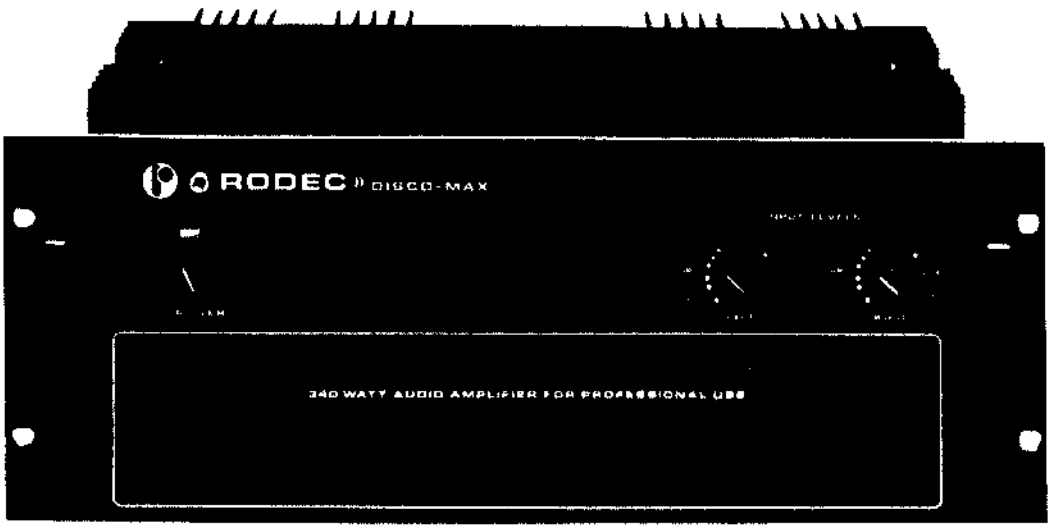
RODEC » DISCO-MAX



TECHNICAL SPECIFICATIONS :

Continuous RMS power output before clipping, stereo mode, 20 Hz - 20 kHz :

Input sensitivity	Charge	Power two channels modulated	Power one channel modulated
0,77 V	4 + 4 Ohm	170 + 170 watt	190 watt
0,9 V	8 + 8 Ohm	110 + 110 watt	128 watt
1 V	16 + 16 Ohm	72 + 72 watt	78 watt
Bridged operation :			
0,77 V	8 Ohm	—	340 watt
0,9 V	16 Ohm	—	220 watt

THD, 1 dB under clipping, two channels modulated on 4+4 Ohm :
20 Hz - 10 kHz : 0,2 %
10 kHz - 20 kHz : 0,3 %

Input impedance : 68 kOhm minimum.
Noise : 97 dB under max. output («A» weighted)
Max. ambient temp. : 55° C.

Power line requirements and consumption :
220 V AC ± 10 %
max. signal on 4+4 Ohm 560 watt zero signal : 15 watt

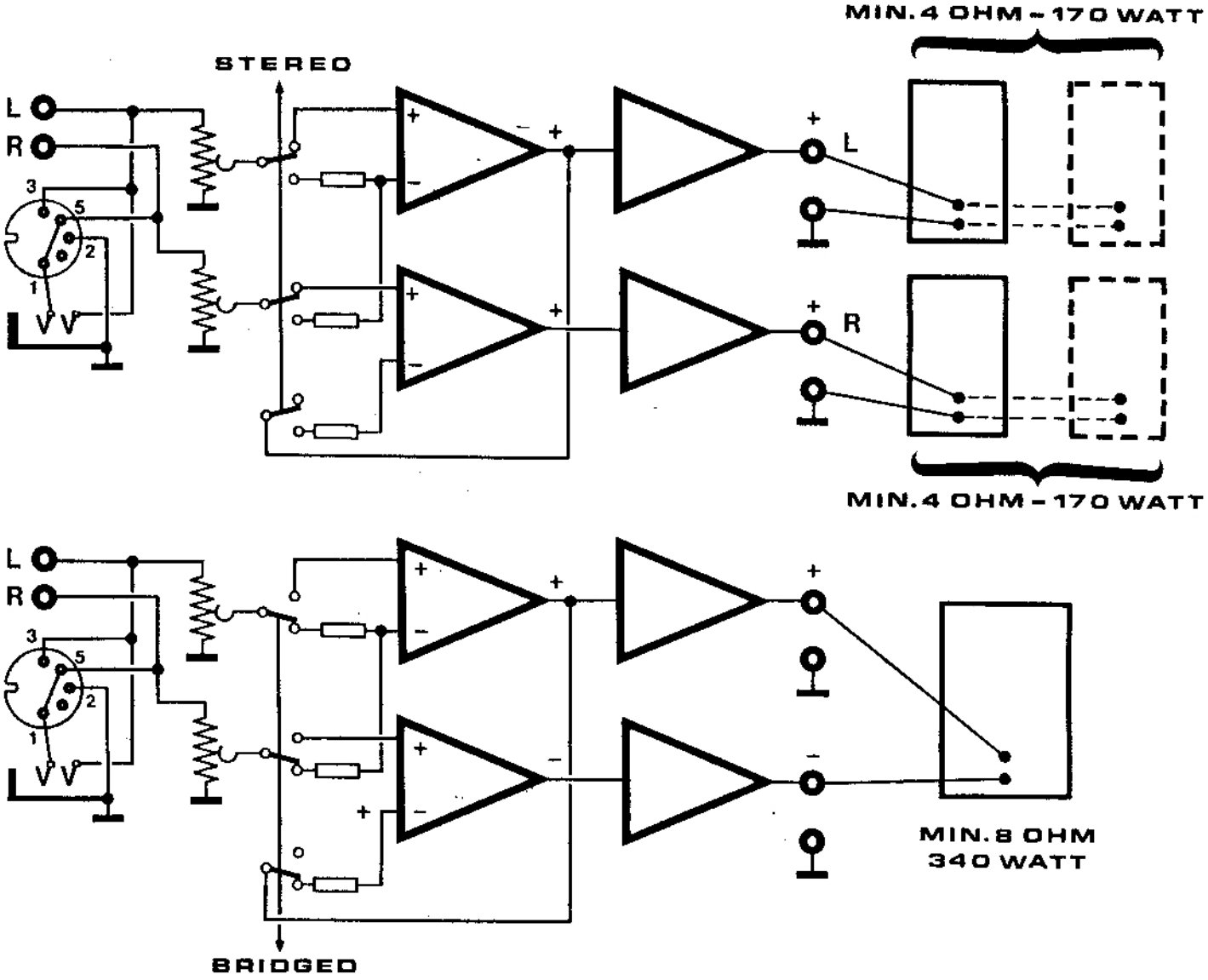
Dimensions and weight :
Frontplate 483 x 177 mm (standard rack) - Chassis 422 x 238 x 165 mm - 13,1 Kg

Special features :
— TID-free circuit conception, low-pass input filter provided.
— Under 4 Ohm charging and short-circuit current limitting.
— In «bridged operation», the left and right input signals are mixed.
— DC speaker protection switch-off.
— Small signal h.f. roll-off point without filter : —3dB at 300 kHz.
— Small signal h.f. roll-off without filter, open loop : —3dB at 60 kHz.

Specifications subject to changes without notice

MANUFACTURED BY
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Tel. 031 / 37.36.07
Telex nº 33042 TRASAB B

RODEC » DISCO MAX

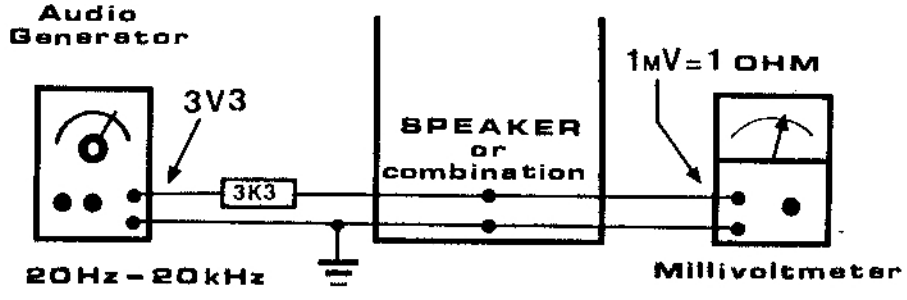


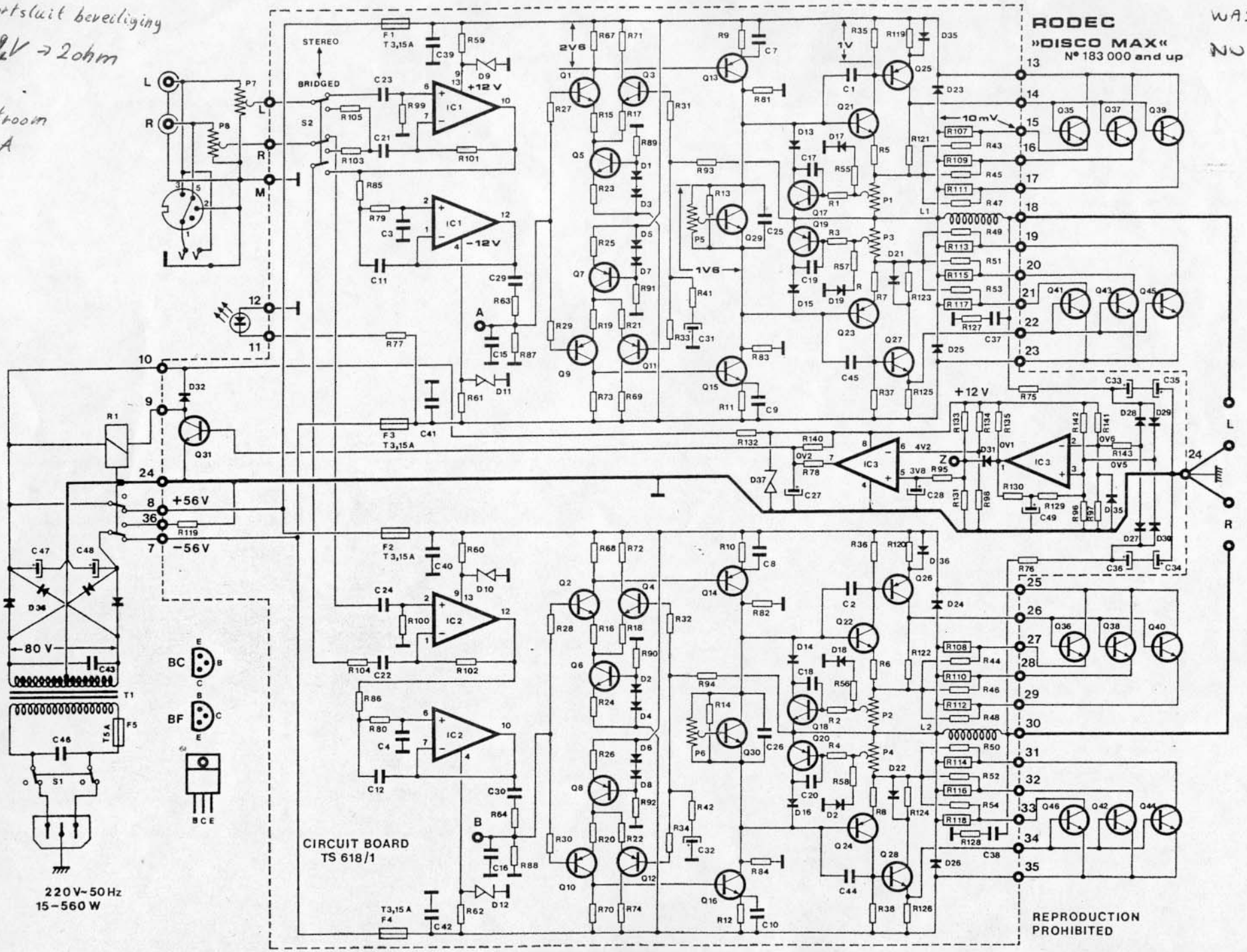
Speaker-impedance measurement setup

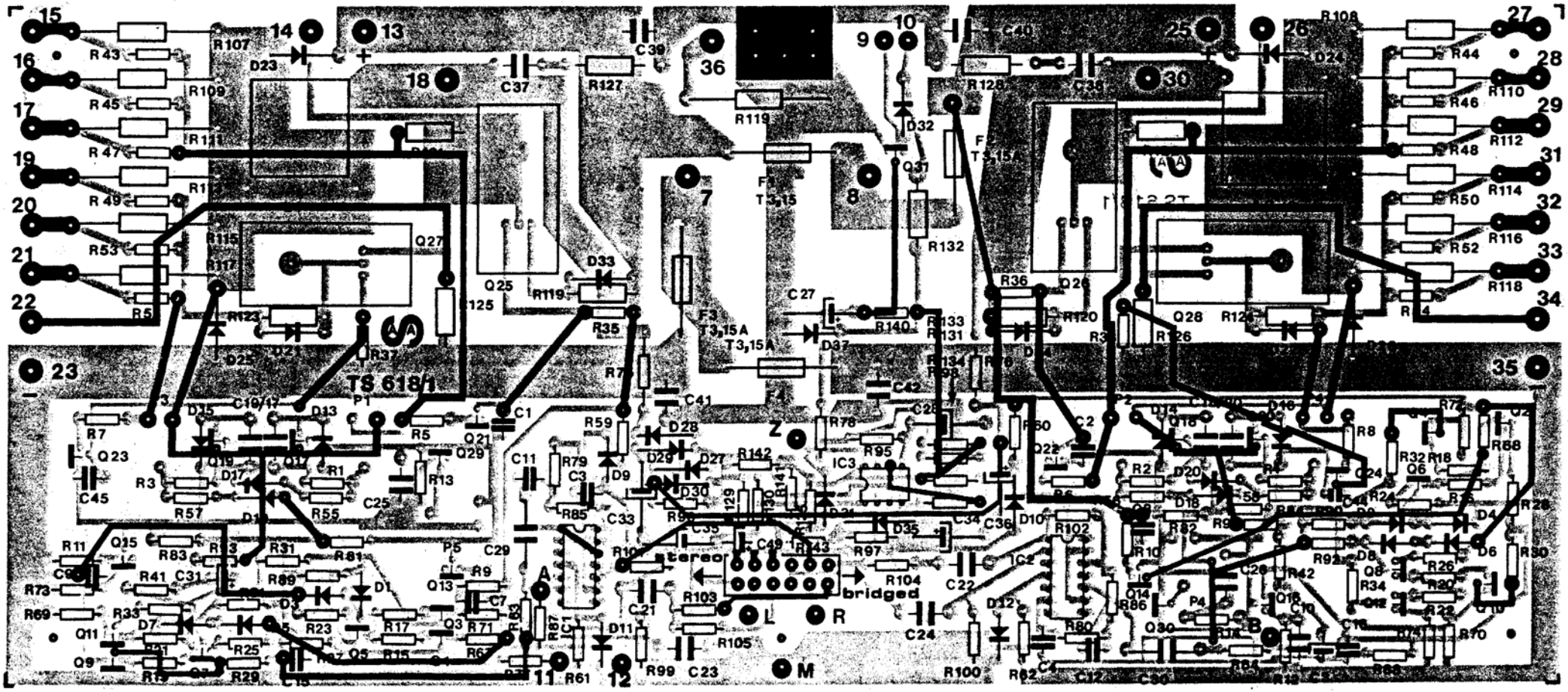
Aufstellung für Impedanzmessung der Lautsprecher

Mesure de l'impédance des haut-parleurs

Opstelling om de luidsprekerimpedantie te meten

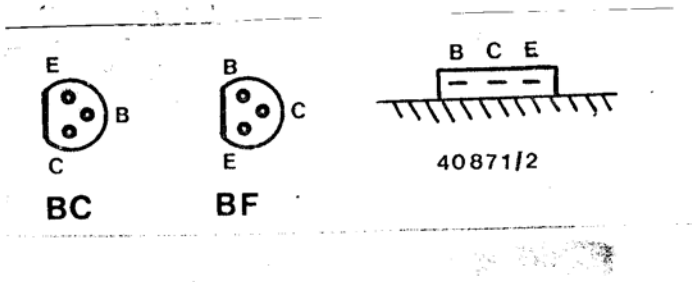



RODEC
»DISCO MAX«
Nº 183 000 and up
STEREO
BRIDGED
+12 V
-12 V
+56 V
-56 V
80 V
220V~50Hz
15-560 W
CIRCUIT BOARD
TS 618/1
REPRODUCTION
PROHIBITED


TS 618/1
stereo
bridged
T3,15A
F3
F4
L
R
M
A
B
Z

RODEC "Disco Max" Parts List.

P1-6	Trimpotentiometer	1k	R43-54	Carbon film resistor	10R
P7-8	Levelpotentiom.	100k lin	R78	Carbon film resistor	47R
IC1-2	Integrated circ.	ùA747	R1-8	Carbon film resistor	100R
Q1-6/31	Transistor	BC 546 A	R15-22	Carbon film resistor	180R
Q7-12/32	Transistor	BC 556 A	R9-14	Carbon film resistor	270R
Q13-14/23-24	"	BF 423	R23-26	Carbon film resistor	680R
Q15-16/21-22	"	BF 422	R41-42	Carbon film resistor	820R
Q17-18/29-30	"	BC 549 C	R27-40	Carbon film resistor	1k
Q19-20	Transistor	BC 559 B	R55-58	Carbon film resistor	2K7
Q25-26	Transistor RCA	40872	R59-64/67-74	" " "	4K7
Q27-28	Transistor RCA	40871	R75-76	Carbon film resistor	10k
Q33-34	Thyristor	BT 151	R77	Carbon film resistor	12k
Q35-44	Transistor RCA	17675	R79-80	Carbon film resistor	18k
D1-8	Stabistor	BA 314	R81-84	Carbon film resistor	22k
D9-12	Zener diode	BZX79/C12	R85-96	Carbon film resistor	33k
D13-22/35-36	Silicium diode	1N4448	R97-98	Carbon film resistor	100k
D23-26/31-34	Silicium diode	1N4002	R99-105	Carbon film resistor	220k
D27-30	Germanium diode	OA 95	R119-126	Carbon film resistor	22R/0,5w
D37	Bridge rectifier	B80 C7000	R127-128	Carbon film resistor	10R/2w
C1-4/44-45	Ceramic capacitor	100 P	R107-118	Wirewound resistor	1R/5w
C7-10	Ceramic capacitor	470 P	F1-4	Fuse slow blow	3,15 A
C11-12	Ceramic capacitor	1N	F5	Fuse slow blow	5 A
C15-16	Ceramic capacotor	2N2			
C17-20	Polyester cap.	22N			
C43/46	Polyester cap.	22N/1200V			
C27-28/37-38	" "	100N			
C21-26/39-42	" "	220N			
C29-30	Polyester cap.	680N			
C31-32	Electrolytic cap.	33MF			
C33-36	Electrolytic cap.	47MF			
C47-48	Electrolytic cap.	15000MF/63V			



Some directives for maintenance.

IMPORTANT! The use of a 500 watt variable mains transformer is strictly necessary to repair this kind of amplifiers. A volt and ampèremeter connected at the output of this transformer is most usefull.

1) Replace existing channel fuses with lighter ones (1A).
2) Put the thyristor circuit out of action by strapping the cool end of R75(76) to mass. (points z)
3) Without charging the output terminals, bring slowly the supply voltage up. The circuit will balance itself from about 20 V DC up. The voltage at the output terminals will be a few millivolts. If this is not the case, measure all the DC voltages until the fault is found.
4) Conclude with the removal of the straps in the thyristor circuit and the replacement of the fuses with the original value.

Idle current: adjustable with P5(6) till a voltage drop of aprox. 10 mV is measured across the resistors R107-118, the total idle current is then ±30mA.

Current limitting: connect a 2 Ohm resistor to the output terminals. Provide a 1 kHz sinusoidal signal as to become 8 V rms across this resistor. Adjust each P1-3(2-4) as to curb slightly the tops (+&-) of the displayed sinus on the oscilloscope.