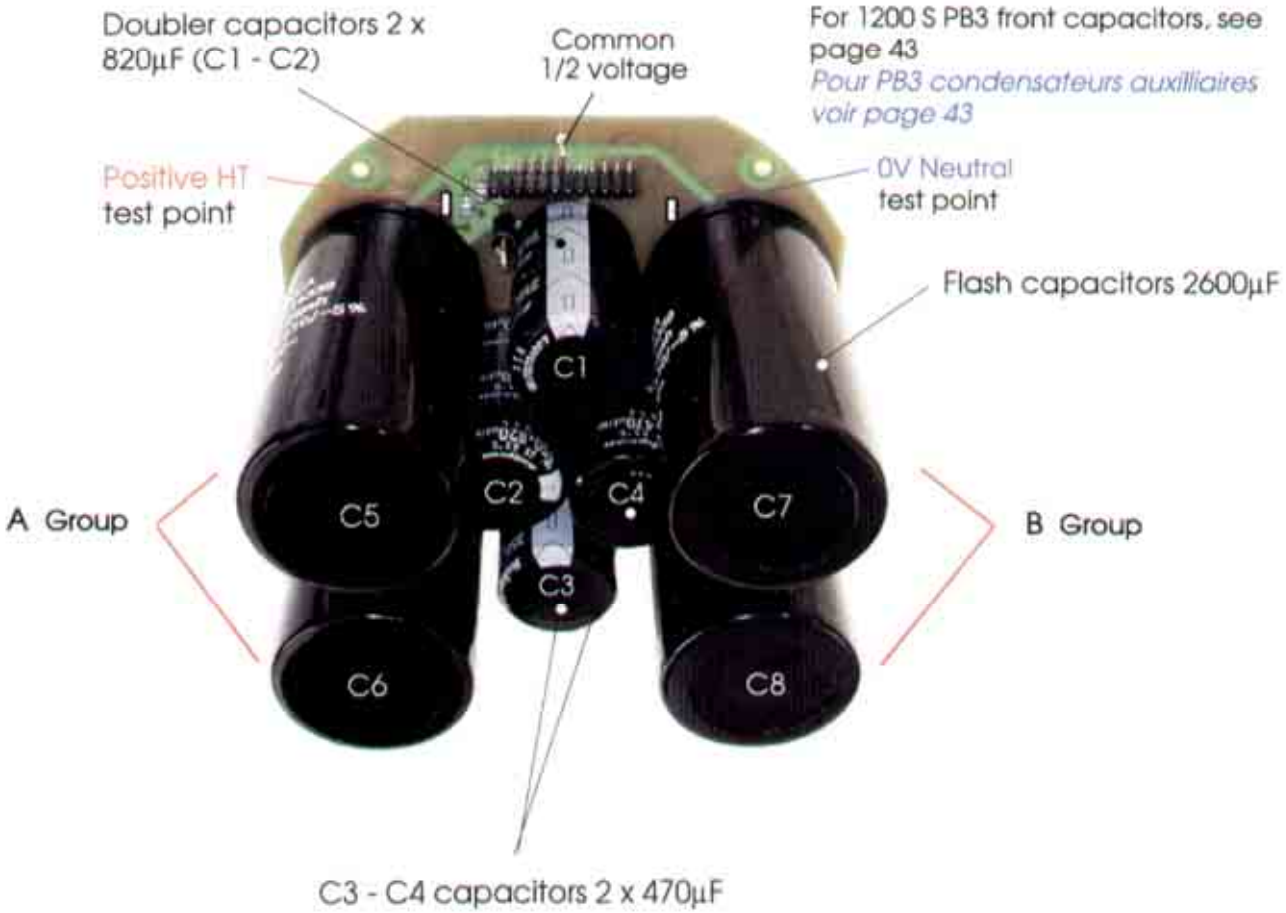




14379 PB3 Assembly (120 V)

Printed board with capacitors for 600 - 600 S and 1200 S*

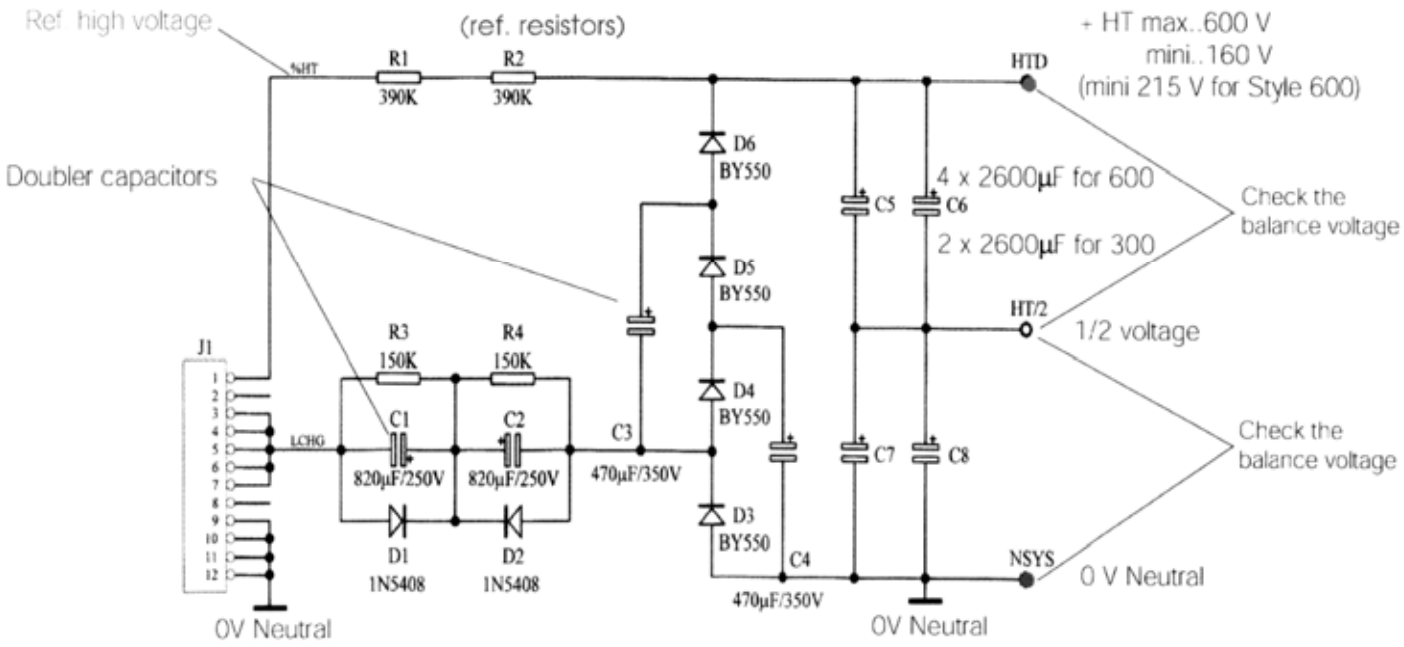
Part Nb	Qty	Part	Identification
104.125	2	820µF/250 V (Doubler capacitors)	C1 C2
104.126	2	470µF/350 V (Doubler capacitors)	C3 C4
105.050	4	BY550 (5A/1000 V rectifier diodes)	D3 D4 D5 D6
110.129	1	BL1115081127 (Female crimp)	J1
112.071	3	LP2.8 (Tab 2.8 mm)	HTD HT/2NSYS
121.154	2	150K	R3 R4
121.394	2	390K	R1 R2 (ref. resistors)
14084a	1	PCB (without elements)	
14342	4	2600µF/360V (Flash capacitors)	C5 C6 C7 C8
14342	2	For 300 and 300 S	C6 C8 only
14430	2	1N5408 diode (3A/1000 V) (protective diodes)	D1 D2

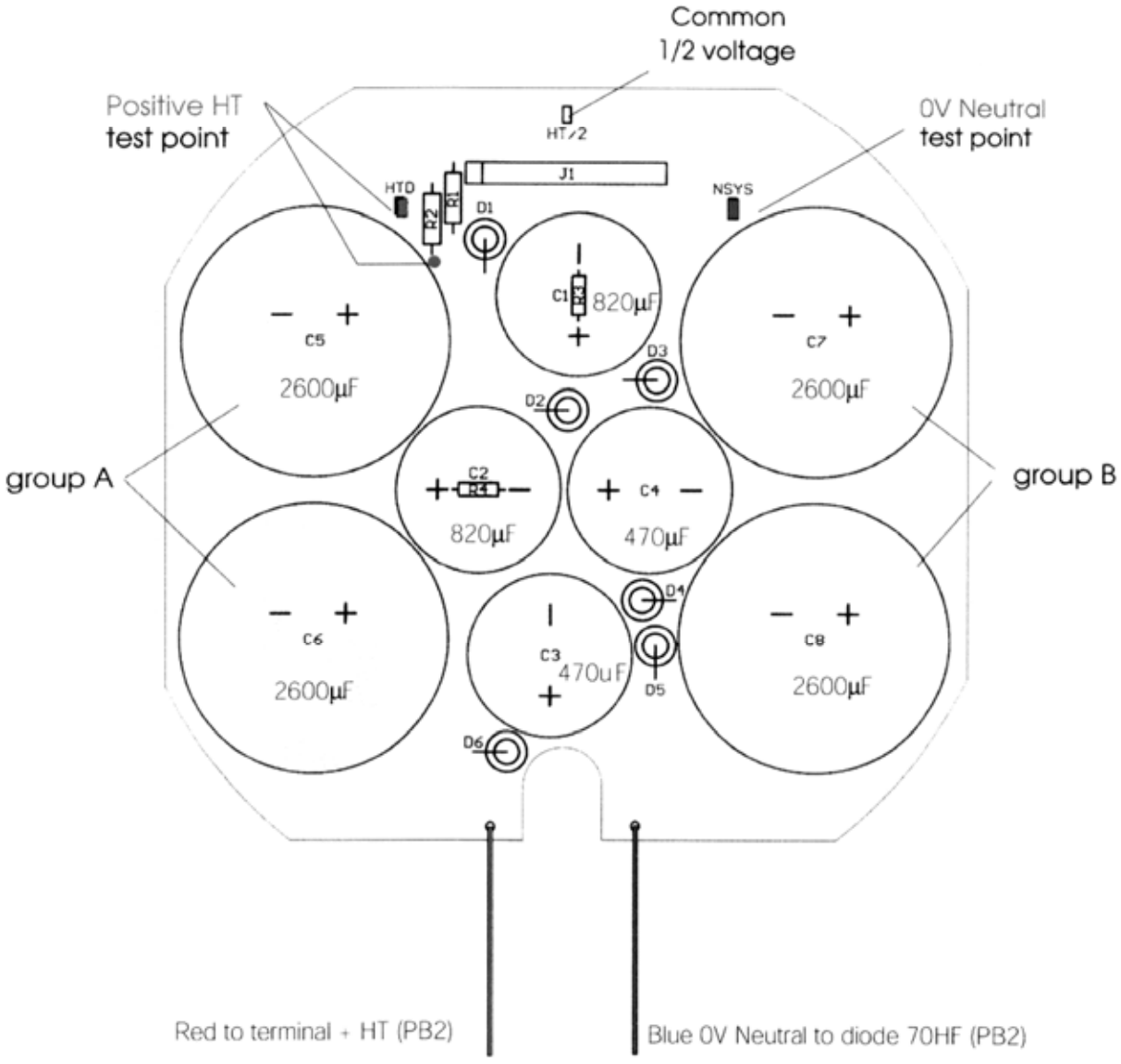


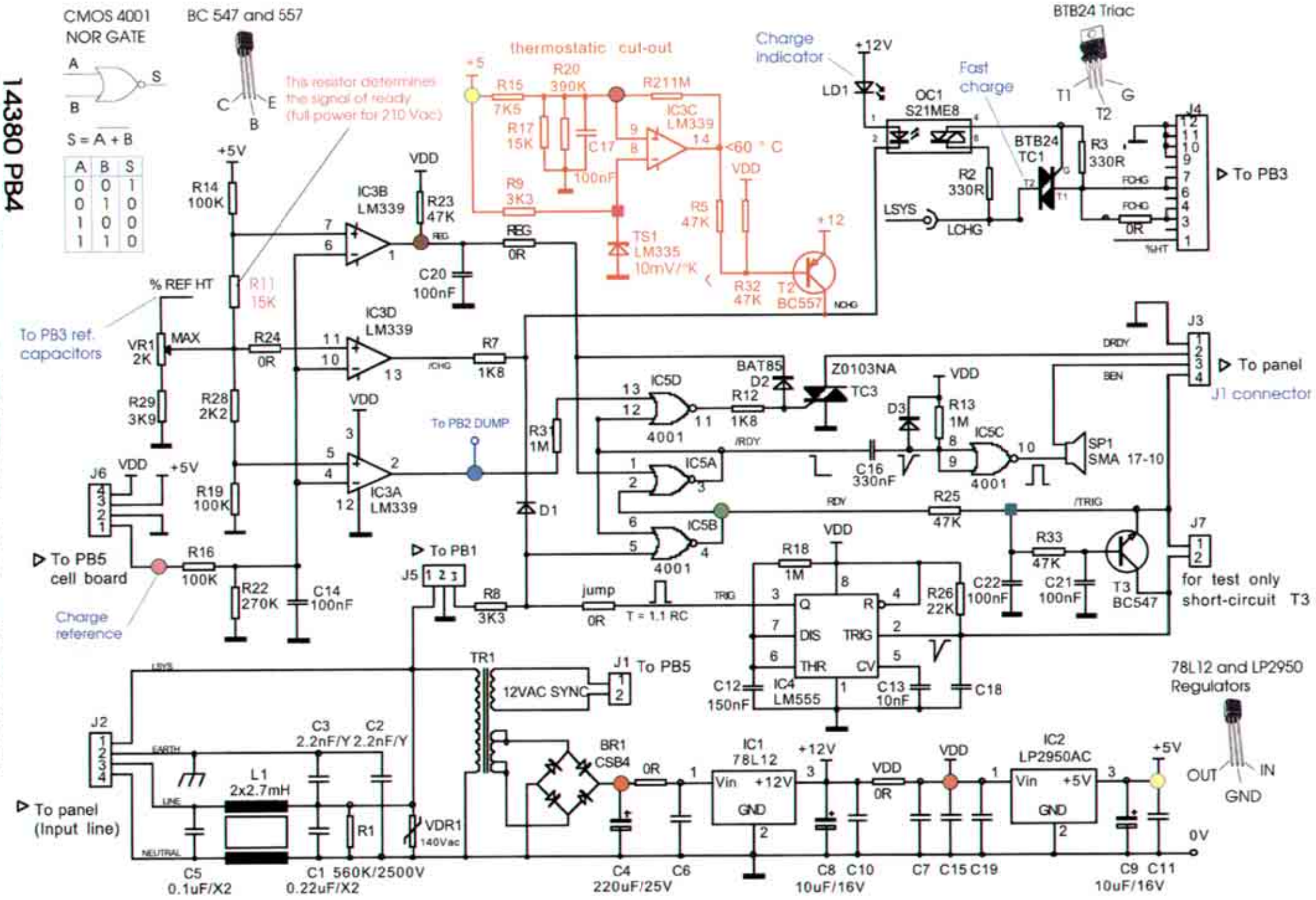
14379 PB3 Assembly (120 V)

Printed board with capacitors for 600 - 600 S and 1200 S*

* For 1200 S see page 43

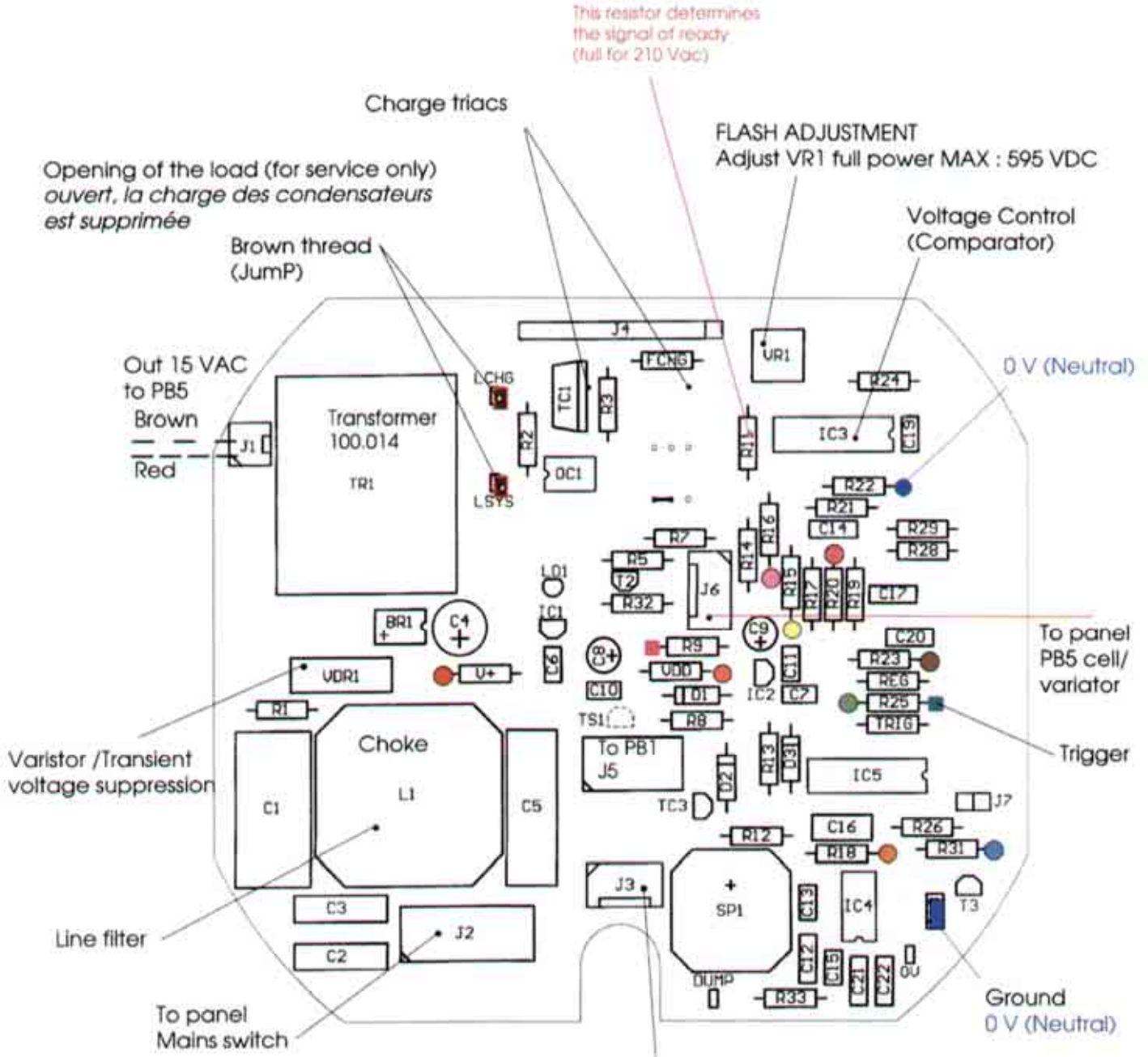





CMOS 4001
NOR GATE
A
B
S
S = A + B
A B S
0 0 1
0 1 0
1 0 0
1 1 0
BC 547 and 557
C
E
B
This resistor determines the signal of ready (full power for 210 Vac)
thermostatic cut-out
+5
R15 7K5
R20 390K
R211M
R17 15K
C17 100nF
IC3C LM339
<60 ° C
R9 3K3
TS1 LM335 10mV/°K
R5 47K
VDD
+12
R32 47K
T2 BC557
NCHG
Charge indicator
+12V
LD1
OC1 S21ME8
Fast charge
BTB24 Triac
T1
T2
G
BTB24 TC1
R3 330R
R2 330R
LSYS
LCHG
FCHG
0R
%HT
J4
To PB3
+5V
R14 100K
IC3B LM339
R23 47K
REG
0R
C20 100nF
% REF HT
To PB3 ref. capacitors
VR1 2K
MAX
R11 15K
R24 0R
IC3D LM339
/CHG
R7 1K8
R29 3K9
R28 2K2
VDD
To PB2 DUMP
R3 1M
IC3A LM339
D1
J6
R19 100K
To PB5 cell board
R16 100K
R22 270K
C14 100nF
Charge reference
J5
To PB1
R8 3K3
jump 0R
T = 1.1 RC
TRIG
IC5D
IC5A
IC5B
4001
BAT85
D2
R12 1K8
Z0103NA
TC3
D3
R13 1M
IC5C
/RDY
RDY
C16 330nF
SP1 SMA 17-10
J3
DRDY
BEN
To panel
J1 connector
R25 47K
/TRIG
R33 47K
T3 BC547
J7
for test only short-circuit T3
R18 1M
R26 22K
C22 100nF
C21 100nF
IC4 LM555
DIS
THR
C12 150nF
C13 10nF
C18
TR1
12VAC SYNC
J1
To PB5
LSYS
J2
EARTH
LINE
NEUTRAL
C3 2.2nF/Y
C2 2.2nF/Y
L1 2x2.7mH
R1
VDR1 140Vac
To panel (Input line)
C5 0.1uF/X2
C1 560K/2500V 0.22uF/X2
BR1 CSB4
C4 220uF/25V
C6
IC1 78L12
Vin
GND
+12V
0R
C8 10uF/16V
C10
C7
C15
C19
IC2 LP2950AC
+5V
C9
C11 10uF/16V
0V
78L12 and LP2950 Regulators
OUT
IN
GND

14380 PB4 CONTROL for STYLE 300 S - 600 S and 1200 S (230V)

Circuit de commande, repérage des points de mesure



- Output + 18 V
- + 12 V (VDD)
- + 5 V
- °K
- Voltage charge Ref.
- Signal of ready
- 3.3V ref. cut-out
- Dump
- Trigger
- Ready

FLASH ADJUSTMENT Style "S" only

1° adjust VR1 full power MAX : 595 / 600 V
2° adjust (PB5) VR2 mini power MINI : 160 V
3° adjust (PB5) VR3 medium (linearity) : 310 V
4° verify full power with VR1 PB4

14380 PB4 - CONTROL BOARD

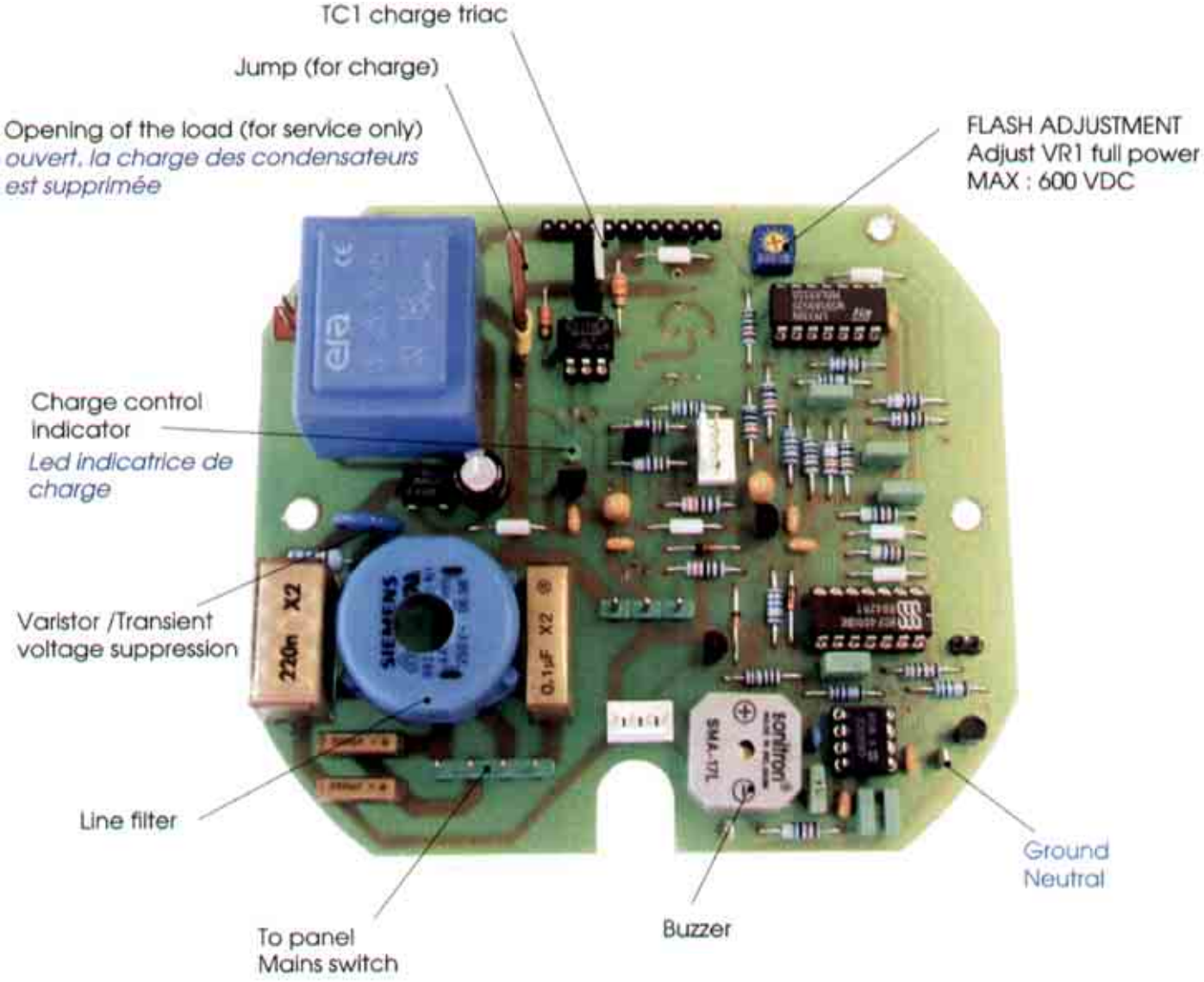
For STYLE 300 S/600 S/1200 S (120V)

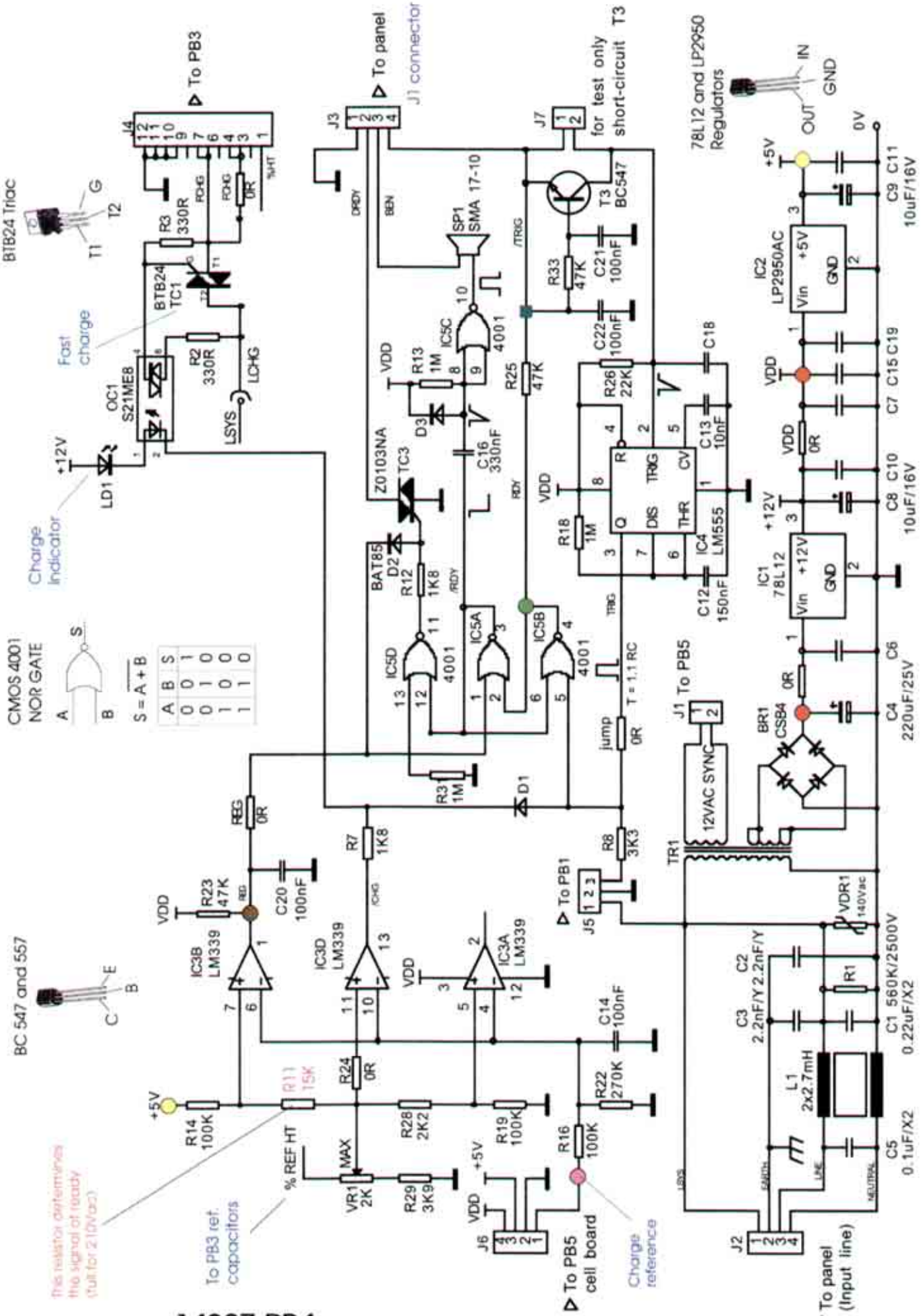
Part N°	Qty	Part	Identification
100.014	1	BV030-1948 (transformer 2 x 15 V)	TR1
104.007	1	10nF (ceramic capacitor)	C13
104.015	7	100nF ceramic capacitor	C6 C7 C10 C11 C15 C18 C19
104.019	1	0.22pF/X2 (capacitor)	C1
104.029	2	101JF/16 V	C8 C9
104.062	1	0.11JF/X2 (capacitor)	C5
104.064	1	330nF (capacitor)	C16
104.066	5	100nF (capacitor)	C14 C17 C20 C21 C22
104.071	1	150nF (capacitor)	C12
104.106	2	2.2nF/Y (capacitor)	C2 C3
105.048	1	IC 4001 Quad 2 input Nand	IC5
105.049	1	BTB24 ChargeTriac (24 A/800 V)	TC1
105.051	2	1N4148 Diode 75V/150 mA	D1 D3
105.057	1	CSB4 Bridge rectifier	BR1
105.063	1	78L12 Regulator 12V	IC1
105.089	1	LP2950AC (5V Regulator)	IC2
105.108	1	Z0103NA Triac 1A/800V	TC3
105.125	1	BAT85 Schottky diode	D2
105.138	1	S21ME8Y solid state relay	OC1
105.201	1	LM335 temperatur detector	TS1
107.019	1	SMA 17-10 Buzzer	SP1
108.024	1	L424GDT Green LED	LD1
109.023	1	2K Potentiometer	VR1
110.063	2	Socle 14p (IC socket)	IC3 IC5
110.072	1	2pM Molex	J1
110.091	1	Socle 6p (IC socket)	OC1
110.092	1	Socle 8p	IC4
110.123	1	2pM Headers/ connectors	J7
110.130	1	SL 11/240/12 Z (Headers/connectors)	J4
110.131	2	4pM Molex connector	J3 J6
110.135	1	CSM-040A1	J2
110.136	1	CSM-030A1	J5
111.061	1	250Vac Varistor	VDR1
112.071	3	LP 2.8 x 0.8 (Tab 2.8 x 0.8 mm)	0V DUMP LSYS
112.076	1	Flat receptacle 2.8 x 0.8	LCHG
120.001	6	0R (Jump)	FCHG R24 REG TRIG VDD V+
121.104	3	100K	R14 R16 R19
121.105	4	1M	R13 R18 R21 R31
121.153	2	15K	R17 R11 (Ready for 105 Vac)
121.182	2	1K8	R7 R12
121.222	1	2K2	R28
121.223	1	22K	R26
121.274	1	270K	R22
121.332	2	3K3	R8 R9
121.339	2	330R	R2 R3
121.392	1	3K9	R29
121.394	1	390K	R20
121.473	5	47K	R5 R23 R25 R32 R33
121.564	1	560K/2500V (Resistor HT)	R1
121.752	1	7K5	R15
14012	1	BC547 NPN transistor	T3
14013	1	BC557 PNP transistor	T2
14034	1	LM339 Quad comparator	IC3
14052	1	220µF/25V Electrolitic capacitor	C4
14085a	1	PCB nu (board without components)	
14629	1	2 x 2.7mH Self (Choke)	L1
54013	1	LM555 IC Timer	IC4
500.089	1	Fil 0.5mm2 Brown L = 60mm	LCHG

14380 PB4 CONTROL BOARD

For STYLE 300 S/600 S/1200 S (120V)

Circuit de commande

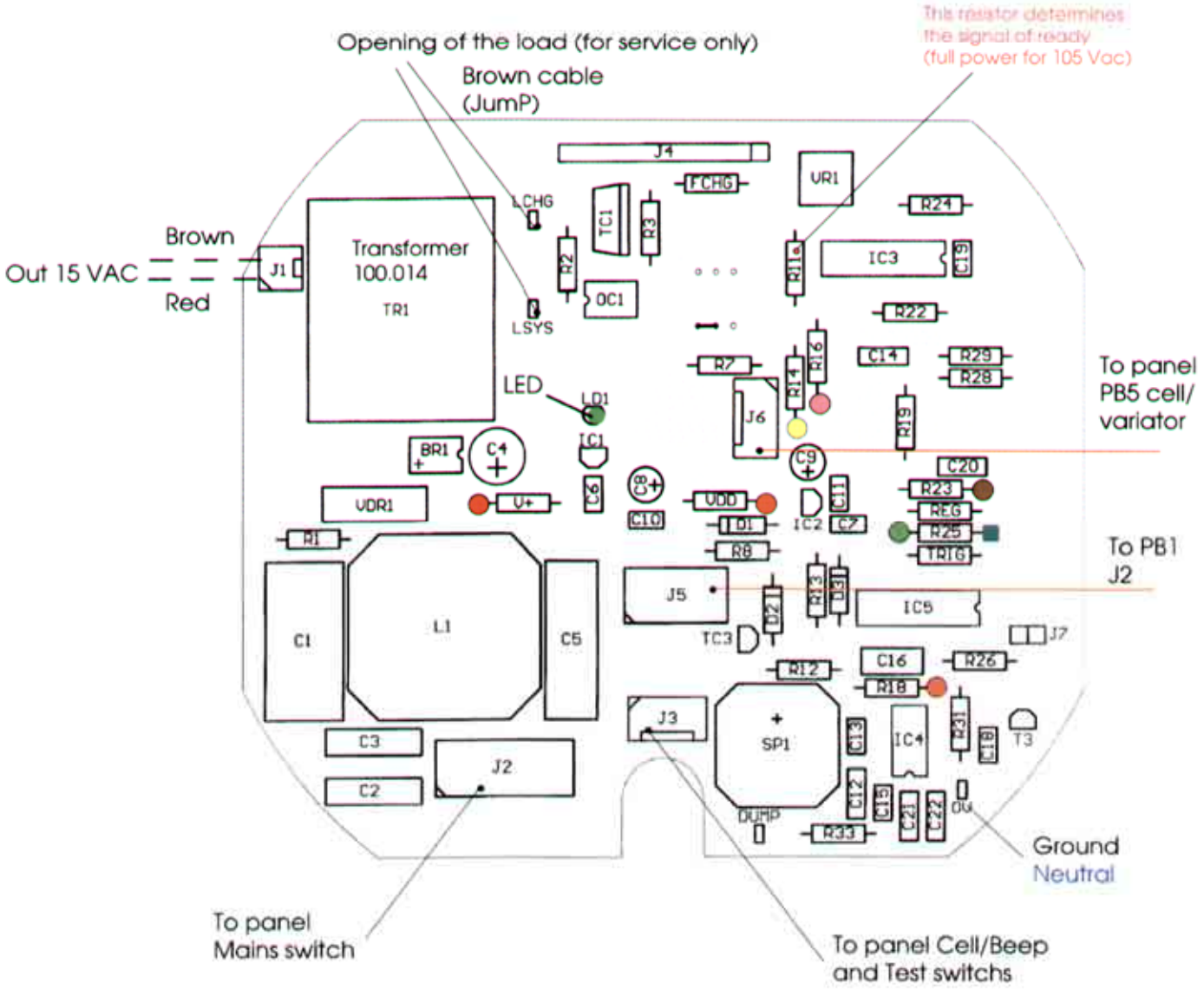



To PB3
To panel
J1 connector
for test only
short-circuit T3
78L12 and LP2950
Regulators
IN
OUT
GND
0V
+5V
+12V
BTB24 Triac
BC 547 and 557
Fast
charge
Charge
Indicator
CMOS 4001
NOR GATE
S = A + B
A B S
0 0 1
0 1 0
1 0 0
1 1 0
J1 To PB5
12VAC SYNC
TR1
BR1
CSB4
VDR1
140Vac
J5
To PB1
J6
To PB5
cell board
J2
To panel
(Input line)
To PB3 ref.
capacitors
% REF HT
Charge
reference
This resistor determines
the signal of ready
(full for 210Vac)
T = 1.1 RC
jump
LSYS
LCHG
REG
RED
RDY
TRIG
IC1 78L12
IC2 LP2950AC
IC4 LM555
IC3A IC3B IC3D LM339
IC5A IC5B IC5C IC5D 4001
SP1 SMA 17-10
Z0103NA
BAT85
OC1 S21ME8
BTB24 TC1
14387 PB4
Schematic diagram for STYLE 300 and 600 (120V)

14387 PB4 - CONTROL BOARD

For STYLE 300 and 600 (120V)

Circuit de commande



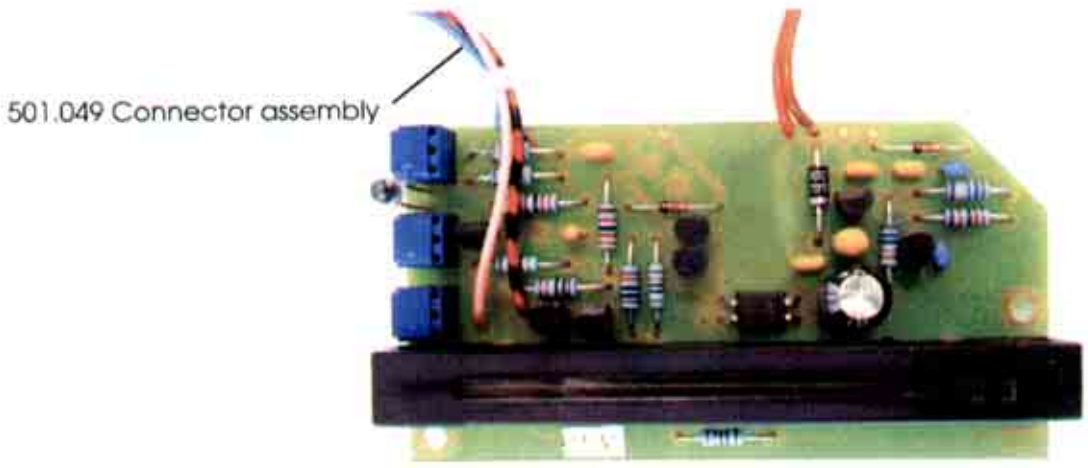
- Output + 18 V
- + 12 V (VDD)
- + 5 V
- Voltage charge Ref.
- Signal of ready
- Trigger
- Ready

FLASH ADJUSTMENT Style 300 and 600

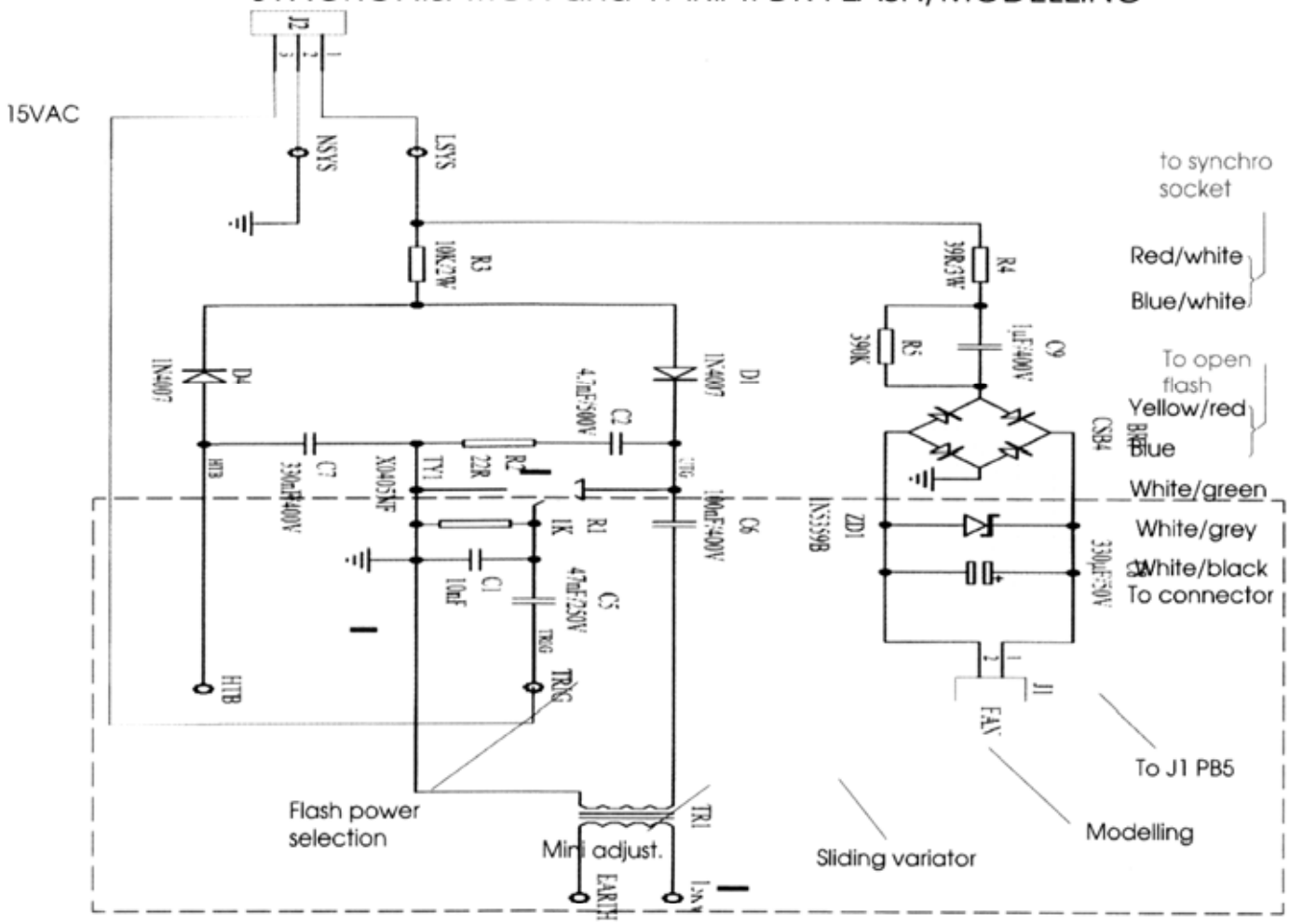
1° adjust VR1 full power MAX : 595 to 600 V
2° adjust VR2 PB5 mini power MINI : 215 V
3° adjust VR3 PB5 medium (linearity) : 350 V
4° verify full power

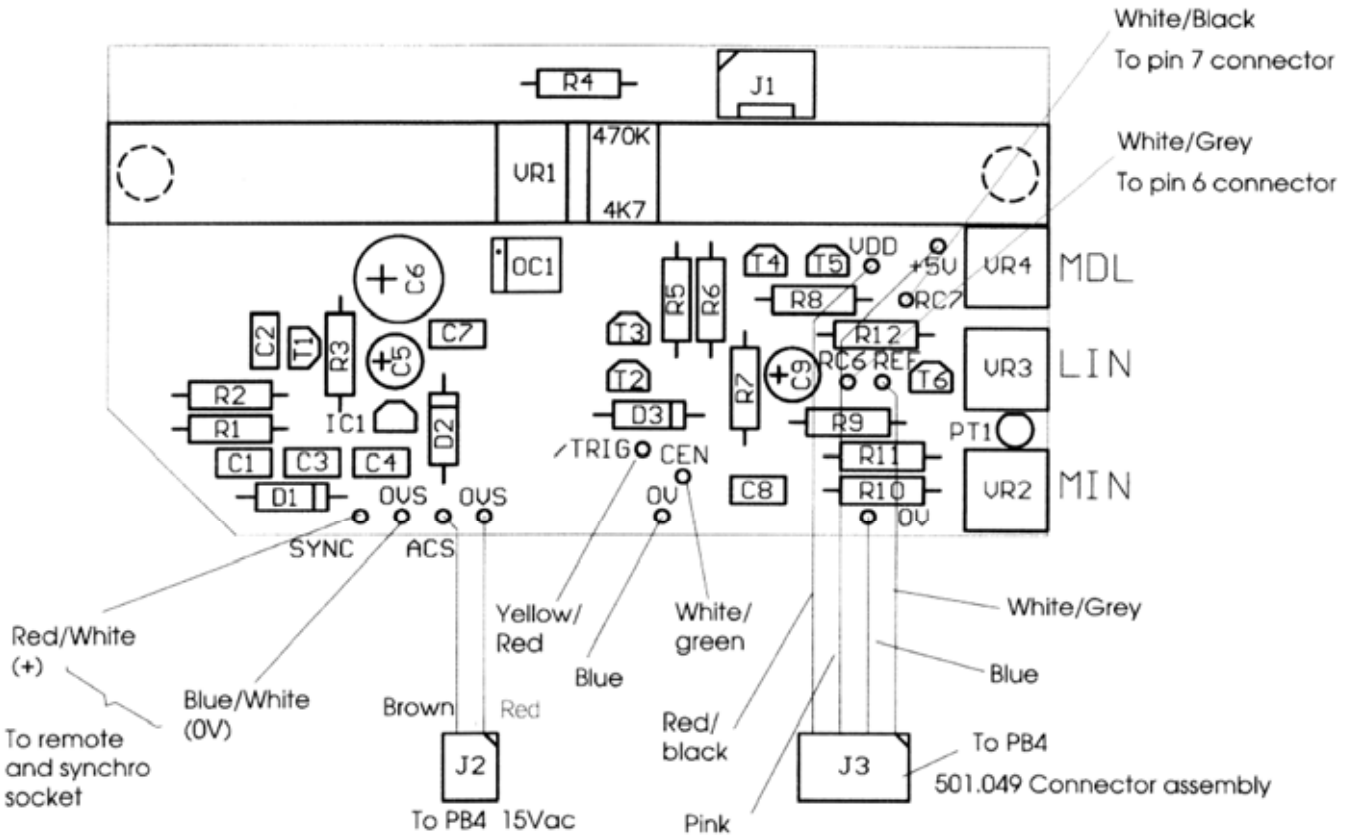
14376 PB5 Assembly For 300 S - 600 S 1200 S
SYNCRONISATION and VARIATOR FLASH/MODELLING

Part Nb	Qty	Part	Identification
104.007	2	10nF	C1 C2
104.015	4	100nF	C3 C4 C7 C8
104.029	1	10uF/16 V	C5
104.102	1	1uF/35 V	C9
105.028	1	PT361(phototransistor)	PT1
105.051	2	1N4148 diode 75 V/150mA	D1 D3
105.063	1	78L12 (12 V Regulator)	IC1
105.139	1	PC123FY (optocoupler)	OC1
105.153	1	J177	T6
109.027	1	4K7 + 470K Dual potentiometers	VR1
109.029	2	2K (trimmers)	VR2 VR3
109.030	1	200K (trimmer)	VR4
110.081	4	Contact Molex	J3
110.112	1	3pM Molex	J1
110.132	1	4pF Molex	J3
121.102	1	1K resistor	R10
121.103	2	10K resistor	R6 R8
121.104	3	100K resistor	R4 R5 R12
121.105	1	1M resistor	R1
121.223	3	22K resistor	R2 R7 R9
121.331	1	330R resistor	R3
121.471	1	470R resistor	R11
14009	1	1N4007 diode 1A/1000 V	D2
14012	3	BC547 NPN transistor	T2 T3 T4
14013	2	BC557 PNP transistor	T1 T5
14052	1	220uF/25 V	C6
14086	1	PCB nu (Printed board without elements)	
211.105	2	Vis M3 x 5 mm	VR1
501.031	1	Câble Synchro	J2
101.090	1	Fil 0.25 mm² Blue L = 100 mm	0V
101.140	1	Fil 0.25 mm² Pink L = 130 mm	+5V
101.141	1	Fil 0.25 mm² White/Grey L = 115 mm	REF
101.150	1	Fil 0.25 mm² Red/Black L = 125 mm	VDD



14376 PB5 Assembly for 300 S - 600 S -1200 S
SYNCRONISATION and VARIATOR FLASH/MODELLING





MODELLING ADJUSTMENT
Adjustment 45 VRMS at line 115 V/60Hz, between the yellow thread and the black conductor of the lamp socket BA15D

FLASH ADJUSTMENT Style "S"
1° adjust VR1(PB4) full power MAX : 595 max. 600 V
2° adjust VR2 (PB5) mini power MINI : 160 V
3° adjust VR3 (PB5) medium (linearity) : 310 V
4° verify full power with VR1 (PB4)

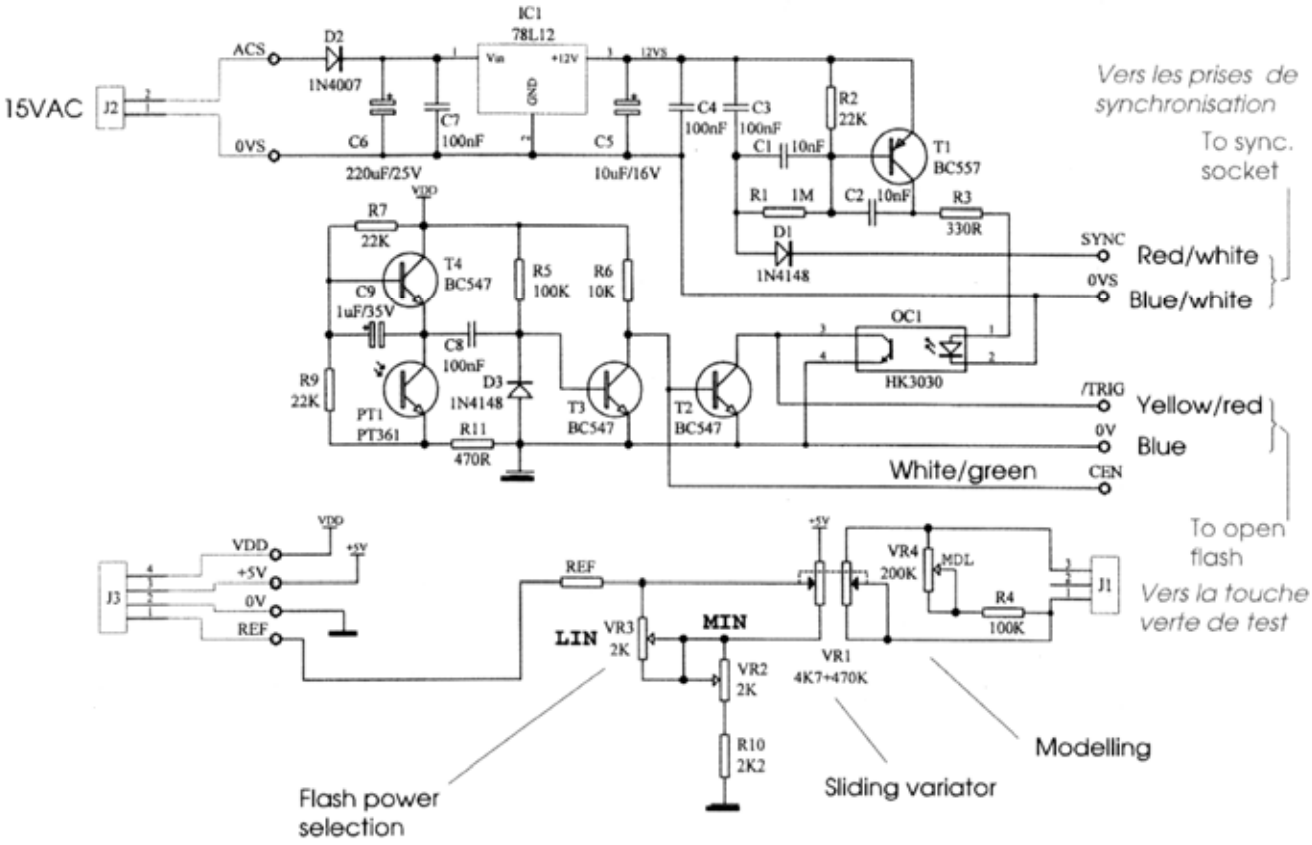
14395 PB5 Assembly For 300 and 600

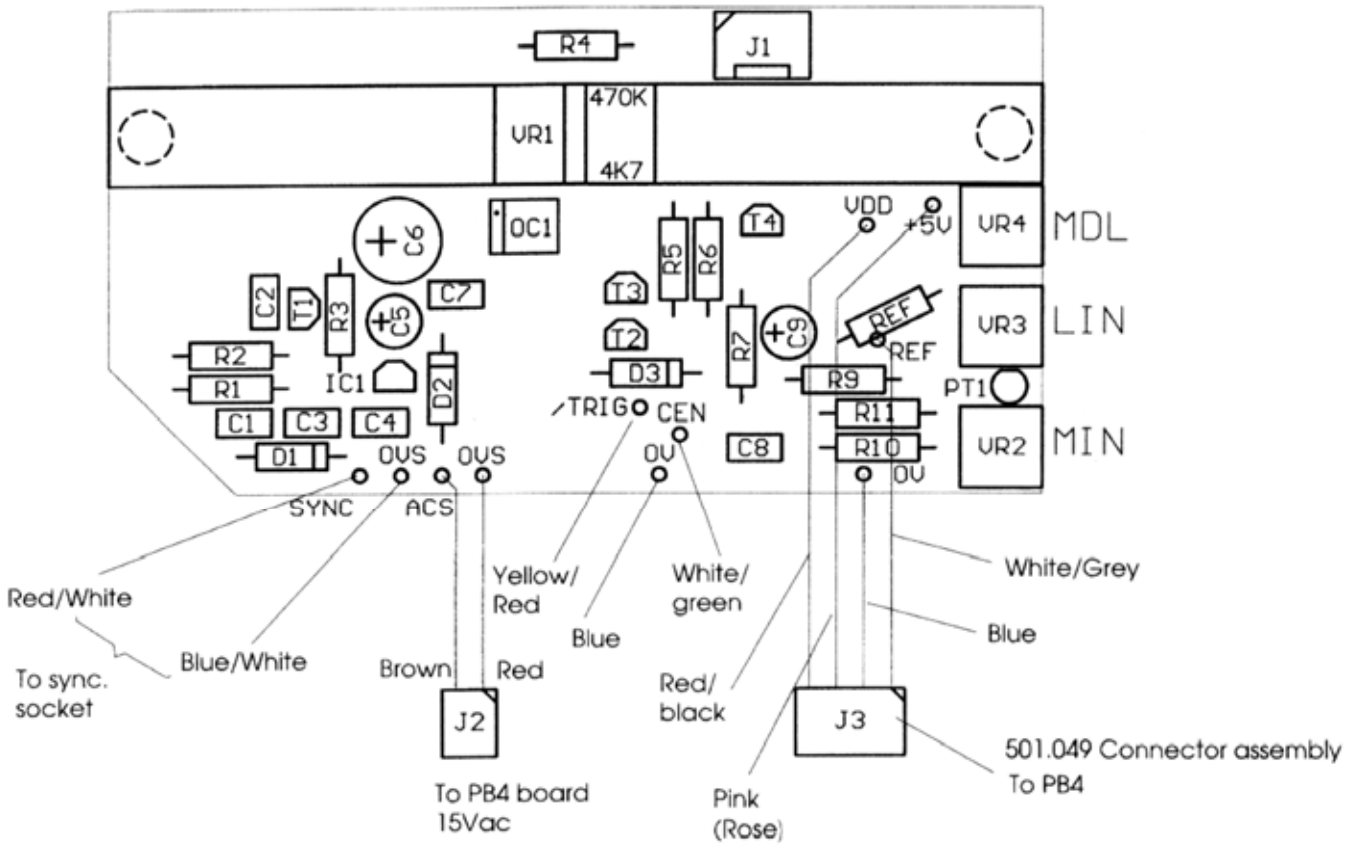
SYNCRONISATION and VARIATOR FLASH/MODELLING

Part Nb	Qty	Part	Identification
104.007	2	10nF	C1 C2
104.015	4	100nF	C3 C4 C7 C8
104.029	1	10µF/16V	C5
104.102	1	1µF/35V	C9
105.028	1	PT361(optocoupler)	PT1
105.051	2	1N4148 diode (75 V/150mA)	D1 D3
105.063	1	78L12 12V Regulator	IC1
105.139	1	PC123FY (optocoupler)	OC1
105.153	1	J177	T6
109.027	1	4K7+470K Dual potentiometers	VR1
109.029	2	2K (potentiometers)	VR2 VR3
109.030	1	200K (potentiometer)	VR4
110.081	4	Contact Molex	J3
110.112	1	3pM Molex	J1
110.132	1	4pF Molex	J3
121.001	1	0R (jump)	REF
121.103	1	10K	R6
121.104	2	100K	R4 R5
121.105	1	1M	R1
121.222	1	2K2	R10
121.223	3	22K	R2 R7 R9
121.331	1	330R	R3
121.471	1	470R	R11
14009	1	1N4007 diode 1A/1000V	D2
14012	3	BC547 NPN transistor	T2 T3 T4
14013	1	BC557 PNP transistor	T1
14052	1	220µF/25 V	C6
14086	1	Printed board without elements	
211.105	2	M3 x 5 mm screws	VR1
501.031	1	Câble Synchro	J2
101.090	1	Fil 0.25 mm^2 Blue L = 100 mm	0V
101.140	1	Fil 0.25 mm^2 Pink L = 130 mm	+5V
101.141	1	Fil 0.25 mm^2 White/Grey L = 115 mm	REF
101.150	1	Fil 0.25 mm^2 Red/Black L = 125 mm	VDD

14395 PB5 Assembly For 300 and 600

SYNCRONISATION and VARIATOR FLASH/MODELLING



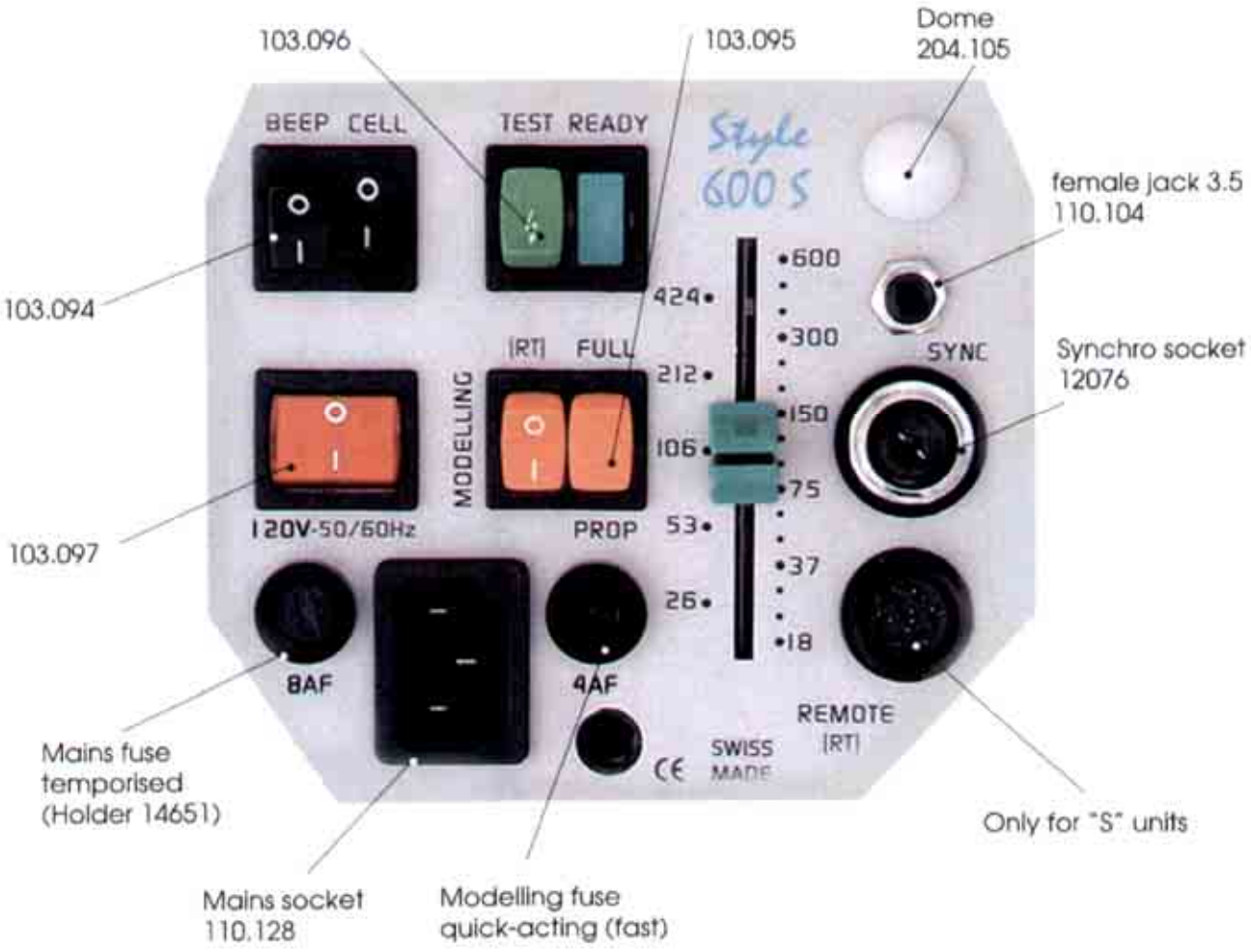


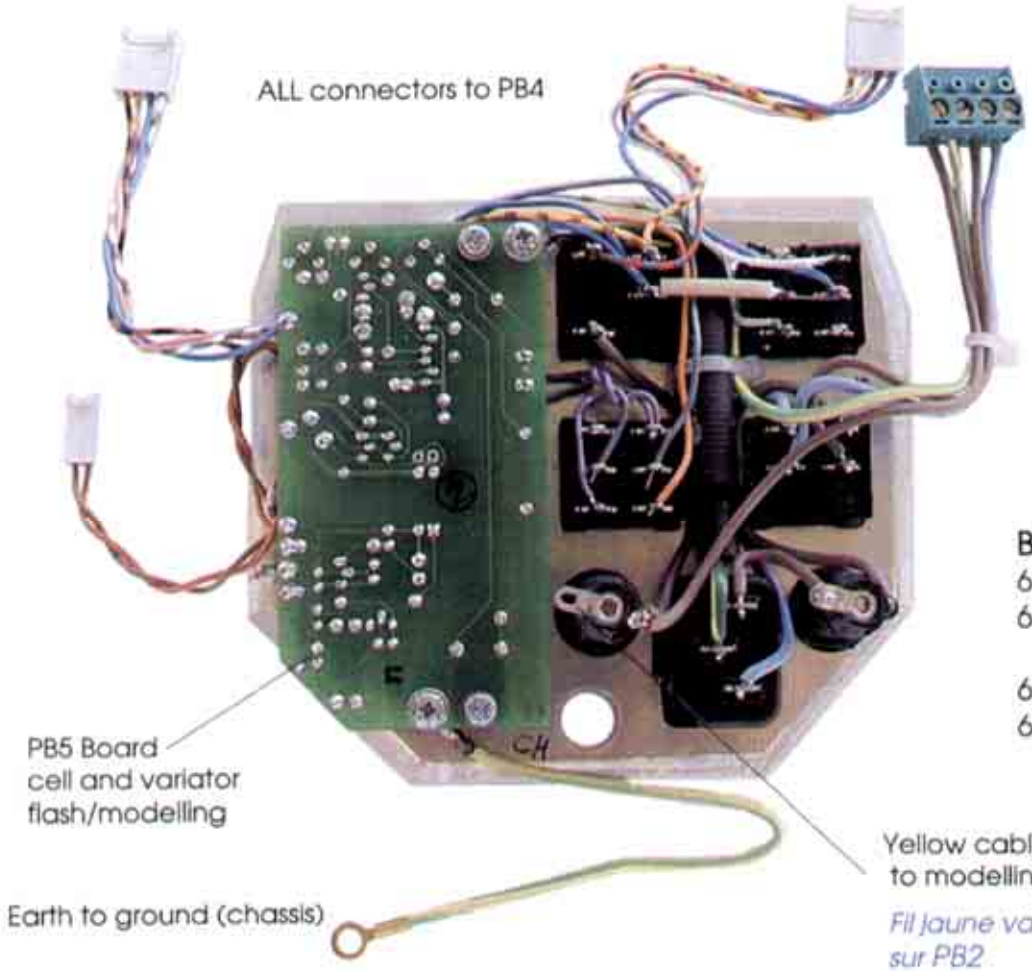
Vers PB4 15Vac

MODELLING ADJUSTMENT
Adjustment 52 VRMS at line 115V/ 60Hz, between the yellow thread and the black conductor of the lamp socket BA15D

FLASH ADJUSTMENT Style 300 and 600 only
1* adjust VR1 (PB4) full power MAX : 595 max 600 V
2* adjust VR2 (PB5) mini power MINI : 215 V
3* adjust VR3 (PB5) medium (linearity) : 350 V
4* verify full power with VR1 (PB4)

Panel control





Back Panels
659.010 (600 S)
659.009 (300 S)

659.013 (600)
659.012 (300)

REMOTE CONTROL
Fernbedienung für Style S
Télécommande pour Style S

19328 for *Style 300 S*

19329 for *Style 600 S*

19330 for *Style 1200 S*

19331 Universal remote for all *Style*

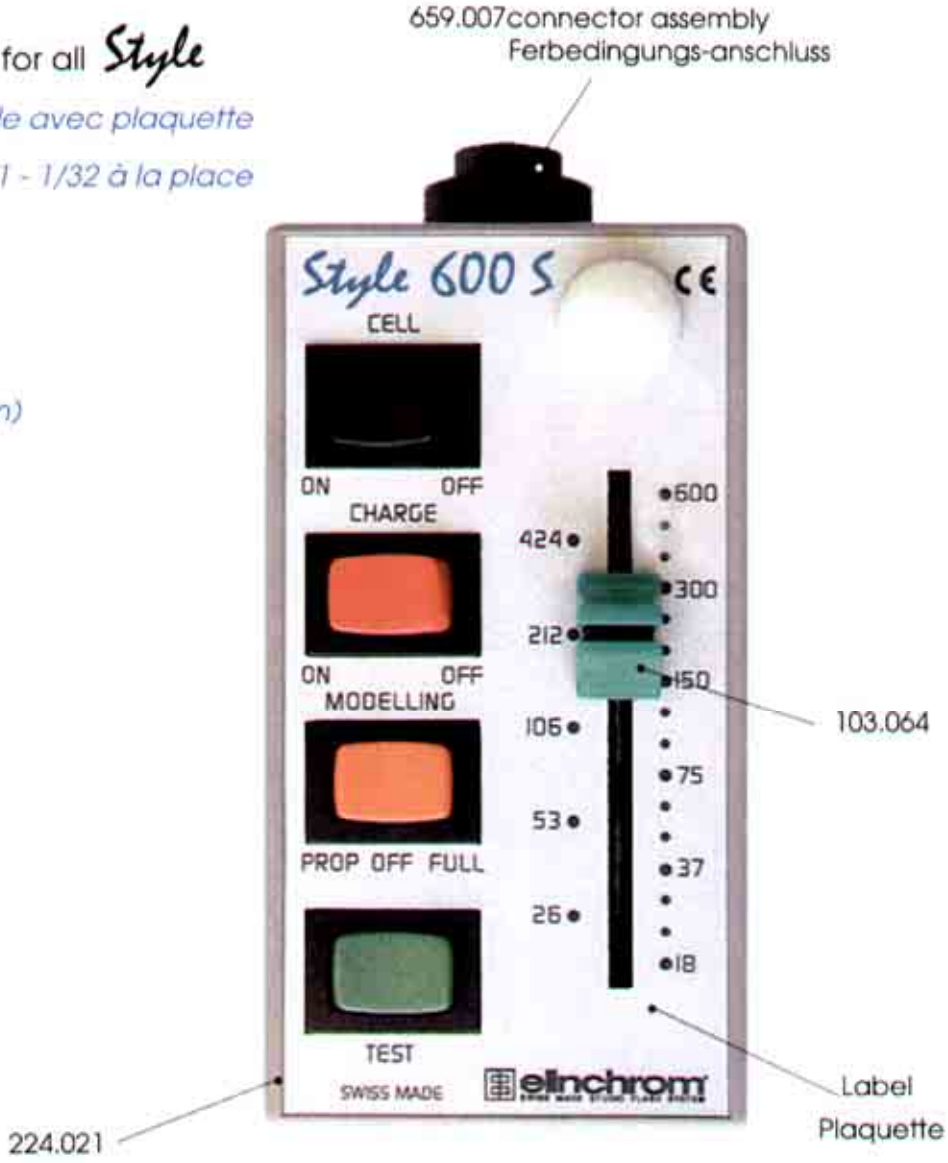
Télécommande universelle avec plaquette exprimée en fractions (1/1 - 1/32 à la place de joules)

11085 cord 1.2 m

(Câble de liaison de 1,2 m)

11086 cord 2.4 m

11087 cord 4.8 m



Part Nb	Qty	Part
224.021	1	Complete casing *(boîtier complet)*
211.885	4	22 x 8 KA Screws *(vis 22 x 8 type KA)*
659.007	1	Socket assembly *(connecteur assemblé)*
103.064	1	Green button for sliding *(bouton vert du potentiomètre)*
224.200	1	Label 300 S self-adhesive *(plaquette autocollante)*
224.201	1	Label 600 S self-adhesive
224.202	1	Label 1200 S self-adhesive
224.203	1	Universal Label "self-adhesive" (universal remote)

14390 REMOTE Assembly Board

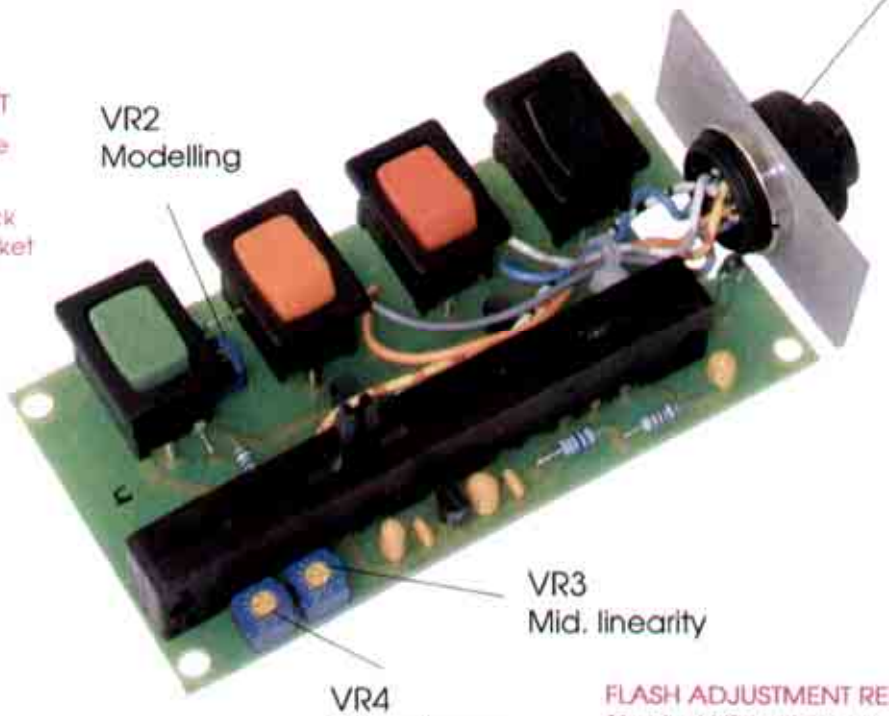
For STYLE 300S/600S/1200S (120 V)

Part Nb	Qty	Part	Identification
103.098	1	Switch ON-ON RED	S2
103.099	1	Switch ON-ON BLACK	S3
103.100	1	Switch ON-OFF-ON ORANGE	S1
103.101	1	Switch MOM-OFF-MOM GREEN	S4
104.015	3	100nF	C1 C2 C6
104.029	2	10µF/16V	C3 C4
104.102	1	1µF/35V	C5
105.028	1	PT361 (phototransistor)	PT1
105.051	1	1N4148 diode 75V/150mA	D1
105.089	1	LP2950AC	IC1
109.023	2	2K (potentiometers)	VR3 VR4
109.027	1	4K7+470K Dual potentiometers	VR1
109.031	1	200K (potentiometer)	VR2
120.001	1	OR (jump)	JP1
121.102	1	1K	R6
121.103	1	10K	R5
121.104	2	100K	R1 R4
121.223	2	22K	R2 R3
121.471	1	470R	R7
14012	3	BC547 NPN transistor	T1 T2 T3
211.105	2	Vis M3x5 (screw)	VR1
14090	1	PCB nu (only)	

Connector only
110.138

MODELLING ADJUSTMENT

Adjustment 115 VRMS at line 115V/50Hz, between the yellow thread and the black conductor of the lamp socket BA15D

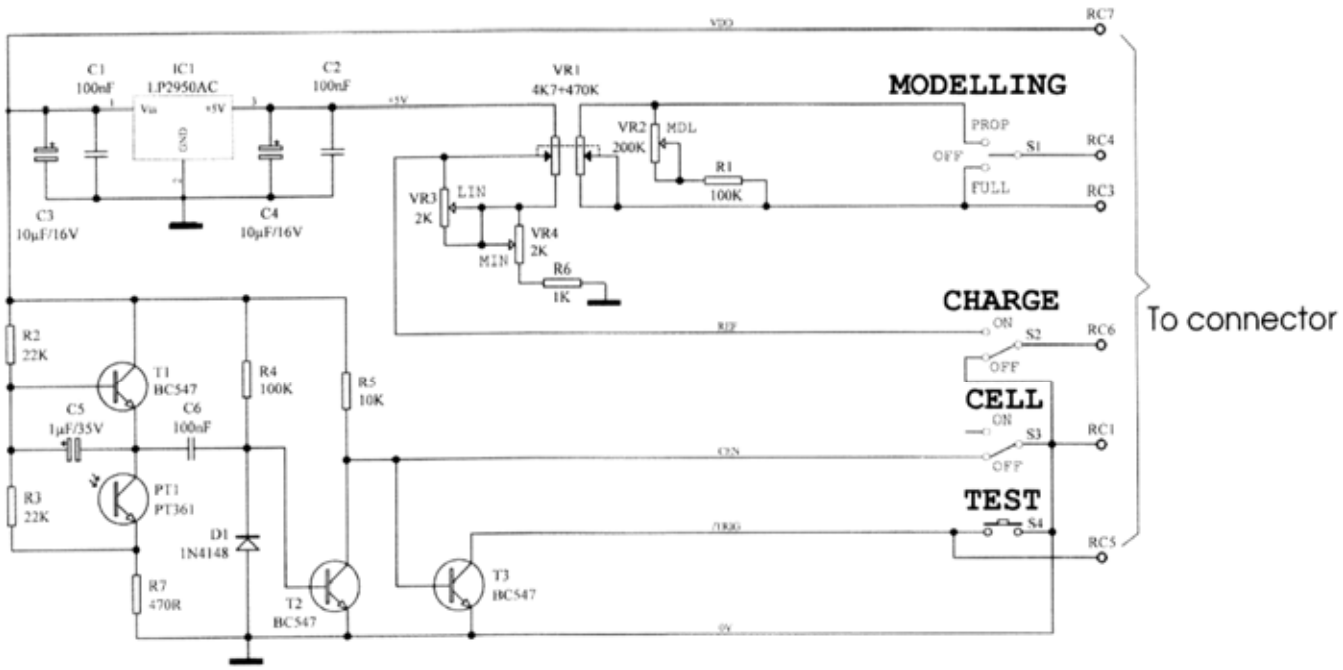


FLASH ADJUSTMENT REMOTE

1° adjust VR4 mini power MINI : 160 V

2° adjust VR3 medium (linearity) : 310 V

14390 REMOTE Assembly
For STYLE 300 S/600 S/1200 S (120 V)



ADJUSTING THE MODELLING LIGHT

The orange-coloured switch situated on the back panel has to be on the position RT

This adjustment brings the light intensity from full (1/1) down minimum (1/32) with the trimmer VR2.

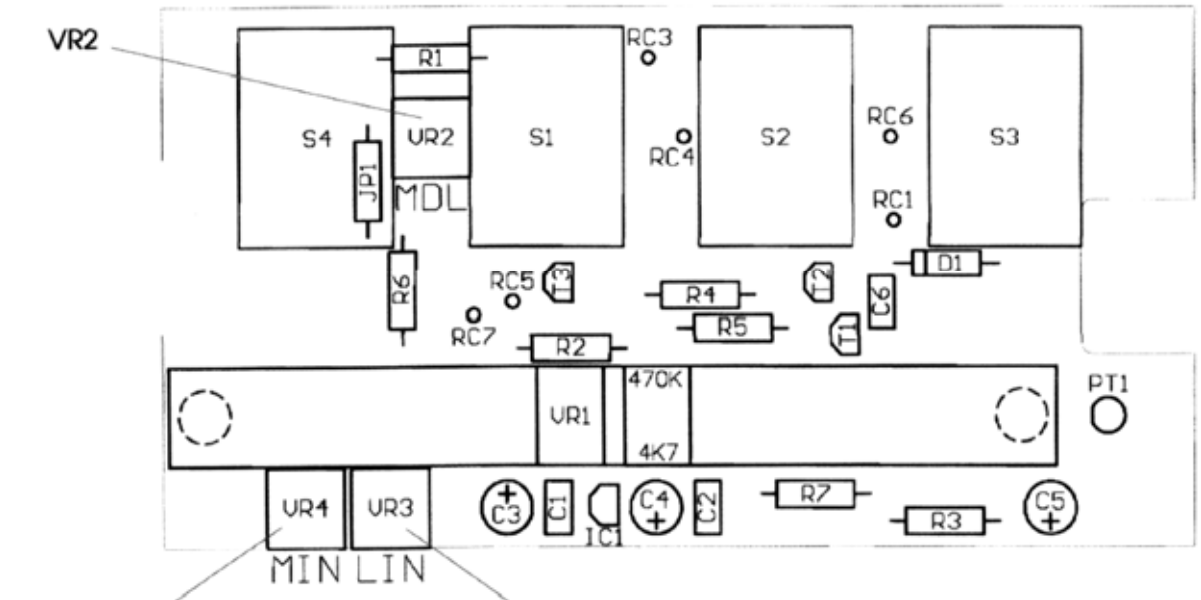
1. Measure the voltage with a voltmeter VRMS in VAC mode.

2. Modelling light selector : light ON

3. Adjustment 115 VRMS at line 115 V/60Hz, between the yellow thread and the black conductor of the lamp socket BA15D

Réglage de la pilote

Mettre au minimum de puissance au 1/32 et régler la tension à 115 VRMS à l'aide de VR2.
Le voltmètre doit être raccordé entre le fil jaune et le fil noir de la douille de lampe BA15D
(sur le compact Style l'interrupteur orange doit être sur la position RT)



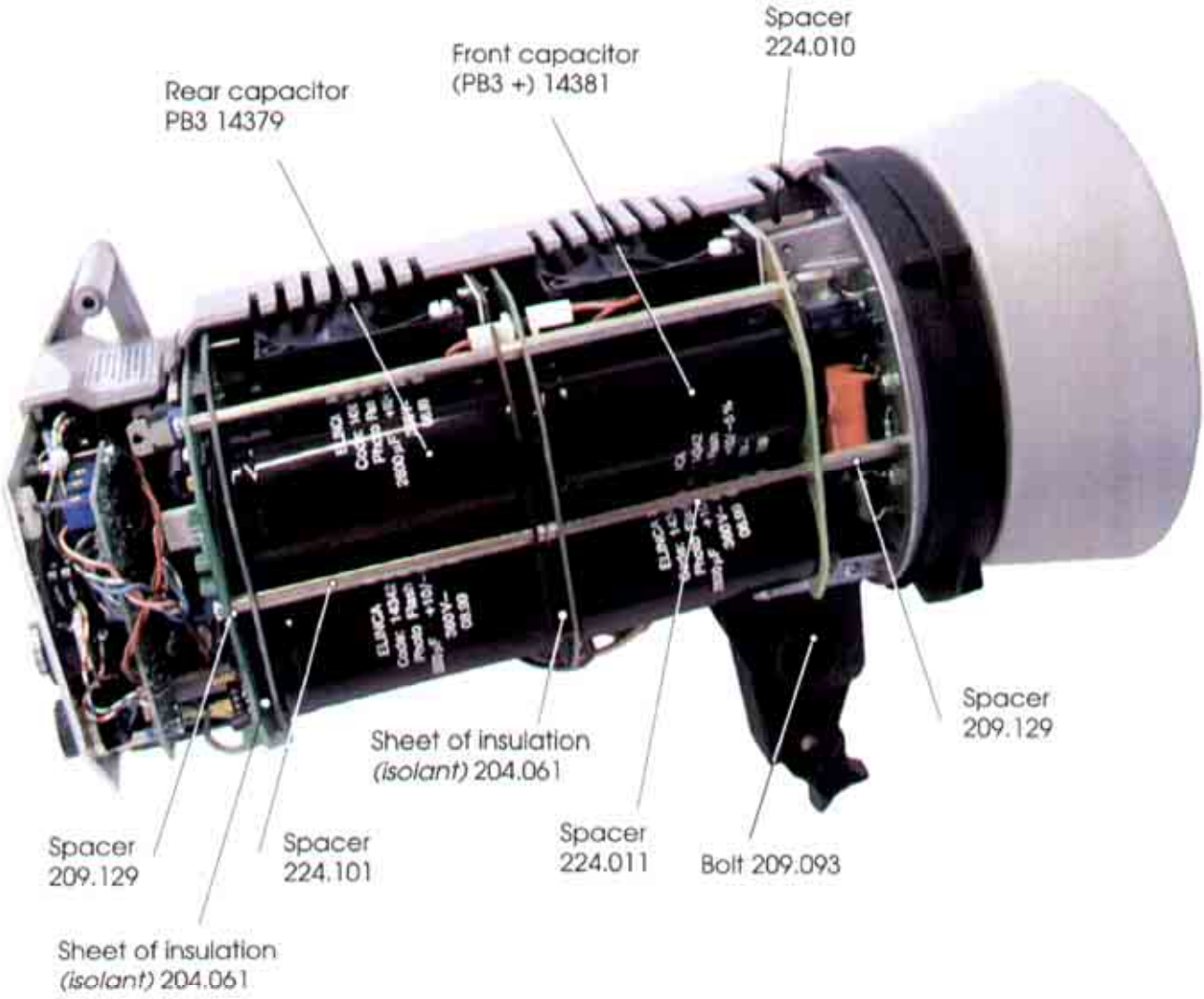
FLASH ADJUSTMENT

1° adjust VR4 mini power MINI : 160 V

2° adjust VR3 medium (linearity) : 310 V

Style 1200 S

Power 1200Ws



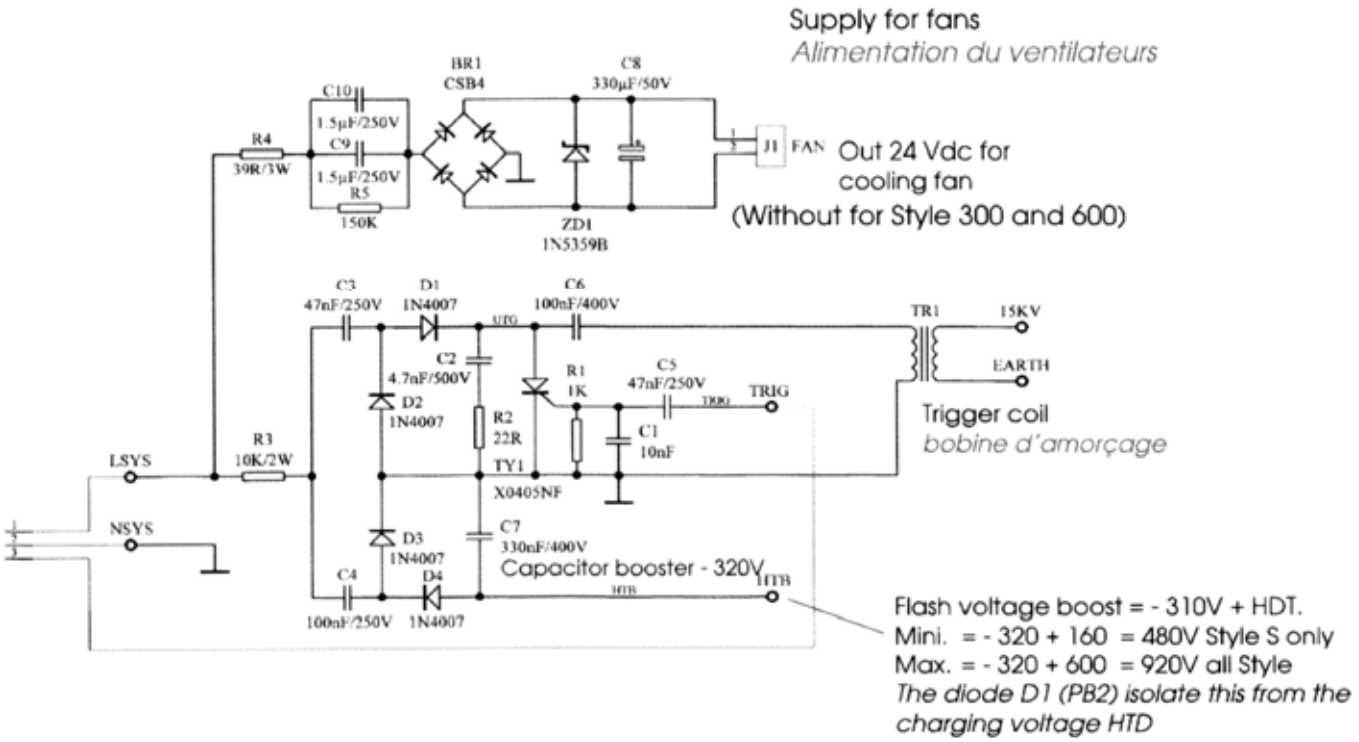
Style 1200 S

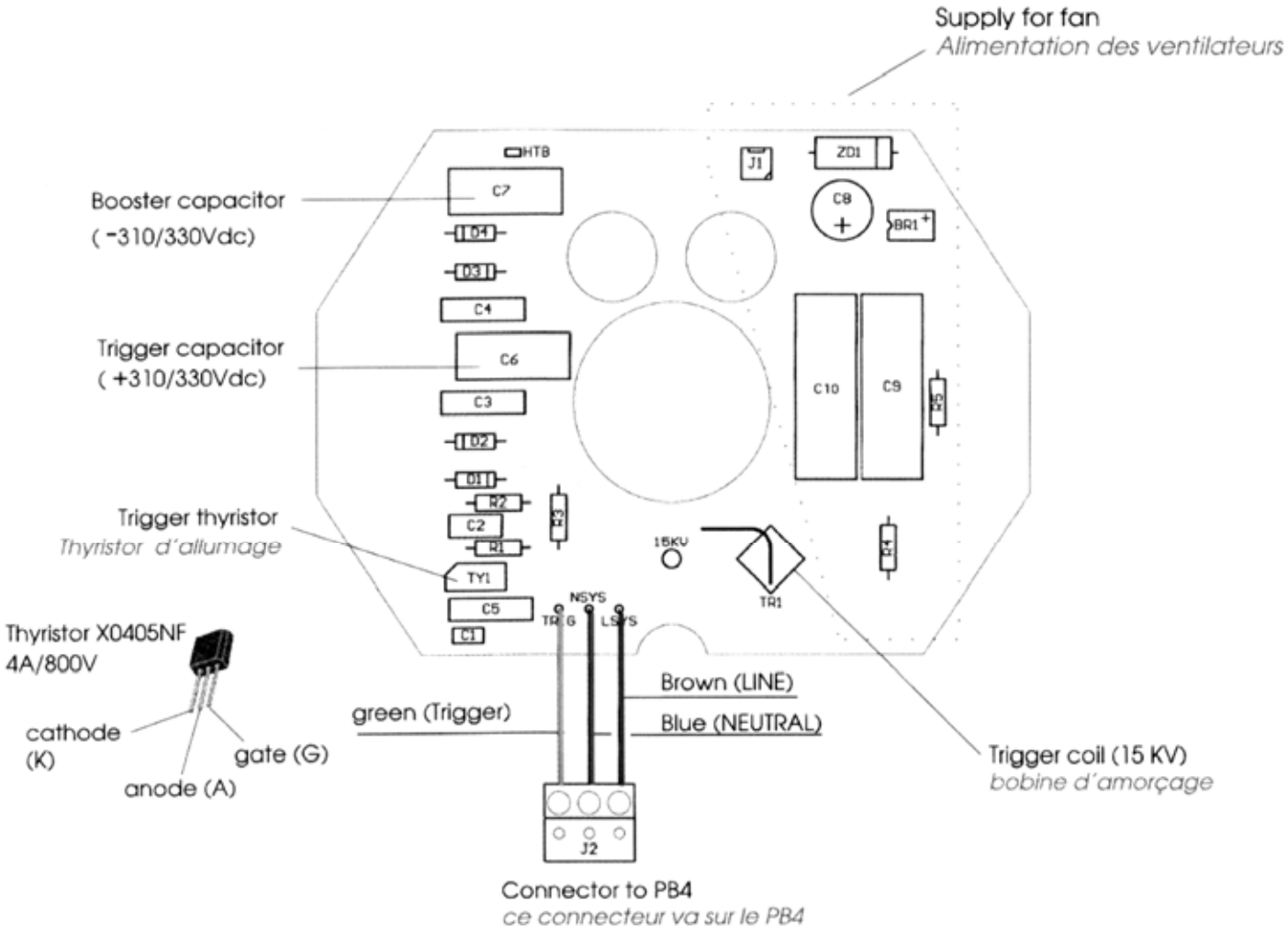

Rubber handle
219.008
Fixing screw M3 x 50
211.853
Housing part left
and right 224.100 Set
Fan 659.008
Fixing screw M3 x 6
211.201(4 x)
Plug-in flash
tube 24068
Inner reflector
224.028
Back Panel
659.011
Screw
211.221
Security nut
203.031
Modelling 250W
23038
(socket BA15D)
Set front ring +
locking device
620.204
Umbrella tube
224.102
Star screw
206.036
Trigger
contact fork
224.017

14393 PB1 Style 1200 S Assembly board
Trigger + booster and supply fan

Part Nb	Qty	Designation	Identification
100.060	1	Trigger coil ZS1052/1	TR1
104.006	1	4.7nF/500V capacitor	C2
104.007	1	1 0nF	C1
104.012	1	47nF/250 V	C5
104.017	1	100nF/400 V	C6
104.025	2	1uF/400 V	C9 C10
104.124	1	330nF/400 V	C7
105.011	1	1 N5359B (24 V/5W zener diode)	ZD1
105.057	1	CSB4 (rectifier bridge)	BR1
105.116	1	X0405NF (thyristor)	TY1
110.072	1	Fan connector	J1
110.134	1	Connector with screws (3 positions)	J2
111.038	1	39R/3W resistor	R4
111.065	1	1 0K/2W resistor	R3
112.056	1	Eyelet trigger output	15KV
112.071	1	LP2.8 (tab 2.8 mm)	HTB
121.102	1	1K resistor	R1
121.220	1	22R resistor	R2
121.394	1	390K	R5
14009	2	1N4007 (1A/1000 V diode)	D1 D4
14053	1	330µF/50 V electrolytic capacitor	C8
500.600	1	Gaine PVC ø 6 x 50 mm (insulation)	
500.432	1	Fil 0.5 mm² Brown L = 290 mm	LSYS
500.433	1	Fil 0.5 mm² Blue L = 290 mm	NSYS
500.434	1	Fil 0.5 mm² Green L = 290 mm	TRIG
14082a	1	Board whitout components	

14393 PB1 for Style 1200 S
Trigger + booster and supply fan





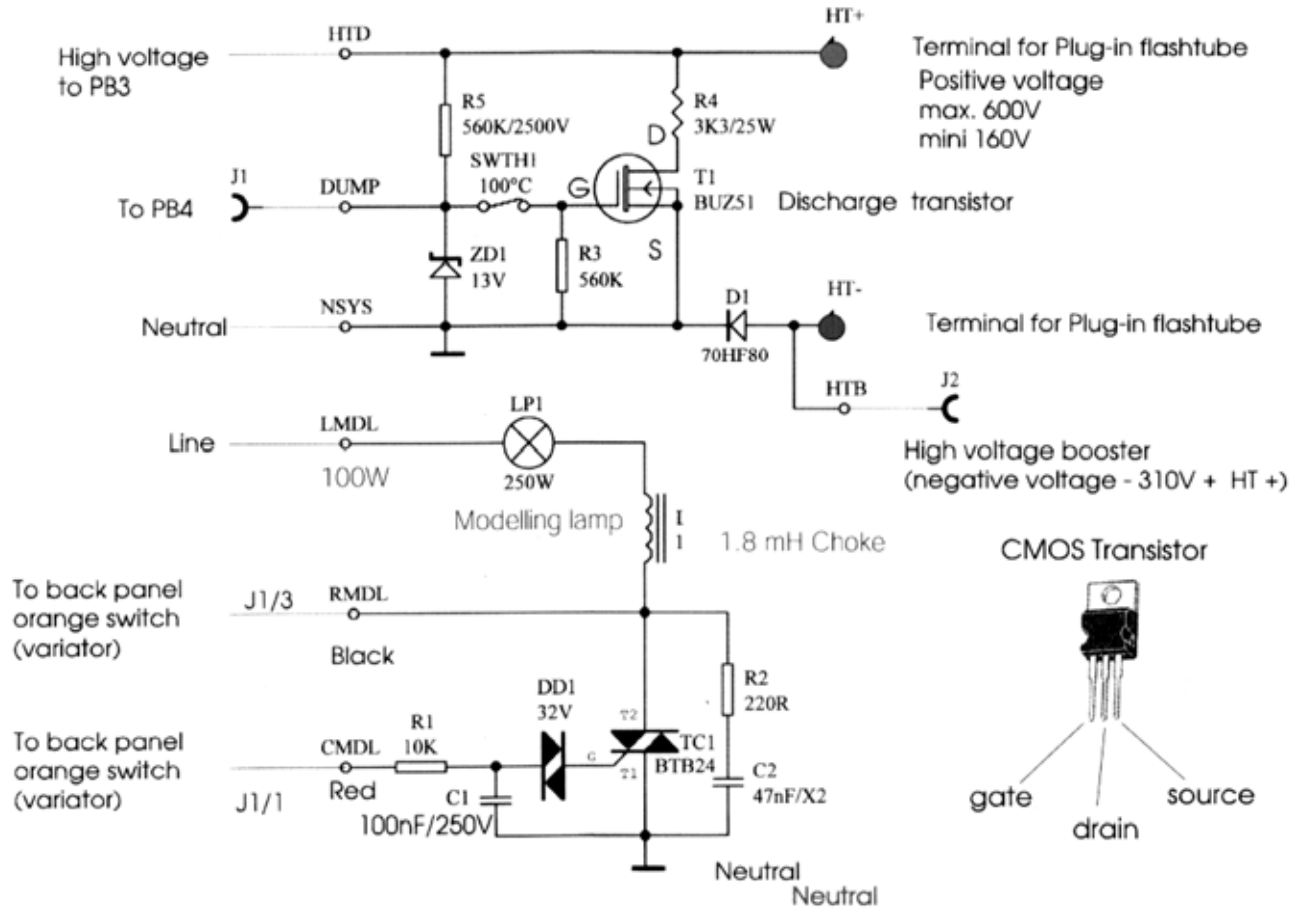
14397 PB2 for Style 1200 S

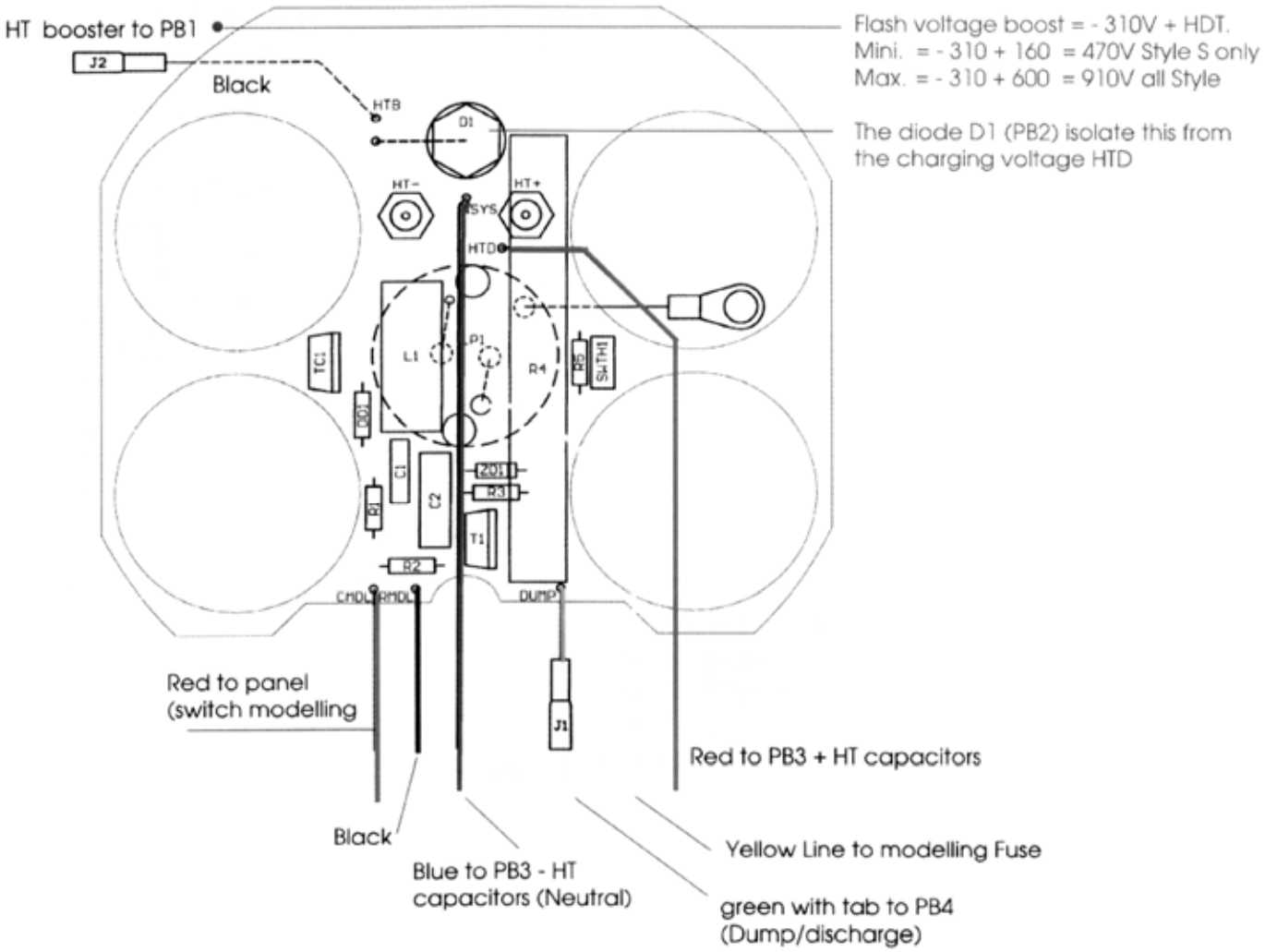
Modelling lamp and Dump (120V)

Part Nb	Qty	Part	Identification
100.047	1	1,8 mH/2.5A Self (disturbances choke)	L1
101.229	1/3	SIL 12 X 50 insulation tube)	R4
104.013	1	47nF/X2 (capacitor)	C2
104.016	1	100nF/250 V	C1
105.006	1	13V zener diode	ZD1
105.049	1	BTB24 triac (24A/800V)	TC1
105.087	1	70HF80 Power diode	D1
111.524	1	3K3/25W (discharge resistor)	R4
112.099	1	Socle BA15D (Lampholder BA15D)	LP1
112.076	2	2.8 x 0.8 mm soldering lug)	J1 J2
112.101	2	Terminal for Plug-In flash tube	HT+ HT-
121.103	1	10K	R1
121.229	1	220R	R2
121.564	1	560K/2500 V	R5
121.569	1	560K	R3
203.010	2	M5 Nut for terminal flash tube	HT+ HT-
203 031	1	M3 Security nut	LP1
204.128	1	Toroïdal ring (for 100.047)	L1
209.132	2	Spacer ø 8x5	R4
209.134	2	Hexagonal Spacer M3 x 22	LP1
210.004	2	Security washer	HT+ HT-
210.119	1	Rondelle M6 x 0.8 (washer)	D1
211.203	4	M3 x 8 screw	LP1
14015	1	Diac 32 V	DD1
14032	1	100°C Thermal switch	SWTH 1
14033	1	BUZ51or ST 4N100 Transistor Mos	T1
14083a	1	Printed boardwithout elements	
500.439	1	Fil 0.75 mm^2 Black L = 40mm	D1
500.440	1	Fil 0.75 mm^2 Red L =180 mm	HTD
500.441	1	Fil 0.75 mm^2 Blue L =190 mm	NSYS
500.443	1	Fil 0.5 mm^2 Green L =240 mm	DUMP
500.442	1	Fil 0.5 mm^2 Black L = 290 mm	RMDL
500.444	1	Fil 0.5 mm^2 Black L = 40 mm	HTB
500.445	1	Fil 0.5 mm^2 Red L = 290 mm	CMDL
500.446	1	Fil 0.5 mm^2 Yellow L = 300 mm	LMDL

14397 PB2 for Style 1200 S

Modelling lamp and Dump

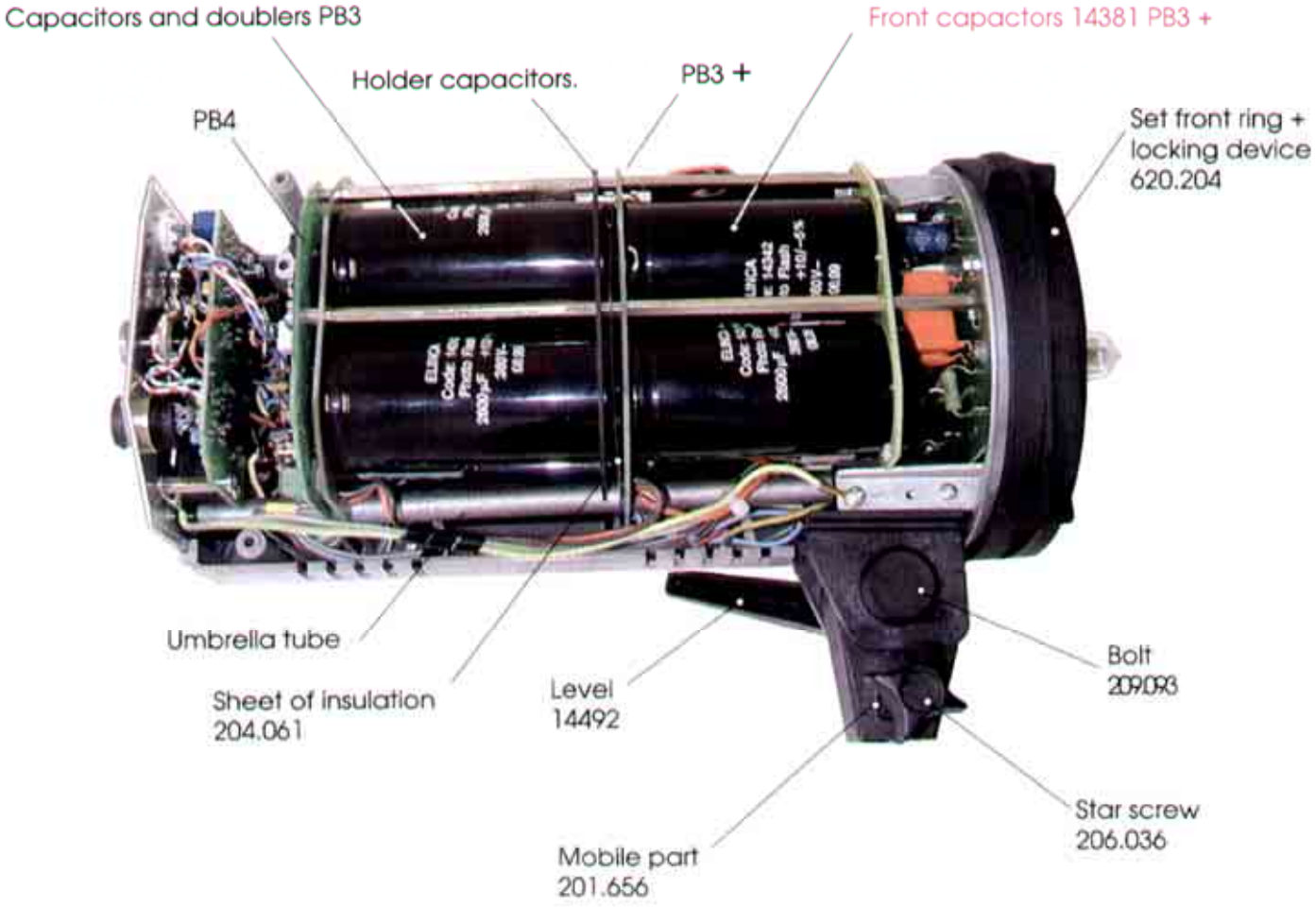




14381 PB3 + Assembly (120V and 230 V)

Front capacitors assembly for 1200 S only

Part Nb	Qty	Part	Identification
14088	1	PCB (without elements)	
14342	4	2600µF/360V (Flash capacitors)	C1 C2 C3 C4
110.130	1	1/6SL 11/240/12 Z modified (Headers/*connecteur*)	J1
501.038	1	Cable with 2PF connector Molex L = 130 mm	J2
500.276	1	Red cable 0.75 mm² x 150 mm	HDT
500.451	1	Blue cable 0.75 mm² x 150 mm	NSYS
500.452	1	Black cable 0.50 mm² x 150 mm	HT/2



14381 PB3 + Assembly (230 V)

Front capacitors assembly for 1200 S only

Groupe frontal de condensateurs pour 1200 S