



# MT 180 A

Active,  
processor controlled,  
2-way system

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SERVICE MANUAL    *MANUALE DI SERVIZIO*

**2003**

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# MT 180 A

ACTIVE, PROCESSOR CONTROLLED, 2-WAY SYSTEM



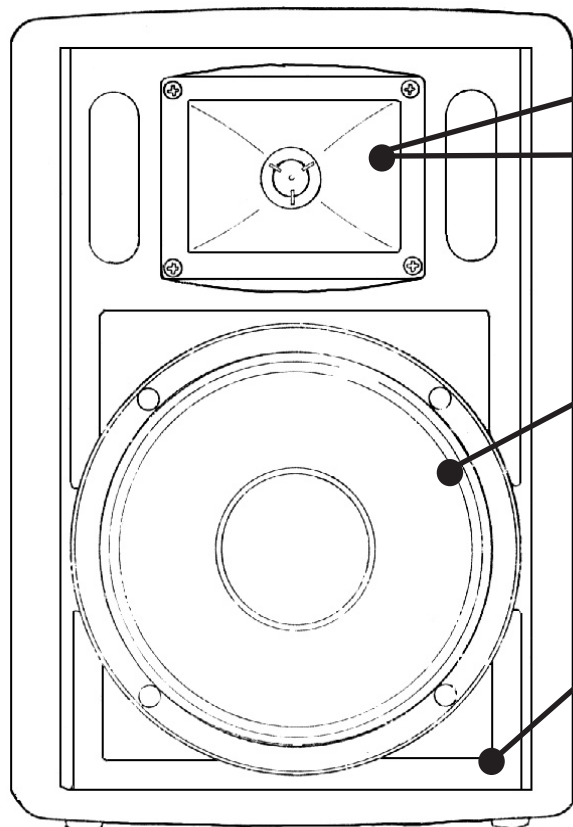
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## SPARE PARTS PARTI DI RICAMBIO

**A300555**

1" horn loaded driver

*Driver da 1" caricato a tromba*

**A300641**

Diaphragm

*Membrana*

**A300149**

8" High efficiency Loudspeaker 8ohm

*Altoparlante 8" ad alta efficienza 8ohm*

**B011801**

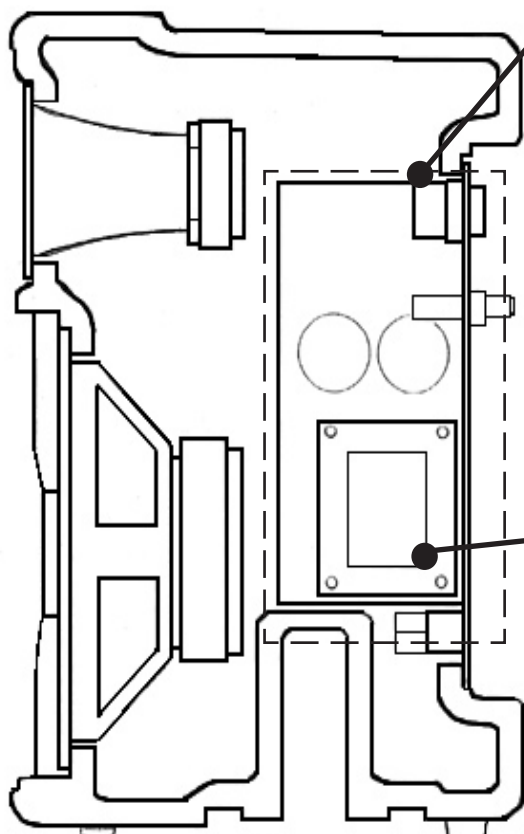
Perforated steel grid

*Griglia di protezione in acciaio*

**D520180**

Amplifier chassis

*Telaio amplificatore*

**B14MTAF**

PC MTBF Mosfet support

*CS MTBF Supporto mosfet*

**D001801**

PC MTBYR2 preamplifier + filter

*CS MTBYR2 Preamplificatore + filtro*

**D001802**

PC MTBW XLR + Jacks

*CS MTBW XLR + Jack*

**D001803**

PC MTBTR6 Transformer & power supply

*CS MTBTR6 Trasformatore e alimentazione*

**B005180**

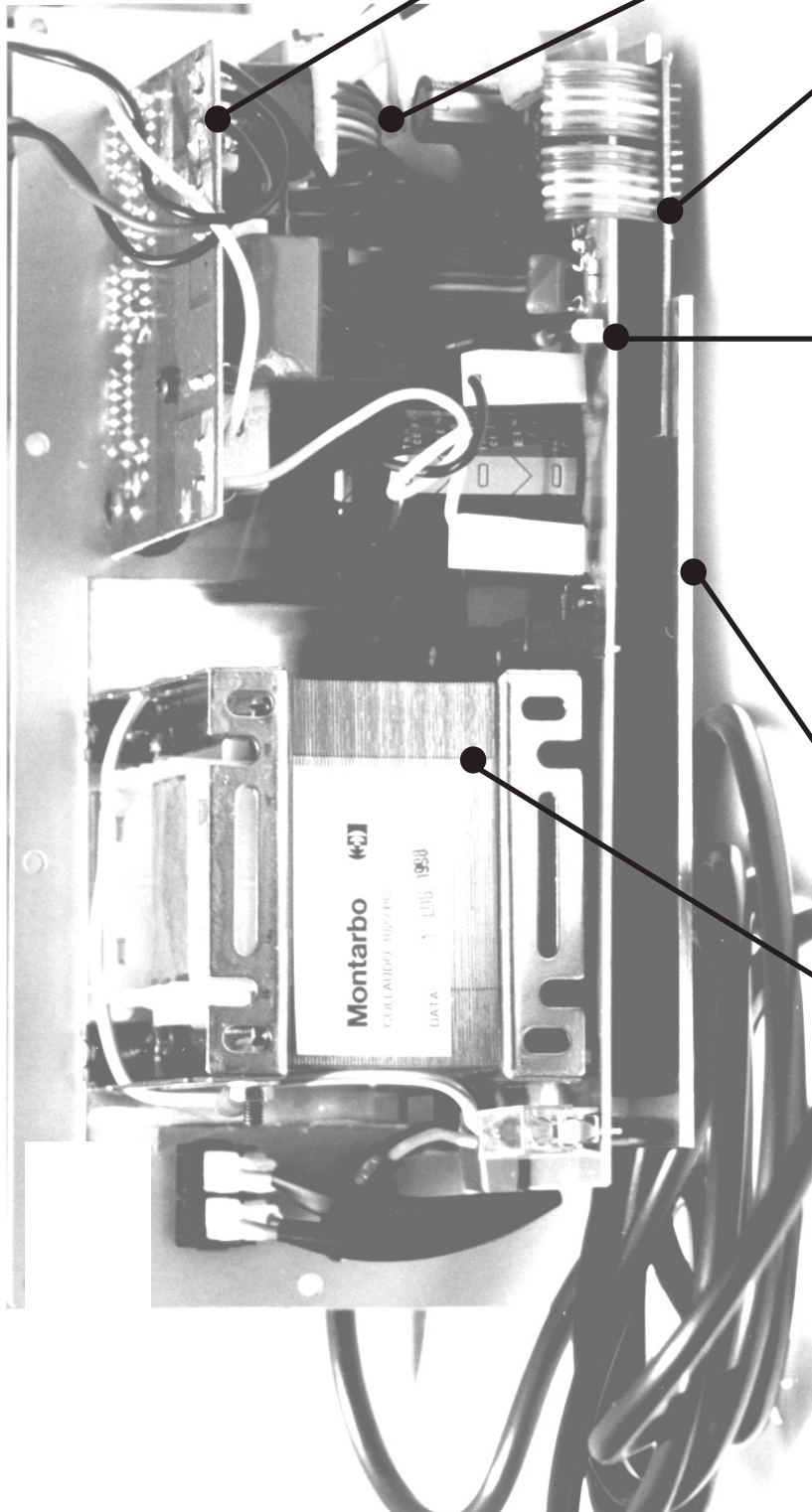
Transformer

*Trasformatore*

**SPARE PARTS**  
**PARTI DI RICAMBIO**

**D520180**

AMPLIFIER CHASSIS  
*TELAIO AMPLIFICATO*



**D001801**

PC MTBYR2 preamplifier +  
filter  
*CS MTBYR2 Preamplificatore  
+ filtro*

**D001802**

PC MTBW XLR + Jacks  
*CS MTBW XLR + Jack*

**B14MTAF**

PC MTBF Mosfet support  
*CS MTBF Supporto mosfet*  
A500127 Mosfet IRFP240  
A500128 Mosfet IRFP9240

**D001803**

PC MTBTR6 Transformer and  
power supply  
*CS MTBTR6 Trasformatore e  
alimentazione*

**B011802**

Heat sink  
*Radiatore*

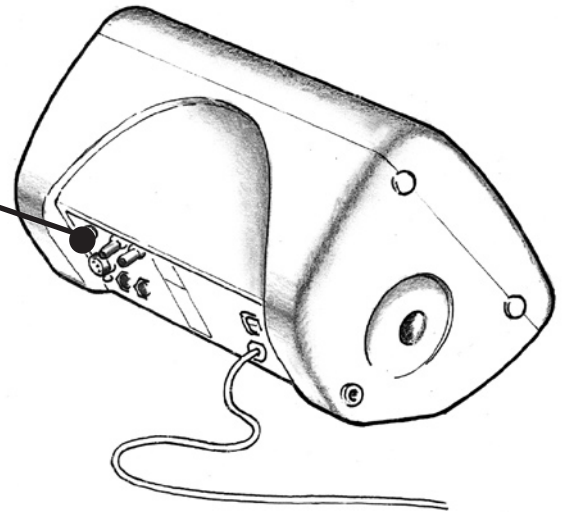
**B005180**

Transformer  
*Trasformatore*

## SPARE PARTS PARTI DI RICAMBIO

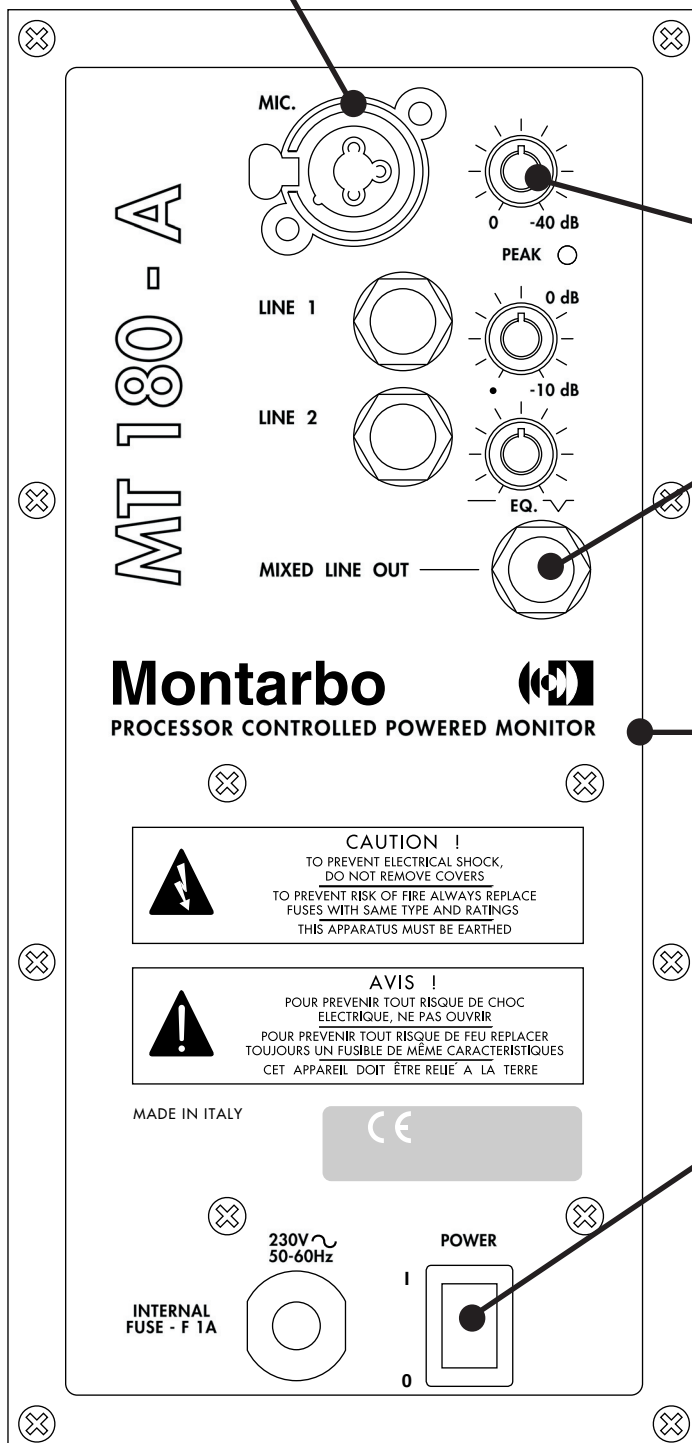
### D520180

AMPLIFIER CHASSIS  
TELAIO AMPLIFICATO



#### A603004

Xlr socket  
*Pres a xlr+jack*



#### A608036

Black knob  
*Manopola nera*

#### A603267

Jack  
*Pres a jack*

#### B021803

Silk-screen panel  
*Pannello serigrafato*

#### A900007

Red switch  
*Interruttore bip. rosso*

#### A600010

1A fuse  
*Fusibile 1A*



# TECHNICAL SPECIFICATIONS

## DATI TECNICI

### Speaker system

- Components:

- bass frequencies

Nominal diameter  
Nominal impedance  
Power capacity  
Net weight  
Thiele & Small Parameters  
fs  
Re  
Qms  
Qes  
Qts  
Vas  
B.l  
SD  
Mms

2-way bass reflex

custom designed

8" loudspeaker

8"  
8ohm  
150W  
3,4 Kg  
  
80Hz  
5,8 ohm  
2,51  
0,35  
0,31  
11,16 dm<sup>3</sup>  
13,75T/m  
213,82cm<sup>2</sup>  
22,3gr

- high frequencies

Throat diameter:  
Nominal impedance:  
DC resistance:  
Power capacity:  
Crossover:  
Voice coil diameter:  
Overall diameter:  
Depth:  
Net weight:

1" horn loaded driver

1"  
8 ohm  
5,5 ohm  
125 W  
2500Hz; 12dB/oct  
25mm  
70mm  
114mm  
748 gr

- Impedance

- Frequency response

8 ohm

60Hz ÷ 19,5kHz

- bass: 60Hz ÷ 2500 Hz

- mid/high: 2500Hz ÷ 19,5kHz

- Sensitivity (1W / 1m)

97 dB

- Max SPL

119 dB

### Built-in power amplifier

- Max. output power

MosFet - A/B class

120 Watts continuous

200 Watts peak

- Frequency response

10Hz ÷ 40kHz ±1dB

- Input impedance

10Kohm

- Input sensitivity

0dB (775 mV)

- Noise referred to input

-110dB (A weighted)

- Power supply

230V AC 50÷60Hz

### Connections

Combined XLR and 1/4" jack (Neutrik Combo®) for the micro input; 1/4" jacks for the line inputs and for the mixed output.

### Construction

Rotationally moulded high density polyethylene. Steel protection grille. Stand adaptor.

### Dimensions (w x h x d):

26,5 x 38 x 26 cm

### Weight:

9,5 Kg

### Sistema acustico

- Componenti:

- basse frequenze

Diametro  
Impedenza nominale  
Potenza nominale  
Peso netto  
Parametri Thiele & Small  
fs  
Re  
Qms  
Qes  
Qts  
Vas  
B.l  
SD  
Mms

bass reflex a 2 vie

costruito nostre specifiche

8" altoparlante

8"  
8ohm  
150W  
3,4 Kg  
  
80Hz  
5,8 ohm  
2,51  
0,35  
0,31  
11,16 dm<sup>3</sup>  
13,75T/m  
213,82cm<sup>2</sup>  
22,3gr

- alte frequenze

Diametro di gola:  
Impedenza nominale:  
DC resistenza:  
Potenza nominale:  
Crossover:  
Diametro bobina:  
Diametro:  
Profondita`:  
Peso netto:

driver 1" caricato a tromba

1"  
8 ohm  
5,5 ohm  
125 W  
2500Hz; 12dB/oct  
25mm  
70mm  
114mm  
748 gr

- Impedenza

8 ohm

- Risposta in frequenza

60Hz ÷ 19,5kHz

- bassi: 60Hz ÷ 2500 Hz

- medio/alti: 2500Hz ÷ 19,5kHz

- Sensibilita` (1W / 1m)

97 dB

- Max SPL

119 dB

### Amplificatore

- Potenza max di uscita

MosFet - classe A/B

120 Watts continui

200 Watts di picco

- Risposta in frequenza

10Hz ÷ 40kHz ±1dB

- Impedenza di ingresso

10Kohm

- Sensibilita` di ingresso

0dB (775 mV)

- Rumore riferito all'ingresso

-110dB (A weighted)

- Alimentazione

230V AC 50÷60Hz

### Conessioni

Presa combinata XLR e 1/4" jack (Neutrik Combo®) per ingresso micro, 1/4" jack per ingressi linea e uscita linea miscelata,

### Costruzione e finiture

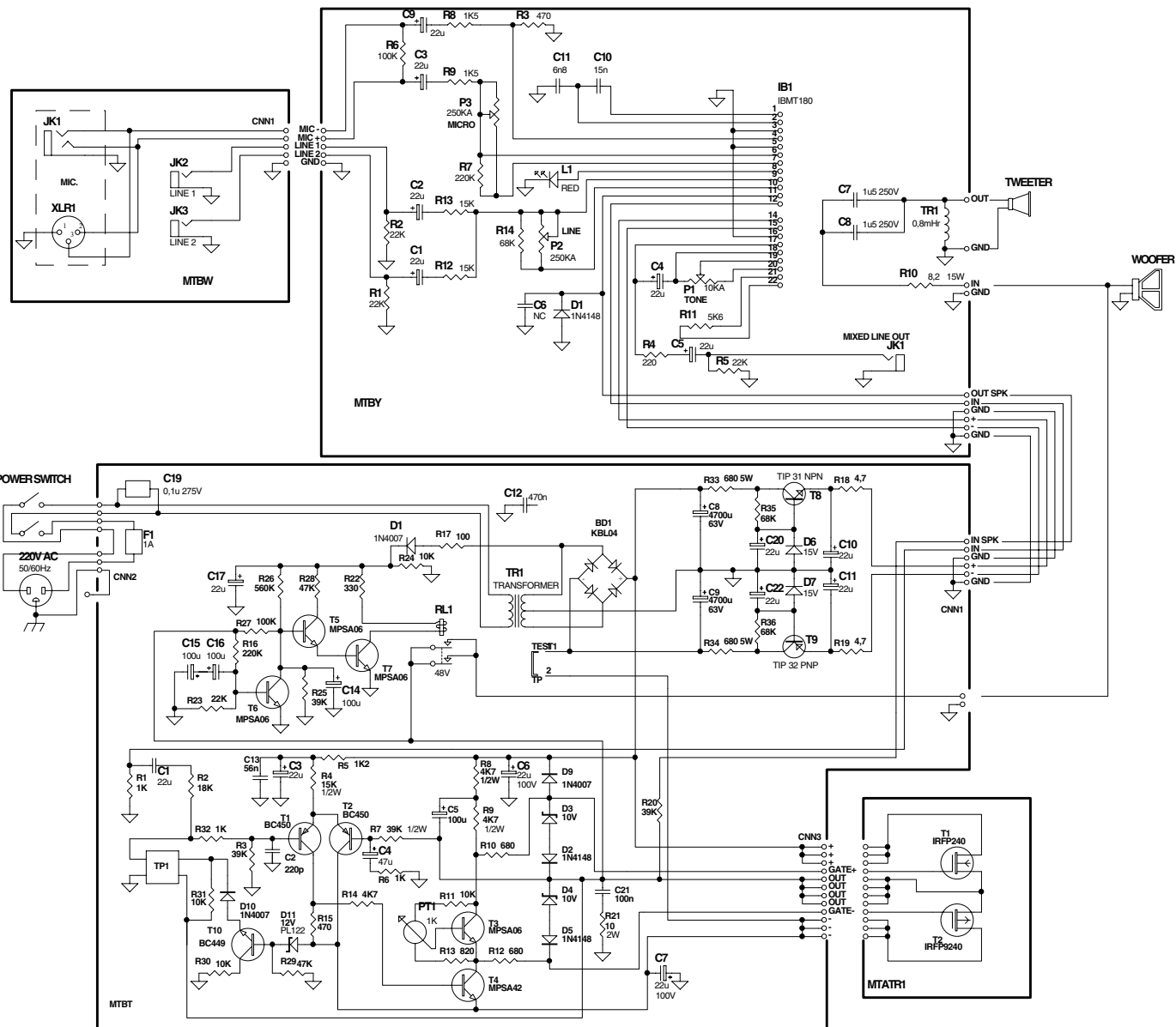
Polietilene ad alta densità. Griglia di protezione in acciaio. Adattatore per supporto cassa.

### Dimensioni (l x h x p):

26,5 x 38 x 26 cm

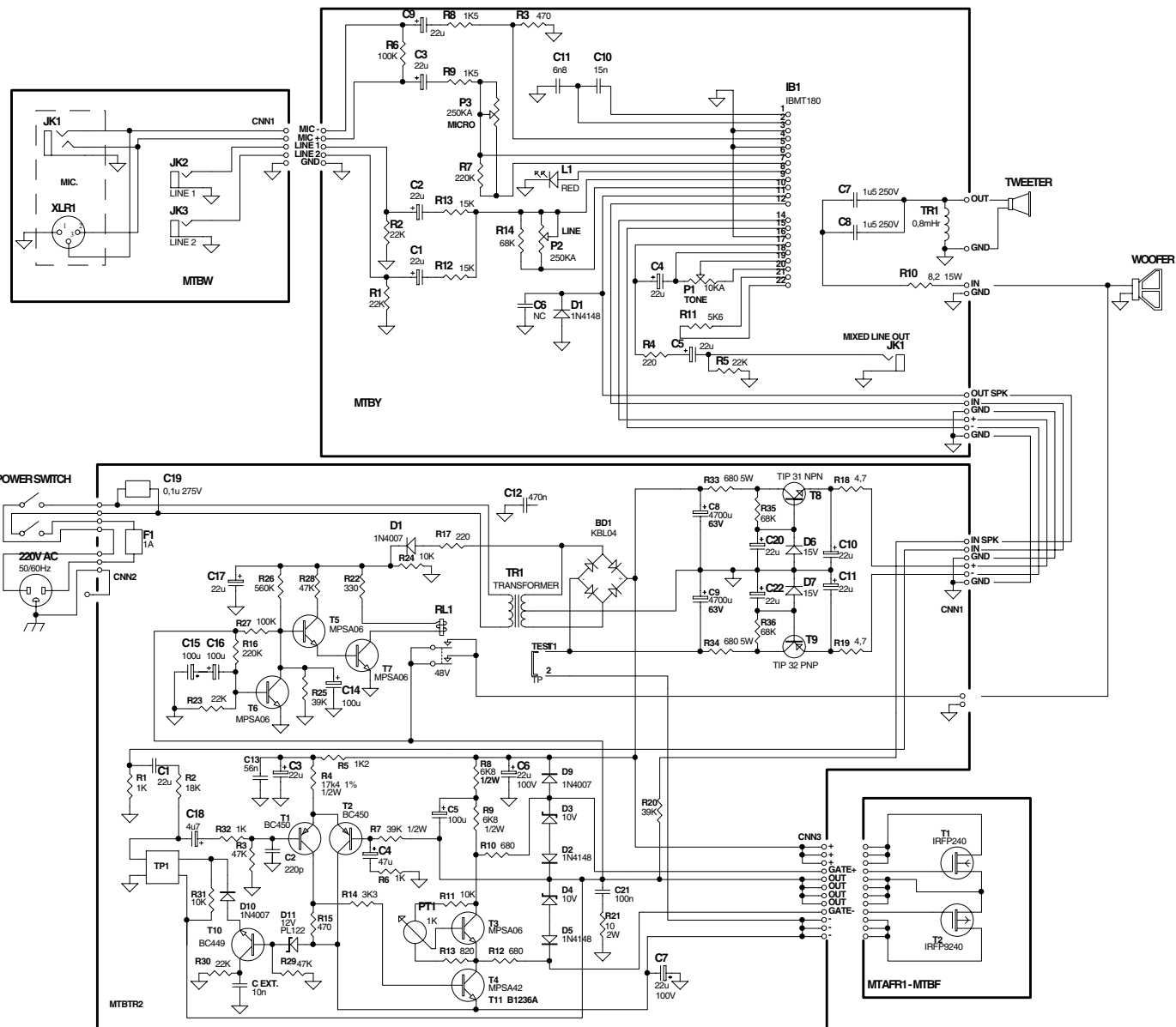
### Peso:

9,5 Kg



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		MT180A - MONITOR - 1a versione			
	Size A2	FCSM No.	DWG No.	21.98	Rev 22.98
	Scale			Sheet 1 of 1	



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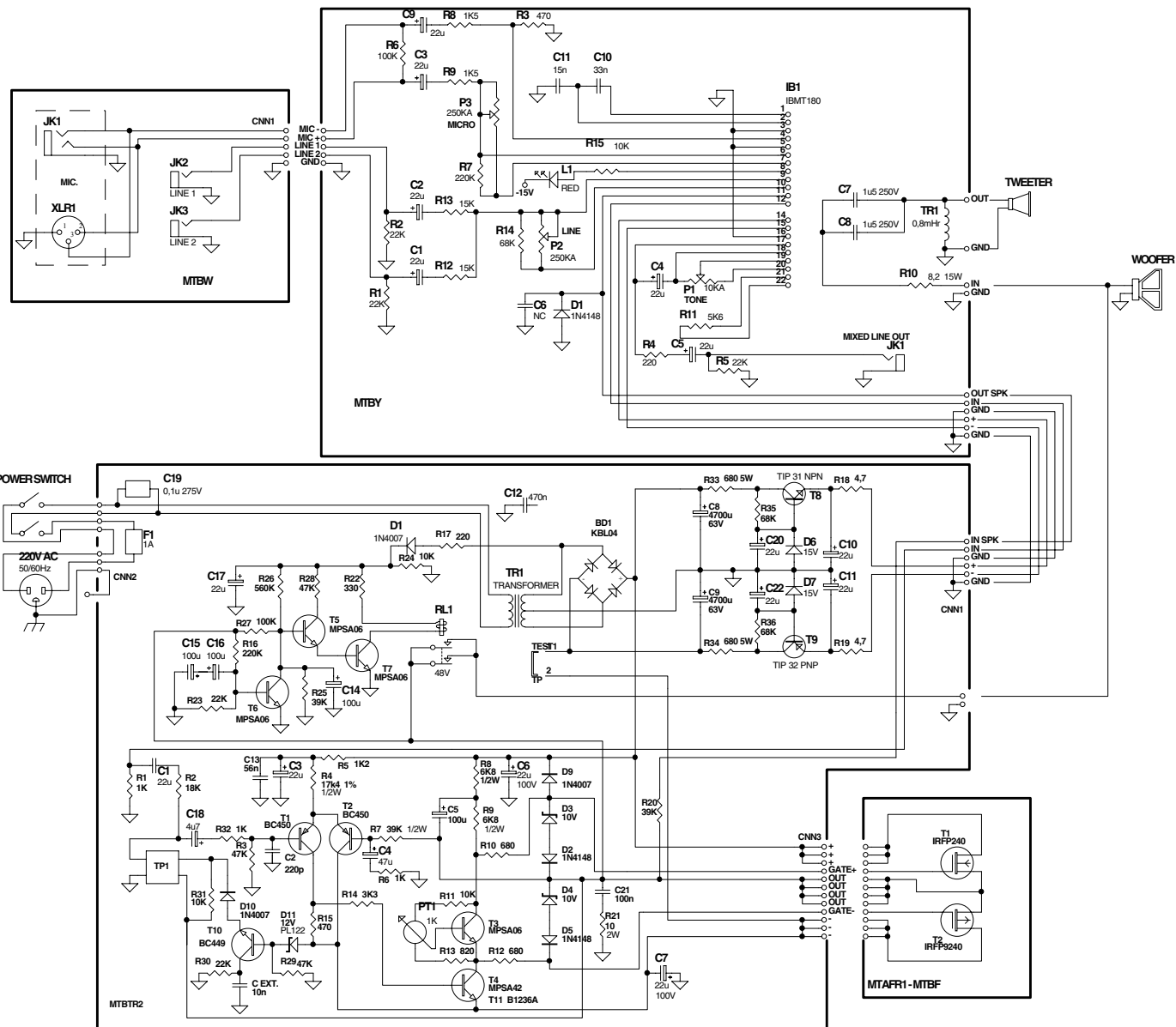
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40057 - BOLOGNA - ITALY

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MT180A - MONITOR - 2a versione

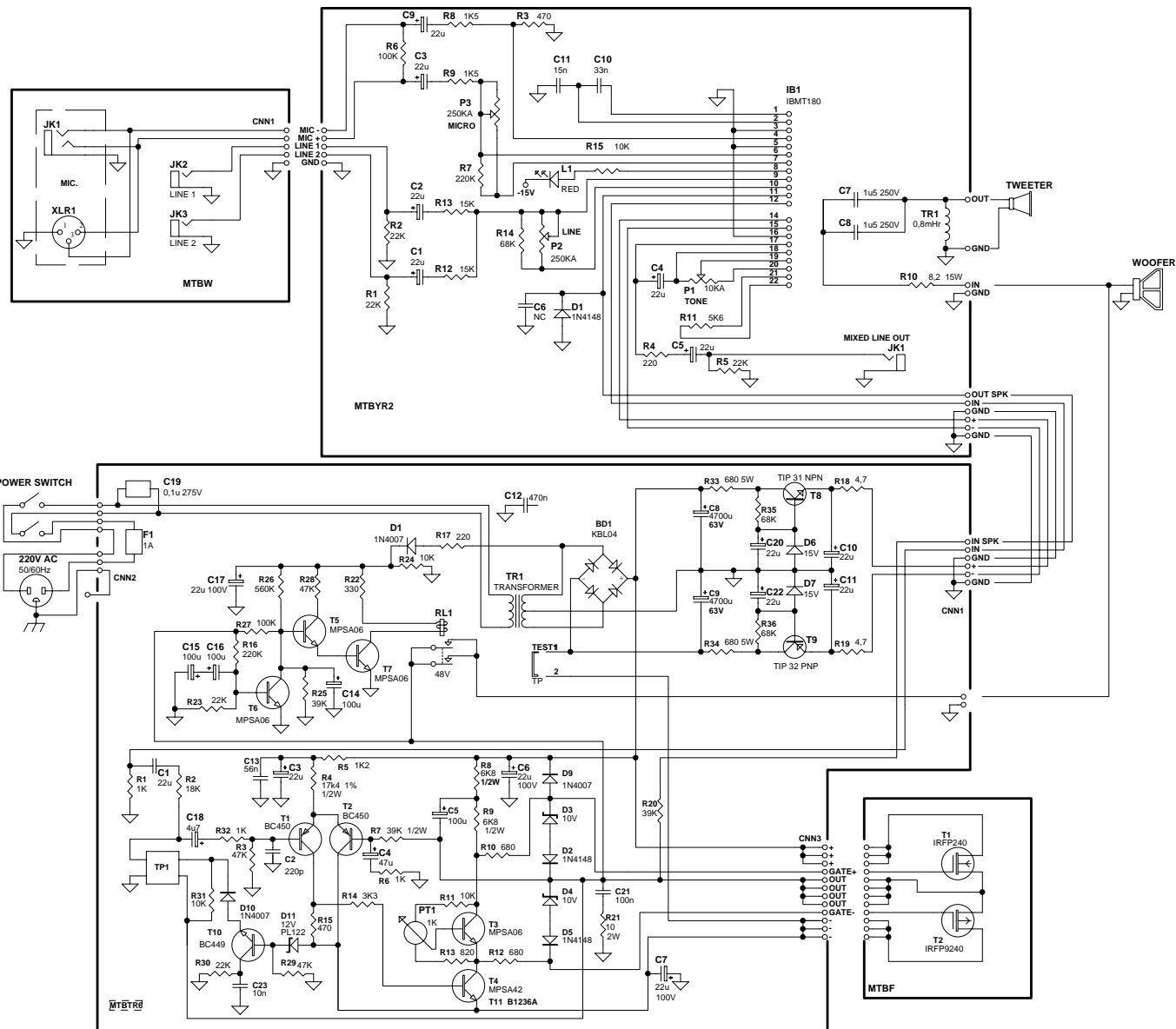
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	Scale			Sheet 1 of 1	



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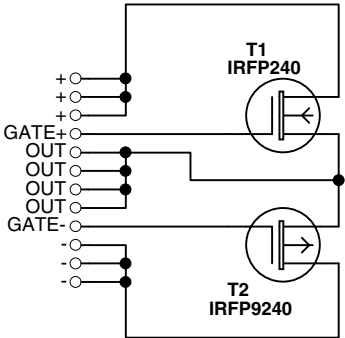
## ASSEMBLED CIRCUIT BOARDS *CIRCUITI ASSEMBLATI*

-	MTAFR1	Mosfet support <i>Supporto mosfet</i>
-	MTBF	Mosfet support <i>Supporto mosfet</i>
<b>D001803</b>	MTBT	Power amplifier/ Power supply <i>Amplificatore/ Alimentazione</i>
<b>D001803</b>	MTBTR2	Power amplifier/ Power supply <i>Amplificatore/ Alimentazione</i>
<b>D001803</b>	MTBTR3/MTBTR4	Power amplifier/ Power supply <i>Amplificatore/ Alimentazione</i>
<b>D001803</b>	MTBTR5/MTBTR6	Power amplifier/ Power supply <i>Amplificatore/ Alimentazione</i>
<b>D001801</b>	MTBY/MTBYR1	Preamplifier/ Filter <i>Preamplicatore/ Filtro</i>
<b>D001801</b>	MTBYR2	Preamplifier/ Filter <i>Preamplicatore/ Filtro</i>
<b>D001802</b>	MTBW	MT180A jacks <i>Jack per MT180A</i>


CS MTAFR1 MOSFET SUPPORT  
SUPPORTO MOSFET

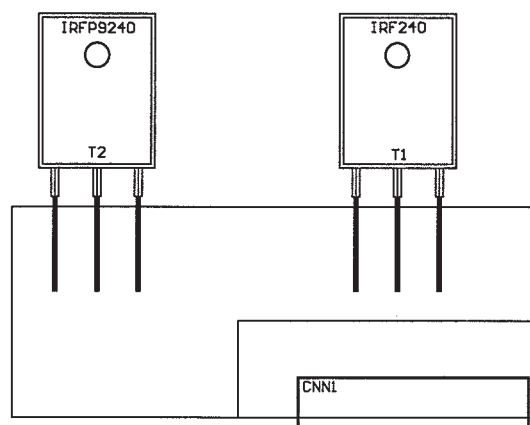
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MTBT



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	MTAFR1 - MOSFET			
	Size A4	FCSM No.	DWG No.	Rev
	Scale		Sheet 1 of 1	



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ELETTRONICA

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**MTAFR1**

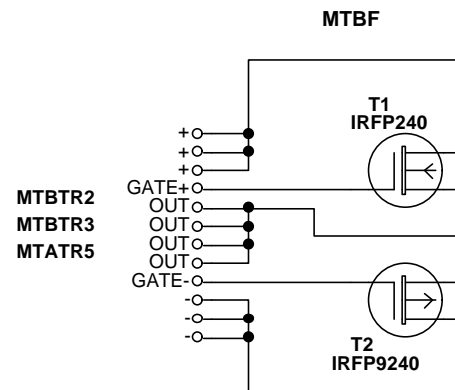
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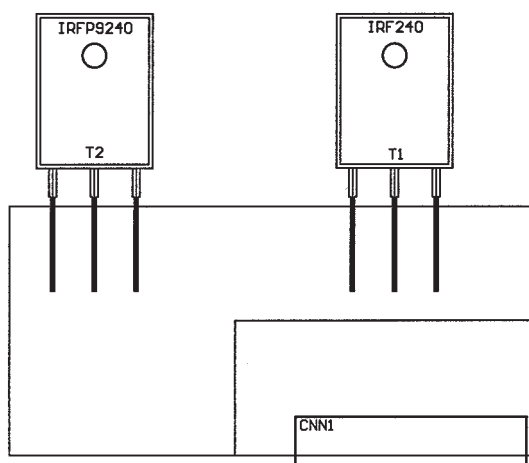
MOSFET SUPPORT  
*SUPPORTO MOSFET*

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	MTBF - SUPP. MOSFET				
	Size A4	FCSM No.	DWG No.		Rev 29.98
	Scale			Sheet 1 of 1	



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MTBF

-

## CSMTBT

POWER AMPLIFIER / POWER SUPPLY  
AMPLIFICATORE / ALIMENTAZIONE1st version  
1a versione

REFERENCE <i>REFERENZA</i>	CODE <i>CODICE</i>	DESCRIPTION <i>DESCRIZIONE</i>	QT.
R1 -R6 -R32	A110102	RESISTOR <i>RESIST. 1/4W 5% 1K</i>	3
R2	A110183	RESISTOR <i>RESIST. 1/4W 5% 18K</i>	1
R3 -R25 -R20	A110393	RESISTOR <i>RESIST. 1/4W 5% 39K</i>	3
R4	A100153	RESISTOR <i>RESIST. 1/2W 5% 15K</i>	1
R5	A110122	RESISTOR <i>RESIST. 1/4W 5% 1K2</i>	1
R7	A100393	RESISTOR <i>RESIST. 1/2W 5% 39K</i>	1
R8 -R9	A100472	RESISTOR <i>RESIST. 1/2W 5% 4K7</i>	2
R10 -R12	A110681	RESISTOR <i>RESIST. 1/4W 5% 680</i>	2
R11 -R24 -R31	A110103	RESISTOR <i>RESIST. 1/4W 5% 10K</i>	3
R13	A110821	RESISTOR <i>RESIST. 1/4W 5% 820</i>	1
R14	A110472	RESISTOR <i>RESIST. 1/4W 5% 4K7</i>	1
R15	A110471	RESISTOR <i>RESIST. 1/4W 5% 470</i>	1
R16	A110224	RESISTOR <i>RESIST. 1/4W 5% 220K</i>	1
R17	A110101	RESISTOR <i>RESIST. 1/4W 5% 100</i>	1
R18 -R19	A110478	RESISTOR <i>RESIST. 1/4W 5% 4,7</i>	2
R21	A140100	RESISTOR <i>RESIST. 2W 5% 10 PR37=PR02</i>	1
R22	A110331	RESISTOR <i>RESIST. 1/4W 5% 330</i>	1
R23 -R30	A110223	RESISTOR <i>RESIST. 1/4W 5% 22K</i>	2
R26	A110564	RESISTOR <i>RESIST. 1/4W 5% 560K</i>	1
R27	A110104	RESISTOR <i>RESIST. 1/4W 5% 100K</i>	1
R28 -R29	A110473	RESISTOR <i>RESIST. 1/4W 5% 47K</i>	2
R33 -R34	A140681	RESISTOR <i>RESIST. 2W 5% 680 PR37=PR02</i>	2
R35 -R36	A110683	RESISTOR <i>RESIST. 1/4W 5% 68K</i>	2
J1 -J2 -J3 -J4	A110000	RESISTOR <i>RESIST. 1/4W 5% 0</i>	4
C1 -C10 -C11 -C17 -C20 -C22	A244225	CAPACITOR <i>COND. EV 22 F 50V 5x11</i>	6
C2	A226221	CAPACITOR <i>COND. CR 220pF 100V 10% 05</i>	1
C3 -C6 -C7	A244226	CAPACITOR <i>COND. EV 22 F 100V 8x12</i>	3
C4	A243476	CAPACITOR <i>COND. EV 47 F 25V 6x11</i>	1
C5	A244231	CAPACITOR <i>COND. EV RSH 100 F 100F 13x20</i>	1
C8 -C9	A232480	CAPACITOR <i>COND. 4700 F 80V SNAP-IN</i>	2
C12	A216474	CAPACITOR <i>COND. PL 470nF 100V 10% 15</i>	1
C13	A217563	CAPACITOR <i>COND. PL 56nF 100V 5% 05</i>	1
C14 -C15 -C16	A244107	CAPACITOR <i>COND. EV 100 F 25V 8x12</i>	3
C19	A214105	FILTER <i>FILTRO R40-KI-3100-5001M</i>	1
C21	A216104	CAPACITOR <i>COND. PL 100nF 100V 10% 10</i>	1
PT1	A434102	POTENTIOMETER TRIMMER <i>TRIMMER PR REG. ORIZ. 1KA P10</i>	1
T1 -T2	A500123	TRANSISTOR <i>TRANSIST BC 450 A</i>	2
T3 -T5 -T6 -T7	A500053	TRANSISTOR <i>TRANSIST MPSA 06 NPN</i>	4
T4	A500098	TRANSISTOR <i>TRANSIST MPSA42</i>	1
T8	A500025	TRANSISTOR <i>TRANSIST TIP 31C</i>	1
T9	A500026	TRANSISTOR <i>TRANSIST TIP 32C</i>	1
T10	A500122	TRANSISTOR <i>TRANSIST BC 449 A</i>	1
D1 -D9 -D10	A510001	DIODE <i>DIODO 1N4007</i>	3
D2 -D5	A510003	DIODE <i>DIODO 1N4148</i>	2
D3 -D4	A510100	ZENER DIODE <i>ZENER 10V 1W</i>	2
D6 -D7	A510150	ZENER DIODE <i>ZENER 15V 1W</i>	2
D11	A510120	ZENER DIODE <i>ZENER 12V 1W</i>	1
F1	A600010	FUSE <i>FUSIBILE 1A</i>	1
F1	A600804	FUSE HOLDER <i>PORTAFUSIBILE C1010+ COPERCHIO</i>	1
BD1	A605008	BRIDGE DIODE <i>PONTE R KBL 04 2A 400V</i>	1
RL1	A605150	RELAY <i>RELE` M.I.SH 248 L.</i>	1
L1	A601499	RED LIGHT EMITTED DIODE <i>LED L-53SRC/C 5 HY-LUM C ROS</i>	1
TP1	A601552	PHOTORESISTOR <i>FOTORESISTENZA VT 90N1</i>	1
TP1	B005768	CAP (FOR WAVE TRAP) <i>CAPPUCCIO TRAPP 10x15 PVC</i>	1
TP1	B005769	CAP (FOR WAVE TRAP) <i>CAPPUCCIO TRAPP 7,2x10,5 P</i>	1
TR1	B005180	TRANSFORMER <i>TRASFORMATORE MT180A</i>	1
CNN1	A603716	FLAT CABLE <i>PIATT. PFS 0033 150mm 6C</i>	1
CNN2	A603360	TERMINAL <i>MORS. WMSM/03/09V1</i>	1
CNN3	A603714	FLAT CABLE <i>PIATT. PFS0129 40mm 6C 0300/1</i>	2
MTBT	B14MTBT	PRINTED CIRCUIT <i>CS MTBT TRASF. CON REG. x MT180</i>	1
-	A603701	TAG <i>PAGLIETTA x CS L979</i>	2
-	A603735	PCB SPADE TERMINATOR <i>FASTON MASC. CS TE342 08</i>	2
-	A603751	EYELET TERMINAL <i>CAPOC. OCCHIELLO BLU D5</i>	1
-	A606371	YELLOW/GREEN CABLE <i>CAVO D 1 GIALLO/VERDE</i>	mt 0,3
-	B0047R3	SPACER <i>DISTANZ. CS RLCBSRS-08-01</i>	2
-	B004700	CERAMIC SPACER <i>DISTANZ. CERAMICA</i>	4
-	B004717	SPACER <i>DISTANZ. ESAG. HS8-22</i>	1

**D001803**

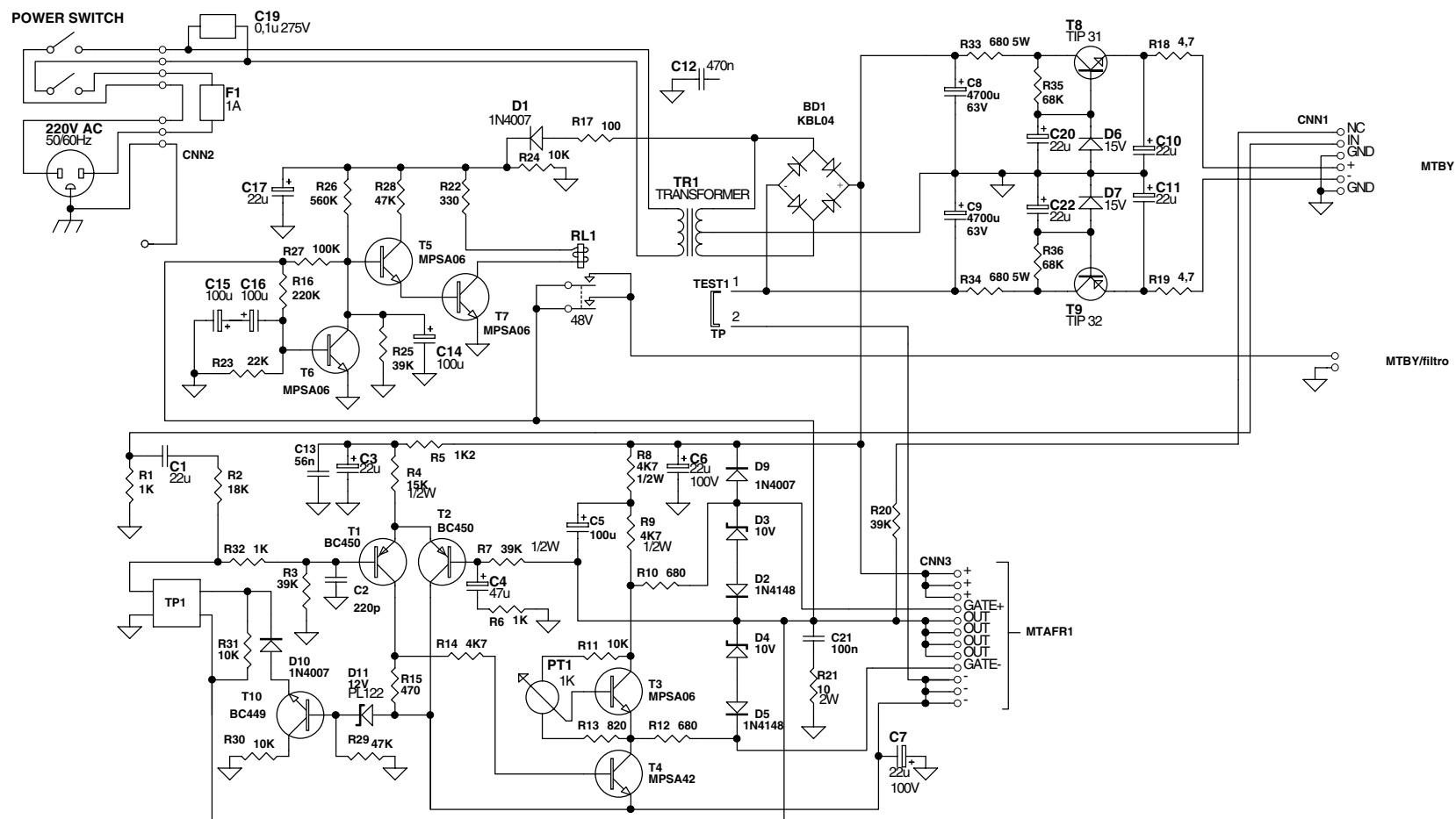
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CSMTBT


POWER AMPLIFIER / POWER SUPPLY  
AMPLIFICATORE / ALIMENTAZIONE

1st version  
*1a versione*

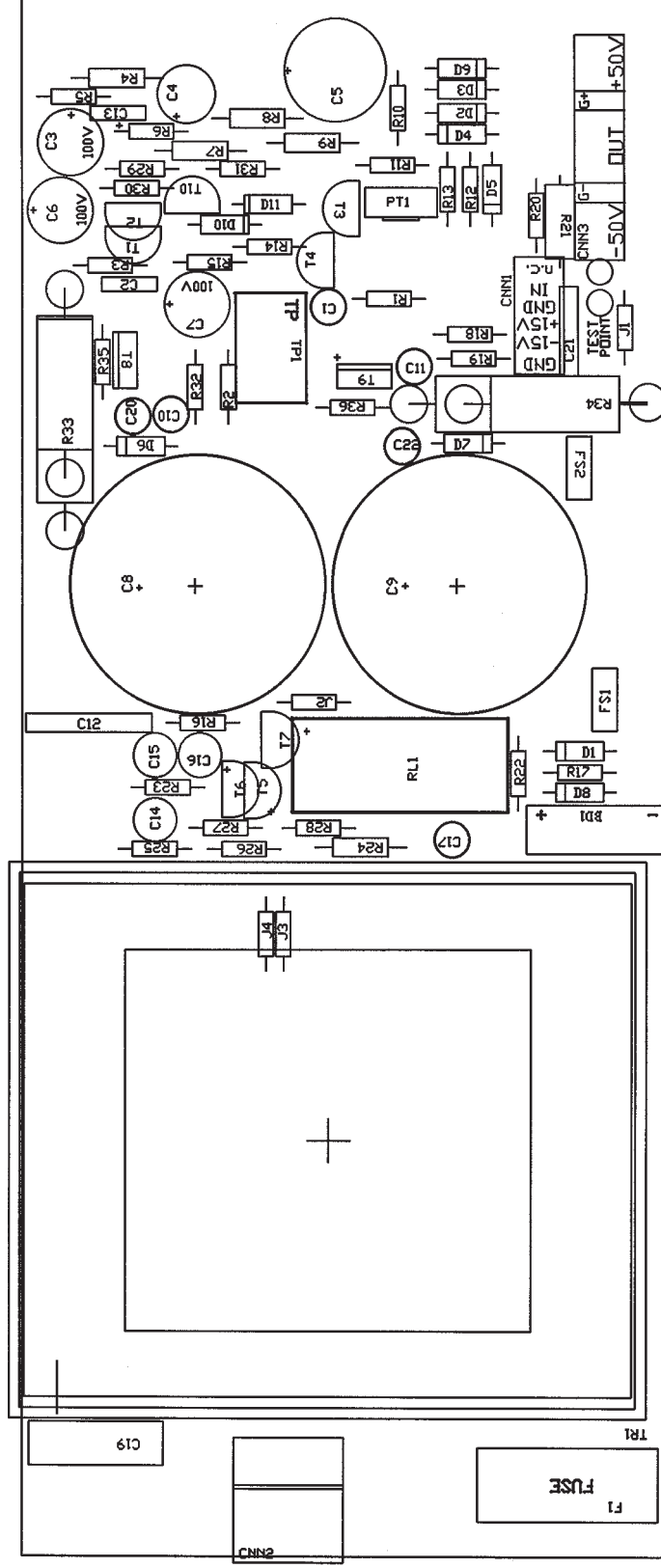
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		MTBT - AMPLIFICATORE / TRASFORMATORI			
	Size A3	FCSM No.	DWG No.		Rev
	Scale			Sheet 1 of 1	

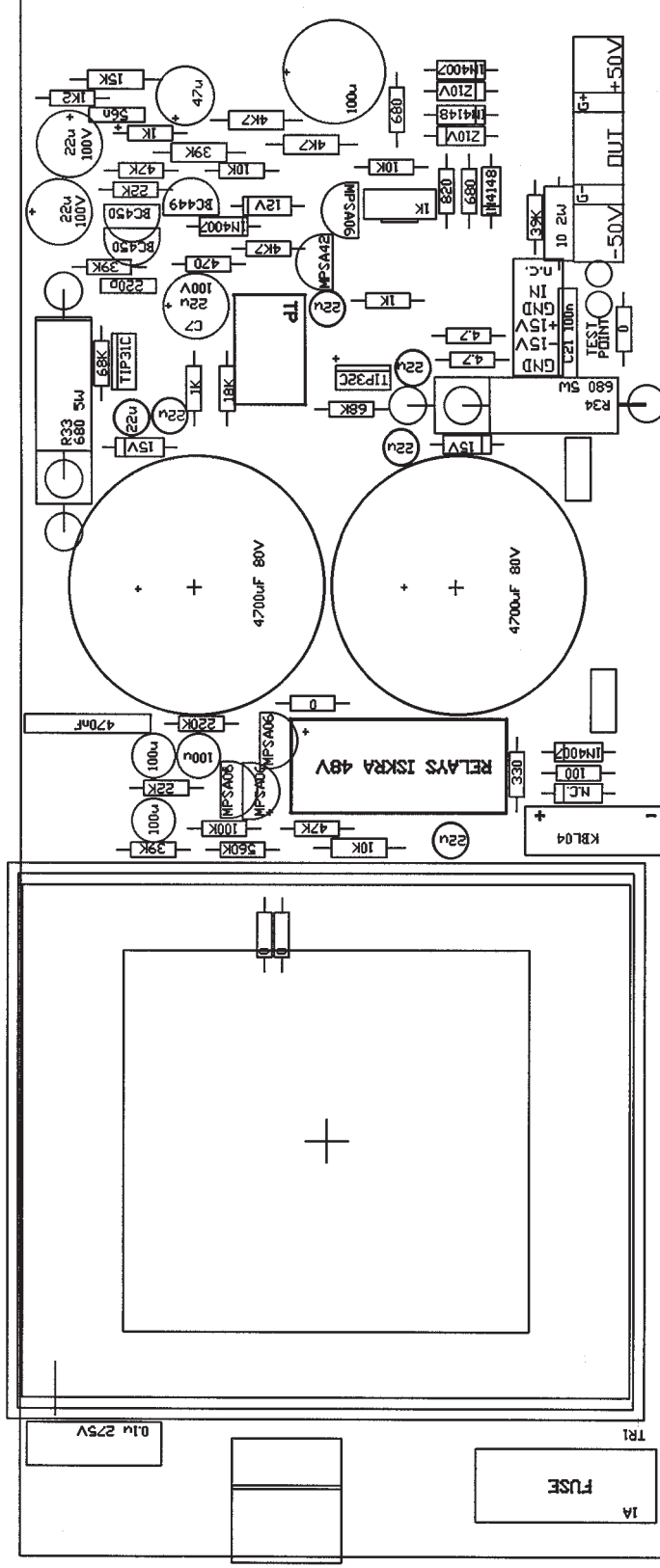





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				archivio	

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CS MTBTR2 POWER AMPLIFIER / POWER SUPPLY  
AMPLIFICATORE / ALIMENTAZIONE2nd version  
2a versione

REFERENCE <i>REFERENZA</i>	CODE <i>CODICE</i>	DESCRIPTION <i>DESCRIZIONE</i>	QT.
R1 -R6 -R32	A110102	RESISTOR <i>RESIST. 1/4W 5% 1K</i>	3
R2	A110183	RESISTOR <i>RESIST. 1/4W 5% 18K</i>	1
R3 -R28 -R29	A110473	RESISTOR <i>RESIST. 1/4W 5% 47K</i>	3
R4	A111174	RESISTOR <i>RESIST. 1/4W 1% 17K4</i>	1
R5	A110122	RESISTOR <i>RESIST. 1/4W 5% 1K2</i>	1
R7	A100393	RESISTOR <i>RESIST. 1/2W 5% 39K</i>	1
R8 -R9	A100682	RESISTOR <i>RESIST. 1/2W 5% 6K8</i>	2
R10 -R12	A110681	RESISTOR <i>RESIST. 1/4W 5% 680</i>	2
R11 -R24 -R31	A110103	RESISTOR <i>RESIST. 1/4W 5% 10K</i>	3
R13	A110821	RESISTOR <i>RESIST. 1/4W 5% 820</i>	1
R14	A110332	RESISTOR <i>RESIST. 1/4W 5% 3K3</i>	1
R15	A110471	RESISTOR <i>RESIST. 1/4W 5% 470</i>	1
R16	A110224	RESISTOR <i>RESIST. 1/4W 5% 220K</i>	1
R17	A110221	RESISTOR <i>RESIST. 1/4W 5% 220</i>	1
R18 -R19	A110478	RESISTOR <i>RESIST. 1/4W 5% 4,7</i>	2
R20 -R25	A110393	RESISTOR <i>RESIST. 1/4W 5% 39K</i>	2
R21	A140100	RESISTOR <i>RESIST. 2W 5% 10 PR37=PR02</i>	1
R22	A110331	RESISTOR <i>RESIST. 1/4W 5% 330</i>	1
R23 -R30	A110223	RESISTOR <i>RESIST. 1/4W 5% 22K</i>	2
R26	A110564	RESISTOR <i>RESIST. 1/4W 5% 560K</i>	1
R27	A110104	RESISTOR <i>RESIST. 1/4W 5% 100K</i>	1
R33 -R34	A140681	RESISTOR <i>RESIST. 2W 5% 680 PR37=PR02</i>	2
R35 -R36	A110683	RESISTOR <i>RESIST. 1/4W 5% 68K</i>	2
J1 -J2 -J3 -J4	A110000	RESISTOR <i>RESIST. 1/4W 5% 0</i>	4
C1 -C10 -C11 -C20 -C22	A244225	CAPACITOR <i>COND. EV 22 F 50V 5x11</i>	5
C2	A226221	CAPACITOR <i>COND. CR 220pF 100V 10% 05</i>	1
C3 -C6 -C7	A244226	CAPACITOR <i>COND. EV 22 F 100V 8x12</i>	3
C4	A243476	CAPACITOR <i>COND. EV 47 F 25V 6x11</i>	1
C5	A244231	CAPACITOR <i>COND. EV RSH 100 F 100F 13x20</i>	1
C8 -C9	A232480	CAPACITOR <i>COND. 4700 F 80V SNAP-IN</i>	2
C12	A216474	CAPACITOR <i>COND. PL 470nF 100V 10% 15</i>	1
C13	A217563	CAPACITOR <i>COND. PL 56nF 100V 5% 05</i>	1
C14 -C15 -C16	A244107	CAPACITOR <i>COND. EV 100 F 25V 8x12</i>	3
C19	A214105	FILTER <i>FILTRO R40-KI-3100-5001M</i>	1
C21	A216104	CAPACITOR <i>COND. PL 100nF 100V 10% 10</i>	1
C EXT.	A216103	CAPACITOR <i>COND. PL 10nF 400V 10% 10</i>	1
PT1	A434102	POTENTIOMETER TRIMMER <i>TRIMMER PR REG. ORIZ. 1KA P10</i>	1
T1 -T2	A500123	TRANSISTOR <i>TRANSIST BC 450 A</i>	2
T3 -T5 -T6 -T7	A500053	TRANSISTOR <i>TRANSIST MPSA 06 NPN</i>	4
T4 (oppure T11 vedi codice)	A500098	TRANSISTOR <i>TRANSIST MPSA42</i>	1
T8	A500025	TRANSISTOR <i>TRANSIST TIP 31C</i>	1
T9	A500026	TRANSISTOR <i>TRANSIST TIP 32C</i>	1
T10	A500122	TRANSISTOR <i>TRANSIST BC 449 A</i>	1
T11 (oppure T4 vedi codice)	A500041	TRANSISTOR <i>TRANSIST 2SD1857A</i>	1
D1 -D9 -D10	A510001	DIODE <i>DIODO 1N4007</i>	3
D2 -D5	A510003	DIODE <i>DIODO 1N4148</i>	2
D3 -D4	A510100	ZENER DIODE <i>ZENER 10V 1W</i>	2
D6 -D7	A510150	ZENER DIODE <i>ZENER 15V 1W</i>	2
D11	A510120	ZENER DIODE <i>ZENER 12V 1W</i>	1
F1	A600010	FUSE <i>FUSIBILE 1A</i>	1
F1	A600804	FUSE HOLDER <i>PORTAFUSIBILE C1010+ COPERCHIO</i>	1
BD1	A605008	BRIDGE DIODES <i>PONTE R KBL 04 2A 400V</i>	1
RL1	A605150	RELAY <i>RELE' M.I.SH 248 L.</i>	1
L1	A601499	REDLIGHT EMITTED DIODE <i>LED L-53SRC/C 5 HY-LUM C ROS</i>	1
TP1	A601552	PHOTORESISTOR <i>FOTORESISTENZA VT 90N1</i>	1
TP1	B005768	CAP (FOR WAVE TRAP) <i>CAPPUCCIO TRAPP. 10x15 PVC</i>	1
TP1	B005769	CAP (FOR WAVE TRAP) <i>CAPPUCCIO TRAPP. 7,2x10,5 P</i>	1
TR1	B005180	TRANSFORMER <i>TRASFORMATORE MT180A</i>	1
CNN1	A603716	FLAT CABLE <i>PIATT. PFS 0033 150mm 6C</i>	1
CNN2	A603360	TERMINAL <i>MORS. WMSM/03/09V1</i>	1
CNN3	A603714	FLAT CABLE <i>PIATT. PFS0129 40mm 6C 0300/1</i>	2
MTBTR2	B14MTBT	PRINTED CIRCUIT <i>CS MTBTR2 TRASF. CON REG. x MT180</i>	1
-	A603701	TAG <i>PAGLIETTA x CS L979</i>	2
-	A603735	PCB SPADE TERMINATOR <i>FASTON MASC. CS TE342 08</i>	2
-	A603751	EYELET TERMINAL <i>CAPOC. OCCHIELLO BLU D5</i>	1
-	A606371	YELLOW/GREEN CABLE <i>CAVO D 1 GIALLO/VERDE</i>	mt 0,3
-	B0047R3	SPACER <i>DISTANZ. CS RLCBSRS-08-01</i>	2

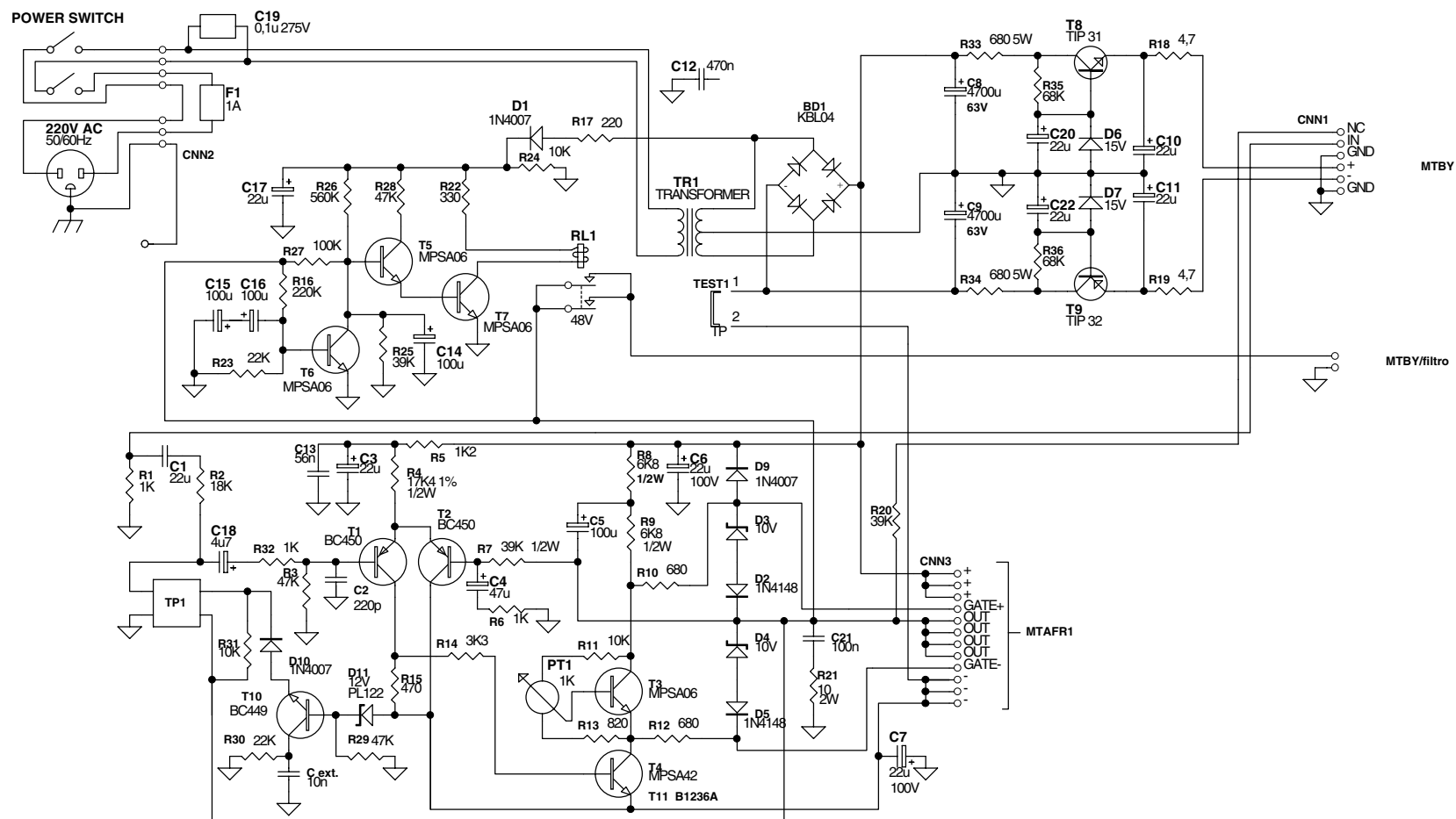
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**CS MTBTR2** POWER AMPLIFIER / POWER SUPPLY  
*AMPLIFICATORE / ALIMENTAZIONE*

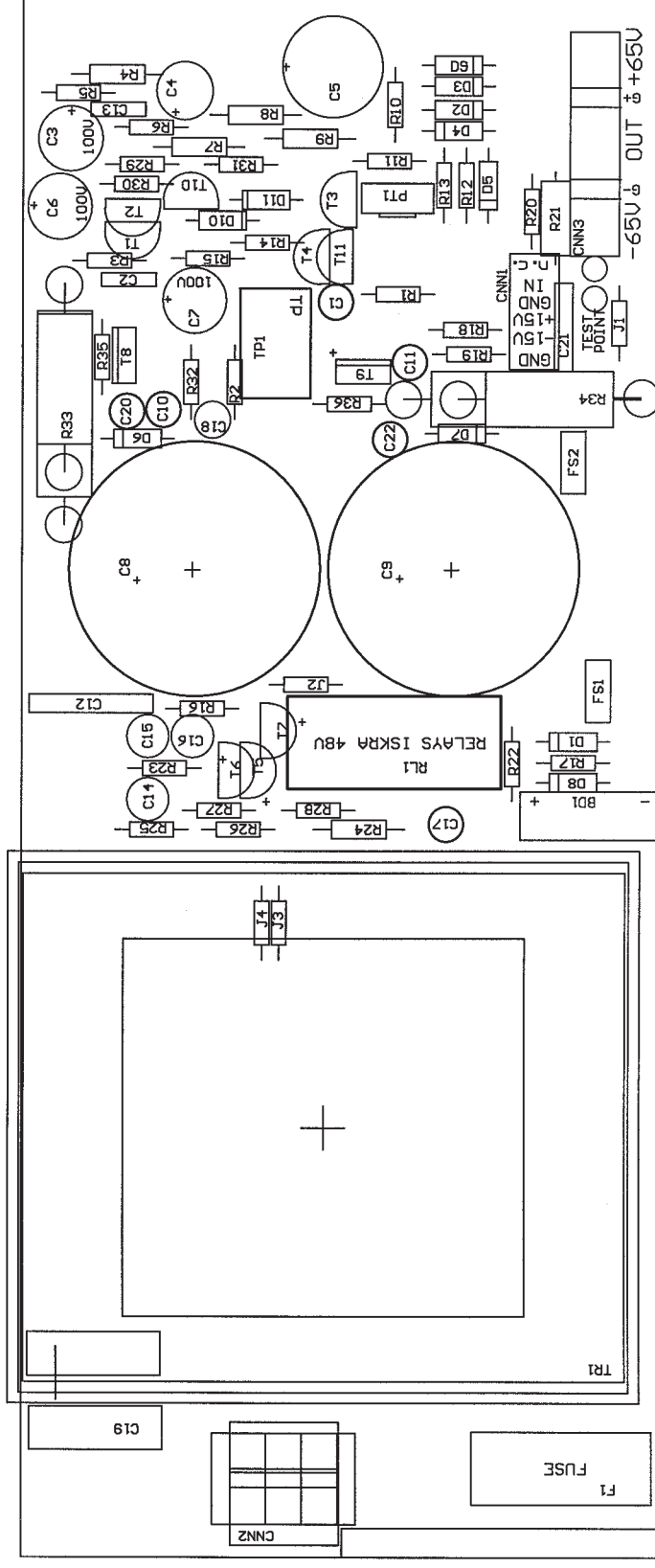
2nd version  
2a versione

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		MTBTR2 - AMPLIFICATORE / TRASFORMATORI			
	Size A3	FCSM No.	DWG No.		Rev
	Scale			Sheet 1 of 1	



MODIFICATION RESERVEES - ANDERUNGEN VORBEHALTEN - CON RISERVA DI MODIFICHE - ALTERATIONS RESERVED - CON RESERVA DE MODIFICACION

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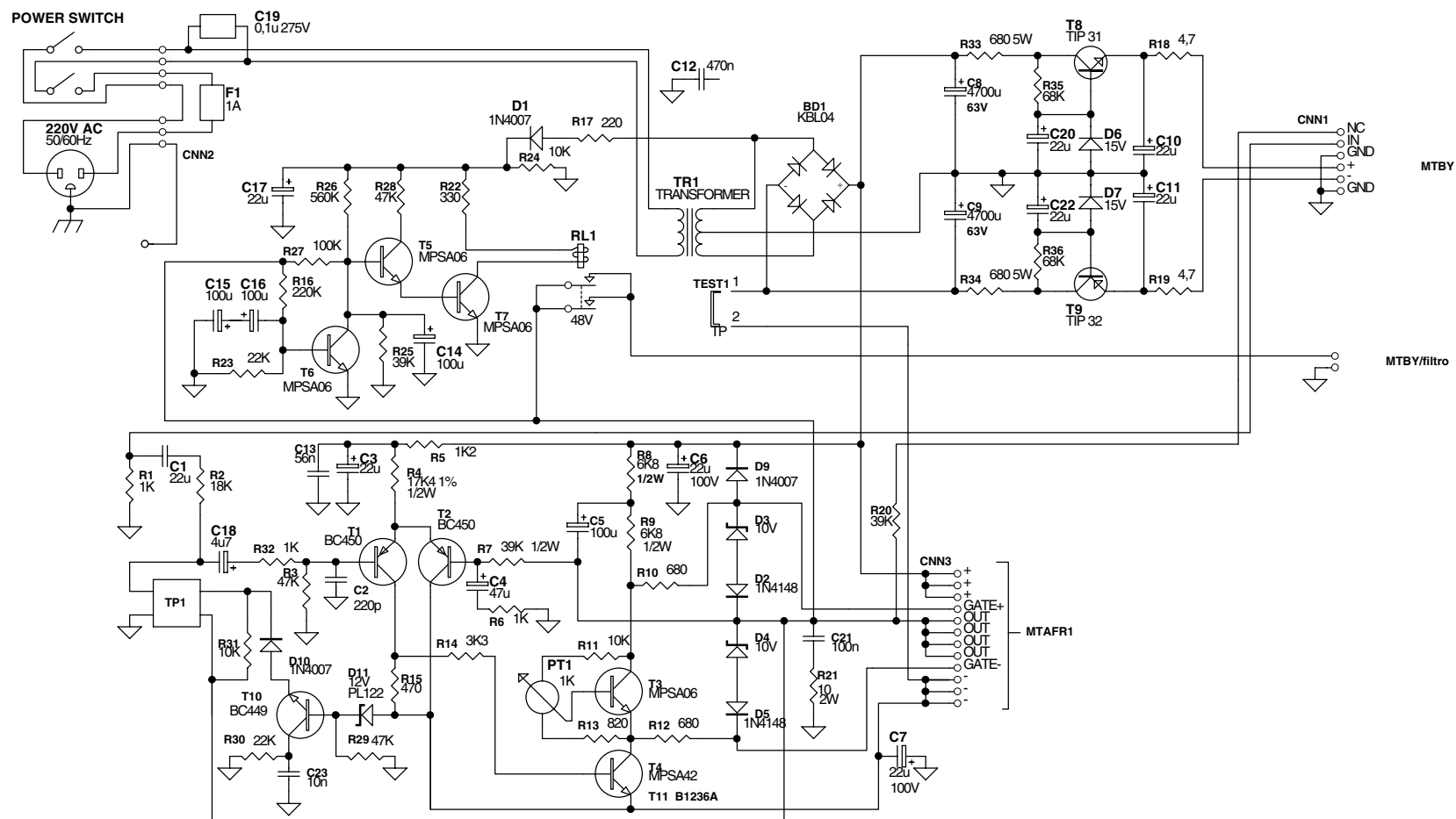






CS MTBTR3/MTBTR4 POWER AMPLIFIER / POWER SUPPLY  
AMPLIFICATORE / ALIMENTAZIONE3rd version  
3a versione

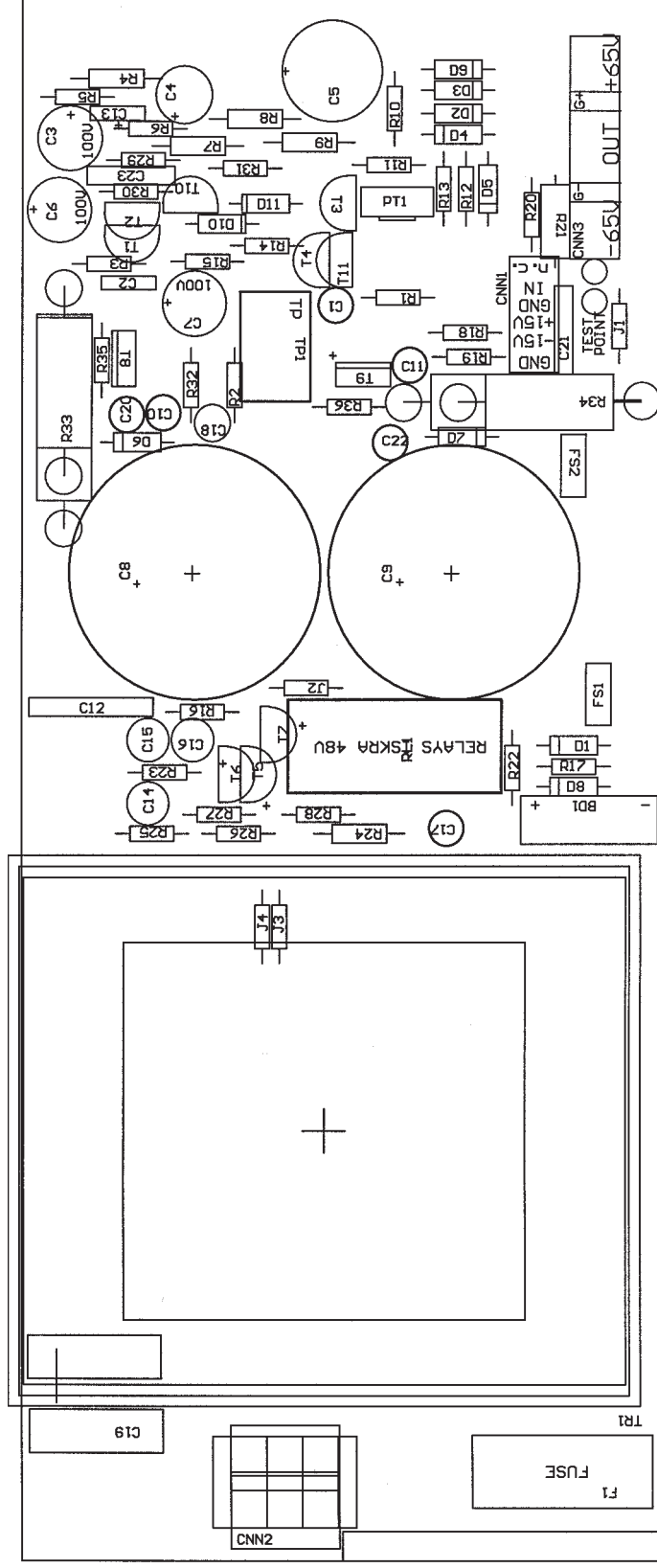
REFERENCE <i>REFERENZA</i>	CODE <i>CODICE</i>	DESCRIPTION <i>DESCRIZIONE</i>	QT.
R1 -R6 -R32	A110102	RESISTOR <i>RESIST. 1/4W 5% 1K</i>	3
R2	A110183	RESISTOR <i>RESIST. 1/4W 5% 18K</i>	1
R3 -R28 -R29	A110473	RESISTOR <i>RESIST. 1/4W 5% 47K</i>	3
R4	A111174	RESISTOR <i>RESIST. 1/4W 1% 17K4</i>	1
R5	A110122	RESISTOR <i>RESIST. 1/4W 5% 1K2</i>	1
R7	A100393	RESISTOR <i>RESIST. 1/2W 5% 39K</i>	1
R8 -R9	A100682	RESISTOR <i>RESIST. 1/2W 5% 6K8</i>	2
R10 -R12	A110681	RESISTOR <i>RESIST. 1/4W 5% 680</i>	2
R11 -R24 -R31	A110103	RESISTOR <i>RESIST. 1/4W 5% 10K</i>	3
R13	A110821	RESISTOR <i>RESIST. 1/4W 5% 820</i>	1
R14	A110332	RESISTOR <i>RESIST. 1/4W 5% 3K3</i>	1
R15	A110471	RESISTOR <i>RESIST. 1/4W 5% 470</i>	1
R16	A110224	RESISTOR <i>RESIST. 1/4W 5% 220K</i>	1
R17	A110221	RESISTOR <i>RESIST. 1/4W 5% 220</i>	1
R18 -R19	A110478	RESISTOR <i>RESIST. 1/4W 5% 4,7</i>	2
R20 -R25	A110393	RESISTOR <i>RESIST. 1/4W 5% 39K</i>	2
R21	A140100	RESISTOR <i>RESIST. 2W 5% 10 PR37=PR02</i>	1
R22	A110331	RESISTOR <i>RESIST. 1/4W 5% 330</i>	1
R23 -R30	A110223	RESISTOR <i>RESIST. 1/4W 5% 22K</i>	2
R26	A110564	RESISTOR <i>RESIST. 1/4W 5% 560K</i>	1
R27	A110104	RESISTOR <i>RESIST. 1/4W 5% 100K</i>	1
R33 -R34	A140681	RESISTOR <i>RESIST. 2W 5% 680 PR37=PR02</i>	2
R35 -R36	A110683	RESISTOR <i>RESIST. 1/4W 5% 68K</i>	2
J1 -J2 -J3 -J4	A110000	RESISTOR <i>RESIST. 1/4W 5% 0</i>	4
C1 -C10 -C11 -C20 -C22	A244225	CAPACITOR <i>COND. EV 22 F 50V 5x11</i>	5
C2	A226221	CAPACITOR <i>COND. CR 220pF 100V 10% 05</i>	1
C3 -C6 -C7	A244226	CAPACITOR <i>COND. EV 22 F 100V 8x12</i>	3
C4	A243476	CAPACITOR <i>COND. EV 47 F 25V 6x11</i>	1
C5	A244231	CAPACITOR <i>COND. EV RSH 100 F 100F 13x20</i>	1
C8 -C9	A232480	CAPACITOR <i>COND. 4700 F 80V SNAP-IN</i>	2
C12	A216474	CAPACITOR <i>COND. PL 470nF 100V 10% 15</i>	1
C13	A217563	CAPACITOR <i>COND. PL 56nF 100V 5% 05</i>	1
C14 -C15 -C16	A244107	CAPACITOR <i>COND. EV 100 F 25V 8x12</i>	3
C19	A214105	FILTER <i>FILTRO R40-KI-3100-5001M</i>	1
C21	A216104	CAPACITOR <i>COND. PL 100nF 100V 10% 10</i>	1
C23	A216103	CAPACITOR <i>COND. PL 10nF 400V 10% 10</i>	1
PT1	A434102	POTENTIOMETER TRIMMER <i>TRIMMER PR REG. ORIZ. 1KA P10</i>	1
T1 -T2	A500003	TRANSISTOR <i>TRANSIST KTA1268</i>	2
T3 -T5 -T6 -T7	A500053	TRANSISTOR <i>TRANSIST MPSA 06 NPN</i>	4
T4 (oppure T11 vedi codice)	A500098	TRANSISTOR <i>TRANSIST MPSA42</i>	1
T8	A500025	TRANSISTOR <i>TRANSIST TIP 31C</i>	1
T9	A500026	TRANSISTOR <i>TRANSIST TIP 32C</i>	1
T10	A500122	TRANSISTOR <i>TRANSIST BC 449 A</i>	1
T11 (oppure T4 vedi codice)	A500041	TRANSISTOR <i>TRANSIST 2SD1857A</i>	1
D1 -D9 -D10	A510001	DIODE <i>DIODO 1N4007</i>	3
D2 -D5	A510003	DIODE <i>DIODO 1N4148</i>	2
D3 -D4	A510100	ZENER DIODE <i>ZENER 10V 1W</i>	2
D6 -D7	A510150	ZENER DIODE <i>ZENER 15V 1W</i>	2
D11	A510120	ZENER DIODE <i>ZENER 12V 1W</i>	1
F1	A600010	FUSE <i>FUSIBILE 1A</i>	1
F1	A600804	FUSE HOLDER <i>PORTAFUSIBILE C1010+ COPERCHIO</i>	1
BD1	A605008	BRIDGE DIODES <i>PONTE R KBL 04 2A 400V</i>	1
RL1	A605150	RELAY <i>RELE` M.I.SH 248 L.</i>	1
L1	A601499	REDLIGHT EMITTED DIODE <i>LED L-53SRC/C 5 HY-LUM C ROS</i>	1
TP1	A601552	PHOTORESISTOR <i>FOTORESISTENZA VT 90N1</i>	1
TP1	B005768	CAP (FOR WAVE TRAP) <i>CAPPUCCIO TRAPP. 10x15 PVC</i>	1
TP1	B005769	CAP (FOR WAVE TRAP) <i>CAPPUCCIO TRAPP. 7,2x10,5 P</i>	1
TR1	B005180	TRANSFORMER <i>TRASFORMATORE MT180A</i>	1
CNN1	A603716	FLAT CABLE <i>PIATT. PFS 0033 150mm 6C</i>	1
CNN2	A603360	TERMINAL <i>MORS. WMSM/03/09V1</i>	1
CNN3	A603714	FLAT CABLE <i>PIATT. PFS0129 40mm 6C 0300/1</i>	2
MTBTR3	B14MTBT	PRINTED CIRCUIT <i>CS MTBTR3 TRASF. CON REG. x MT180</i>	1
-	A603701	TAG <i>PAGLIETTA x CS L979</i>	2
-	A603735	PCB SPADE TERMINATOR <i>FASTON MASC. CS TE342 08</i>	2
-	A603751	EYELET TERMINAL <i>CAPOC. OCCHIELLO BLU D5</i>	1
-	A606356	YELLOW/GREEN CABLE <i>CAVO D 0,5 GIALLO/VERDE</i>	mt 0,3
-	B0047R3	SPACER <i>DISTANZ. CS RLCBSRS-08-01</i>	2

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		MTBTR3 - AMPLIFICATORE / TRASFORMATORI			
	Size A3	FCSM No.	DWG No.		Rev 21.5
	Scale			Sheet 1 of 1	



MODIFICATION RESERVEES - ANDERUNGEN VORBEHALTEN - CON RISERVA DI MODIFICHE - ALTERATIONS RESERVED - CON RESERVA DE MODIFICACION

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# CS MTBTR5/MTBTR6 POWER AMPLIFIER / POWER SUPPLY

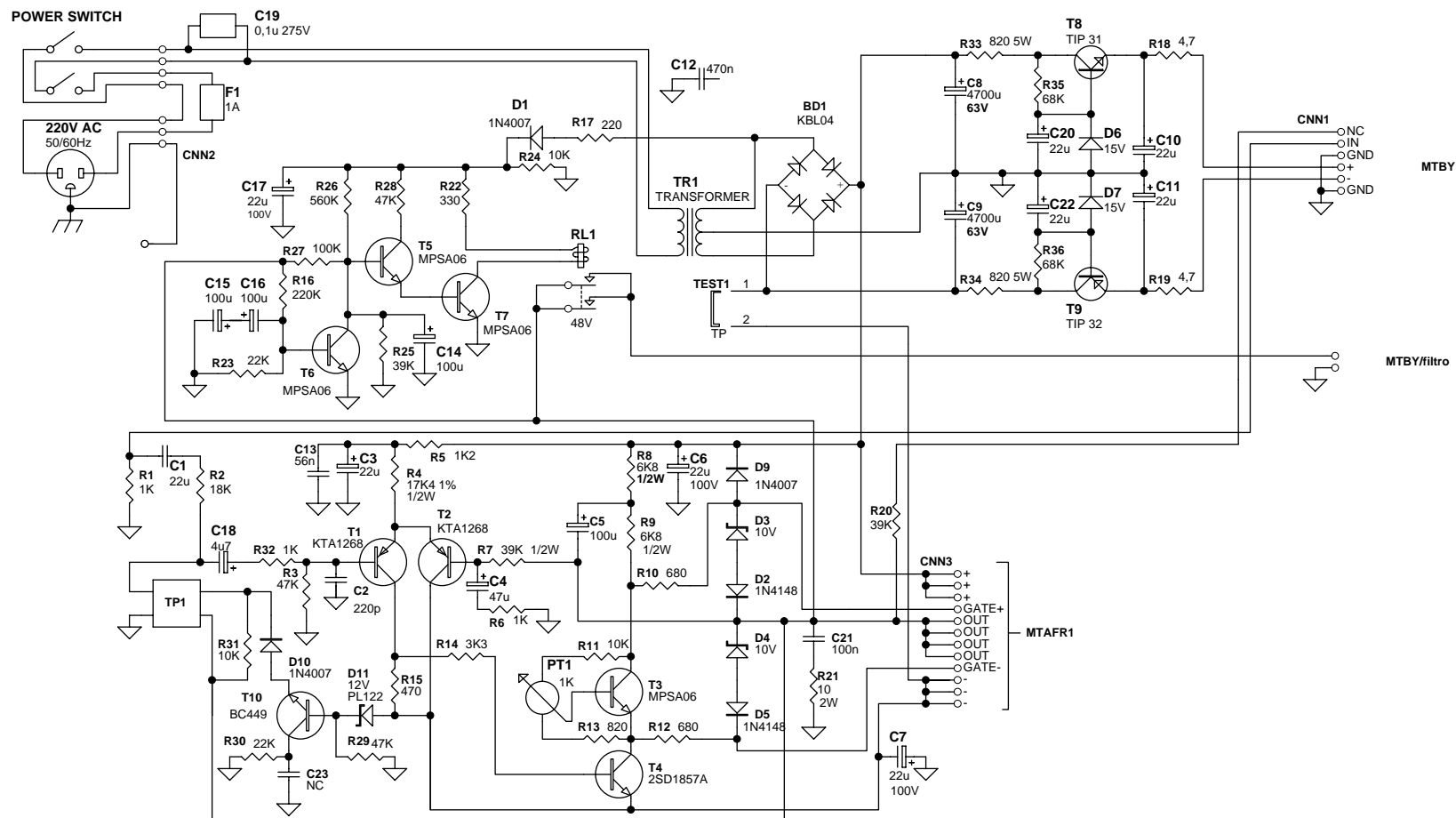
## AMPLIFICATORE / ALIMENTAZIONE

REFERENCE <i>REFERENZA</i>	CODE CODICE	DESCRIPTION <i>DESCRIZIONE</i>		QT.
R1 -R6 -R32	A110102	RESISTOR	RESIST. 1/4W 5% 1K	3
R2	A110183	RESISTOR	RESIST. 1/4W 5% 18K	1
R3 -R28 -R29	A110473	RESISTOR	RESIST. 1/4W 5% 47K	3
R4	A111174	RESISTOR	RESIST. 1/4W 1% 17K4	1
R5	A110122	RESISTOR	RESIST. 1/4W 5% 1K2	1
R7	A100393	RESISTOR	RESIST. 1/2W 5% 39K	1
R8 -R9	A100682	RESISTOR	RESIST. 1/2W 5% 6K8	2
R10 -R12	A110681	RESISTOR	RESIST. 1/4W 5% 680	2
R11 -R24 -R31	A110103	RESISTOR	RESIST. 1/4W 5% 10K	3
R13	A110821	RESISTOR	RESIST. 1/4W 5% 820	1
R14	A110332	RESISTOR	RESIST. 1/4W 5% 3K3	1
R15	A110471	RESISTOR	RESIST. 1/4W 5% 470	1
R16	A110224	RESISTOR	RESIST. 1/4W 5% 220K	1
R17	A110221	RESISTOR	RESIST. 1/4W 5% 220	1
R18 -R19	A110478	RESISTOR	RESIST. 1/4W 5% 4,7	2
R20 -R25	A110393	RESISTOR	RESIST. 1/4W 5% 39K	2
R21	A140100	RESISTOR	RESIST. 2W 5% 10 PR37=PR02	1
R22	A110331	RESISTOR	RESIST. 1/4W 5% 330	1
R23 -R30	A110223	RESISTOR	RESIST. 1/4W 5% 22K	2
R26	A110564	RESISTOR	RESIST. 1/4W 5% 560K	1
R27	A110104	RESISTOR	RESIST. 1/4W 5% 100K	1
R33 -R34	A140681	RESISTOR	RESIST. 2W 5% 680 PR37=PR02	2
R35 -R36	A110683	RESISTOR	RESIST. 1/4W 5% 68K	2
J1 -J2 -J3 -J4	A110000	RESISTOR	RESIST. 1/4W 5% 0	4
C1 -C10 -C11 -C20 -C22	A2432AB	CAPACITOR	COND. RE2-50V 220MMA-T2 (22µF 50V)	5
C2	A226221	CAPACITOR	COND. CR 220pF 100V 10% 05	1
C3 -C6 -C7	A244226	CAPACITOR	COND. EV 22µF 100V 8X12	4
C4	A2433AD	CAPACITOR	COND. RE2-25V 470MMA-T2 (47µF 25V)	1
C5	A244231	CAPACITOR	COND. EV RSH 100 F 100F 13x20	1
C8 -C9	A232480	CAPACITOR	COND. 4700µF 80V SNAP-IN	2
C12	A216474	CAPACITOR	COND. PL 470nF 100V 10% 15	1
C13	A217563	CAPACITOR	COND. PL 56nF 100V 5% 05	1
C14 -C15 -C16	A2434AA	CAPACITOR	COND. RE3 25V 101MAA-T2 (100µF 25V)	3
C18	A2435AH	CAPACITOR	COND. R2B-50V 4R7M-T2 (4µ7F 50V NP)	1
C19	A214105	FILTER	FILTRO R40-KI-3100-5001M	1
C21	A216104	CAPACITOR	COND. PL 100nF 100V 10% 10	1
C23	A216103	CAPACITOR	COND. PL 10nF 400V 10% 10	1
PT1	A434102	POTENTIOMETER TRIMMER	TRIMMER PR REG. ORIZ. 1KA P10	1
T1 -T2	A500003	TRANSISTOR	TRANSIST KTA1268	2
T3 -T5 -T6 -T7	A500053	TRANSISTOR	TRANSIST MPSA 06 NPN	4
T4	-	NC		-
T8	A500025	TRANSISTOR	TRANSIST TIP 31C	1
T9	A500026	TRANSISTOR	TRANSIST TIP 32C	1
T10	A500122	TRANSISTOR	TRANSIST BC 449 A	1
T11	A500041	TRANSISTOR	TRANSIST 2SD1857A	1
D1 -D9 -D10	A510001	DIODE	DIODO 1N4007	3
D2 -D5	A510003	DIODE	DIODO 1N4148	2
D3 -D4	A510100	ZENER DIODE	ZENER 10V 1W	2
D6 -D7	A510150	ZENER DIODE	ZENER 15V 1W	2
D11	A510120	ZENER DIODE	ZENER 12V 1W	1
F1	A600010	FUSE	FUSIBILE 1A	1
F1	A600804	FUSE HOLDER	PORTAFUSIBILE C1010+ COPERCHIO	1
BD1	A605008	BRIDGE DIODES	PONTE R KBL 04 2A 400V	1
RL1	A605150	RELAY	RELE` M.I.SH 248 L.	1
L1	A601499	RED LIGHT EMITTED DIODE	LED L-53SRC/C 5 HY-LUM C ROS	1
TP1	A601552	PHOTORESISTOR	FOTORESISTENZA VT 90N1	1
TP1	B005768	CAP (FOR WAVE TRAP)	CAPPUCCIO TRAPP. 10x15 PVC	1
TP1	B005769	CAP (FOR WAVE TRAP)	CAPPUCCIO TRAPP. 7,2x10,5 P	1
TR1	B005180	TRANSFORMER	TRASFORMATORE MT180A	1
CNN1	A603716	FLAT CABLE	PIATT. PFS 0033 150mm 6C	1
CNN2	A603360	TERMINAL	MORS. WMSM/03/09V1	1
CNN3	A603714	FLAT CABLE	PIATT. PFS0129 40mm 6C 0300/1	2
MTBTR6	B14MTBT	PRINTED CIRCUIT	CS MTBTR6 TRASF. CON REG. x MT180	1
-	A603701	TAG	PAGLIETTA x CS L979	2
-	A603735	PCB SPADE TERMINATOR	FASTON MASC. CS TE342 08	2
-	A603751	EYELET TERMINAL	CAPOC. OCCHIELLO BLU D5	1
-	A606356	YELLOW/GREEN CABLE	CAVO D 0,5 GIALLO/VERDE	mt 0,3



## CS MTBTR5/MTBTR6

POWER AMPLIFIER / POWER SUPPLY  
AMPLIFICATORE / ALIMENTAZIONE

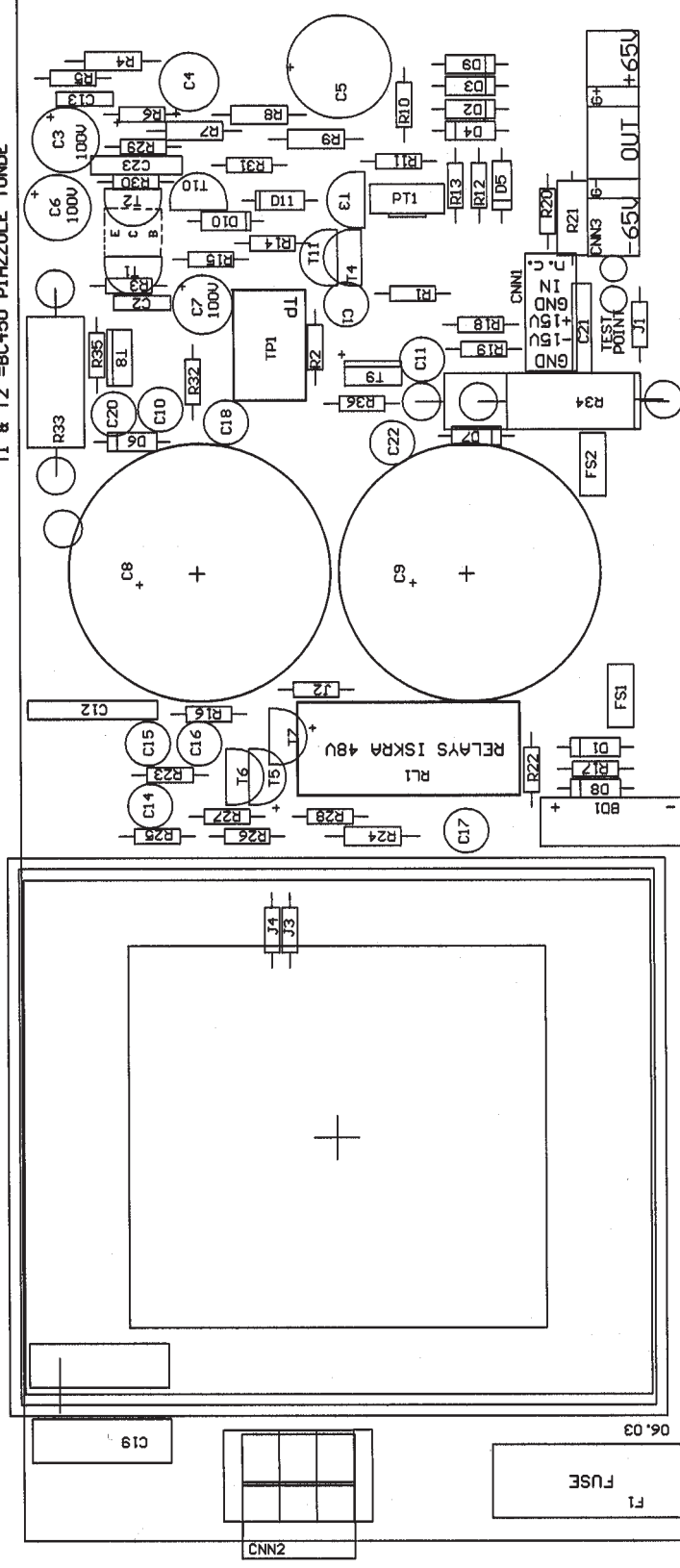
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		MTBTR5/R6 - AMPLIFICATORE / TRASFORMATORI			
	Size A3	FCSM No.	DWG No.		Rev 10.03
	Scale			Sheet 1 of 1	

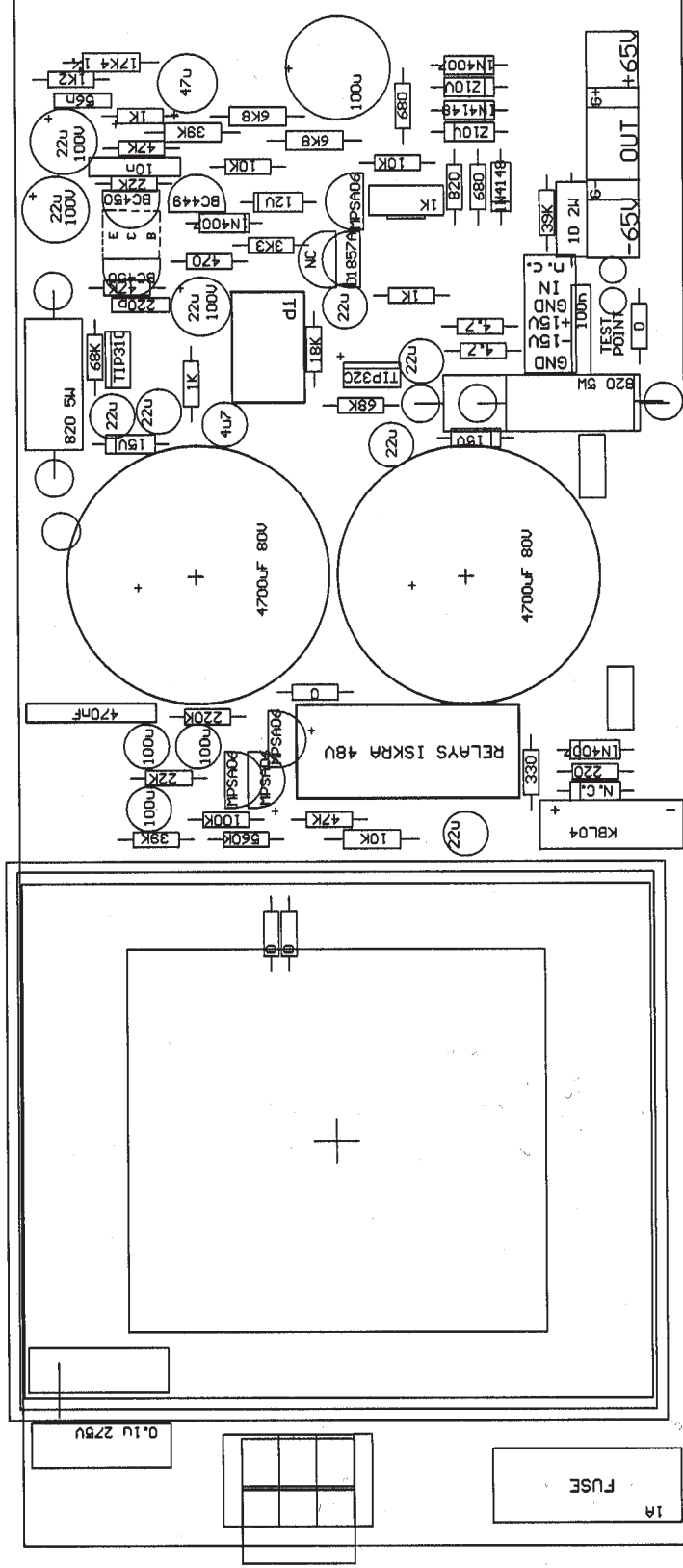
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T1 & T2 =BC450 PIAZZOLE TONDE




MODIFICATION RESERVEES - ANDERUNGEN VORBEHALTEN - CON RISERVA DI MODIFICHE - ALTERATIONS RESERVED - CON RESERVA DE MODIFICACION

ELETTRONICA <b>Montarbo</b>  s.r.l. BOLOGNA ITALY		10.03	MTBTR6
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MODIFICATION RESERVEES - ANDERUNGEN VORBEHALTEN - CON RISERVA DI MODIFICHE - ALTERATIONS RESERVED - CON RESERVA DE MODIFICACION

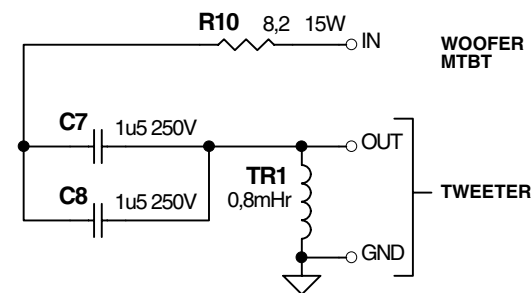
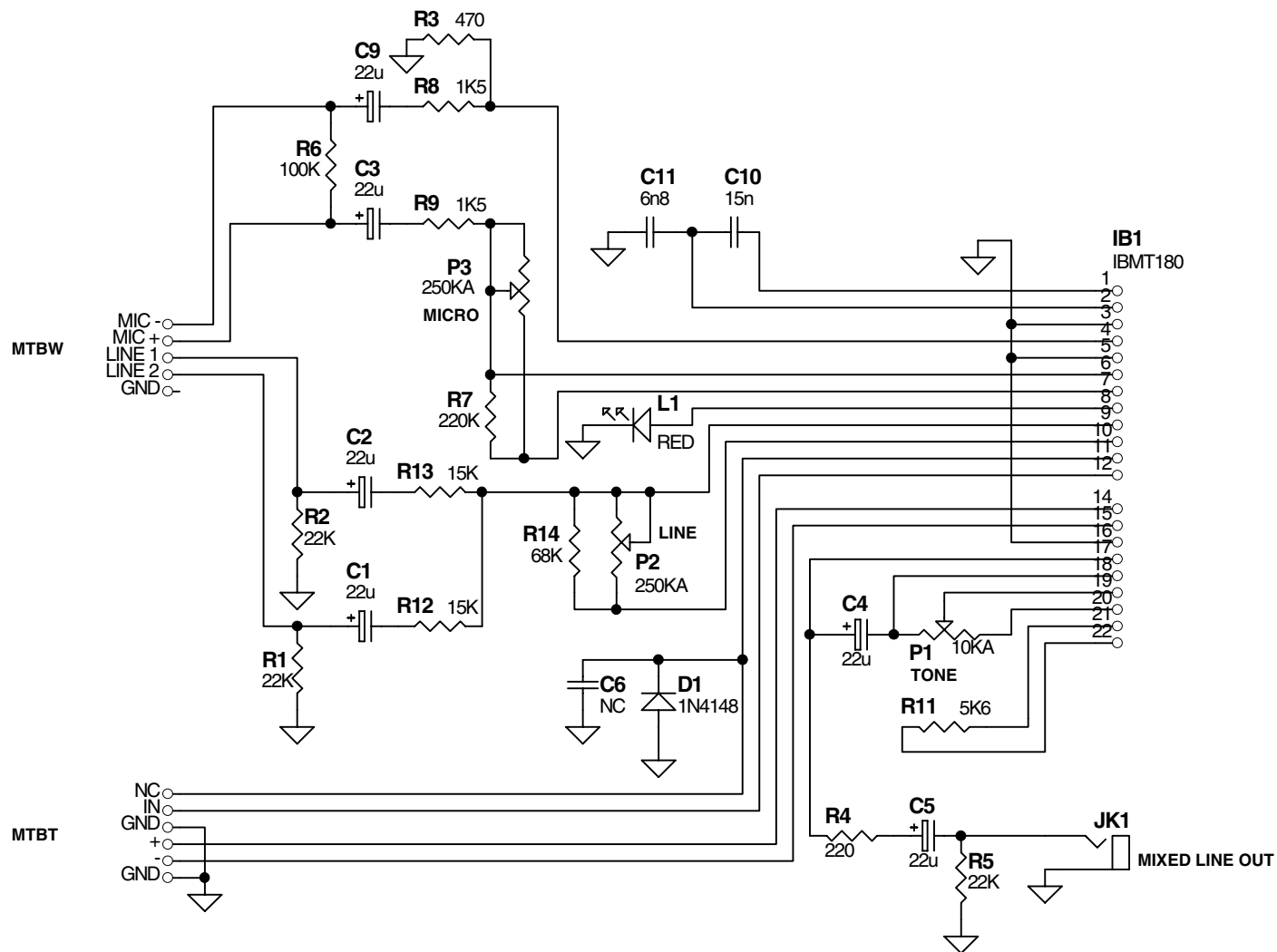
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1st version

*1a versione*

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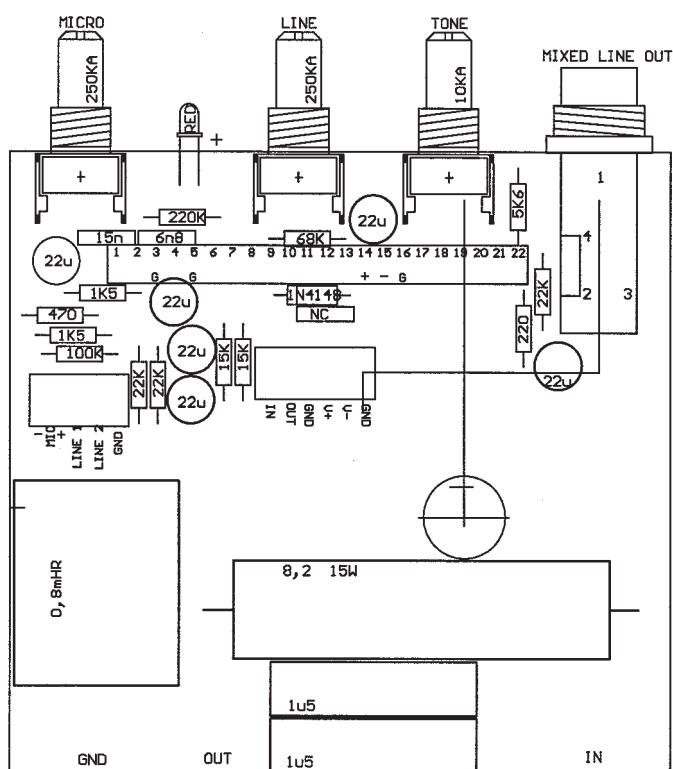
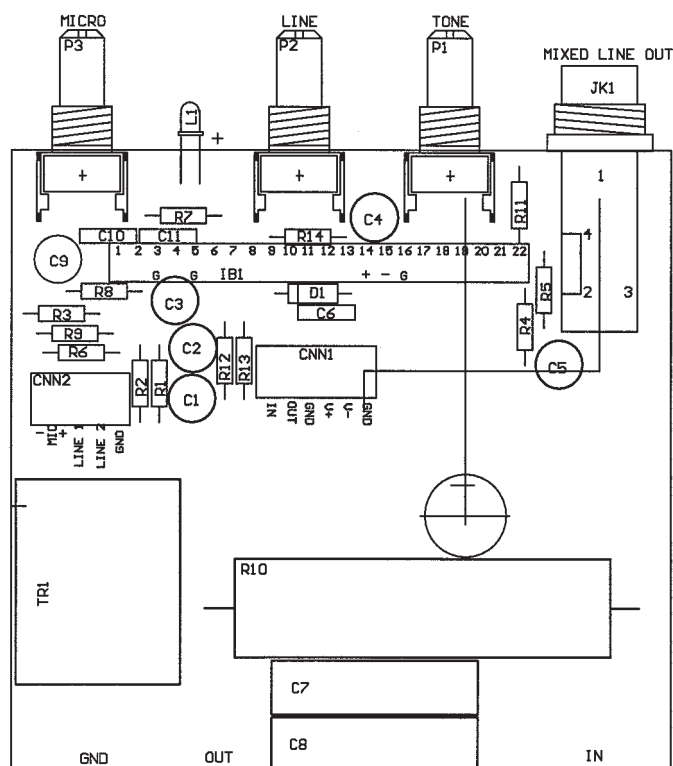
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Scale		Sheet 1 of 1	



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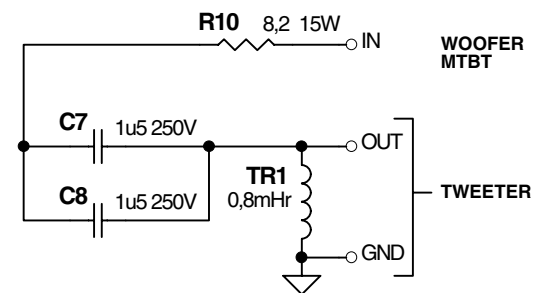
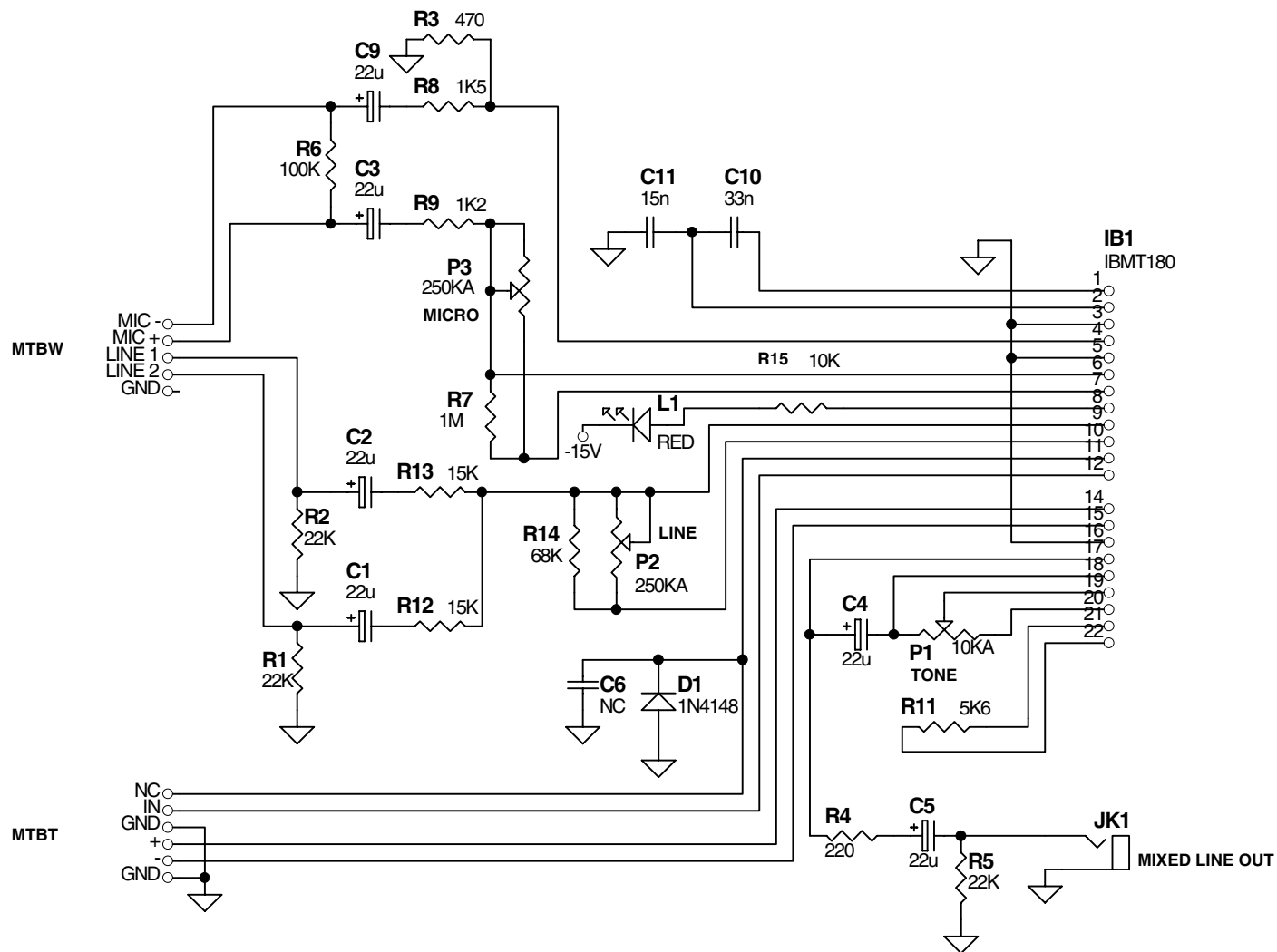


## PREAMPLIFIER / FILTER

2nd version

*PREAMPLIFICATORE / FILTRO 2a versione*

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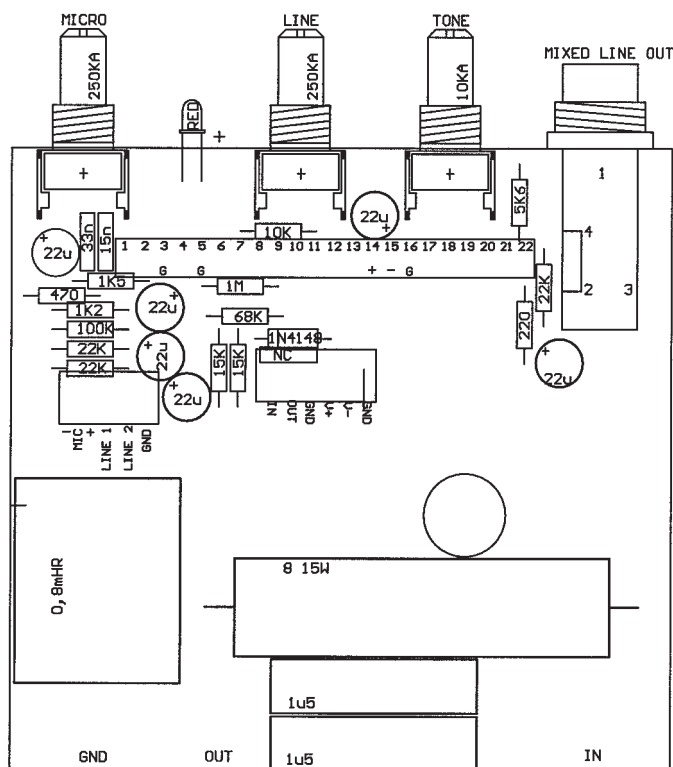
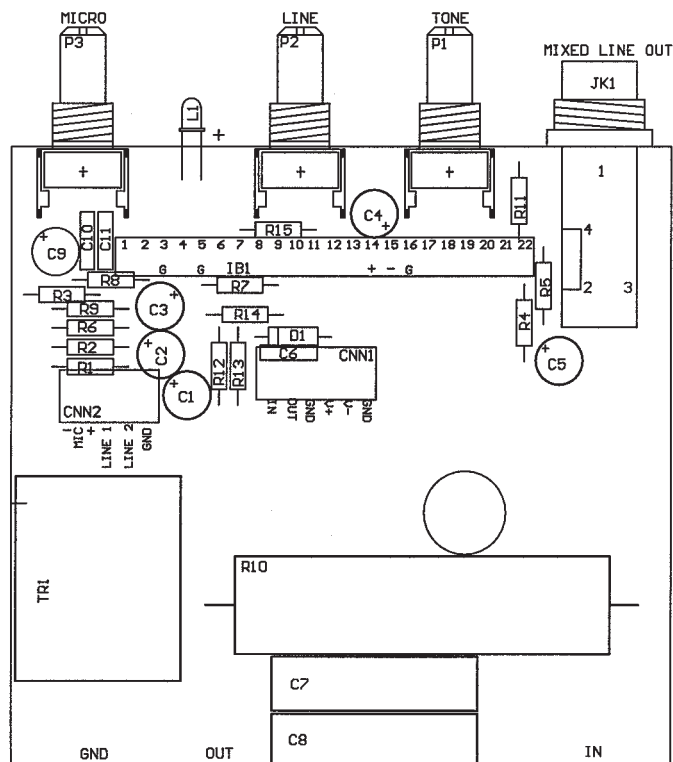
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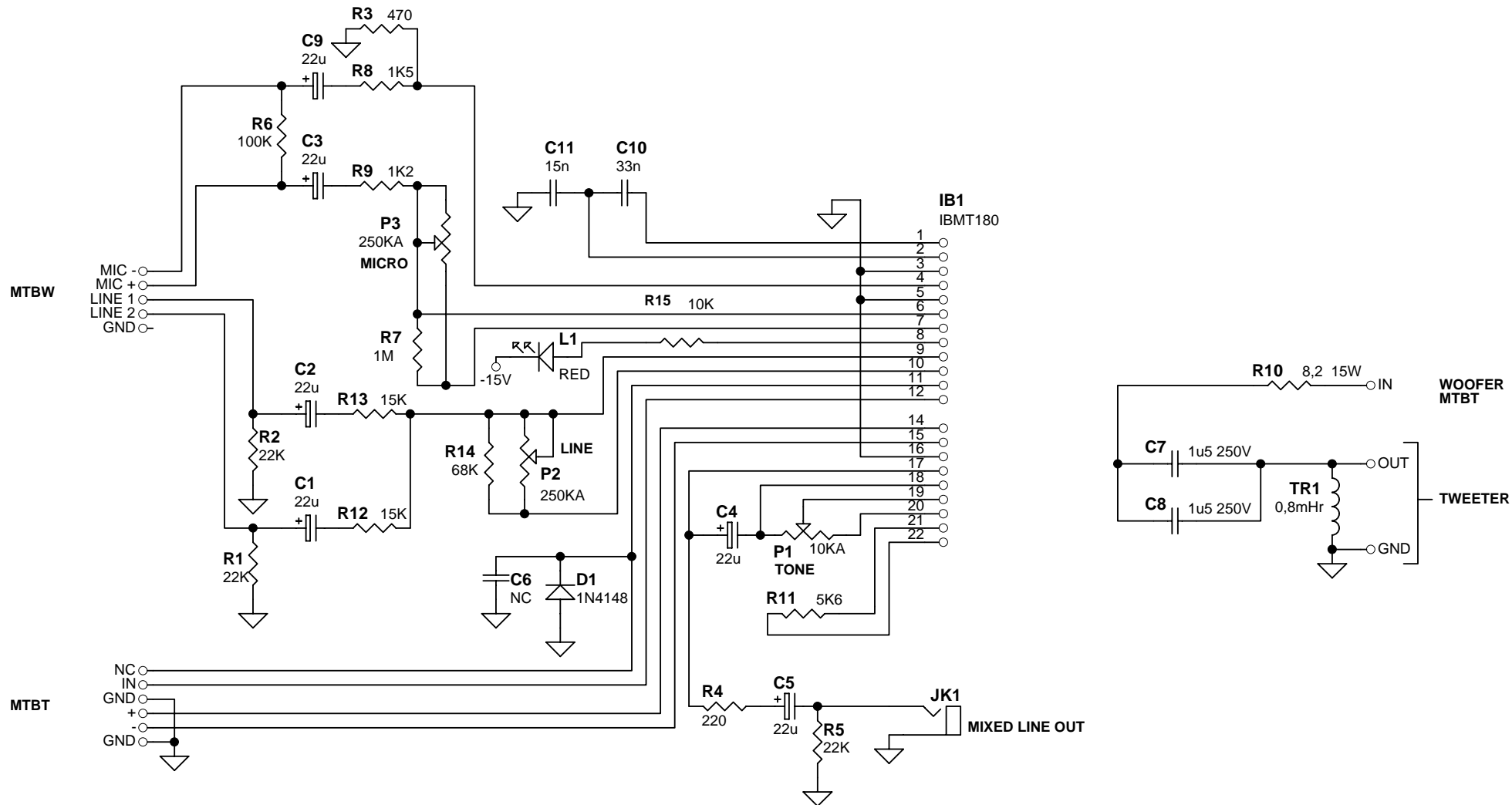
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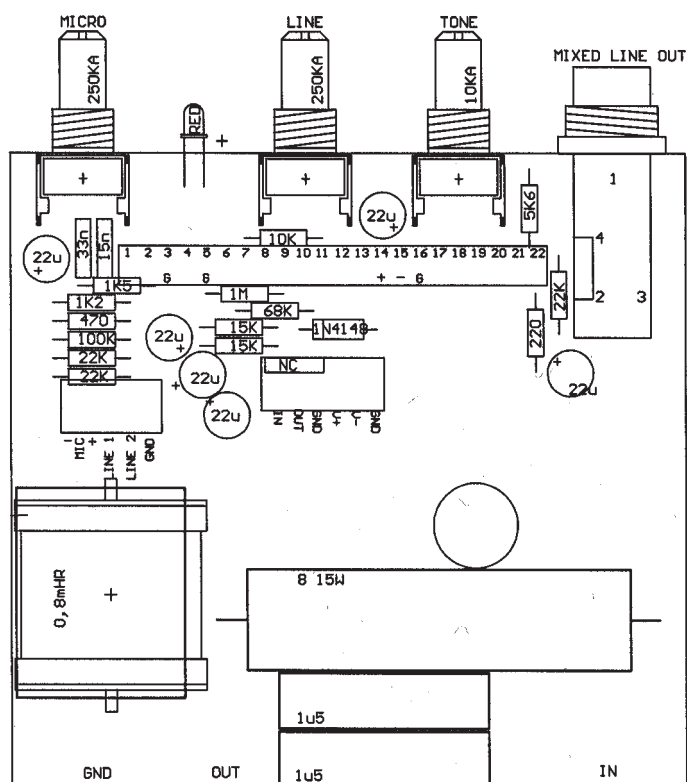
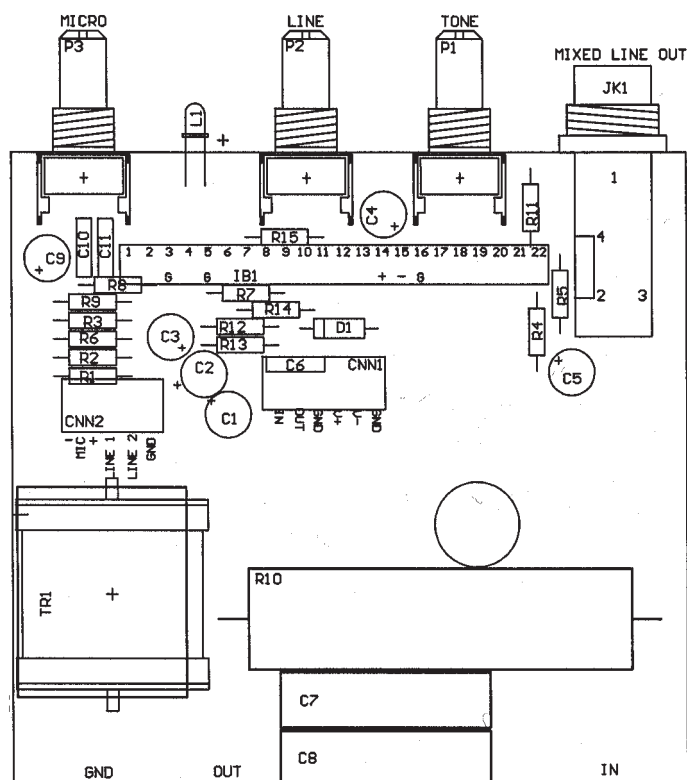
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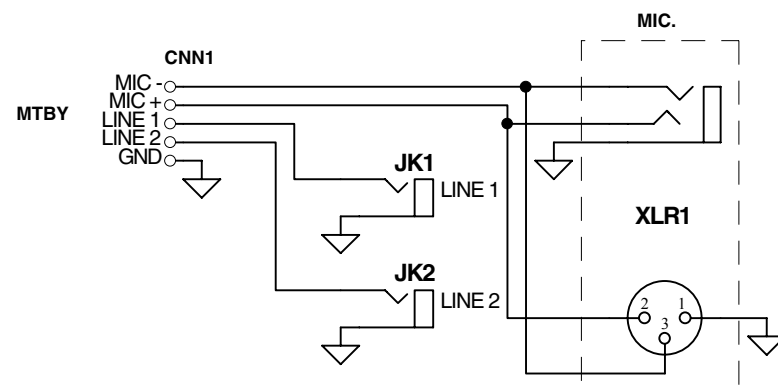
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JACK PER MT 180A

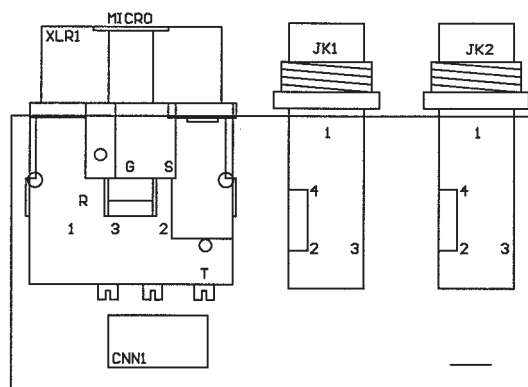
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