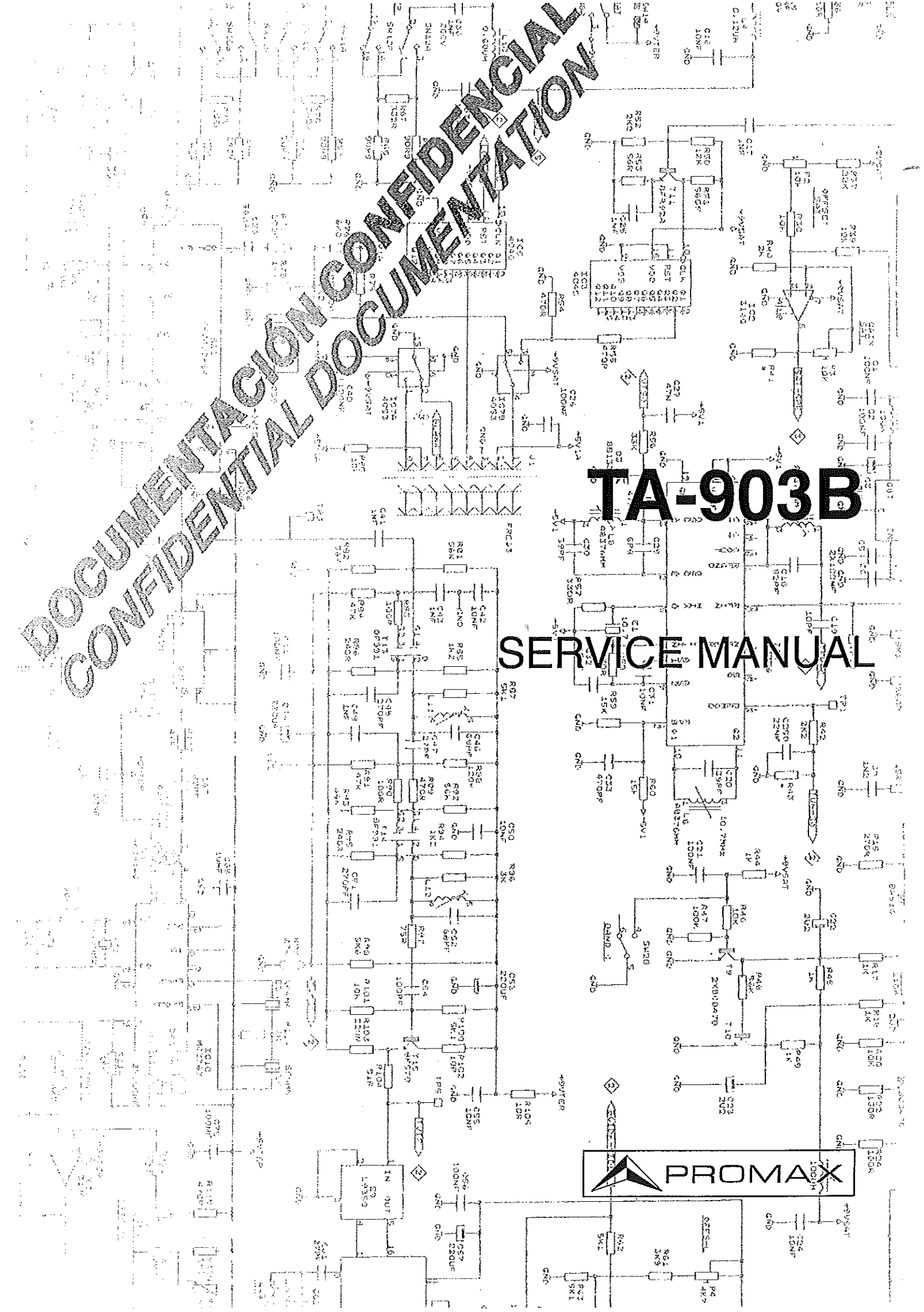


DOCUMENTACIÓN CONFIDENCIAL
CONFIDENTIAL DOCUMENTATION

TA-903B

SERVICE MANUAL



ADJUSTMENT AND VERIFICATION PROCEDURES

TA-903B

Hospitalet

8-10-1998

V.3

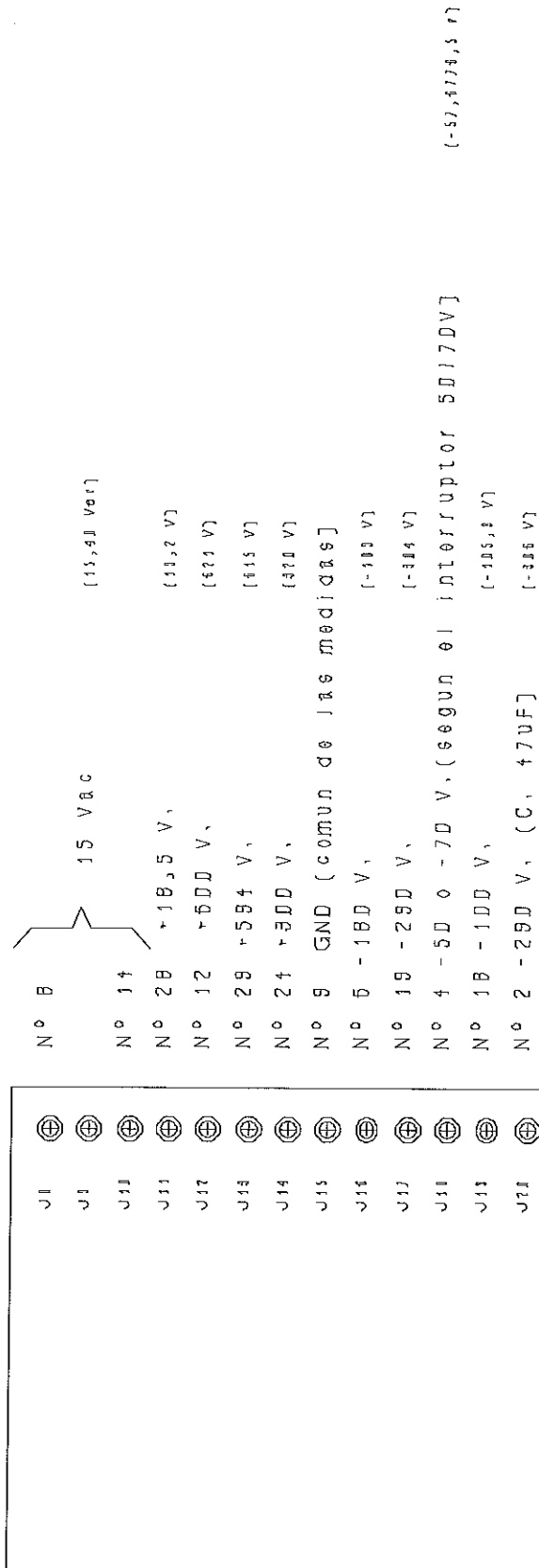
INSTRUMENTS REQUIRED

- Digital multimeter of 3 1/2 digits or better.
- Oscilloscope.
- 300 k Ω , 1 W resistor.

START UP AND ADJUSTMENT

- With the **POWER [6]** button at the ON position and the appliance disconnected from the mains supply, check total insulation between phases and ground.
- Adjust the mechanical zero of the three measuring instruments **R, G and B [2]**.
- Move all the sliding switches (RESTORER CURRENT, CUT OFF VOLTAGE...) to its left position.
- Turn all the adjusting potentiometers of the printed circuit board to the middle of its excursion.
- Connect the appliance to the mains supply. The neon indicator **POWER [5]** should light. Measure following voltages at the power supply circuit:

TENSIONES CIRCUITO IMPRESO ALIMENTACION



VISTO LADO SOLDADURAS

Check heater voltages:

- 1 Press **HEATER VOLTAGE 6,3V** (SW1) [19] and **SHORTS** (SW3) [18] keys. Measure 7.5 V AC approx. between H (pin6-J1) and H1(pin4-J1) at the **SOCKET** (J1) [9] connector.
- 2 Press **LIFE TEST** [13] key. Check heater voltage decreases up to 0.5 V AC approx.
- 3 Press **HEATER VOLTAGE 12V** (SW2) [19] and **SHORTS** (SW3) [18] keys. Measure 13 V AC approximately between H (pin6-J1) and H1 (pin4-J1) pins.
- 4 Press **LIFE TEST** [13] button. Check heater voltage decreases up to 1 V AC approximately.
- 5 Press **B/W B** (SW8) [23] key and the **RESTORER START** [10] button. Check heater voltages rises up to 2 V approximately when selected HEATER VOLTAGE is 6,3V (SW1) [19] and rises up to 4 V approximately when selected HEATER VOLTAGE is 12 V (SW2) [19] (16V approximately.).
- 6 Press the **G1 Variable**(SW5) [20] key only and move the **CUT OFF VOLTAGE** [25] sliding switch to **300 V** position. Using the multi-meter measure voltage between B (pin1-J1) and G2 (pin3-J1). Check voltage varies between 30 and 300V when turning the **CUT OFF SET**(P3/P4) [26] potentiometer.
- 7 Move the **CUT OFF VOLTAGE** [25] sliding switch to **600V** position. Check voltage between B (pin1-J1) and G2 (pin3-J1), varies between 300 and 600 V when turning the **CUT OFF SET**(P3/P4) [26] potentiometer.
- 8 Press the **CUT OFF** (SW6) [21] key and move the **CUT OFF VOLTAGE** [25] sliding switch to **300 V** position. Using the multimeter, measure the voltage between B (pin1-J1) and G2 (pin3-J1). Check voltage varies between 30 and 300 V when turning the **CUT OFF SET**(P3/P4) [26] potentiometer.
- 9 Move the **CUT OFF VOLTAGE** [25] sliding switch to **600V** position. Check voltage between B (pin1-J1) and G2 (pin3-J1) varies between 300 and 600 V when turning **CUT OFF SET** (P3/P4) [26] potentiometer.
- 10 Push **EMISSION TEST** (SW7) [22] key and move the **CUT OFF VOLTAGE** [25] sliding switch to **300 V** position. Using the multimeter measure voltage between B (pin1-J1) and G2(pin3-J1). Check voltage varies between 30 and 300 V when turning the **CUT OFF SET** (P3/P4) [26] potentiometer.
- 11 Move the **CUT OFF VOLTAGE** [25] sliding switch to **600 V** position. Check voltage between B (pin1-J1) and G2 (pin3-J1) varies between 300 and 600 V when turning **CUT OFF SET** (P3/P4) [26] potentiometer.
- 12 Press **RESTORER B/W-R** (SW8) [23] key. You should measure -600 V approx. between G2 (pin3-J1) and R (pin7-J1).
- 13 Press **RESTORER G** (SW9) [23] key. You should measure -600 V approx. between G2 (pin3-J1) and G(pin8-J1).

- 14 Press **RESTORER B** (SW10) [23] key. You should measure -600 V approximately between **G2**(pin3-J1) and **B**(pin1-J1).
- 15 Press **SHORTS** (SW3) [18] key. You should measure -130 V approximately between **B** (pin3-J1) and **G1**(pin2-J1).
- 16 Press **REMOVE G1 SHORTS** (SW4) [17] key. You should measure 0 V between **B** (pin3-J1) and **G1**(pin2-J1). When pressing the **G1-K SHORT REMOVE** [16] button you should measure -290 V approx. between **B** (pin3-J1) and **G1**(pin2-J1).
- 17 Press **G1 VARIABLE** (SW5) [20] key. When turning **G1 VOLTAGE** (P1) [27] potentiometer you should measure from -100 to 0 V approximately between **B** (pin3-J1) and **G1**(pin2-J1).
- 18 Press **CUT OFF** (SW6) [21] key.
When the **G1 BIAS** [15] sliding switch is at **-50V** position, voltage between **B** (pin3-J1) and **G1** (pin2-J1) should be -50 V approximately.
When the **G1 BIAS** [15] sliding switch is at **-70V** position, voltage between **B** (pin3-J1) and **G1** (pin2-J1) should be -70 V approximately.
Press the **COLOUR TRACKING (CUT OFF)** [14] button, you should measure -4V approximately between **B**(pin3-J1) and **G1**(pin2-J1).
- 19 Press **EMISSION TEST** (SW7) [22] key. You should measure 0 V approximately. between **B**(pin3-J1) and **G1**(pin2-J1).
- 20 Press **RESTORER B/W R** (SW8) [23] key. Set oscilloscope probe at 10/1 position. Using the oscilloscope, measure signal between **G1** (pin2-J1) and ground at **R** (pin7-J1). Press the **RESTORER START** [10] button, then the **RESTORER ON** (DL7) [11] led must light. Maximum signal voltage should be 300 V and period should oscillate between 54 μ s and 74 μ s approximately.

- Press **RESTORER G**(SW9) [23] and check the same signal, but now connect probe ground to **G**(pin8-J1).
- Press **RESTORER B**(SW10) [23] and check the same signal, but now connect probe ground to **B**(pin1-J1).

- 21 Check displays. Press **SHORTS**(SW3) [18] and **HEATER VOLTAGE 6,3V**(SW1) [19] keys. Make a short-circuit between the following pins:

Pin	SHORTS neons should light [24]
H1 (pin4-J1) and B (pin1-J1)	F and B
H1 (pin4-J1) and G (pin8-J1)	F and G
H1 (pin4-J1) and R (pin7-J1)	F and R
G1 (pin2-J1) and B (pin1-J1)	G1 and B
G1 (pin2-J1) and G (pin8-J1)	G1 and G
G1 (pin2-J1) and R (pin7-J1)	G1 and R
G1 (pin2-J1) and G2 (pin3-J1)	G1 and G2

- 22 Press **EMISSION TEST**(SW7) [22] and **HEATER VOLTAGE 6,3V**(SW1) [19] keys. Make a short-circuit between **B**(pin1-J1) and **FOCUS**(pin5-J1). Check neon indicator **FOCUS** [8] lights and that **B Meter** [2] is in the middle of its scale (approx.).
- 23 Press **EMISSION TEST**(SW7) [22] and **HEATER VOLTAGE 6,3V**(SW1) [19] keys. Make a short-circuit between **FOCUS**(pin5-J1) and **R**(pin7-J1). Check that neon indicator **FOCUS** [8] lights and that **B/W R Meter** [2] is in the middle of its scale (approx.).
- 24 Press **EMISSION TEST**(SW7) [22] and **HEATER VOLTAGE 6,3V**(SW1) [19] keys. Make a short-circuit between **FOCUS**(pin5-J1) y **G**(pin8-J1). Check that neon indicator **FOCUS** [8] lights and that **G Meter** [2] is in the middle of its scale (approx.).

Current test. Instruments full scale deviation (f.s.d.) adjustment.

- 25 Press **EMISSION TEST**(SW7) [22] and **HEATER VOLTAGE 6,3V**(SW1) [19] keys. Connect a milliammeter and a 300k 1 W resistor in series between **G2**(pin3-J1) and **R**(pin7-J1). Adjust **CUT OFF SET**(P3/P4) [26] potentiometer to obtain 1.6 mA. Adjust **P1** (B3 PCB) in order to **B/W-R Meter** [2] instrument needle reaches f.s.d.. Check that turning **B/W.R**(P6) [3] frontal panel potentiometer, instrument needle changes its position slightly (several tenth parts).
- 26 Press **EMISSION TEST**(SW7) [22] and **HEATER VOLTAGE 6,3V**(SW1) [19] keys. Connect a milliammeter and a 300k 1W resitor in series between **G2**(pin3-J1) and **G**(pin8-J1). Adjust **CUT OFF SET**(P3/P4) [26] potentiometer to obtain 1.6 mA. Adjust **P2** (B3 PCB) in order to **G Meter** [2] instrument needle reaches f.s.d.. Check that turning **G**(P5) [3] frontal panel potentiometer, instrument needle changes its position slightly (several tenth parts).
- 27 Press **EMISSION TEST**(SW7) [22] and **HEATER VOLTAGE 6,3V**(SW1) [19] keys. Connect a milliammeter and a 300k 1W resitor in series between **G2**(pin3-J1) y **B**(pin1-J1). Ajust **CUT OFF SET**(P3/P4) [26] potentiometer until 1,6 mA. Adjust **P3** (B3 PCB) in order to **B Meter** [2] instrument needle reaches f.s.d.. Check that turning **B**(P7) [3] frontal panel potentiometer, instrument needle changes its position slightly (several tenth parts).
- 28 Press **RESTORER B/W-R**(SW8) [23] and **HEATER VOLTAGE 6,3V**(SW1) [19] keys. Set slidable switch in **RESTORER CURRENT** [12] in **50 mA**. Make a short-circuit between **G1**(pin2-J1) and **R**(pin7-J1). Press **RESTORER STAR** [10] push button and, an this moment, **RESTORER ON**(DL7) [11] led indicator should light. Regeneration cycle starts up. Adjust **P4** (B3 PCB) in order to **B/W R Meter** instrument needle readout oscillates between **1,3 and 1,6 mA** approx..

Set **RESTORER CURRENT** [12] slidable switch in **25 mA**. Press **RESTORER STAR** [10] push button (regeneration cycle starts up). Check that instrument needle readout oscillates between **0,7 and 1 mA** approx..

Press **RESTORER G**(SW9) [23] key. Make a short-circuit between **G1**(pin2-J1) and **G**(pin8-J1). Check that **G Meter** instrument needle readout oscillates between **1,3 and 1,6 mA** approx. (depending on if the **RESTORER CURRENT** [12] slidable switch is on **50 mA** or **25 mA**).

Press **RESTORER B**(SW10) [23] key. Make a short-circuit between **G1**(pin2-J1) and **B**(pin1-J1). Check **B Meter** [2] instrument needle oscillates between **1,3 and 1,6 mA** too, or **0,7 and 1 mA** depending on whether **RESTORER CURRENT** [12] slidable switch is set on **50 mA** or **25 mA**.

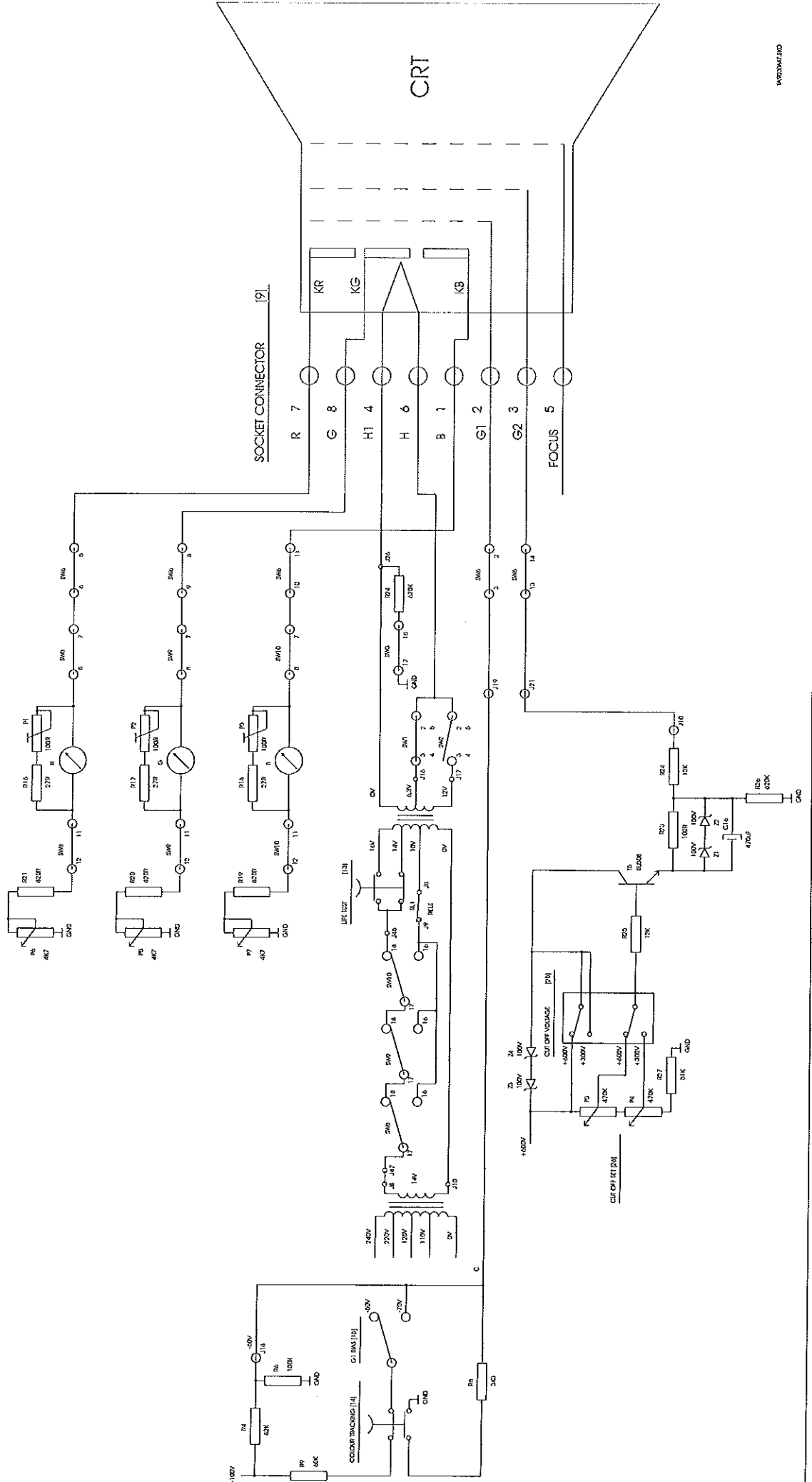
- 29 Press **EMISSION TEST**(SW7) [22] and **HEATER VOLTAGE 6,3V**(SW1) [19] keys. Pressing **RESTORER STAB** [10] push button starts regeneration cycle and **RESTORER ON**(DL7) should light. Adjust total duration to 75 s by means of **P1** (B2 Board). Adjust to 15 s the interval between each relay "CLICK" by means of **P2** (B2 board). Remember that first "CLICK" occurs 23 s from the start and the others between 14 and 15 s.
- 30 Press **EMISSION TEST**(SW7) [22]. Measured voltage between **ANODE** [4] and **B**(pin1-J1) should be +600V approx..

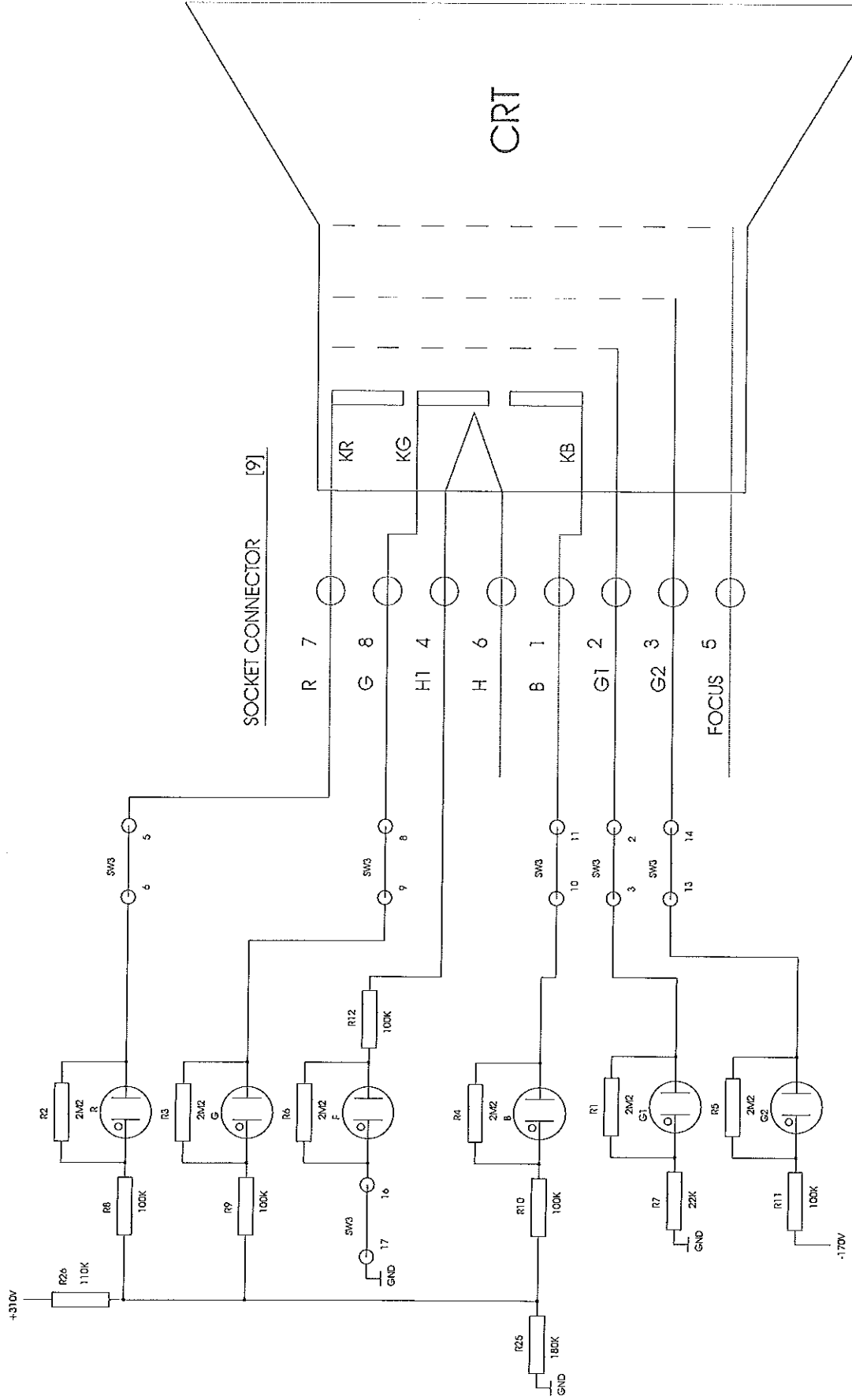
4.3 g Pubeoc TRACKING

PULSAR CUT OFF(SW6)

[21]

G1 BIAS [15], COLOUR TRACKING (CUT OFF) [14]

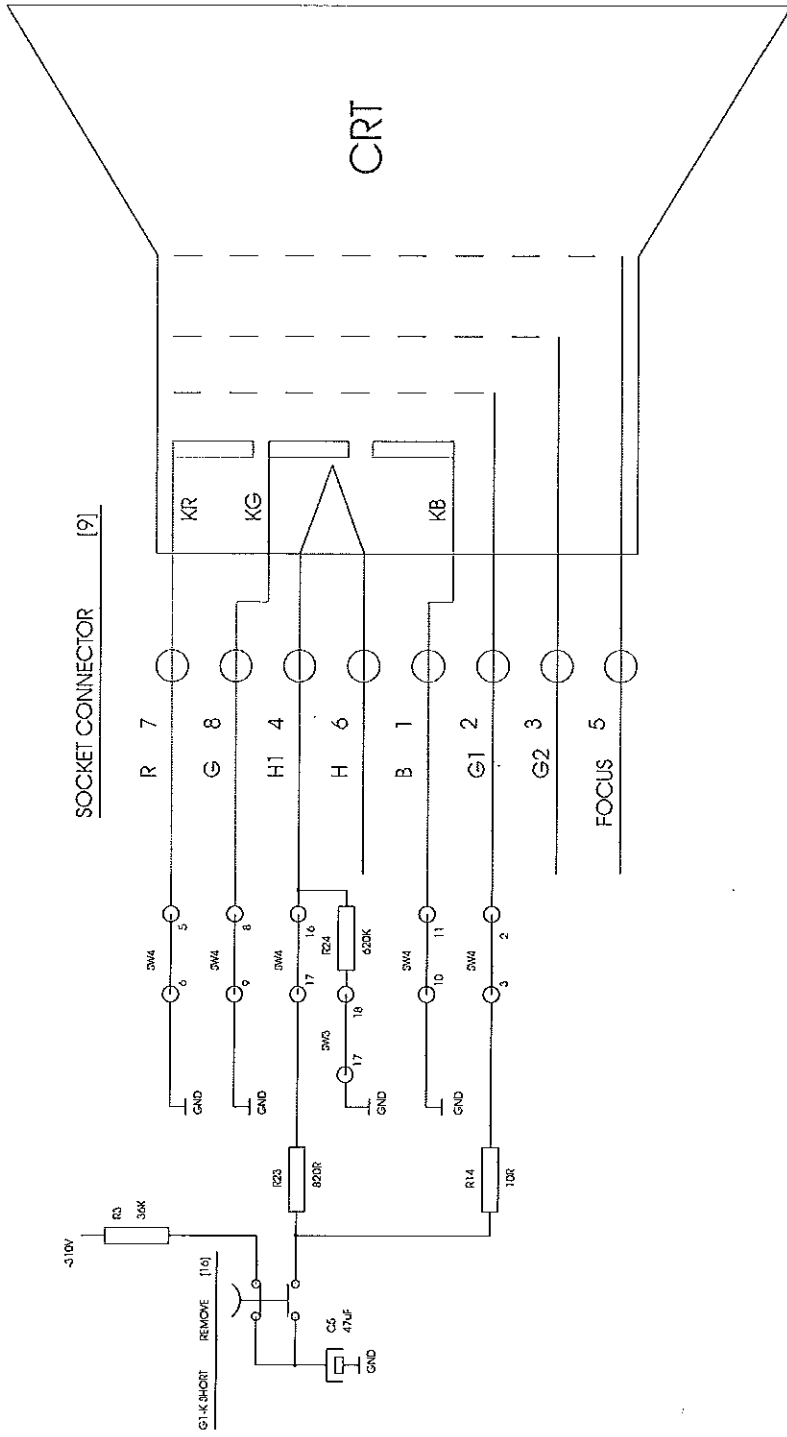


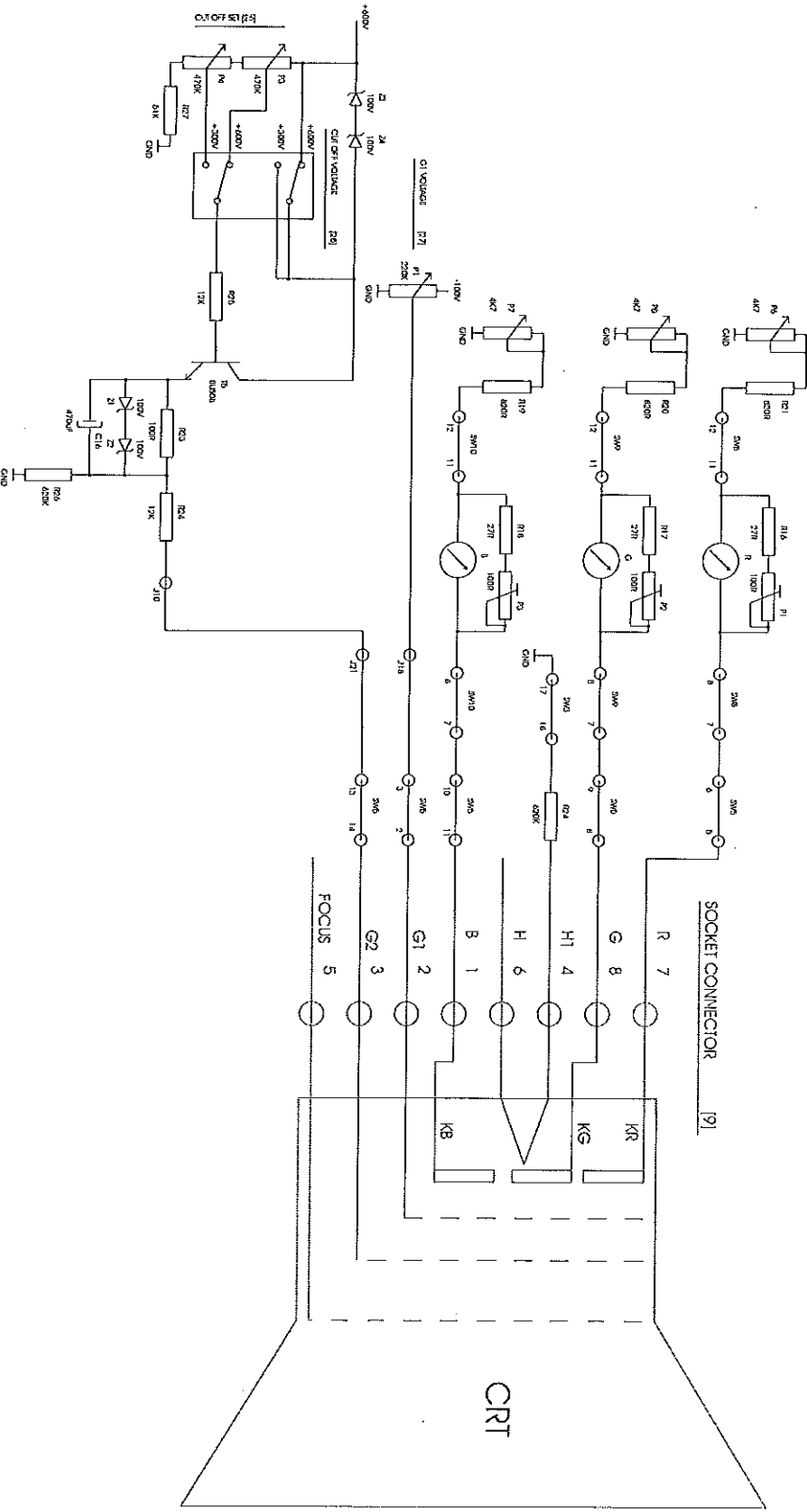


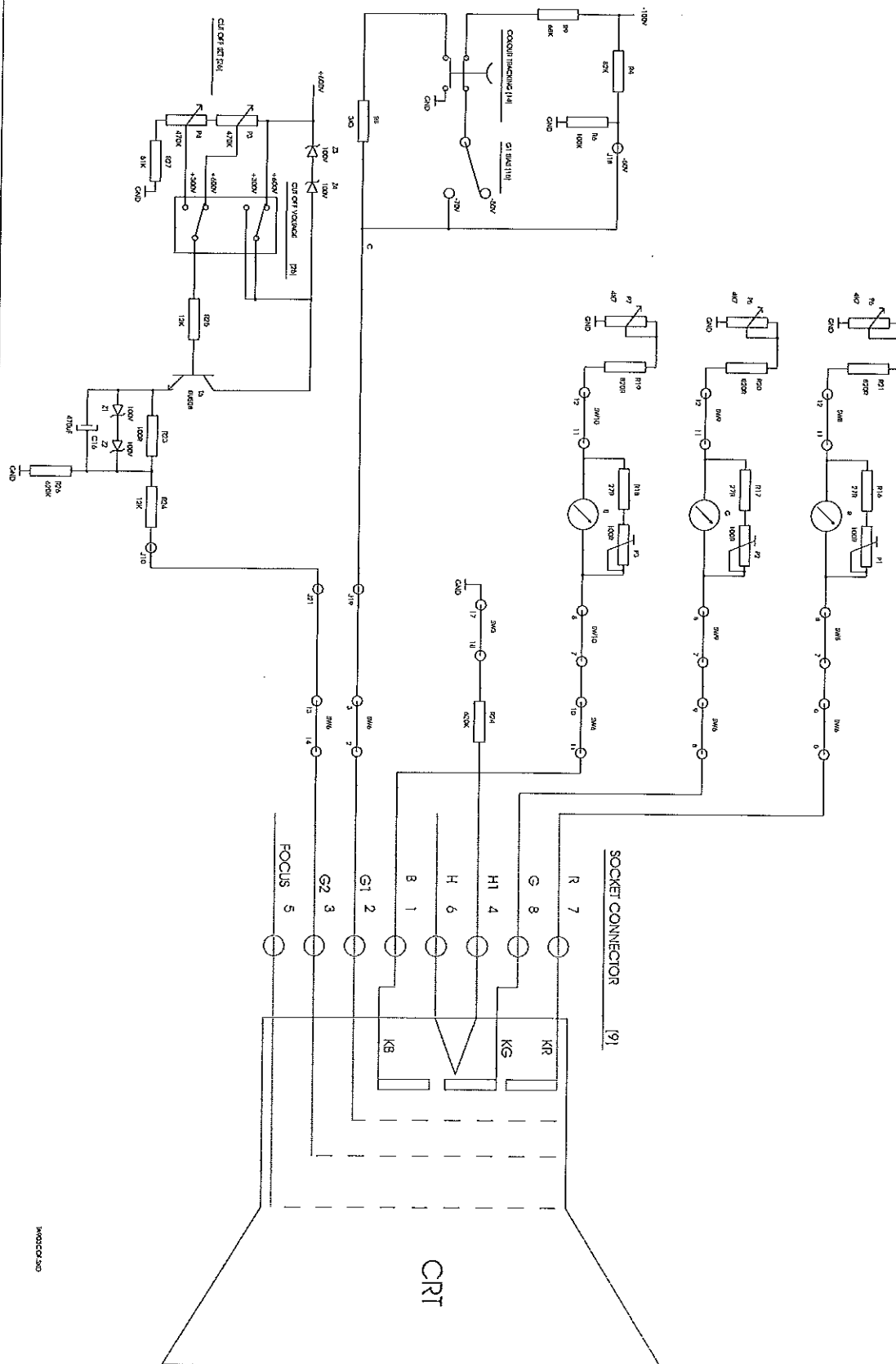
INSTRUCCION

16 PULSAR REMOVE G1 SHORTS(SW4)

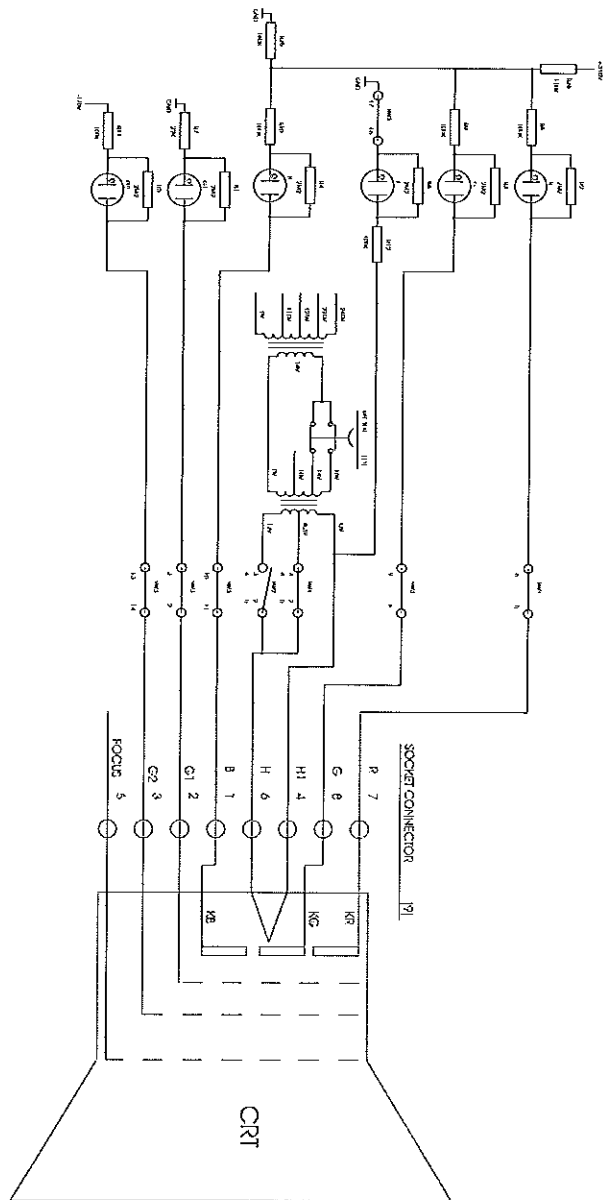
[17]

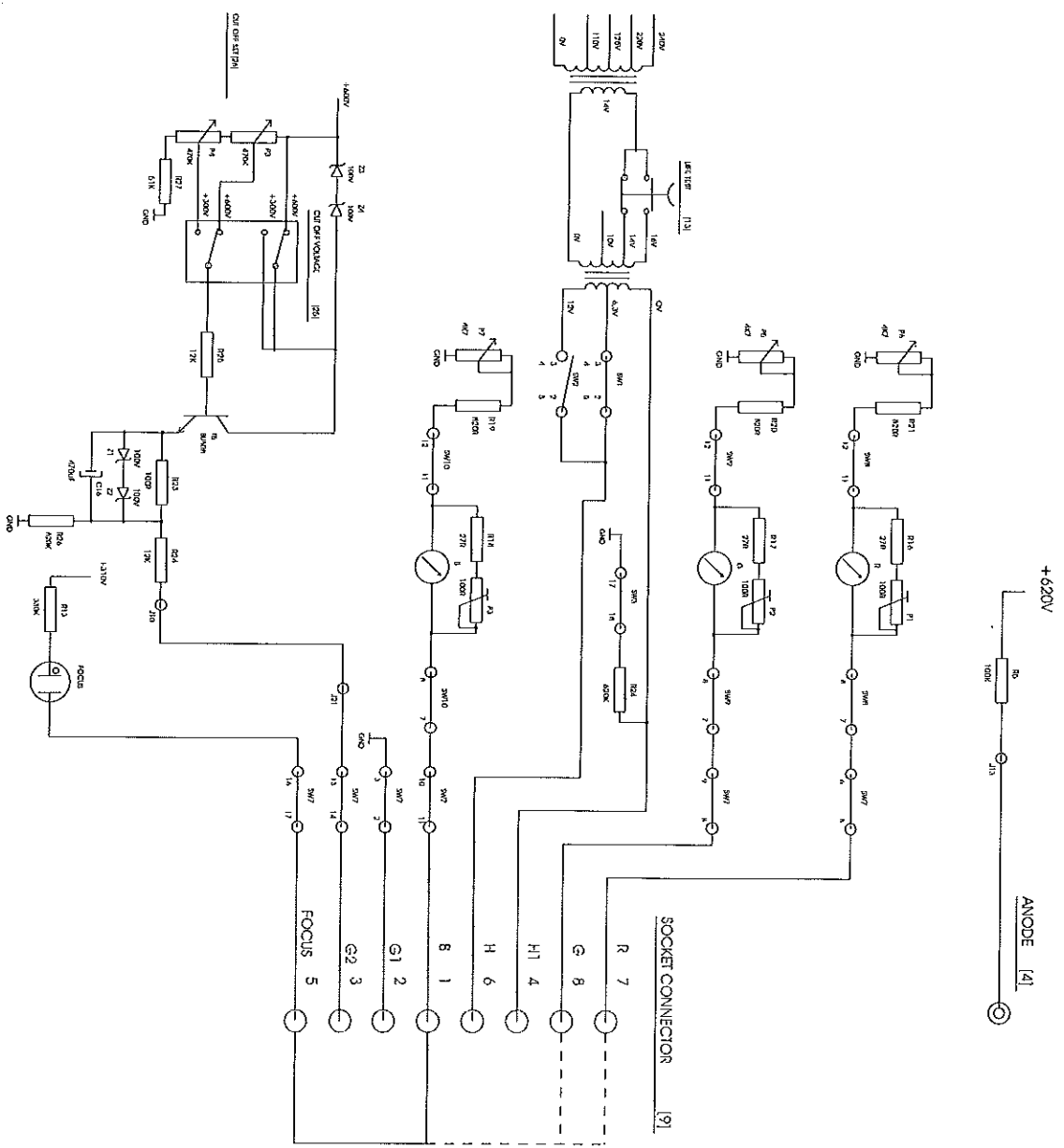


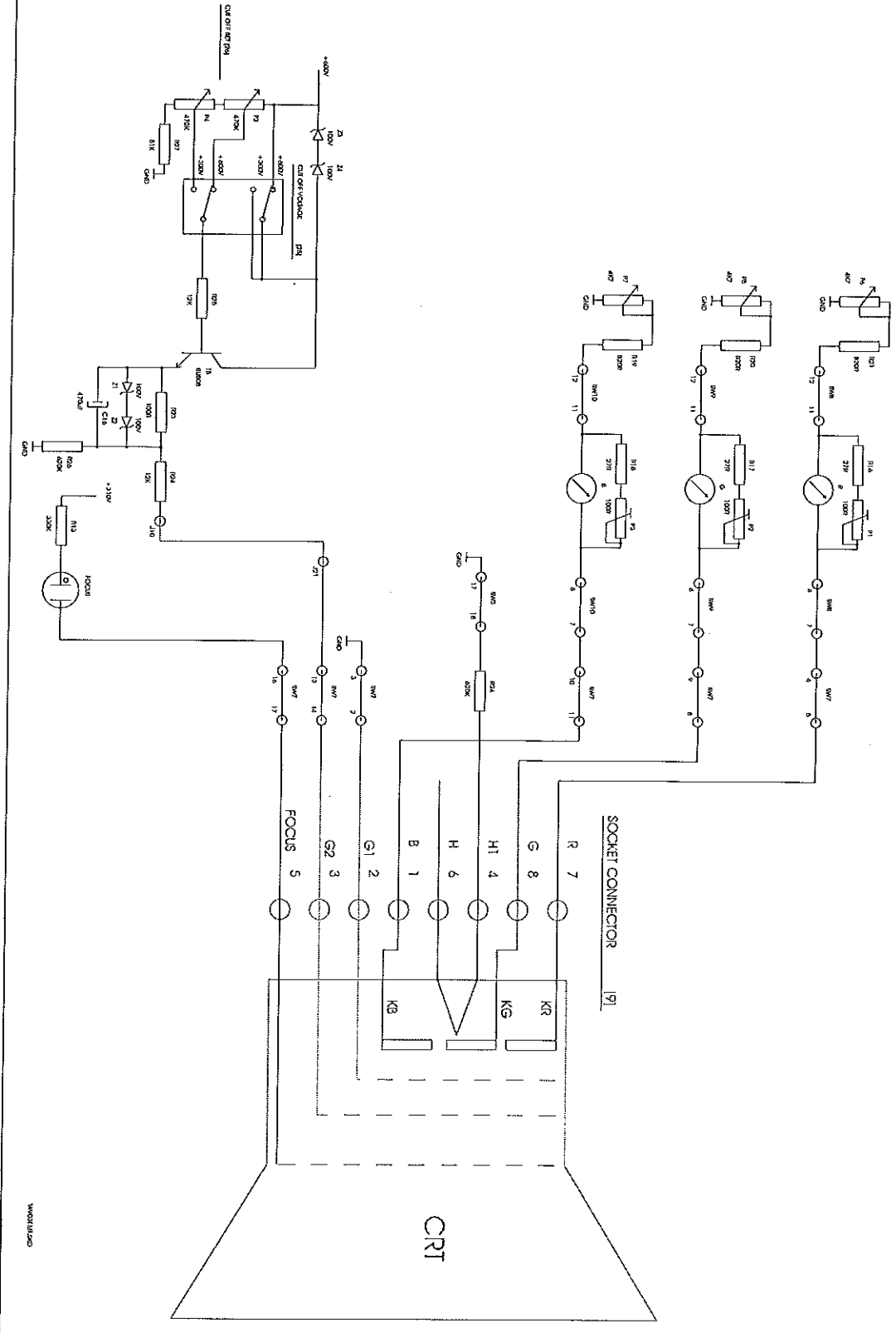




INSTRUCOON 21 PULSAR SHORTS(SK3) [18] , HEATER VOLTAGE 4.3V (SN1) [19]





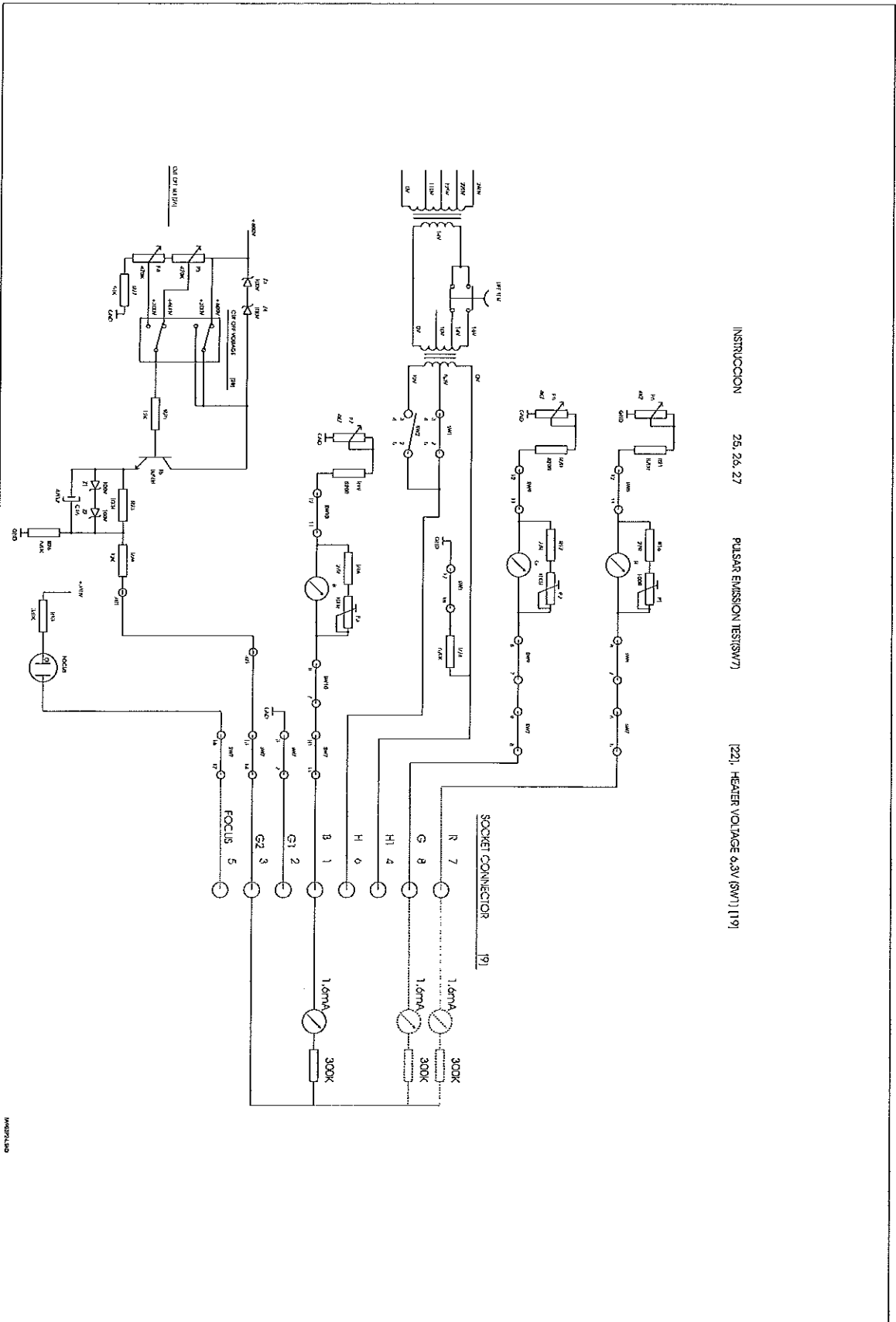


ISTRUZIONE

25, 26, 27

PULSAR EMISSION TEST SW7

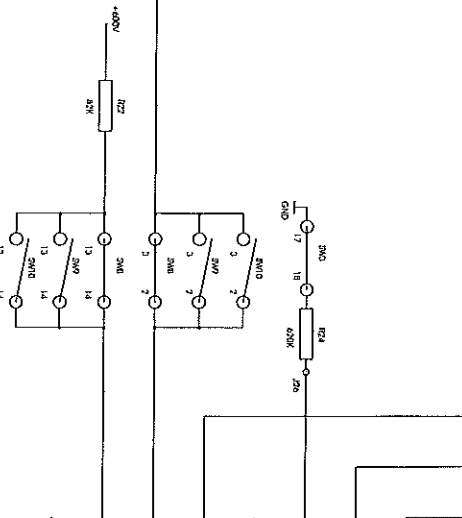
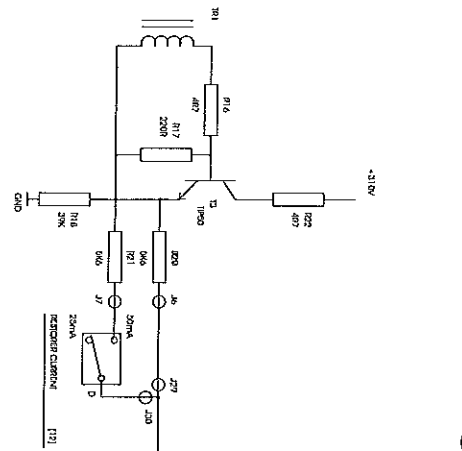
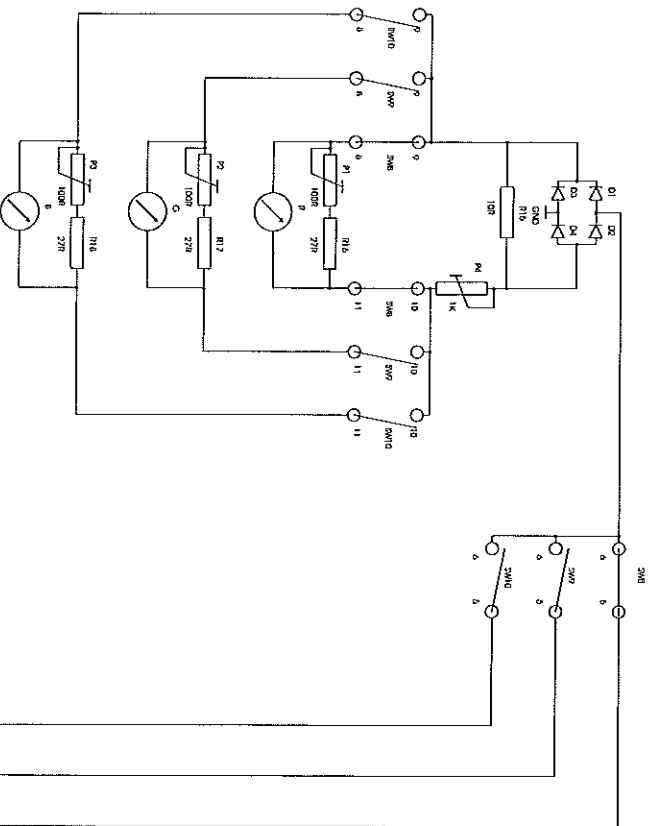
[22]: HEATER VOLTAGE 6,3V (SW1) [19]



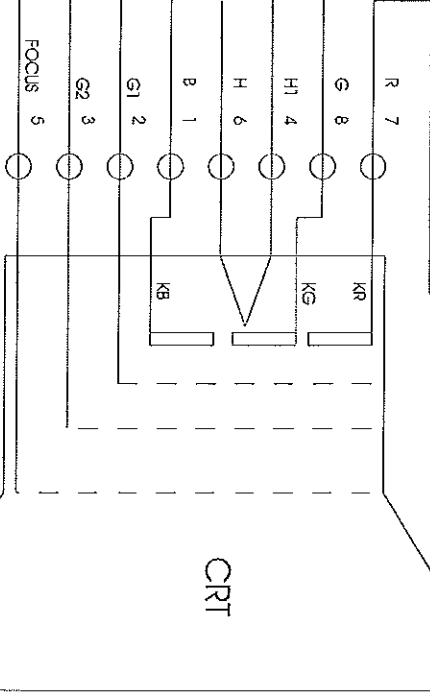
INSTRUCCION 20

- Pulsar RESTORER BWR (SW8) [23]
- Pulsar RESTORER G (SW9) [23]
- Pulsar RESTORER B (SW10) [23]

RESTORER CURRENT 25 mA [12]



SOCKET CONNECTOR [19]



CRT

ISTRUZIONE

28

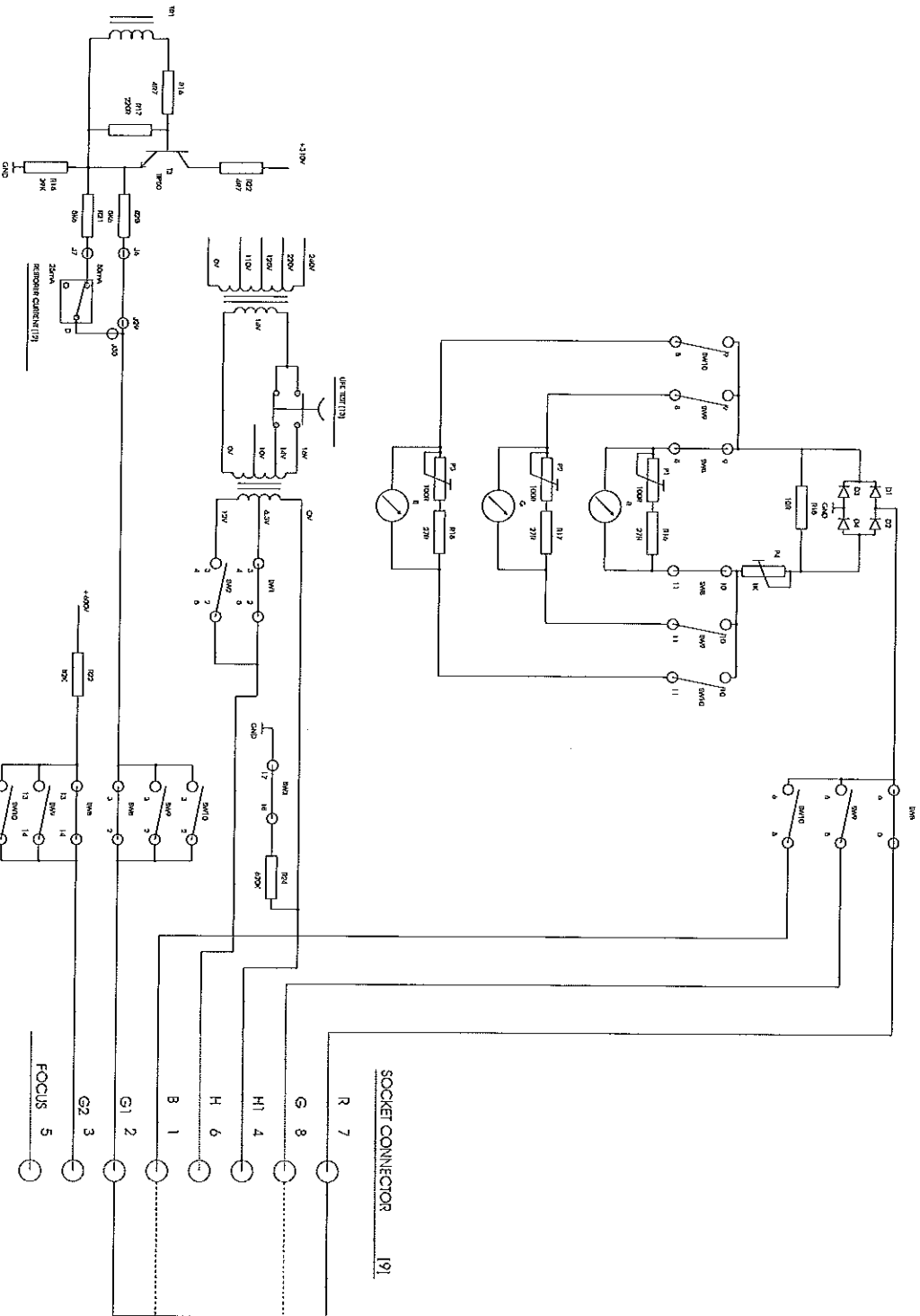
Pulsor RESTORER BW/R (SW8) [23], HEATER VOLTAGE 6.3V (SW1) [19]

RESTORER CURRENT 50 mA [12]

RESTORER CURRENT 25 mA [12]

Pulsor RESTORER G (SW9) [23]

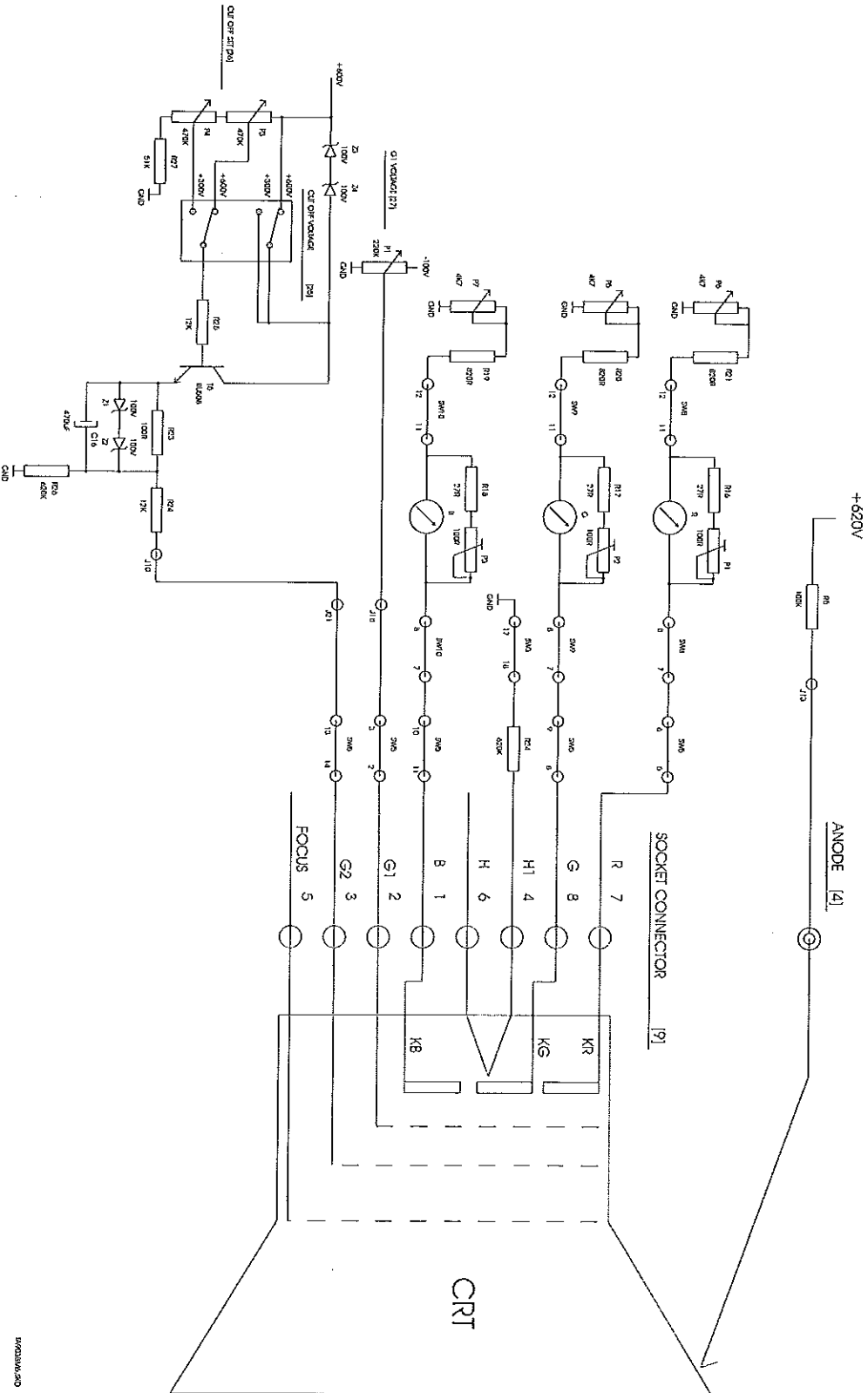
Pulsor RESTORER B (SW10) [23]



4.3.1 Prueba G1 Variable

PULSAR G1 VARIABLES(S)

[20]



4.3 d Regeneration

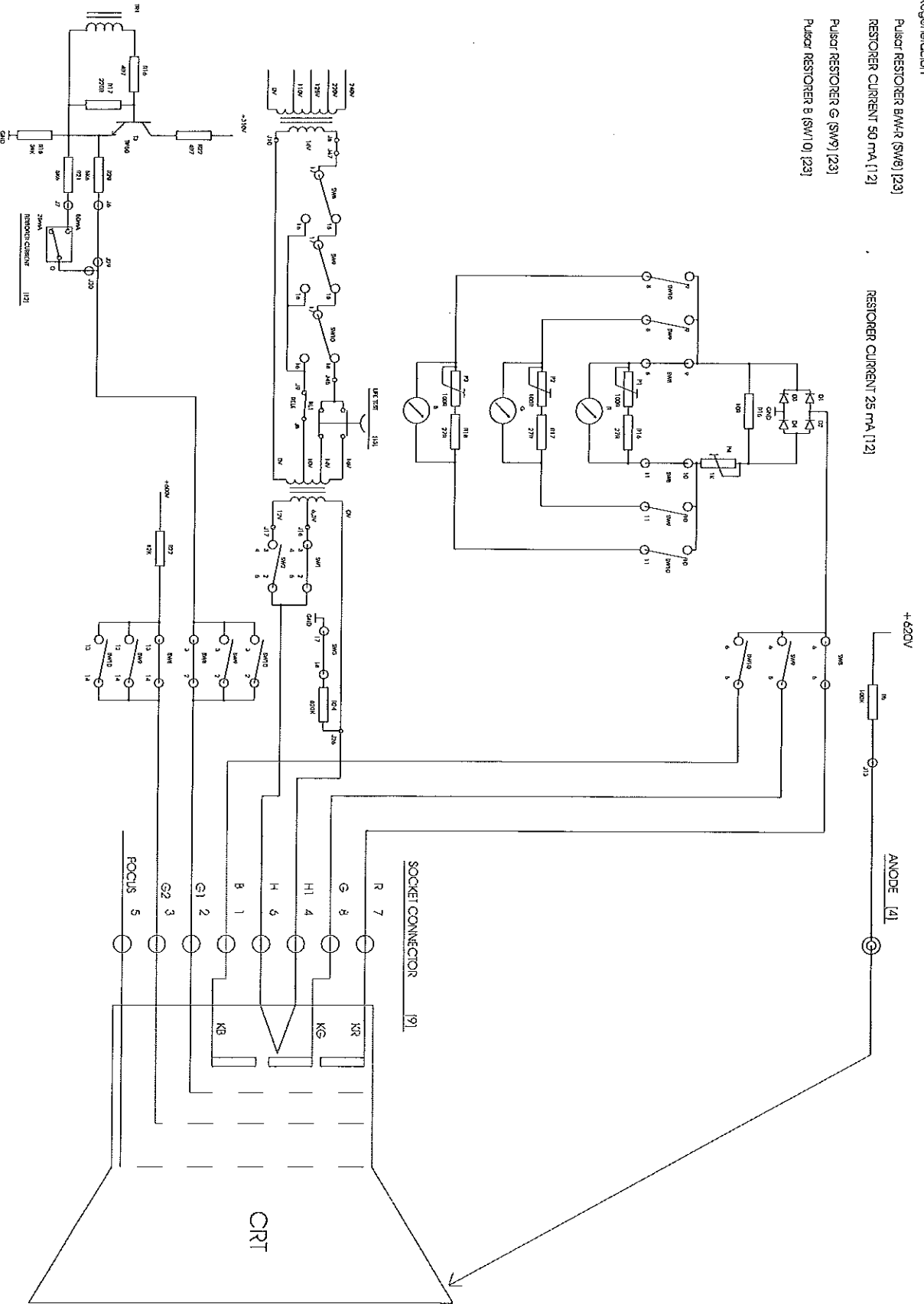
Pulsar Restorer BW/R (SW8) [23]

Restorer Current 50 mA [12]

Restorer Current 25 mA [12]

Pulsar Restorer G (SW9) [23]

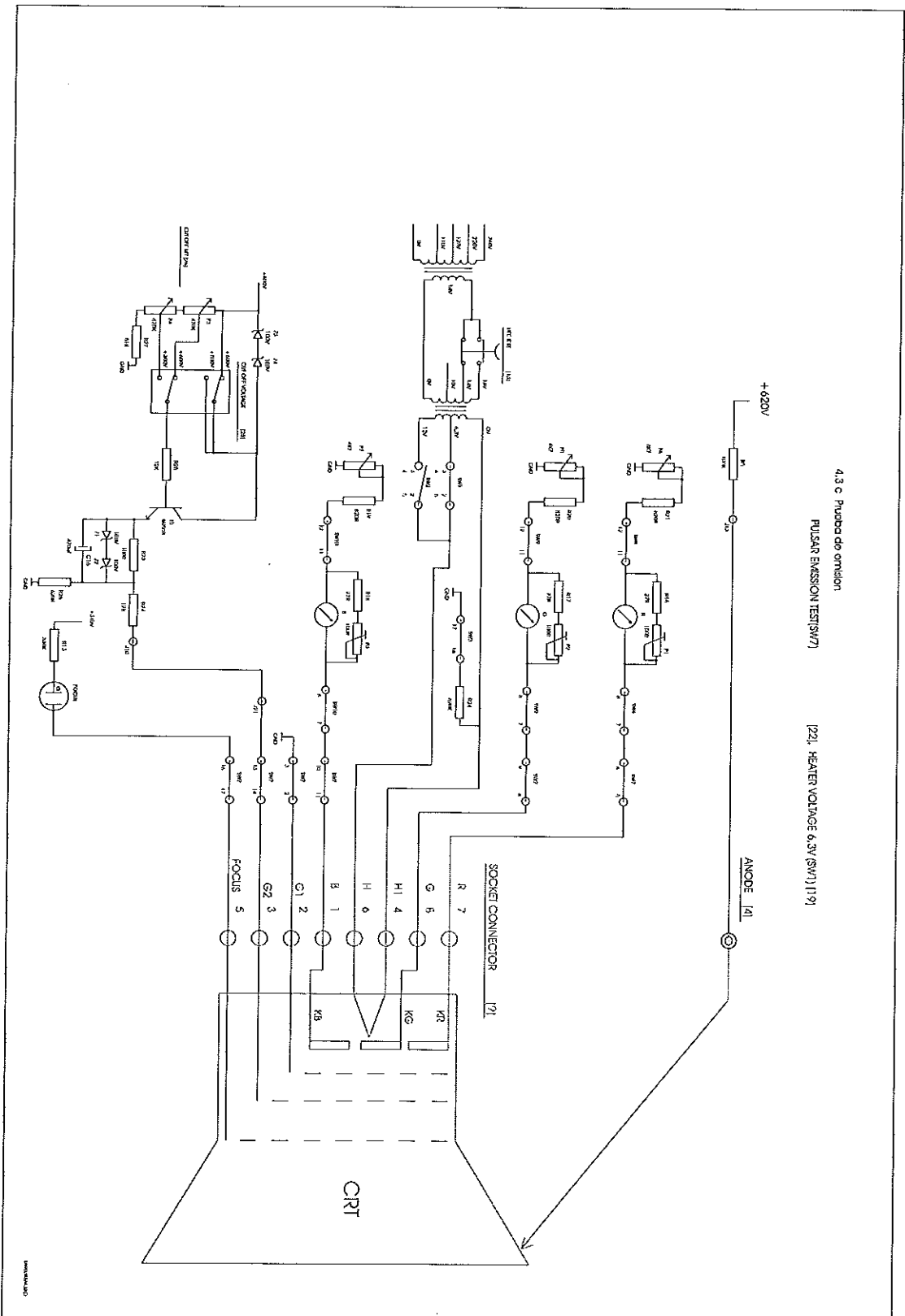
Pulsar Restorer B (SW10) [23]



4.3.c Puñda de omisión

PULSAR EMISION TEST(SW7)

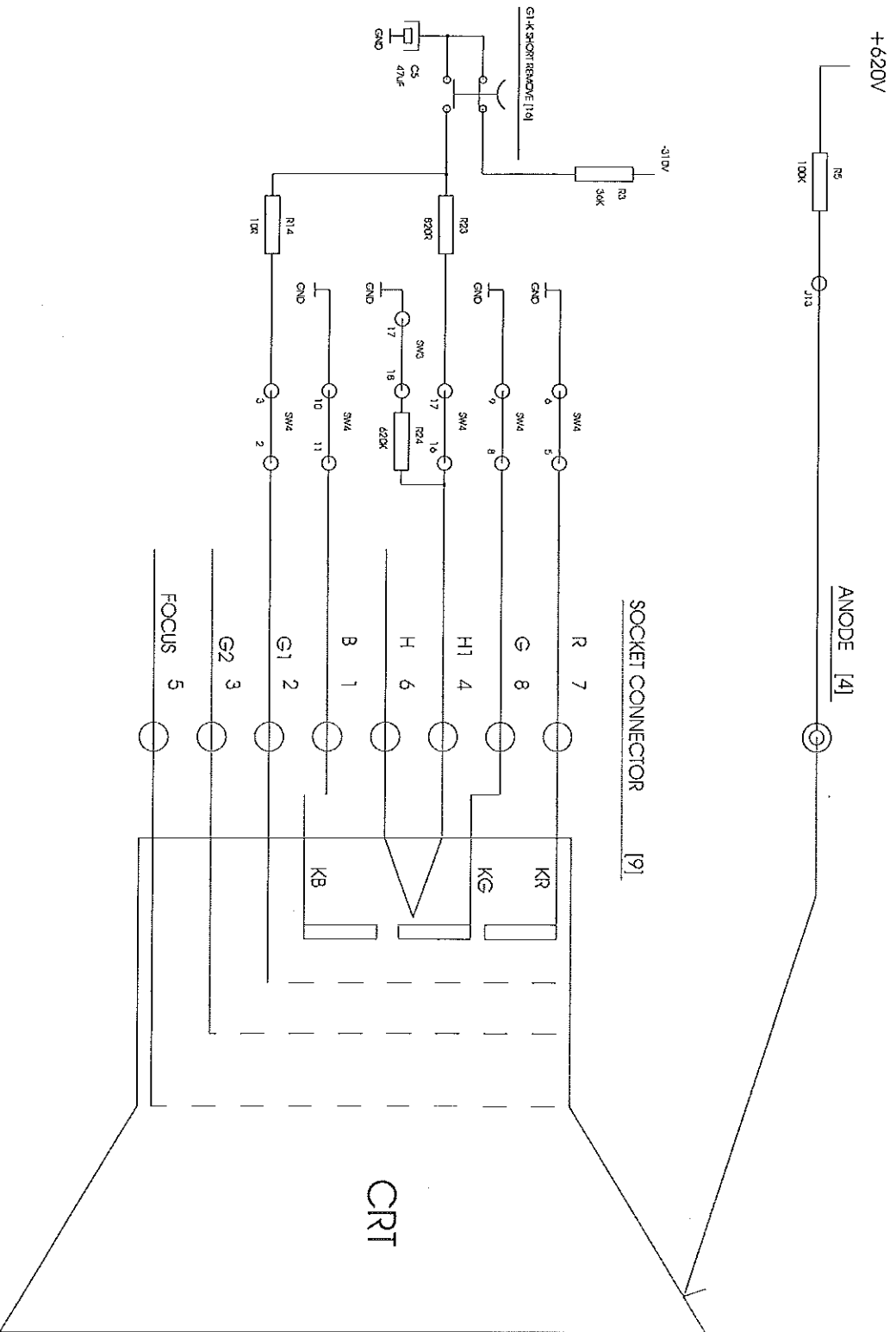
[22]: HEATER VOLTAGE 6.3V (SW1) [19]



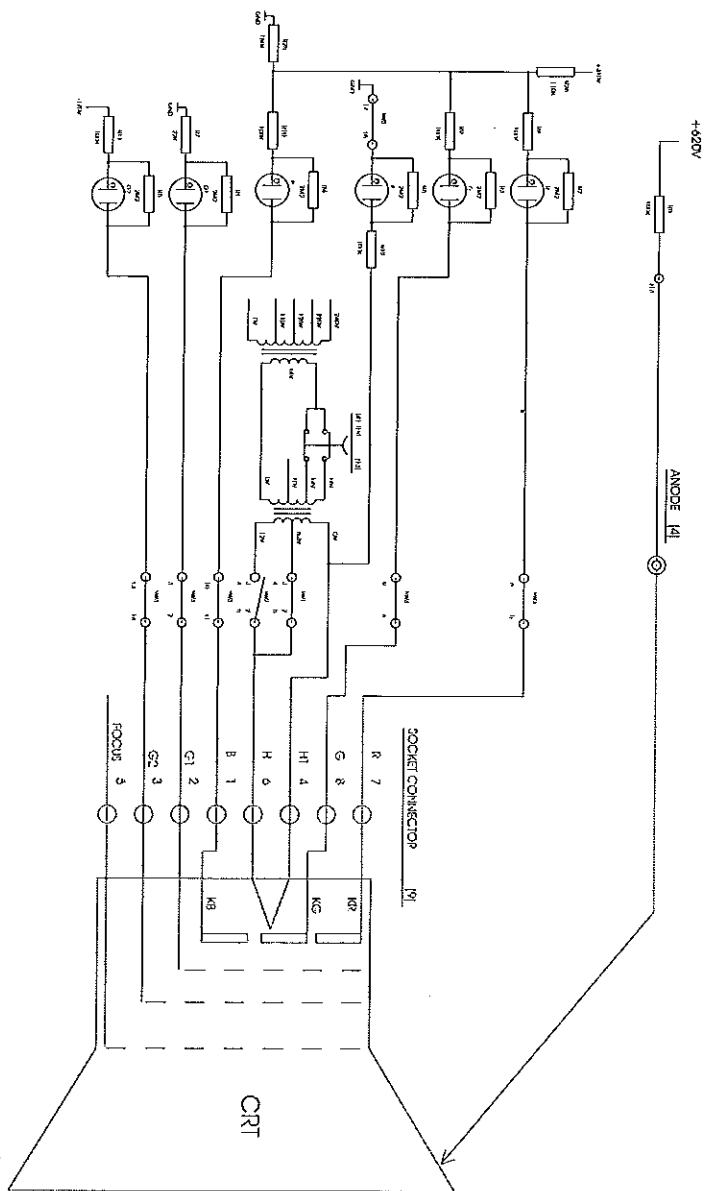
4.3 b Prueba de Fugas

PULSAR REMOVE G1 SHORT(SW4)

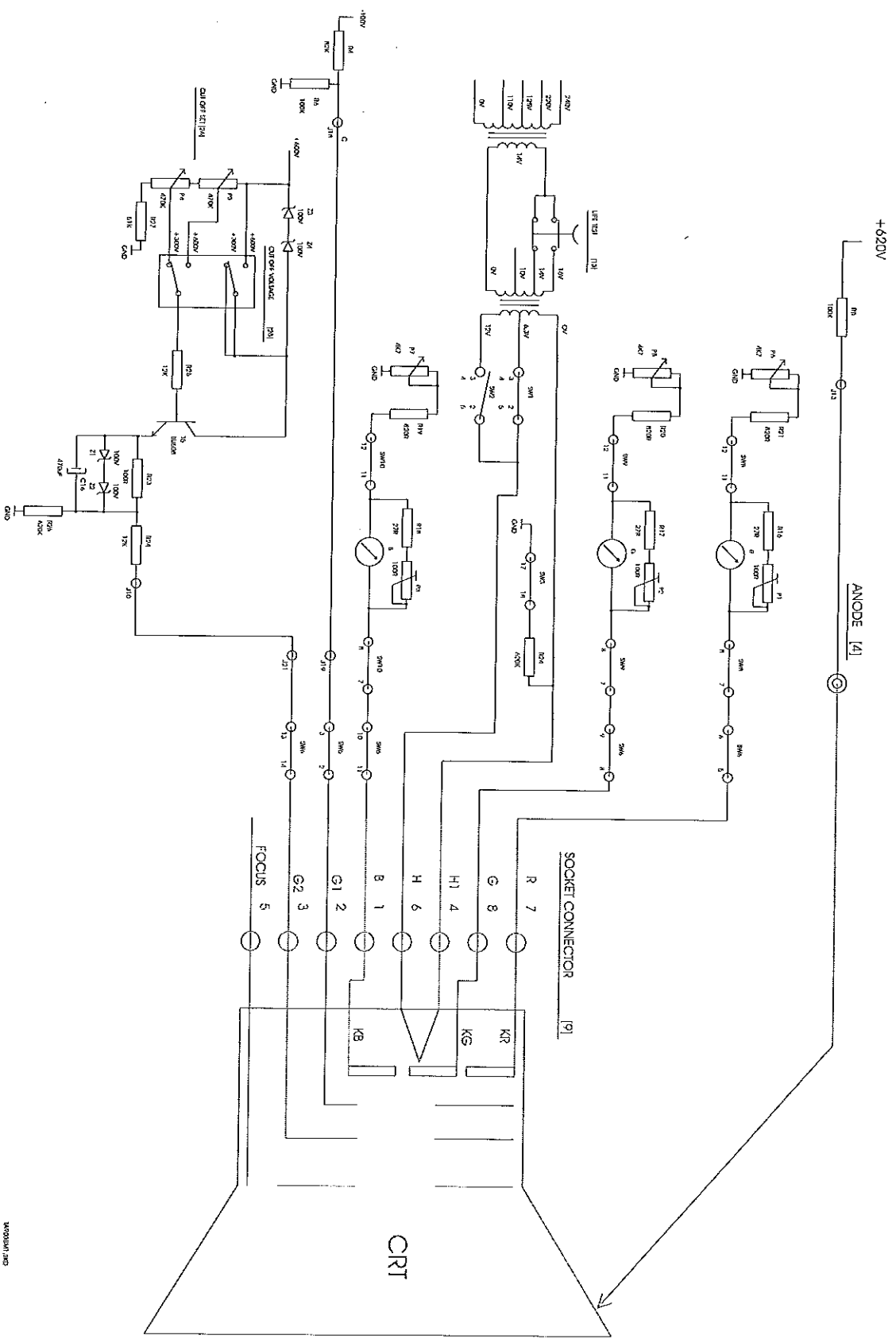
[17]



4.3 b) Prova de fuga
 PULSAO SINCROFASO [19] , HEATER VOLTAGE 6,3V [5W] [19]

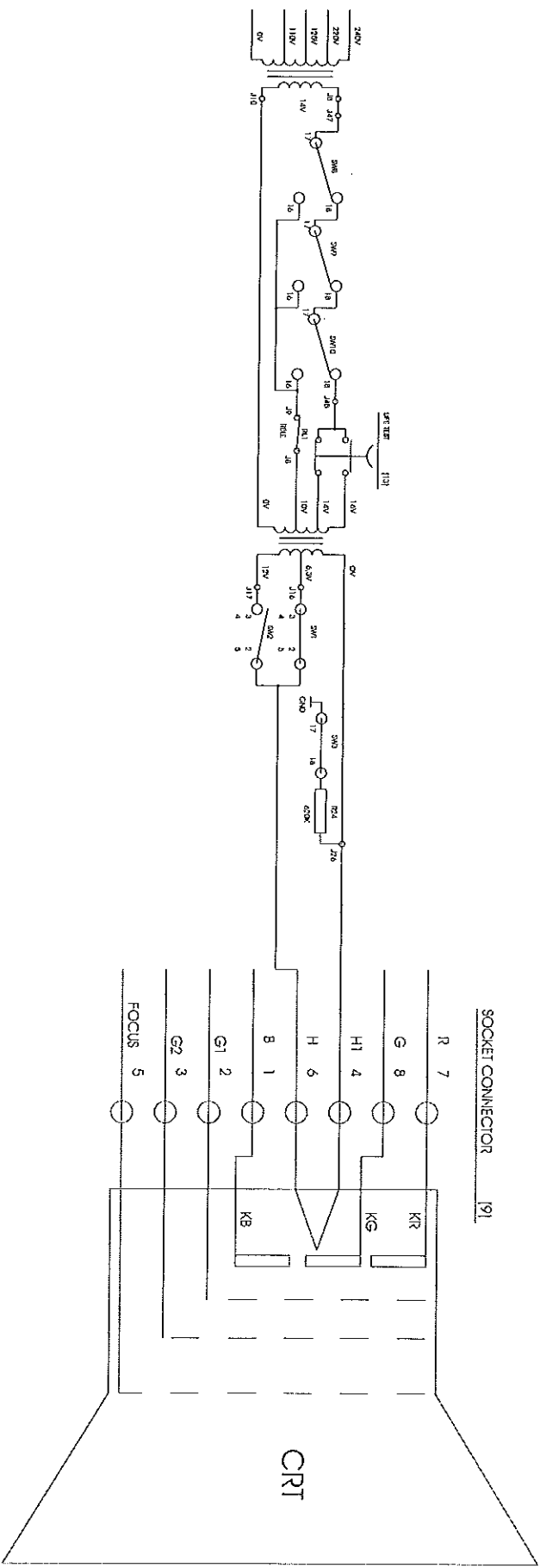


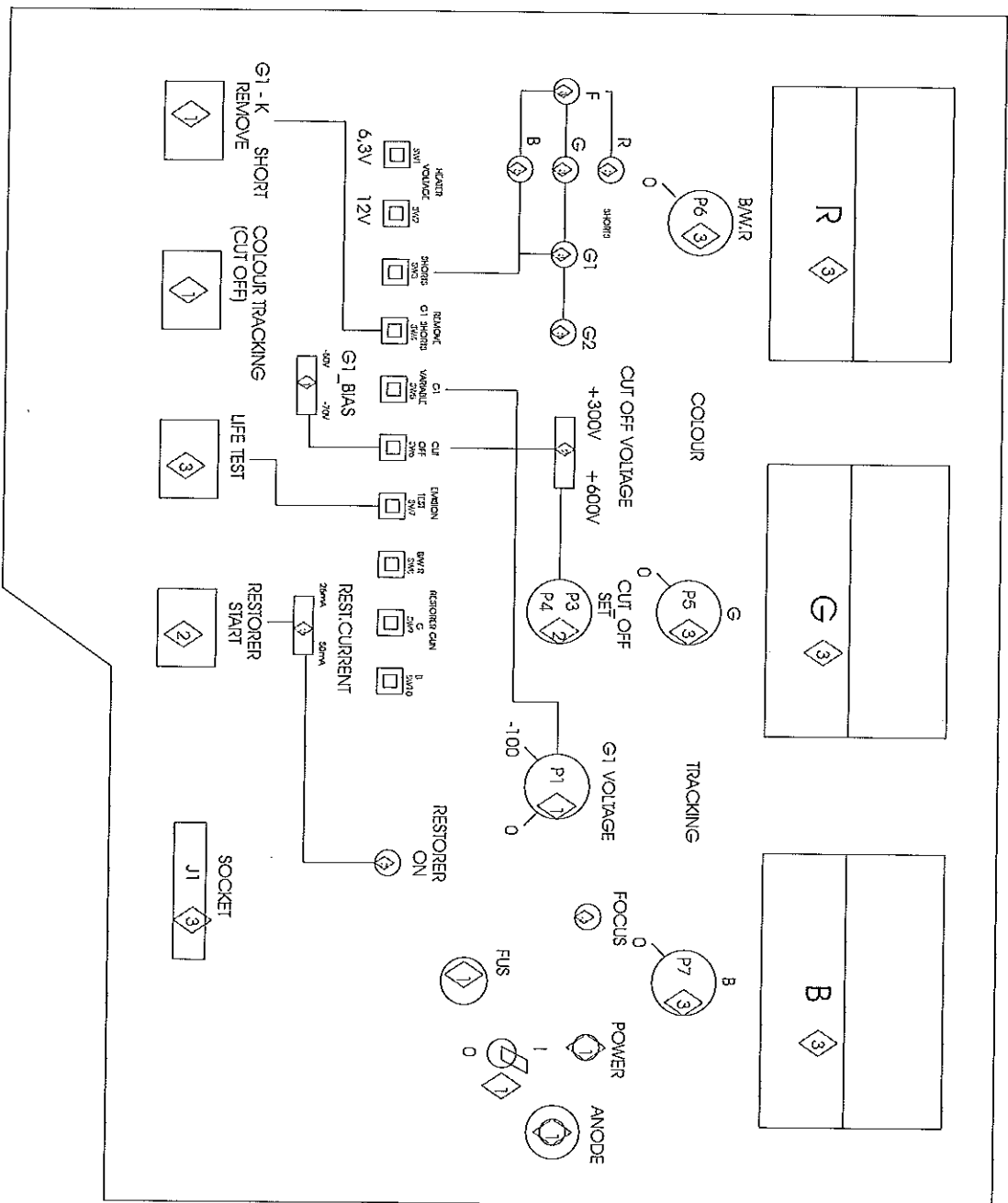
4.3 a Ajuste del CUT-OFF
 PULSAR CUT-OFF (SW6) [21]
 HEATER VOLTAGE (SW1) [9]



CIRCUIT DE FILAMENT

7A903B

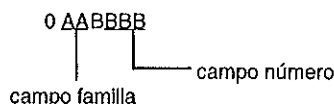




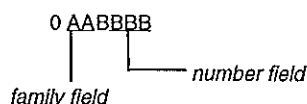
1. LISTADO DE COMPONENTES, ESQUEMAS Y PLANOS DE POSICIÓN DE COMPONENTES / PARTS LIST, CIRCUIT DIAGRAMS AND PCB LAYOUTS

1.1 Clave de códigos / codes key

El código (P.N.) de los componentes primarios utilizados por **PROMAX** empieza siempre por 0 y está formado por dos campos:



PROMAX primary components part number (P.N.) starts always with 0 and it is composed of two fields:



El campo familia se compone de dos letras que identifican la familia a la que pertenece el elemento. A continuación se listan las diferentes familias y su descripción.

The family field, it is composed by two letters that identify the family it belongs to. The following table contains the different families and their description.

El campo número se compone de cuatro cifras que identifican al elemento dentro de la familia a la que pertenece.

The number field, it is composed by four figures which identify the component in the family it belongs to.

CODIGO FAMILIA / FAMILY CODE	DESCRIPCIÓN	DESCRIPTION
AA	ANODIZADOS	ANODIZED
AC	ACCESORIOS NIVEL M.P	ACESSORIES. RAW MATERIAL LEVEL
AN	SINTONIZADORES	TUNERS
AN.	ATENUADORES	ATTENUATORS
AP	PINTURAS	PAINTINGS
AQ	NIQUELADOS	NICKEL-PLATED
AR	ARANDELAS	WASHERS
AR.	MICAS	MICA
AS	SERIGRAFIAS	PRINTINGS
AT	AISLANTES ELEC. Y MEC.	MECH. AND ELEC. INSULATORS
AT.	PRTTORES ELEC. Y MEC.	MECH. AND ELEC. PROTECTORS
AV	CROMADOS/NIQUELADOS	CHROME/NICKEL PLATED
AV.	CINCADOS/PLATEADOS	ZINC PLATED/ SILVER PLATED
AX	ARENADOS	SANDED
BB	BOBINAS	COILS
BD	BRIDAS	CLAMPS
BD.	GRAPAS	STAPLES
BD..	PINZAS	PINCERS
BL	BLINDAJES	SHIELDINGS
BM	BOTONES	KNOBS
BM.	TAPAS BOTONES	KNOB LIDS
BM..	FLECHAS BOTONES	KNOB ARROWS
BR	BORNES	CONNECTORS
BR.	BANANAS	BANANAS
BR..	PINZAS	PINCERS
BS	BASES DE RED	MAINS SOCKET
BT	BOTONERAS	SWITCH ASSEMBLY
BZ	BOBINAS SMD	SMD COILS
BZ..	FILTROS SMD	SMD FILTERS
BZ_	TRANSF.(S/FERR) SMD	SMD TRANSF. (WITHOUT FERRITE)
CA	CABLES	LEADS
CA.	CINTAS	TAPES
CA.	JUEGOS DE CABLES	LEAD SET
CA..	HILOS	WIRES
CC	PL.CIMP. DE UNA CARA	ONE SIDE PCB
CD	PL.CIMP. DE DOS CARAS	TWO SIDES PCB
CE	COND. ELECTROLITICOS	ELECTROLYTIC CAPACITORS
CEZ	COND. ELECTROLIT. SMD	SMD ELECTROLYTIC CAPACITORS
CF	OPTOACOPLADORES	OPTOCOUPERS
CH	CHASIS	FRAME

CI	CIRCUITOS INTEGRADOS	INTEGRATED CIRCUITS
CJ	CAJAS METALICAS	METAL BOX
CL	COND. POLIPROPILENO	POLYPROPYLENE CAPACITOR
CM	CONMUTADORES	SWITCH
CO	CONECTORES	CONNECTOR
CP	COND. POLIESTER	POLYESTER CAPACITOR
CR	CRISTALES DE CUARZO	QUARTZ CRYSTAL
CR.	FILTROS DE ONDA SUP.	SURFACE WAVE FILTER
CR.	FILTROS CERAMICOS	CERAMIC FILTER
CR..	RESONADOR CERAMICO	CERAMIC RESONATOR
CRZ	FILTRO CERAMICO SMD	SMD CERAMIC FILTER
CRZ.	CRISTAL DE CUARZO SMD	SMD QUARTZ CRYSTAL
CRZ.	RESONADOR CERAMICO SMD	SMD CERAMIC RESONATOR
CS	COND. STYROFLEX	STYROFLEX CAPACITOR
CT	COND. TANTALIOS	TANTALUM CAPACITOR
CV	COND. VARIABLES	VARIABLE CAPACITOR
CV.	TRIMERS	TRIMMERS
CV..	TANDEMOS	TANDEMOS
CX	CONEXIONES(CTOR+CABLE)	CONNECTIONS (CONNECTOR+LED)
CY	COND. PRECISION	PRECISION CAPACITORS
CZ	INTEGRADOS SMD	SMD INTEGRATED CIRCUITS
DG	DIAGRAMAS CORRECCION	CORRECTION CHART
DI	DIODOS	DIODES
DI.	ZENERS	ZENERS
DI.	PUENTES RECTIFICADORES	RECTIFIER BRIDGE
DI..	FOTOEMISOR / RECEPTOR	PHOTO EMITTER / RECEIVER
DK	PROGRAMA PARA GRABAR	PROGRAM TO RECORD
DS	PINTURAS / ALCOHOL	PAINTINGS / ALCOHOL
DS.	FREON	FREON
DT	DISTANCIADORES	DISTANCE CLIP
DZ	DIODOS SMD	SMD DIODES
DZ.	ZENERS SMD	SMD ZENERS
EJ	EJES PROLONGADORES	KNOB EXTENSION ROD
EM	EMBALAJES	PACKAGES
EM.	SUPLEMENTO CARTON	CARDBOARD SUPPLEMENT
EM.	CAJAS CARTON	CARDBOARD BOX
EN	ETIQUETAS NUMERACION	NUMERATION LABEL
EQ	EQUIVALENTES A:	EQUIVALENT TO:
ES	ESCALA INSTR. / DISCO	INSTRUMENT SCALE
EV	ETIQUETAS VARIAS	VARIOUS LABELS
FD	FUNDAS	CARRYING BAG
FD.	ESTUCHES	CARRYING CASE
FE	FERRITAS	FERRITES
FE.	NUCLEOS BOBINAS	COIL CORES
FE.	BALUNS	BALUNS
FS	FUSIBLES	FUSES
FSZ	FUSIBLES SMD	SMD FUSES
GO	GOMAS	RUBBERS
GO.	PEGAMENTOS	GUMS
GO.	ESPUMAS	FOAMS
GO..	SILICONAS	SILICONES
GO.	ADHESIVOS	STICKERS
GS	SILICONAS	SILICONES
HE	HEMBRILLAS	FEMALES
IF	ETIQUETAS NUMERACION	NUMBERING LABEL
IF.	MANUALES INSTRUCCIONES	INSTRUCTION MANUAL
IF.	ETIQUETAS ADHESIVAS	STICKERS
IG	MANUALES INGLES	ENGLISH MANUAL
IG.	MANUALES FRANCES	FRENCH MANUAL
IL	LEDS	LEDS
IL.	DISPLAYS	DISPLAYS
IL..	NEONES	NEONS
IN	INSTRUMENTOS	INSTRUMENTS
IS	MANUAL SERVICIO	SERVICE MANUAL
IS.	MANUAL CALIBRACION	CALIBRATION MANUAL
IS.	MANUAL MARKETING	MARKETING MANUAL

IT	INTERRUPTORES	SWITCH
IT.	PULSADORES	PUSH BUTTONS
IZ	INTERRUPTORES	SMD SWITCHES
IZ.	PULSADORES SMD	SMD PUSH BUTTONS
JML2	C. SMD TAJ B 20% 6.3V	SMD CAPACITOR TAJ B 20% 6.3V
JMM2	C. SMD TAJ B 20% 16V	SMD CAPACITOR TAJ B 20% 16V
JMO2	C. SMD TAJ B 20% 20V	SMD CAPACITOR TAJ B 20% 20V
JMQ2	C. SMD TAJ B 20% 35V	SMD CAPACITOR TAJ B 20% 35V
LT	LIMITADOR TENSION	VOLTAGE LIMITER
LZ	INDICADOR LUMINOSOS SMD	SMD LIGHT INDICATOR
MA	TUBOS MACARRON PLAST.	PLASTIC PIPE
MA.	TUBOS TERMORETRACTIL.	THERMO RETRACTABLE PIPE
MA..	TUBOS SILICONA	SILICONE TUB
ME	MATERIAL ELECTRICO	ELECTRIC MATERIAL
ME.	BORNES / FUSIBLES / BASE	FUSES / SOCKETS
ME..	BOMBILLAS / ETC.	BULBS ETC.
MI	MANUALES INSTRUCCION	INSTRUCTION MANUAL
MI.	TEXTO INSTRUCCIONES	INSTRUCTION TEXT
MI..	HOJAS ADICIONALES	ADDITIONAL SHEET
MO.	MECANIZADOS	MECHANISED
MS	MUELLES	SPRINGS
OZ	CONECTORES SMD	SMD CONNECTORS
PA	POTENCIOMETROS AJUSTE	ADJUSTMENT POTENTIOMETERS
PE	PERFILES	PROFILES
PF	PANELES FRONTALES	FRONT PANEL
PG	PIEZAS GENERALES	GENERAL PIECES
PH	POTES. MANDO MECHANIZ.	CONTROL POTENTMTRS. (MECHANISED)
PI	PILAS	BATTERY
PI.	BATERIAS	RECHARGEABLE BATTERY
PM	POTES. MANDO STANDARS	SATANDARD CONTROL POTENTIOMTRS
PN	PUNTAS DE PRUEBA	TEST LEADS
PP	PIEZAS DE PLASTICO	PLASTIC PIECES
PP..	MECANIZADOS PLASTICO	PLASTIC MECHANIZED
PP_	VISORES	VIEWERS
PS	PIES GOMA/PLAST/ETC	RUBBER/PLASTIC/ETC FEET
PT	PORTAFUSIBLES	FUSE HOLDER
PT.	CLIPS PILAS Y BATERIA	BATTERY CLIPS
PZ	POTES AJUSTE SMD	SMD ADJUSTMENT POTENTIOMETERS
RB	RESIST. BOBINADAS	WIRE-WOUND RESISTORS
RC	RESISTENCIAS 5% 1/4W	RESISTOR 5% 1/4W
RD	RESISTENCIAS 5% 1/2W	RESISTOR 5% 1/2W
RE	RELES	RELAY
RF	REFRIGERADORES	HEAT SINK
RG	RESISTENCIA 5 Y 10% 1W	RESISTOR 5 Y 10% 1W
RH	RESISTENCIA 5% 1/8W	RESISTOR 5% 1/8W
RH.	RESISTENCIA 5% 1/16W	RESISTOR 5% 1/16W
RH.	RESISTENCIA 0.5% 1/2W	RESISTOR 0.5% 1/2W
RM	REMACHES	RIVET
RN	RESISTENCIA 0.5 / 0.8 / 0.2 W	RESISTOR 0.5 / 0.8 / 0.2 W
RN.	RESISTENCIA 0.5% 2W	RESISTOR 0.5% 2W
RP	RESISTENCIA PRECISION	PRECISION RESISTOR
RQ	RESISTENCIA 1% 1/4W	RESISTENCIA 1% 1/4W
RR	CIRCUITOS MONTADOS	ASSEMBLED CIRCUITS
RR.	MODULOS / ETC.	MODULE / ETC.
RY	RESISTENCIA SMD 0603 5%	SMD RESISTOR 0603 5%
RZ	RESISTENCIA SMD 1206 5%	SMD RESISTOR 1206 5%
RZA	RESISTENCIA SMD 0603 5%	SMD RESISTOR 0603 5%
SP	PANELES POSTERIORES	REAR PANEL
SP.	SUBPANELES	SUB-PANEL
SR	SOPORTES	SUPPORTS
SY	RESISTENCIA SMD 0603 1%	SMD RESISTOR 0603 1%
SZ	RESISTENCIA SMD 1206 1%	SMD RESISTOR 1206 1%
SZA	RESISTENCIA SMD 0603 1%	SMD RESISTOR 0603 1%
TC	TUERCAS	NUTS
TE	TERMINALES	TERMINALS
TF	TRANSFORMADORES	TRANSFORMER

TF.	BOBINADOS DE TRANSF.	TRANSFORMER WINDINGS
TM	TERMISTANCIAS	THERMISTORS
TM.	VARISTORES	VARISTORS
TM..	PTC/NTC	PTC/NTC
TO	TORNILLOS	SCREWS
TP	TAPAS	LIDS
TR	TRANSISTORES	TRANSISTORS
TZ	TRANSISTORES SMD	SMD TRANSISTORS
VA	TUBOS TELE.	CRT
VA.	VALVULAS	VALVES
ZA	COND. CER 16V GFO...	CERAMIC CAPACITOR 16 V GFO...
ZC	COND. CERAMICS 1 NF63V	CERAMIC CAPACITOR 1 NF63V
ZE	COND. CER. PL.63V T	CERAMIC CAPACITOR PL.63V T
ZF	COND. CERAMICS 63V 5%	CERAMIC CAPACITOR 63V 5%
ZN	COND. CERAMICS VAC	VAC CERAMIC CAPACITOR
ZO	ZOCALOS	SOCKETS
ZOZ	ZOCALOS SMD	SMD SOCKETS
ZP	COND. CERAMICOS 3KV	CERAMIC CAPACITOR 3KV
ZR	COND. BOTON (LENTEJA)	BUTTON CAPACITOR
ZS	COND. PASAMUROS	FEEDTHROUGT CAPACITOR
ZT	TRIMERS SMD	SMD TRIMMER
ZV	COND. CER. MULTICAPA	MULTILAYER CERAMIC CAPACITOR
ZX	COND. CERAMICS	CERAMIC CAPACITOR
ZY	COND. CERAMICS	CERAMIC CAPACITOR

1.2 Notas/Remarks

Abreviación	Significado	Abbreviation	Meaning
Pos. Id.	Identificador de posición	Pos. Id.	Position Identifier
P. N.	Código	P. N.	Part Number
M. M.	Montaje Mecánico	M. A.	Mechanical Assembly
M. E.	Montaje Eléctrico	E. A.	Electrical Assembly
C. I.	Circuito Impreso	PCB	Printed Circuit Board
SMD	Dispositivo de Montaje Superficial	SMD	Surface Mounting Device

Nota: Los códigos de los circuitos impresos aparecen en negrita para facilitar su identificación. Este código aparece impreso sobre el circuito impreso.

Remark: Printed circuit boards part numbers appear in bold letters in order to make easy its identification. This part number is printed on the printed circuit board.

1.3 TA-903B MONTAJE DEL CONJUNTO / ENSEMBLE ASSEMBLY

MODULE	POS. ID.	P.N.	DESCRIPTION
TA903B		TA903BES01	TA-903B ANALIZAD.REGENERADOR / ANALYSER - REGENERATOR
TA903BES01		0 IF7330	MANUAL INSTRUC.TA-903 / TA-903 INSTRUCTION MANUAL
TA903BES01		AZ004	A-4 ADAPTADOR ZOCALO TUBO / A-4 TUBE SOCKET ADAPTER
AZ004		0 CA5530	JUEGO CABLES POR ZOCALO RT-501 / RT-501 SOCKET CABLE SET
AZ004		0 CC3090	PL.CIMP.ADAPTADOR A4 RT-501 / RT-501 A4 ADAPTER PCB
AZ004		0 PP0900	CAJA ADAPTADOR ZOCALOS RT-501 / RT-501 SOCKET ADAPTER BOX
AZ004		0 TC0610	TUERC / NUT .HEXAG.M2 LA ZIN DIN 934
AZ004		0 TO1910	TORN / SCREW DIN-7981 2.9X 6.5 FE ZIN
AZ004		0 TO2980	TORN / SCREW DIN-965 M2X10 FE ZIN
AZ004		0 ZO0080	ZOCALO TRC HEMBRA / FEMALE CRT SOCKET 18-21 DH
AZ004		0 ZO0150	ZOCALO TV MACHO / MALE TV SOCKET 8P 18.20
TA903BES01		AZ005	A-5 ADAPTADOR ZOCALO TUBO / A-5 TUBE SOCKET ADAPTER
AZ005		0 CA5530	JUEGO CABLES POR ZOCALO RT-501 / RT-501 SOCKET CABLE SET
AZ005		0 CC3100	PL.CIMP ADAPTADOR A5 RT501 / RT-501 A5 ADAPTER PCB
AZ005		0 PP0900	CAJA ADAPTADOR ZOCALOS RT-501 / RT-501 SOCKET ADAPTER BOX
AZ005		0 TC0610	TUERC. / NUT HEXAG.M2 LA ZIN DIN 934
AZ005		0 TO1910	TORN / SCREW DIN-7981 2.9X 6.5 FE ZIN
AZ005		0 TO2980	TORN / SCREW DIN-965 M2X10 FE ZIN
AZ005		0 ZO0080	ZOCALO TRC HEMBRA / FEMALE CRT SOCKET 18-21 DH
AZ005		0 ZO0150	ZOCALO TV MACHO / MALE TV SOCKET 8P 18.20
TA903BES01		AZ006	A-6 ADAPTADOR ZOCALO TUBO / A-6 TUBE SOCKET ADAPTER
AZ006		0 CA5530	JUEGO CABLES POR ZOCALO RT-501 / RT-501 SOCKET CABLE SET
AZ006		0 CC3110	PL.CIMP ADAPTADOR A6 RT501 / RT-501 A6 ADAPTER PCB
AZ006		0 PP0900	CAJA ADAPTADOR ZOCALOS RT-501 / RT-501 SOCKET ADAPTER BOX
AZ006		0 TC0610	TUERC/ NUT HEXAG.M2 LA ZIN DIN 934
AZ006		0 TO1910	TORN / SCREW DIN-7981 2.9X 6.5 FE ZIN
AZ006		0 TO2980	TORN / SCREW DIN-965 M2X10 FE ZIN
AZ006		0 ZO0150	ZOCALO TV MACHO / MALE TV SOCKET 8P 18.20
AZ006		0 ZO0190	ZOCALO TRC HEMBRA / FEMALE CRT SOCKET 14P 18.22
TA903BES01		AZ007	A-7 ADAPTADOR ZOCALO TUBO / A-7 TUBE SOCKET ADAPTER
AZ007		0 CA5530	JUEGO CABLES POR ZOCALO RT-501/ RT-501 SOCKET CABLE SET
AZ007		0 CC3610	PL.CIMP ADAPTADOR A7 RT501/ RT-501 A7 ADAPTER PCB
AZ007		0 PP0900	CAJA ADAPTADOR ZOCALOS RT-501/ RT-501 SOCKET ADAPTER BOX
AZ007		0 TC0610	TUERC. / NUT HEXAG.M2 LA ZIN DIN 934
AZ007		0 TO1910	TORN / SCREW DIN-7981 2.9X 6.5 FE ZIN
AZ007		0 TO2980	TORN / SCREW DIN-965 M2X10 FE ZIN
AZ007		0 ZO0150	ZOCALO TV MACHO / MALE TV SOCKET 8P 18.20
AZ007		0 ZO0190	ZOCALO TRC HEMBRA / FEMALE CRT SOCKET 14P 18.22
TA903BES01		AZ008	A-8 ADAPTADOR ZOCALO TUBO / A-8 TUBE SOCKET ADAPTER
AZ008		0 CA6100	JGO.CABLES ZOCALO TUBO A8-A9 / A8-A9 SOCKET CABLE SET
AZ008		0 CC3430	PL.CIMP ADAPTADOR A8 RT501 / RT501 A8 PCB ADAPATER



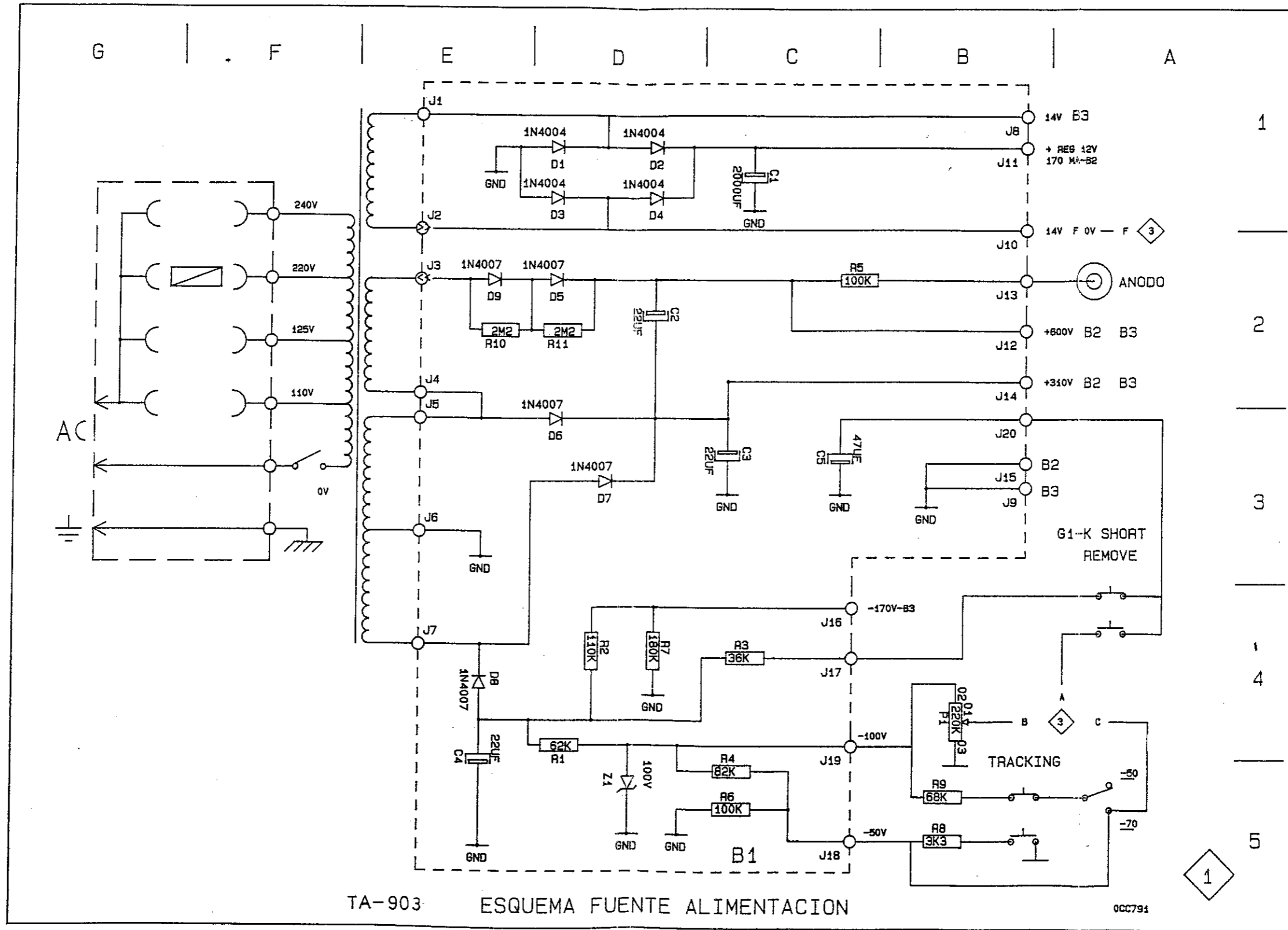
1. Listado de Componentes, Esquemas y Planos de Posición de Componentes
Parts List, Circuit Diagrams and PCB Layouts

AZ008		0 PP0900	CAJA ADAPTADOR ZOCALOS RT-501 / RT-501 SOCKET ADAPTER BOX
AZ008		0 TC0610	TUERC. / NUT HEXAG.M2 LA ZIN DIN 934
AZ008		0 TO1910	TORN / SCREW DIN-7981 2.9X 6.5 FE ZIN
AZ008		0 TO2980	TORN / SCREW DIN-965 M2X10 FE ZIN
AZ008		0 ZO0150	ZOCALO TV MACHO / MALE TV SOCKET 8P 18.20
AZ008		0 ZO0210	ZOCALO TRC / CRT SOCKET S.811/12
TA903BES01		AZ009	A-9 ADAPTADOR ZOCALO TUBO / A-9 TUBE SOCKET ADAPTER
AZ009		0 CA6100	JGO.CABLES ZOCALO TUBO A8-A9 / A8-A9 SOCKET CABLE SET
AZ009		0 CC3440	PL.CIMP ADAPTADOR A9 RT501 / RT501 A9 ADAPTER PCB
AZ009		0 PP0900	CAJA ADAPTADOR ZOCALOS RT-501 / RT-501 SOCKET ADAPTER BOX
AZ009		0 TC0610	TUERC.HEXAG. / NUT M2 LA ZIN DIN 934
AZ009		0 TO1910	TORN / SCREW DIN-7981 2.9X 6.5 FE ZIN
AZ009		0 TO2980	TORN / SCREW DIN-965 M2X10 FE ZIN
AZ009		0 ZO0150	ZOCALO TV MACHO / MALE TV SOCKET 8P 18.20
AZ009		0 ZO0220	ZOCALO TRC / CRT SOCKET S.800.14
TA903BES01		0 AC0040	BOLSA MINIGRIP / MINIGRIP PLASTIC BAG 180 X 250
TA903BES01		0 AC0530	BOLSA / BAG POLITENO 236X335 GAL.200
TA903BES01		0 EM2040	SUPLEMENTO EMBALAJE TA-903 / TA-903 PACKING SUPPLEMENT
TA903BES01		0 EM2320	EMBALAJE EXT. TA-903 C/SERIGR. / TA-903 EXTERNAL PACKING
TA903BES01		0 EM2330	SUPLEMENTO EMBAL.TA-903 / TA-903 PACKING SUPPLEMENT
TA903BES01		0 FS0040	FU.5X20 500MA F 250V IEC127
TA903BES01		0 IF0920	TARJETA GARANTIA PROMAX / PROMAX GUARANTEE CARD
TA903BES01		0 IF9590	LIST.ADAPT.(REGENERA.TRC)LA-33 / LA-33 ADAPTER (REGEN.) LIST
TA903BES01		0 MI0218	HOJA ADICIONAL TA-903B / TA-903b ADDITIONAL SHEET
TA903BES01		CC011	CC-11 CABLE ADAPTADORS RT-501 / RT-501 ADAPTER CABLE CC-11
CC011		0 CA0940	MTS.MANGUERA 8X0.25 D.5-6MM GR
CC011		0 CO0950	CTOR."D" 9VIAS MACHO / MALE SOLD.
CC011		0 CO0960	CTOR SAP CAPERUZA CE9+FB
CC011		0 PC0140	P/ESTOPAS NORMANYL PG-7 RT-501
CC011		0 PP2210	PROTECTOR ADAPT.ZOCALO TRC / CRT SOCKET ADAPT. PROTECTOR
CC011		0 TC0830	CONTRATUERCA POLIMIDA N.7
CC011		0 TO3170	TORN / SCREW DIN-7982 2.2X 8 FE ZIN
CC011		0 ZO0160	ZOCALO TRC HEMBRA / FEMALE CRT SOCKET 8P 18.18
TA903BES01		CC026	CC-26 CABLE ANODO / ANODE CABLE CC-26 TA-903
CC026		0 CA0390	MTS. CABLE 1 MM ROJO PT. PRUEB
CC026		0 GO0250	VENTOSA MAT
CC026		0 PG2410	PINZA VENTOSA DH 18.30 0GO025
CC026		0 PN0420	BANANA ROJA / RED BANANKT425 SL-1(PROTEC)
CC026		0 PN0430	PUNTA BANANA ROJA / RED BAN. END LS425 SL-1
MODULE	POS. ID.	P.N.	DESCRIPTION
TA903BES01		TA903B6000000	M.M. Y M.E CONJUNTO / ENSEMBLE E. & M. ASSEMBLY
TA903B6000000		TA903B7APG3360	MALETACON REMACHES TA-903B/TA-903B CARRYING BAG WITH RIVET
TA903B6000000		0 AR0310	ARAND. / WAHSER BAQUELITA 3.25X8.5X1
TA903B6000000		0 AR0620	ARAND.PLANA / FLAT WASHER 3.2X7X0.5 FE ZIN
TA903B6000000		0 AR0620	ARAND.PLANA / FLAT WASHER 3.2X7X0.5 FE ZIN
TA903B6000000		0 AR0710	ARAND.DENT / SERRATED WASHER 3.2J DIN 6797
TA903B6000000		0 AR0710	ARAND.DENT / SERRATED WASHER 3.2J DIN 6797
TA903B6000000		0 AR0760	ARAND.GROVER / LOCK WAHSER M3
TA903B6000000		0 AT0800	PLACA AISLANTE TR-851/TA-903B / TR-851/TA-903B INSULTOR BOARD
TA903B6000000		0 BD0130	BRIDA / CLAMP UNEX 222.1
TA903B6000000		0 BM1070	FLECHA BOTON AZUL / BLUE BUTTON ARROW 14 DI
TA903B6000000		0 BM1080	FLECHA BOTON GRIS / GREY BUTTON ARROW 14 DI
TA903B6000000		0 BM1090	FLECHA BOTON ROJO / RED BUTTON ARROW 14 DI
TA903B6000000		0 BM1240	BOTON GRIS MATE / DULL GREY BUTTON 14 DI E4
TA903B6000000		0 BM1450	TAPA BOTON MATE AZUL / DULL BLUE BUTTON LID 14DI
TA903B6000000		0 BM1460	TAPA BOTON MATE GRIS / DULL GREY BUTTON LID 14DI
TA903B6000000		0 BM1470	TAPA BOTON MATE ROJO / DULL RED BUTTON LID 14DI
TA903B6000000		0 BM1890	FLECHA BOTON VERDE / GREEN BUTTON ARROW 14 DI

TA903B6000000	0 BM1900	TAPA BOTON MATE VERDE / DULL GREEN BUTTON LID 014
TA903B6000000	0 BT2180	BOT.TONELUCK PULSADORES / TONELUCK PUSH BUTTON TA903B
TA903B6000000	0 CA6600	JUEGO CABLES TA-903B / TA-903B CABLE SET
TA903B6000000	0 CM0590	CONMUT.DESLIZ. / SLIDEBLE SWITCH 17135 DH
TA903B6000000	0 CO0940	CTOR."D" 9VIAS HEMBRA SOLD.
TA903B6000000	0 DI1040	DI ZENER 100V-1W3-6%-5mA
TA903B6000000	0 DT0180	HEXAG E/C 6 L15 RM3
TA903B6000000	0 DT0310	DIST.CILIND PLASTICO / PLASTIC ROUND SPACER D4XD6XL6
TA903B6000000	0 DT0330	HEXAG E/C 6 L11 RM3
TA903B6000000	0 DT1350	DIST.CILIND. / ROUND SPACER D7.5X12X2 FE ZC
TA903B6000000	0 DT1860	HEXAG E/C6L50RM3C/ESP.RM3L1=15
TA903B6000000	0 EQ3131	UVAS CONECT"D"VIENEN C/OCO0940
TA903B6000000	0 EV0063	ETIQ.ADHESIVA / ADHESIVE LABEL 249X119 TA-903B
TA903B6000000	0 EV0200	ETIQ.TERMICA PARA COD.BARRAS / CODE BAR LABEL
TA903B6000000	0 FS0040	FU.5X20 500MA F 250V IEC127
TA903B6000000	0 GO0330	GOMA ESPUMA PROTECTORA TR-850 / TR850 PROTECTOR FOAM RUB.
TA903B6000000	0 HE0200	HEMBRILLA R.MC.SLB4R-233010-1
TA903B6000000	0 IL0020	LED ROJO DIFUSO / DIFFUSED RED LED 5MM
TA903B6000000	0 IL0930	PILOTO NEON / NEON PILOT S/RES. 65V Ref.111
TA903B6000000	0 IL0940	PILOTO NEON / NEON PILOT R. 220V Ref.111
TA903B6000000	0 IT0020	INTERRUP. MINIATURA / MINISWITCH
TA903B6000000	0 PC0080	PASA HILOS R5
TA903B6000000	0 PH0550	POTEN 21E4 S/I 5K LIN L6.5
TA903B6000000	0 PH1610	POT. T21 - - X 220K 01 A
TA903B6000000	0 PH1620	POT. T21 T - - X 470+470K 01 A
TA903B6000000	0 PP1160	CAPUCHON PROTECTOR INTERRUPTOR / SWITCH PROTECTOR
TA903B6000000	0 PP2770	MARCO CENTR.TECLA / KEY CENTRAL FRAME 2MM 9.8X9.8
TA903B6000000	0 PP3500	TECLA CUADRADA ROJA / RED SQUARE KEY 14.7X14.7
TA903B6000000	0 PP3510	TECLA CUADRADA VERDE / GREEN SQUARE KEY 14.7X14.7
TA903B6000000	0 PP3520	TECLA CUADRADA AMAR. / YELLOW SQUARE KEY 14.7X14.7
TA903B6000000	0 PT0130	PORTAFUS. 031.1081 SCHURTER
TA903B6000000	0 RC3320	RESIST 5% 1/4W 3K3 OHM
TA903B6000000	0 RC5130	RESIST 5% 1/4W 51K OHM
TA903B6000000	0 RC6830	RESIST 5% 1/4W 68K OHM
TA903B6000000	0 RM0210	REMACHE ALUMINIO / ALUMINIUM RIVET 4PO-175
TA903B6000000	0 RN0620	RESIST 2W 5% 82K OHM
TA903B6000000	0 SR0230	SOPORTE DIODO LED / LED DIODE SUPPORT
TA903B6000000	0 SR1390	STE.CINTA ELASTICA TR-850
TA903B6000000	0 TC0620	TUERC. / NUT HEXAG.M3 FE ZIN DIN 934
TA903B6000000	0 TC0620	TUERC. / NUT HEXAG.M3 FE ZIN DIN 934
TA903B6000000	0 TC0910	TUERCA RAPIDA SEGUR"U" / NUT DIN7970
TA903B6000000	0 TE0090	TERMINAL 3.2X6X12.5
TA903B6000000	0 TE0760	TERMINAL FASTON HEMBRA / FEMALE FASTON TERMINAL 6.3X0.8
TA903B6000000	0 TF2910	TRANSF.FILAMENTOS TR-850
TA903B6000000	0 TF3590	TRANSF.ALIM.TA-903/TR-850 / TA-903/TR/850 POWER SUPPLY TRANF.
TA903B6000000	0 TO1960	TORN / SCREW DIN-7985 M3X 6 FE ZIN
TA903B6000000	0 TO1960	TORN / SCREW DIN-7985 M3X 6 FE ZIN
TA903B6000000	0 TO1980	TORN / SCREW DIN-7985 M3X 8 FE NIQ
TA903B6000000	0 TO2030	TORN / SCREW DIN-7985 M3X12 FE ZIN
TA903B6000000	0 TO2510	TORN / SCREW DIN-7985 M4X10 FE ZIN
TA903B6000000	0 TO2820	TORN / SCREW DIN-7985 M3X 6 FE NIQ
TA903B6000000	0 TO3380	TORN / SCREW DIN-913 M3X 6 PRISIONERO
TA903B6000000	0 TO3710	TORN / SCREW DIN-7981 2.9X 9.5 FE NIQ
TA903B6000000	CA005	CA-05 CABLE RED CEE7 / CEE7 MAINS CORD CA-05
TA903B6000000	TA903B3000000	MM. ESCALA INSTRUMENTO / INSTRUMENT SCALE M. A.
TA903B6000000	TA903B3CH0100	SERIG. CHASIS / CHASSIS PRINTING

1.4 BOTONERA / SWITCH ASSEMBLY

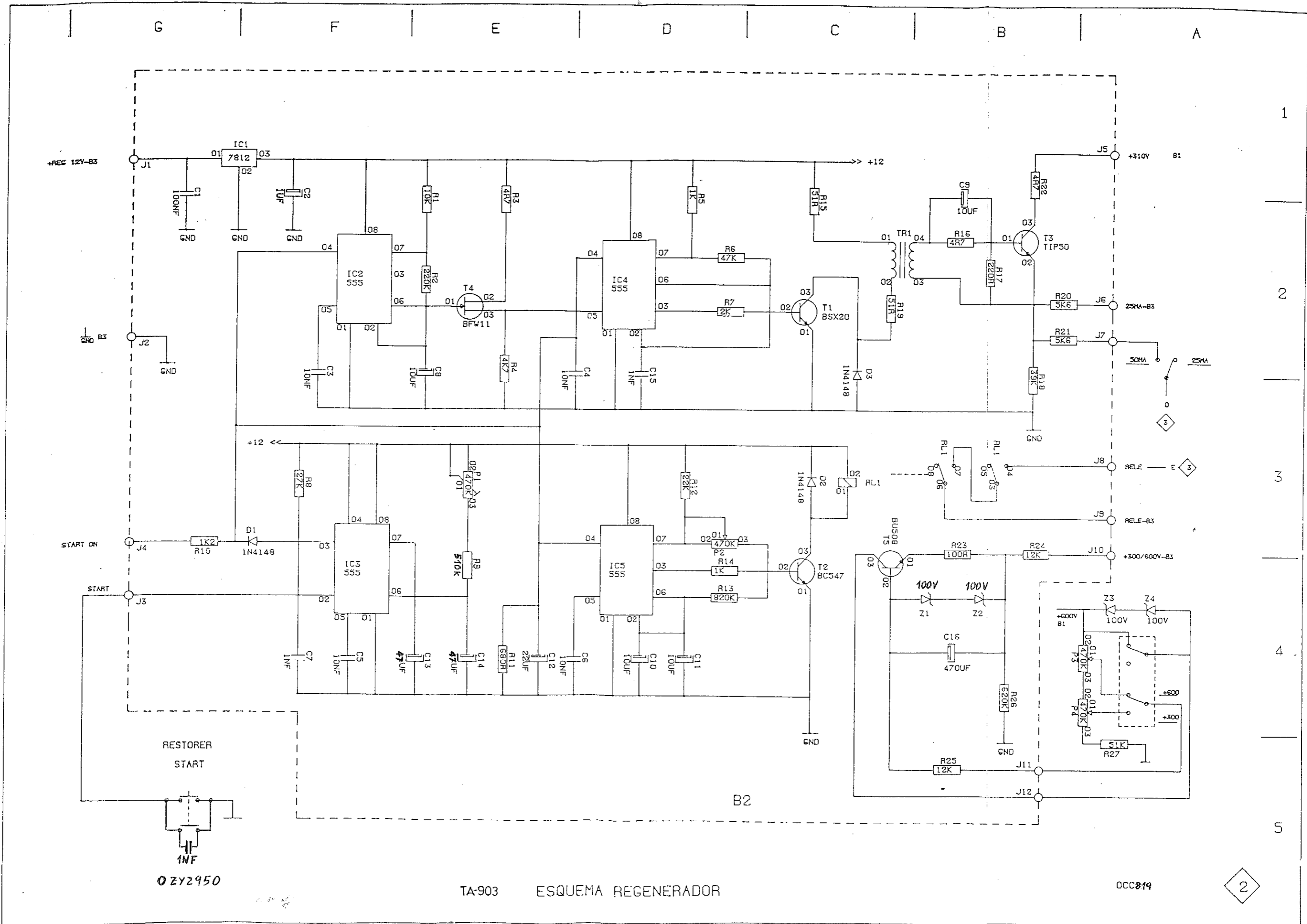
MODULE	POS. ID.	P.N.	DESCRIPTION
TA903B6000000		TA903B2000100	ME.CI. BOTONERA / SWITCH ASSEMBLY PCB E. A.
TA903B2000100		0 CD0084	PL.CIMP.BOTONERA TA-903 / TA-903 SWITCH ASSEMBLY PCB
TA903B2000100		0 AT0120	SEPARADOR / SPACER ESTEATITA 4X4X1.2
TA903B2000100		0 BT2170	BOT. / BUTTON TONELUCK TA-903
TA903B2000100		0 PP2080	TECLA CUADRADA GRIS / GREY SQUARE KEY 7X7 ABS
TA903B2000100		0 PP2270	TECLA CUADRADA ROJA / RED SQUARE KEY 7X7 ABS
TA903B2000100		0 PP2280	TECLA CUADRADA AZUL / BLUE SQUARE KEY 7X7 ABS
TA903B2000100		0 PP2290	TECLA CUADRADA VERDE / GREEN SQUARE KEY 7X7 ABS
TA903B2000100		0 PP2300	TECLA CUADRADA GRIS OSCUR / DULL GREY SQUARE KEY 7X7
TA903B2000100	D001	0 DI0180	DI 1N4148 SIG 100MA-75V-4NS
TA903B2000100	D002	0 DI0180	DI 1N4148 SIG 100MA-75V-4NS
TA903B2000100	D003	0 DI0180	DI 1N4148 SIG 100MA-75V-4NS
TA903B2000100	D004	0 DI0180	DI 1N4148 SIG 100MA-75V-4NS
TA903B2000100	P001	0 PA1990	POT.CARB.PT-10LV 100 OHM
TA903B2000100	P002	0 PA1990	POT.CARB.PT-10LV 100 OHM
TA903B2000100	P003	0 PA1990	POT.CARB.PT-10LV 100 OHM
TA903B2000100	P004	0 PA2010	POT.CARB.PT-10LV 1K OHM
TA903B2000100	R001	0 RC2250	RESIST 5% 1/4W 2M2 OHM
TA903B2000100	R002	0 RC2250	RESIST 5% 1/4W 2M2 OHM
TA903B2000100	R003	0 RC2250	RESIST 5% 1/4W 2M2 OHM
TA903B2000100	R004	0 RC2250	RESIST 5% 1/4W 2M2 OHM
TA903B2000100	R005	0 RC2250	RESIST 5% 1/4W 2M2 OHM
TA903B2000100	R006	0 RC2250	RESIST 5% 1/4W 2M2 OHM
TA903B2000100	R007	0 RC2230	RESIST 5% 1/4W 22K OHM
TA903B2000100	R008	0 RC1040	RESIST 5% 1/4W 100K OHM
TA903B2000100	R009	0 RC1040	RESIST 5% 1/4W 100K OHM
TA903B2000100	R010	0 RC1040	RESIST 5% 1/4W 100K OHM
TA903B2000100	R011	0 RC1040	RESIST 5% 1/4W 100K OHM
TA903B2000100	R012	0 RC1040	RESIST 5% 1/4W 100K OHM
TA903B2000100	R013	0 RC3340	RESIST 5% 1/4W 330K OHM
TA903B2000100	R014	0 RB0640	RESIT.BOBIN BC4-10 OHM DAVILA
TA903B2000100	R015	0 RC1000	RESIST 5% 1/4W 10 OHM
TA903B2000100	R016	0 RC2700	RESIST 5% 1/4W 27 OHM
TA903B2000100	R017	0 RC2700	RESIST 5% 1/4W 27 OHM
TA903B2000100	R018	0 RC2700	RESIST 5% 1/4W 27 OHM
TA903B2000100	R019	0 RC8210	RESIST 5% 1/4W 820 OHM
TA903B2000100	R020	0 RC8210	RESIST 5% 1/4W 820 OHM
TA903B2000100	R021	0 RC8210	RESIST 5% 1/4W 820 OHM
TA903B2000100	R023	0 RC8210	RESIST 5% 1/4W 820 OHM
TA903B2000100	R024	0 RC6240	RESIST 5% 1/4W 620K OHM
TA903B2000100	R025	0 RC1840	RESIST 5% 1/4W 180K OHM
TA903B2000100	R026	0 RC1140	RESIST 5% 1/4W 110K OHM



TA-903 ESQUEMA FUENTE ALIMENTACION

0CC791

1



0ZY2950

TA-903 ESQUEMA REGENERADOR

OCC219

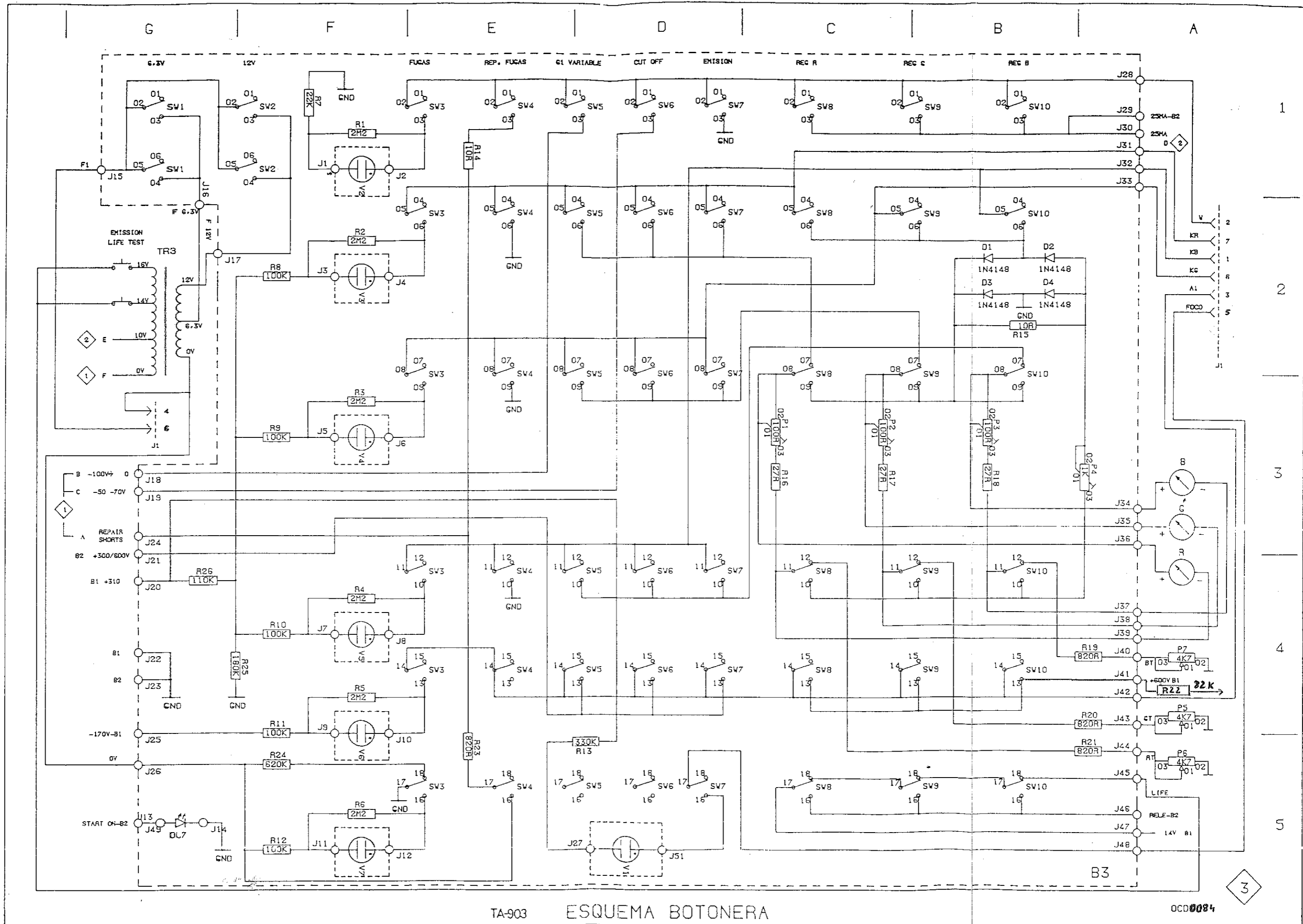
1.5 PLACA BAE / BASE PCB

MODULE	POS. ID.	P.N.	DESCRIPTION
TA903B6000000		TA903B2000000	ME.CI. BASE / BASE PCB E. A.
TA903B2000000		0 CC8190	PL.CIMP.BASE TA-903 / TA-903 BASE PCB
TA903B2000000		0 AR0920	ARAND.PLANA / FLAT WASHER 3.2X10X1 FE ZN
TA903B2000000		0 AR0760	ARAND.GROVER / LOCK WASHER M3
TA903B2000000		0 AT0120	SEPARADOR / SPACER ESTEATITA 4X4X1.2
TA903B2000000		0 BD0130	BRIDA / CLAMP UNEX 222.1
TA903B2000000		0 CA1800	PUENTE CONEXION (EN BANDA) / CONNECTION BRIDGE
TA903B2000000		0 RF0130	REFRI. REF 6043PB THML
TA903B2000000		0 TC0620	TUERC. / NUT HEXAG.M3 FE ZIN DIN 934
TA903B2000000		0 TE0040	TERMINALES PLANOS ESPADA
TA903B2000000		0 TE0120	TERMINAL IB-311
TA903B2000000		0 TO2030	TORN / SCREW DIN-7985 M3X12 FE ZIN
TA903B2000000		0 ZO0010	ZOCALO CI / SOCKET 8 PINS (W7.62)
TA903B2000000	C001	0 ZV1040	COND.CER MULTICAPA / MULTILAYER CERAMIC CAPAC. 100N 50V R5
TA903B2000000	C002	0 CT0540	COND. / CAPAC. TANTALIO 25V 1UF
TA903B2000000	C003	0 ZX1900	C.CER. 10NF-S 100V K12000
TA903B2000000	C004	0 ZX1900	C.CER. 10NF-S 100V K12000
TA903B2000000	C005	0 ZX1900	C.CER. 10NF-S 100V K12000
TA903B2000000	C006	0 ZX1900	C.CER. 10NF-S 100V K12000
TA903B2000000	C007	0 ZY2950	COND.CER / CERAMIC CAPAC. 1N -K 500V K2000
TA903B2000000	C008	0 CT1340	COND. / CAPAC. TANTALIO 16V 10UF20% AVX
TA903B2000000	C009	0 CE5210	COND. / CAPAC. ELCO.RAD 16/63V 10UF
TA903B2000000	C010	0 CT1340	COND. / CAPAC. TANTALIO 16V 10UF20% AVX
TA903B2000000	C011	0 CT1340	COND. / CAPAC. TANTALIO 16V 10UF20% AVX
TA903B2000000	C012	0 CE5220	COND. / CAPAC. ELCO.RAD 16 V 22UF R-2
TA903B2000000	C013	0 CT1350	COND. / CAPAC. TANTALIO 16V 47UF20% AVX
TA903B2000000	C014	0 CT1350	COND. / CAPAC. TANTALIO 16V 47UF20% AVX
TA903B2000000	C015	0 CL0460	COND. / CAPAC. POLIPRO 1N 5% 160V
TA903B2000000	C016	0 CE0430	COND. / CAPAC. ELCO.AXL 10V 470UF
TA903B2000000	D001	0 DI0180	DI 1N4148 SIG 100MA-75V-4NS
TA903B2000000	D002	0 DI0180	DI 1N4148 SIG 100MA-75V-4NS
TA903B2000000	D003	0 DI0180	DI 1N4148 SIG 100MA-75V-4NS
TA903B2000000	IC001	0 CI0510	CI 7812/TO220 L-REG +12V-1A
TA903B2000000	IC002	0 CI5150	CI 555P/TEXAS L-VAR
TA903B2000000	IC003	0 CI5150	CI 555P/TEXAS L-VAR
TA903B2000000	IC004	0 CI5150	CI 555P/TEXAS L-VAR
TA903B2000000	IC005	0 CI5150	CI 555P/TEXAS L-VAR
TA903B2000000	P001	0 PA2070	POT.CARB.PT-10LV 470K OHM
TA903B2000000	P002	0 PA2070	POT.CARB.PT-10LV 470K OHM
TA903B2000000	R001	0 RC1030	RESIST 5% 1/4W 10K OHM
TA903B2000000	R002	0 RC2240	RESIST 5% 1/4W 220K OHM
TA903B2000000	R003	0 RC0470	RESIST 5% 1/4W 4.7 OHM
TA903B2000000	R004	0 RC4720	RESIST 5% 1/4W 4K7 OHM
TA903B2000000	R005	0 RC1020	RESIST 5% 1/4W 1K OHM
TA903B2000000	R006	0 RQ4640	RES MF 1/4W 1% 100PPM 46K4 OHM
TA903B2000000	R007	0 RC2020	RESIST 5% 1/4W 2K OHM
TA903B2000000	R008	0 RC2730	RESIST 5% 1/4W 27K OHM
TA903B2000000	R009	0 RC5140	RESIST 5% 1/4W 510K OHM
TA903B2000000	R010	0 RC1220	RESIST 5% 1/4W 1K2 OHM
TA903B2000000	R011	0 RC6810	RESIST 5% 1/4W 680 OHM
TA903B2000000	R012	0 RC2230	RESIST 5% 1/4W 22K OHM
TA903B2000000	R013	0 RC8240	RESIST 5% 1/4W 820K OHM
TA903B2000000	R014	0 RC1020	RESIST 5% 1/4W 1K OHM
TA903B2000000	R015	0 RD5100	RESIST 5% 1/2W 51 OHM
TA903B2000000	R016	0 RC0470	RESIST 5% 1/4W 4.7 OHM
TA903B2000000	R017	0 RC2210	RESIST 5% 1/4W 220 OHM

TA903B2000000	R018	0 RN0340	RESIST 2W 5% 39K OHM
TA903B2000000	R019	0 RD5100	RESIST 5% 1/2W 51 OHM
TA903B2000000	R020	0 RB0420	RESIST BOBI 5K6 OHM 8W 10%
TA903B2000000	R021	0 RB0420	RESIST BOBI 5K6 OHM 8W 10%
TA903B2000000	R022	0 RC0470	RESIST 5% 1/4W 4.7 OHM
TA903B2000000	R023	0 RC1010	RESIST 5% 1/4W 100 OHM
TA903B2000000	R024	0 RC1230	RESIST 5% 1/4W 12K OHM
TA903B2000000	R025	0 RC1230	RESIST 5% 1/4W 12K OHM
TA903B2000000	R026	0 RC6240	RESIST 5% 1/4W 620K OHM
TA903B2000000	RL001	0 RE0380	RELE / RELAY LYNNKS UYD110P12VDC
TA903B2000000	T001	0 TR0280	TR 2N2369 N TO18 15V-0.5A-0.36
TA903B2000000	T002	0 TR0110	TR BC548 N LPW-30V-0.1A-300M
TA903B2000000	T003	0 TR0900	TR TIP50 N SPW-400V-1A-40W
TA903B2000000	T004	9999991TR0600	SELEC.FET BF-245A/1-1.3 A 3MA
TA903B2000000	T005	0 TR1530	TR BU508AW/PHILIPS SOT429
TA903B2000000	TR001	0 TF1100	TRANSF.IMPULSOS / IMPULSE TRANF. RT501B/TA903
TA903B2000000	Z001	0 DI1040	DI ZENER 100V-1W3-6%-5mA
TA903B2000000	Z002	0 DI1040	DI ZENER 100V-1W3-6%-5mA

1.6 FUENTE DE ALIMENTACIÓN / POWER SUPPLY

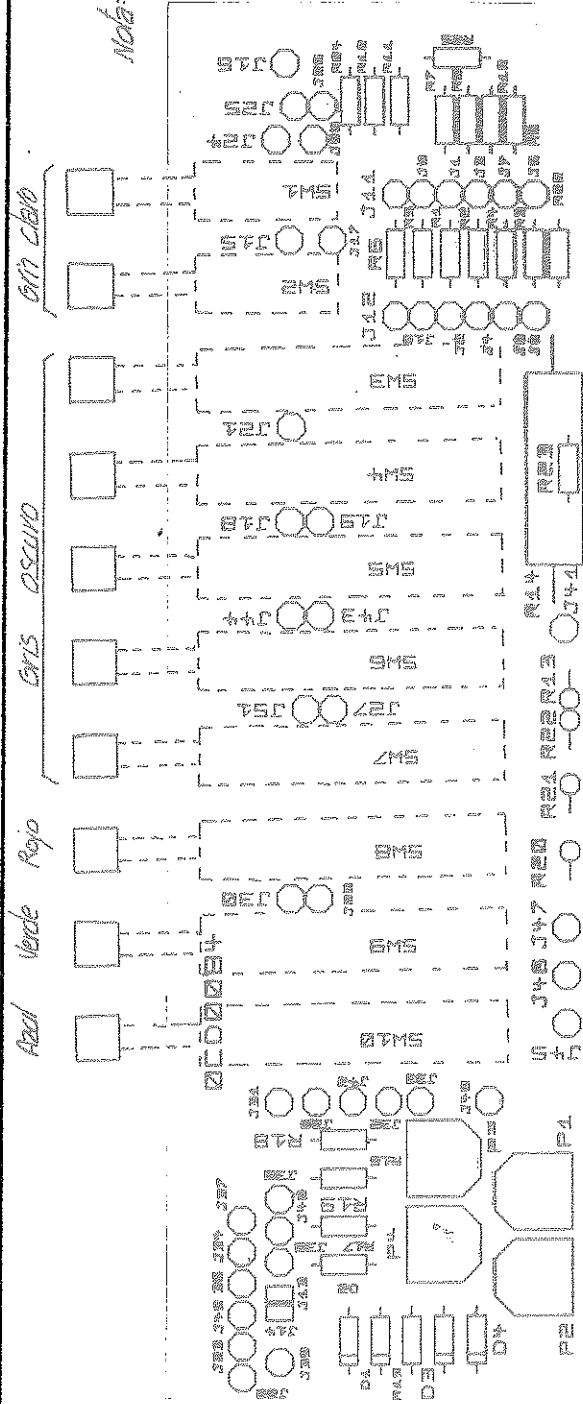
MODULE	POS. ID.	P.N.	DESCRIPTION
TA903B6000000		TA903B2000200	ME.CI. FTE. ALIMENTACION / POWER SUPPLY PCB E. A.
TA903B2000200		0 CC7910	PL.CIMP.ALIMENTACION TA-903 / TA-903 POWER SUPPLY PCB
TA903B2000200		0 CA1800	PUENTE CONEXION (EN BANDA) / CONNECTION BRIDGE
TA903B2000200	C001	0 CE5460	COND. / CAPAC. ELCO.RAD 25V 2200UF
TA903B2000200	C002	0 CE6140	COND. / CAPAC. ELCO.RAD 350V 22UF
TA903B2000200	C003	0 CE6140	COND. / CAPAC. ELCO.RAD 350V 22UF
TA903B2000200	C004	0 CE6140	COND. / CAPAC. ELCO.RAD 350V 22UF
TA903B2000200	C005	0 CE2000	COND. / CAPAC. ELCO.AXL 350V 47UF
TA903B2000200	D001	0 DI0130	DI 1N4007 RTF 1A-1000V
TA903B2000200	D002	0 DI0130	DI 1N4007 RTF 1A-1000V
TA903B2000200	D003	0 DI0130	DI 1N4007 RTF 1A-1000V
TA903B2000200	D004	0 DI0130	DI 1N4007 RTF 1A-1000V
TA903B2000200	D005	0 DI0130	DI 1N4007 RTF 1A-1000V
TA903B2000200	D006	0 DI0130	DI 1N4007 RTF 1A-1000V
TA903B2000200	D007	0 DI0130	DI 1N4007 RTF 1A-1000V
TA903B2000200	D008	0 DI0130	DI 1N4007 RTF 1A-1000V
TA903B2000200	D009	0 DI0130	DI 1N4007 RTF 1A-1000V
TA903B2000200	R001	0 RD6230	RESIST 5% 1/2W 62K OHM
TA903B2000200	R002	0 RC1140	RESIST 5% 1/4W 110K OHM
TA903B2000200	R003	0 RC3630	RESIST 5% 1/4W 36K OHM
TA903B2000200	R004	0 RC8230	RESIST 5% 1/4W 82K OHM
TA903B2000200	R005	0 RC1040	RESIST 5% 1/4W 100K OHM
TA903B2000200	R006	0 RC1040	RESIST 5% 1/4W 100K OHM
TA903B2000200	R007	0 RC1840	RESIST 5% 1/4W 180K OHM
TA903B2000200	R010	0 RC2250	RESIST 5% 1/4W 2M2 OHM
TA903B2000200	R011	0 RC2250	RESIST 5% 1/4W 2M2 OHM
TA903B2000200	Z001	0 DI1040	DI ZENER 100V-1W3-6%-5mA



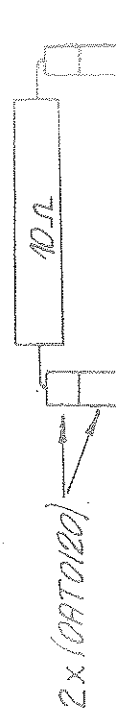
TA-903 ESQUEMA BOTONERA

OCD0084

Nota: la botonera va instalada por cada robotada



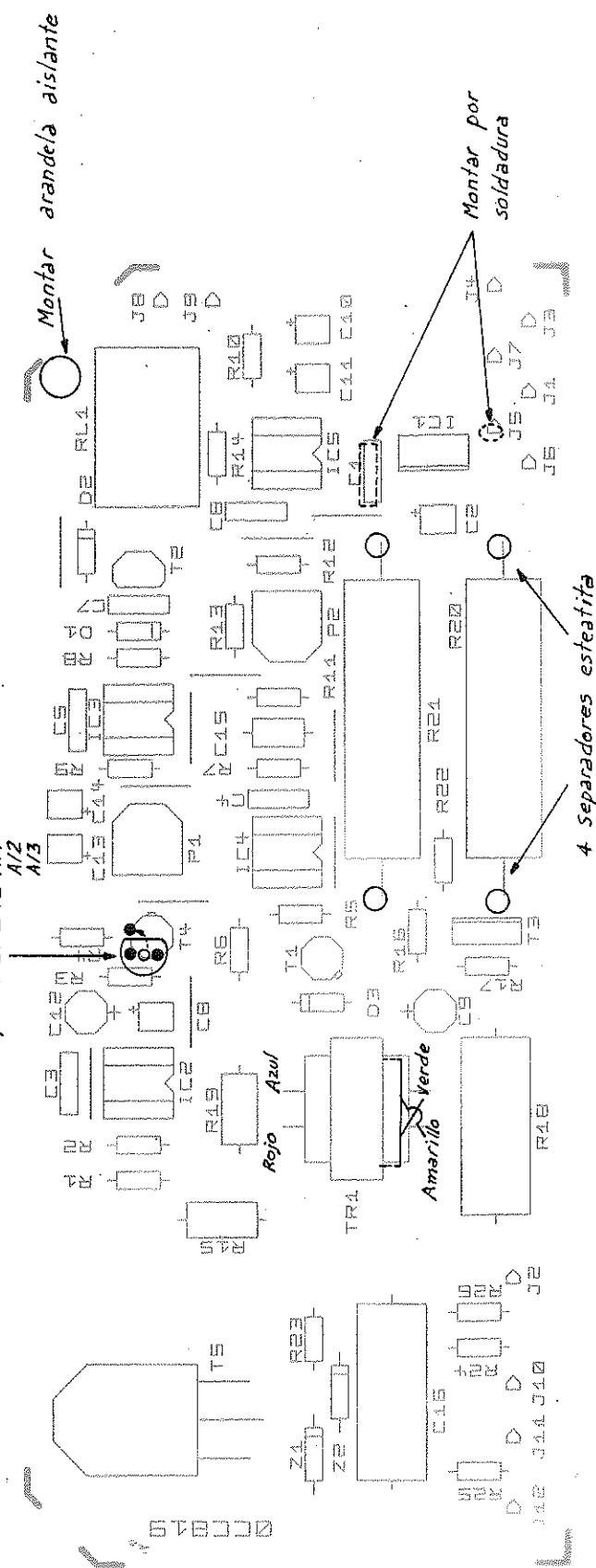
Montaje Eléctrico de la R14



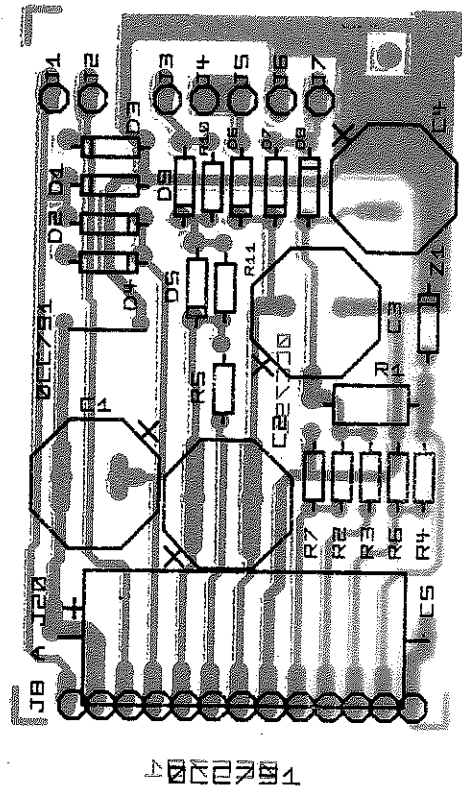
Actualizado 2-6-92

PROMAX BARCELONA INSTRUCCIONES MANUALES DE SERVICIO	LADO COMPONENTES P. Cl. Botonera MOD. TA 903	O Hilo soldado © Term. RTM 1.315/8.002 O Term. espada C. I.	Val. en Ω, F y H. R. 1% Comp. a punto:
	COD. de D. 0084 Fecha 13-5-92	Δ Term. IB 311 Ⓜ Con. CIS	

000015 7 4 Opción BF245 MAX PLACA BASE



PROMAX BARCELONA INSTRUCCIONES MANUALES DE SERVICIO	LADO COMPONENTES		O Hilo soldado	Val. en Ω , F y H.
	P.CI. BASE	COD. 000819	© Term. RTM 1.3/5/8.002	R. \square 1%
	MOD. TA-903	Fecha 5-10-92	O Term. espada C.I.	Comp. a punto:



PROMAX BARCELONA
INSTRUCCIONES MANUALES
DE SERVICIO

LADO COMPONENTES
 P. CI. Fuente de alimentación COD. 000791
 MOD. TA-903 Fecha 24-5-91

O Hilo soldado
 ⊙ Term. RTM 13/5/8.002 Δ Term. IB311
 ○ Term. espada C.I. █ Con. CIS

Val. en Ω, E y H.
 R. 1%
 Comp. a punto: