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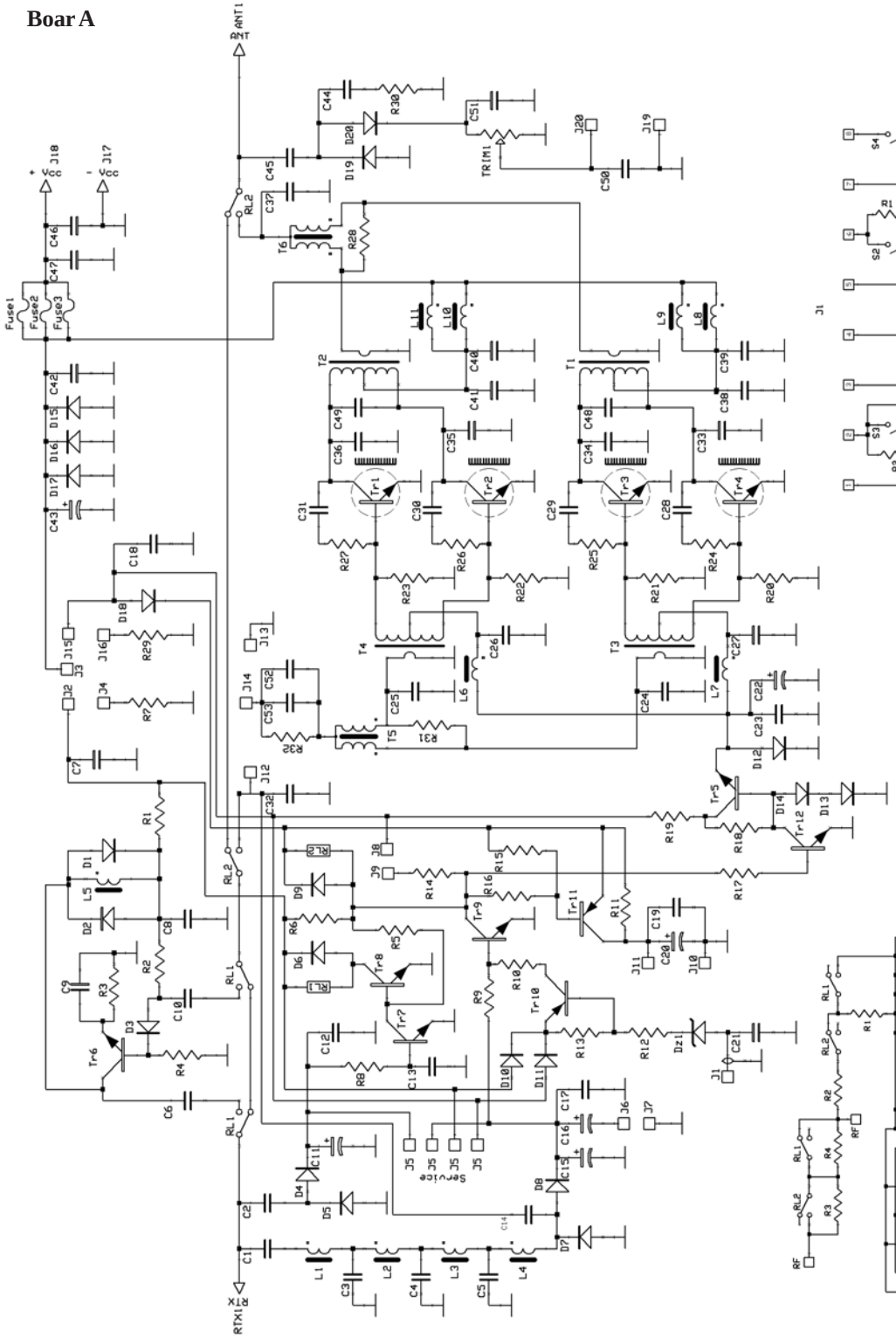
Mod. KL 501 linear amplifier

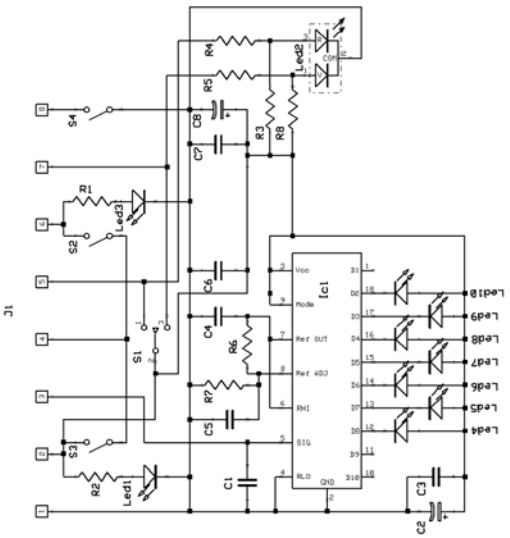
Schematic diagram

Version 5.01

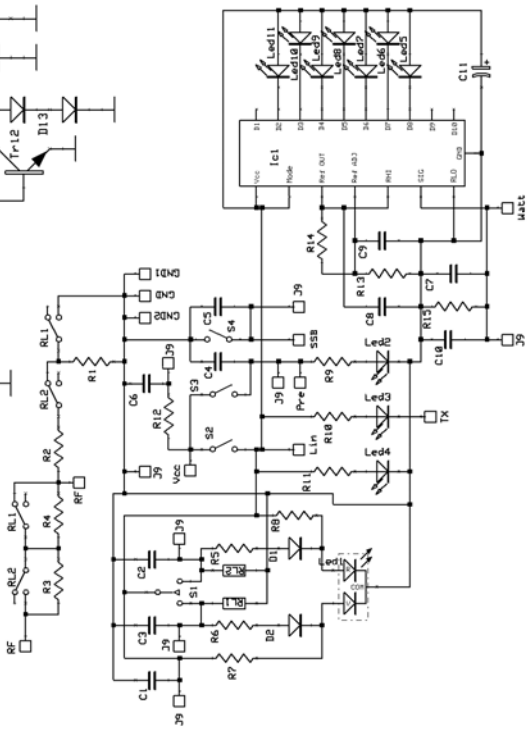
Boar A



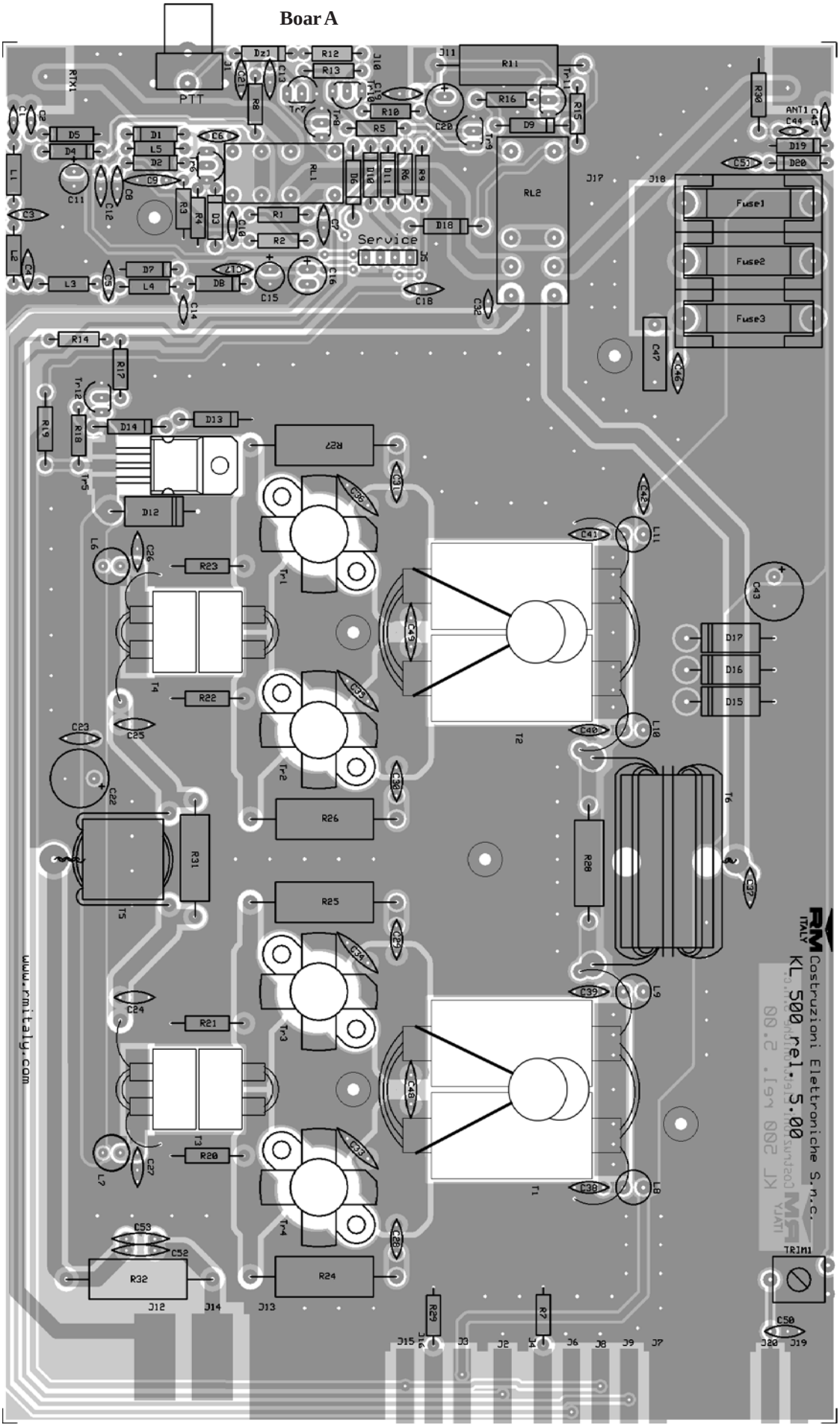
Remote



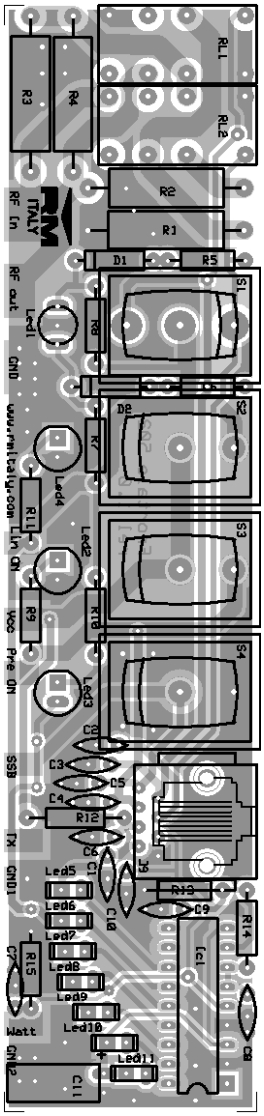
Board B



Boar A



Board B



List of components board A

C 1	= 3.3 pF	50 V	NP0
C 2	= 8.2 pF	50 V	NP0
C 3	= 100 pF	50 V	NP0
C 4	= 100 pF	50 V	NP0
C 5	= 82 pF	50 V	NP0
C 6	= 150 pF	50 V	NP0
C 7	= 10 nF	50 V	
C 8	= 10 nF	50 V	
C 9	= 470 pF	50 V	N750
C 10	= 56 pF	50 V	NP0
C 11	= 10 µF	16 V	
C 12	= 10 nF	50 V	
C 13	= 10 nF	50 V	
C 14	= 5.6 pF	50 V	NP0
C 15	= 2.2 µF	16 V	
C 16	= 47 µF	16 V	
C 17	= 10 nF	50 V	
C 18	= 10 nF	50 V	
C 19	= 10 nF	50 V	
C 20	= 10 µF	16 V	
C 21	= 10 nF	50 V	
C 22	= 470 µF	25 V	
C 23	= 100 nF	50 V	
C 24	= 220 pF	50 V	NP0
C 25	= 220 pF	50 V	NP0
C 26	= 10 nF	50 V	
C 27	= 10 nF	50 V	
C 28	= 47 nF	50 V	
C 29	= 47 nF	50 V	
C 30	= 47 nF	50 V	
C 31	= 47 nF	50 V	
C 32	= 47 pF	50 V	
C 33	= 180 pF	500 V	N750
C 34	= 180 pF	500 V	N750
C 35	= 180 pF	500 V	N750
C 36	= 180 pF	500 V	N750
C 37	= 68 pF	500 V	NP0
C 38	= 100 nF	50 V	
C 39	= 100 nF	50 V	
C 40	= 100 nF	50 V	
C 41	= 100 nF	50 V	
C 42	= 100 nF	50 V	
C 43	= 470 µF	25 V	
C 44	= 33 pF	50 V	NP0
C 45	= 2,2 pF	50 V	NP0
C 46	= 100 nF	50 V	
C 47	= 470 nF	100 V	Polyester
C 48	= 750 pF	500 V	Mica
C 49	= 750 pF	500 V	Mica
C 50	= 10 nF	50 V	
C 51	= 100 nF	50 V	
C 52	= 180 pF	500 V	N750
C 53	= 180 pF	500 V	N750
R 1	= 100 Ω	¼W	
R 2	= 12 KΩ	¼W	
R 3	= 100 Ω	¼W	
R 4	= 2.2 KΩ	¼W	
R 5	= 12 KΩ	¼W	
R 6	= 4.7 KΩ	¼W	
R 7	= 1.0 KΩ	¼W	
R 8	= 2.2 KΩ	¼W	
R 9	= 2.2 KΩ	¼W	
R 10	= 2.2 KΩ	¼W	
R 11	= 47 Ω	5W	
R 12	= 12 KΩ	¼W	
R 13	= 2.2 KΩ	¼W	
R 14	= 1.0 KΩ	¼W	
R 15	= 1.0 KΩ	¼W	
R 16	= 4.7 KΩ	¼W	
R 17	= 12 KΩ	¼W	
R 18	= 820 Ω	¼W	
R 19	= 1.0 Ω	½W	
R 20	= 10 Ω	½W	
R 21	= 10 Ω	½W	
R 22	= 10 Ω	½W	
R 23	= 10 Ω	½W	
R 24	= 68 Ω	2W	
R 25	= 68 Ω	2W	
R 26	= 68 Ω	2W	
R 27	= 68 Ω	2W	
R 28	= 100 Ω	2W	
R 29	= 1.0 KΩ	¼W	
R 30	= 27 Ω	½W	
R 31	= 100 Ω	2W	
R 32	= 33 Ω	5W	

TRIM 1 = 10 KΩ

D 1 = D 2 = D 3 = D 4 = D 5 = D 7 =D 8 = 1N4148

D 10 = D 11 = D 19 = D 20 = 1N4148

D 6 = D 9 = D 13 = D 14 = D 18 = 1N4007

D 12 = D 15 = D 16 =D 17 = 1N5400

Dz 1 = 5.1 V ½W

Tr 1 = Tr 2 = Tr 3 = Tr 4 = MS 1051

Tr 5 = 2SD2012

Tr 7 = Tr 8 = Tr 9 = BC 547

Tr 10 = BC 557

Tr 11 = BC 327

Tr 6 = BF 199
L 1 = L 2 = L 3 = L 4 = 2,2 µH
L 5 = 10 µH
L 6 = L 7 = VK 200 1 wire
L 8 = L 9 = L 10 = L 11 = VK 200 2 wires
Rl 1 = Relè 12 V 3022
Rl 2 = Relè 12 V 4052
Fuse = 3 x 12A
T 3 = T 4 = T 5 = Input transformators
T 1 = T 2 = T 6 = Output transformators

List of components board B

C 1 = 10 nF 50 V
C 2 = 10 nF 50 V
C 3 = 10 nF 50 V
C 4 = 10 nF 50 V
C 5 = 10 nF 50 V
C 6 = 10 nF 50 V
C 7 = 10 nF 50 V
C 8 = 10 nF 50 V
C 9 = 10 nF 50 V
C 10 = 10 nF 50 V
C 11 = 22 µF 16 V
R 1 = 100 Ω 2 W
R 2 = 68 Ω 2 W
R 3 = 27 Ω 2 W
R 4 = 10 Ω 2 W
R 5 = 1.0 KΩ ¼W
R 6 = 1.0 KΩ ¼W
R 7 = 8.2 KΩ ¼W
R 8 = 10 KΩ ¼W
R 9 = 1.0 KΩ ¼W
R 10 = 1.0 KΩ ¼W
R 11 = 1.0 KΩ ¼W
R 12 = 1.0 Ω ½W
R 13 = 8.2 KΩ ¼W
R 14 = 1.0 KΩ ¼W
R 15 = 4.7 KΩ ¼W
Ic 1 = LM 3915N
Rl 1 = 30.22.0.012
Rl 2 = 30.22.0.012
Led 1-11 = LED
J 9 = RJ 45 Connector

List of components remote

C 1 = 10 nF 50 V
C 2 = 10 µF 16 V
C 3 = 10 nF 50 V
C 4 = 10 nF 50 V
C 5 = 10 nF 50 V
C 6 = 10 nF 50 V
C 7 = 10 nF 50 V
C 8 = 10 µF 16 V
R 1 = 1.0 KΩ ¼W
R 2 = 1.0 KΩ ¼W
R 3 = 10 KΩ ¼W
R 4 = 1.0 KΩ ¼W
R 5 = 1.0 KΩ ¼W
R 6 = 1.0 KΩ ¼W
R 7 = 8.2 KΩ ¼W
R 8 = 8.2 KΩ ¼W
Ic 1 = LM 3915N
Led 1-11 = LED
J 1 = RJ 45 Connector