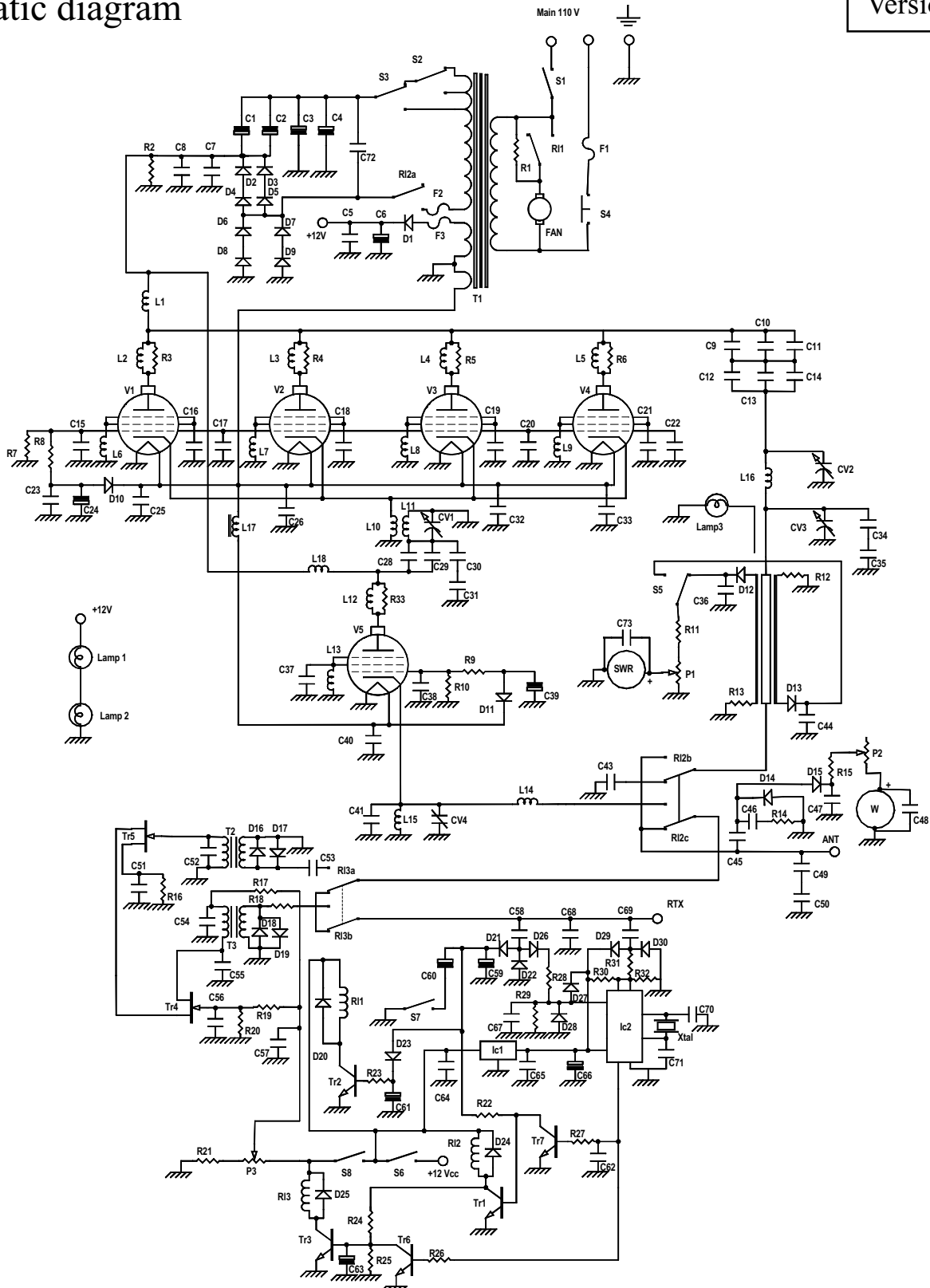
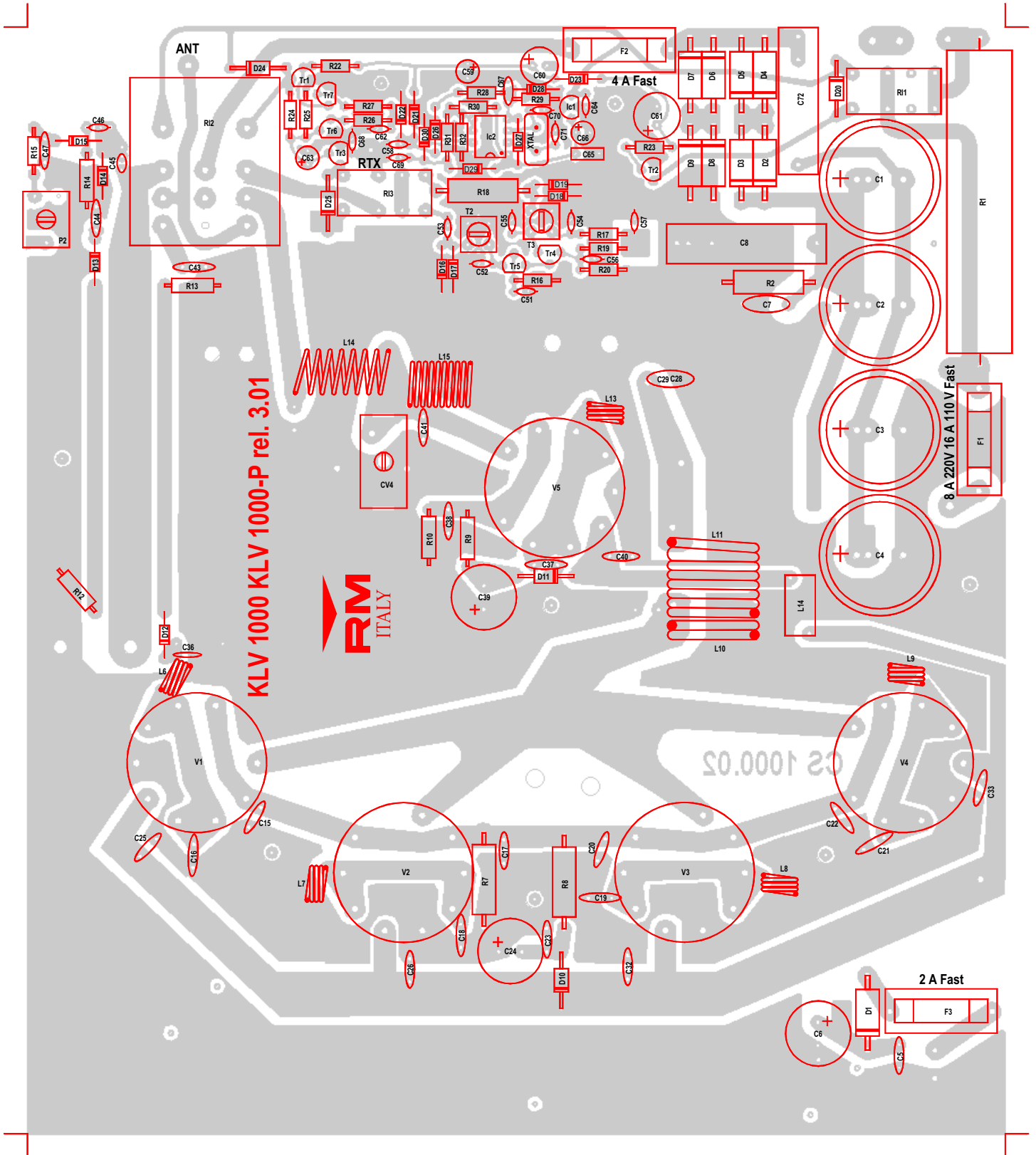


Mod. KLV 1000 linear amplifier

Schematic diagram

Version 3.11





List of components

C ₁	= 100 µF	450 V	
C ₂	= 100 µF	450 V	
C ₃	= 100 µF	450 V	
C ₄	= 100 µF	450 V	
C ₅	= 100 nF	50V	
C ₆	= 2200 µF	16 V	
C ₇	= 2,2 nF	1500V	
C ₈	= 22 nF	1000 V	polyester
C ₉	= 2,2 nF	1500 V	
C ₁₀	= 2,2 nF	1500 V	
C ₁₁	= 2,2 nF	1500 V	
C ₁₂	= 2,2 nF	1500 V	
C ₁₃	= 2,2 nF	1500 V	
C ₁₄	= 2,2 nF	1500 V	
C ₁₅	= 100 nF	50V	
C ₁₆	= 150 pF	500 V	N750
C ₁₇	= 100 nF	50V	
C ₁₈	= 150 pF	500 V	N750
C ₁₉	= 150 pF	500 V	N750
C ₂₀	= 100 nF	50V	
C ₂₁	= 150 pF	500 V	N750
C ₂₂	= 100 nF	50V	
C ₂₃	= 100 nF	50V	
C ₂₄	= 470 µF	50 V	
C ₂₅	= 100 nF	50 V	
C ₂₆	= 100 nF	50 V	
C ₂₈	= 2,2 nF	1500 V	
C ₂₉	= 2,2 nF	1500 V	
C ₃₀	= 22 pF	500 V	N750
C ₃₁	= 22 pF	500 V	N750
C ₃₂	= 100 nF	50 V	
C ₃₃	= 100 nF	50 V	
C ₃₄	= 220 pF	500 V	N750
C ₃₅	= 220 pF	500 V	N750
C ₃₆	= 100 nF	50 V	
C ₃₇	= 150 pF	500 V	N750
C ₃₈	= 100 nF	50 V	
C ₃₉	= 470 µF	50 V	
C ₄₀	= 100 nF	50 V	
C ₄₁	= 100 pF	50 V	N750
C ₄₃	= 470 pF	50 V	N750
C ₄₄	= 100 nF	50 V	
C ₄₅	= 2,2 pF	50 V	N750
C ₄₆	= 33 pF	50 V	N750
C ₄₇	= 100 nF	50 V	
C ₄₈	= 100 nF	50 V	
C ₄₉	= 68 pF	500 V	N750
C ₅₀	= 68 pF	500 V	N750
C ₅₁	= 10 nF	50V	
C ₅₂	= 27 pF	50 V	N750
C ₅₃	= 10 nF	50V	
C ₅₄	= 10 nF	50V	
C ₅₅	= 33 pF	50 V	N750
C ₅₆	= 10 nF	50V	
C ₅₇	= 100 nF	50V	
C ₅₈	= 8,2 pF	50 V	N750
C ₅₉	= 10 µF	16V	
C ₆₀	= 47 µF	16V	
C ₆₁	= 330 µF	16V	
C ₆₂	= 10 nF	50V	
C ₆₃	= 10 µF	16V	
C ₆₄	= 10 nF	50 V	
C ₆₅	= 100 nF	63 V	polyester
C ₆₆	= 22 µF	16 V	
C ₆₇	= 10 nF	50 V	
C ₆₈	= 27 pF	50 V	N750
C ₆₉	= 3,3 pF	50 V	N750
C ₇₀	= 27 pF	50 V	N750
C ₇₁	= 27 pF	50 V	N750
C ₇₂	= 470 nF	630 V~	
C ₇₃	= 100 nF	50V	
Cv ₁	= Variable condensator	30 pF	
Cv ₂	= Variable condensator	50 pF	
Cv ₃	= Variable condensator	350 pF	
Cv ₄	= Trimmer	10 - 100 pF	
R ₁	= 820 Ω	17W	
R ₂	= 470 KΩ	2W	
R ₃	= 47 Ω	5W	
R ₄	= 47 Ω	5W	
R ₅	= 47 Ω	5W	
R ₆	= 47 Ω	5W	
R ₇	= 1,0 KΩ	2W	
R ₈	= 100 Ω	2W	
R ₉	= 1,0 KΩ	½W	
R ₁₀	= 1,0 KΩ	½W	
R ₁₁	= 47 KΩ	¼W	
R ₁₂	= 100 Ω	½W	
R ₁₃	= 100 Ω	½W	
R ₁₄	= 27 Ω	½W	
R ₁₅	= 47 KΩ	¼W	
R ₁₆	= 180 Ω	¼W	
R ₁₇	= 470 Ω	¼W	
R ₁₈	= 15 Ω	2W	
R ₁₉	= 56 KΩ	¼W	
R ₂₀	= 22 KΩ	¼W	

R ₂₁ = 4,7 KΩ	¼W	S ₅ = Switch (DIR - CAL)
R ₂₂ = 2,2 KΩ	¼W	S ₆ = Switch 3A (St.By - ON)
R ₂₃ = 2,2 KΩ	¼W	S ₇ = Switch 3A (AM - SSB)
R ₂₄ = 12 KΩ	¼W	S ₈ = Switch 3A (Pre ON - OFF)
R ₂₅ = 680 Ω	¼W	T ₁ = Transformator IN 110
R ₂₆ = 1,0 KΩ	¼W	OUT 0-200-250-300V 0 - 12 V 0 - 6 V
R ₂₇ = 1,0 KΩ	¼W	T ₂ = T ₃ = Transformers 30 MHz
R ₂₈ = 56 KΩ	¼W	Fan = Fan 110 Vac
R ₂₉ = 1,0 MΩ	¼W	
R ₃₀ = 10 KΩ	¼W	
R ₃₁ = 100 Ω	¼W	
R ₃₂ = 10 KΩ	¼W	
R ₃₃ = 47 Ω	5W	
P ₁ = Potentiometer 4,7 KΩ		
P ₂ = Trimmer 220 KΩ		
P ₃ = Potentiometer 4,7 KΩ		
D ₁ = 1N5400		
D ₂ = D ₃ = D ₄ = D ₅ = BY 255		
D ₆ = D ₇ = D ₈ = D ₉ = BY 255		
D ₁₀ = D ₁₁ = D ₂₀ = D ₂₄ = D ₂₅ = 1N4004		
D ₁₂ = D ₁₃ = D ₁₄ = D ₁₅ = D ₁₆ = 1N4148		
D ₁₇ = D ₁₈ = D ₁₉ = D ₂₁ = D ₂₂ = D ₂₃ = 1N4148		
D ₂₆ = D ₂₇ = D ₂₈ = D ₂₉ = D ₃₀ = 1N4148		
Tr ₁ = Tr ₂ = Tr ₃ = Tr ₆ = Tr ₇ = BC 547		
Tr ₄ = Tr ₅ = BF 245		
Ic ₁ = LM 78L05		
Ic ₂ = PIC 12C508A		
Xtal = 4,0 MHz		
V ₁ = V ₂ = V ₃ = V ₄ = V ₅ = EL 509 - EL 519		
L ₁ = L ₁₈ = RF impedance block		
L ₂ = L ₃ = L ₄ = L ₅ = L ₁₂ = 3 turns wound on resistor, wire φ 0.8 mm		
L ₆ = L ₇ = L ₈ = L ₉ = L ₁₃ = 3 turns φ 6 mm wire φ 0.8 mm		
L ₁₀ = 2 turns φ 15 mm wire φ 2,0 mm		
L ₁₁ = 6 turns φ 15 mm wire φ 2,0 mm		
L ₁₄ = 7 turns φ 8 mm wire φ 0,8 mm		
L ₁₅ = 9 turns φ 8 mm wire φ 0,8 mm		
L ₁₆ = 3 turns φ 34 mm wire φ 3,0 mm		
L ₁₇ = VK 200		
Rl ₁ = Rl ₃ = Relè 12 V 3022		
Rl ₂ = Relè 12 V 6043		
F ₁ = 16 A		
F ₂ = 4 A		
F ₃ = 2 A		
Lamp ₁ = Lamp ₂ = Meters lamp		
Lamp ₃ = 24 V		
S ₁ = Switch (ON - OFF)		
S ₂ = Switch (HI1 - HI2)		
S ₃ = Switch (LOW - HI)		
S ₄ = Protection Switch		