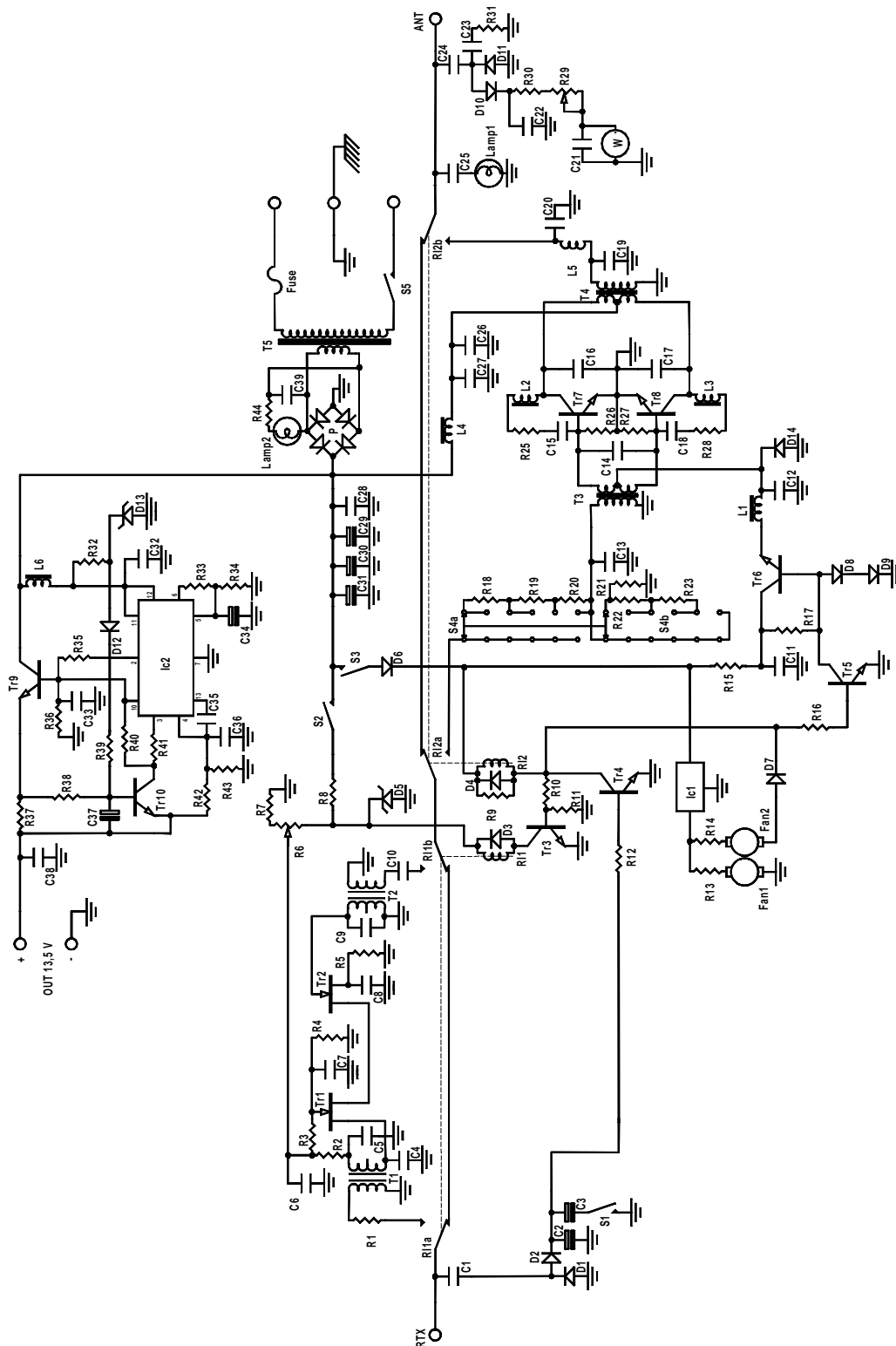
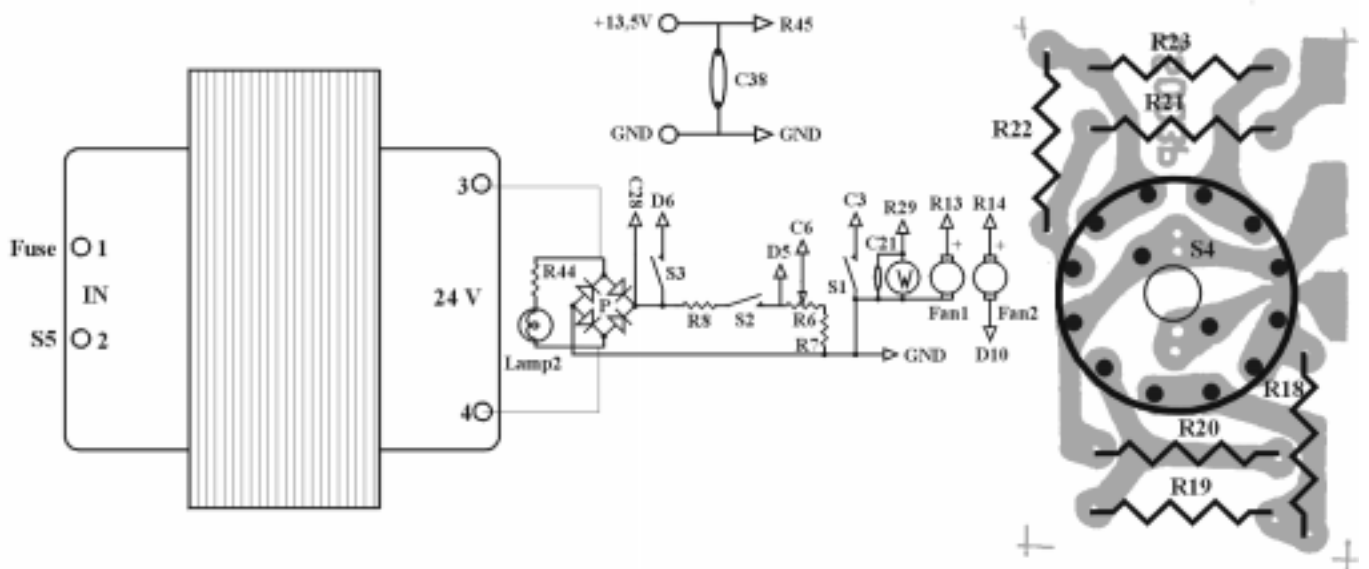
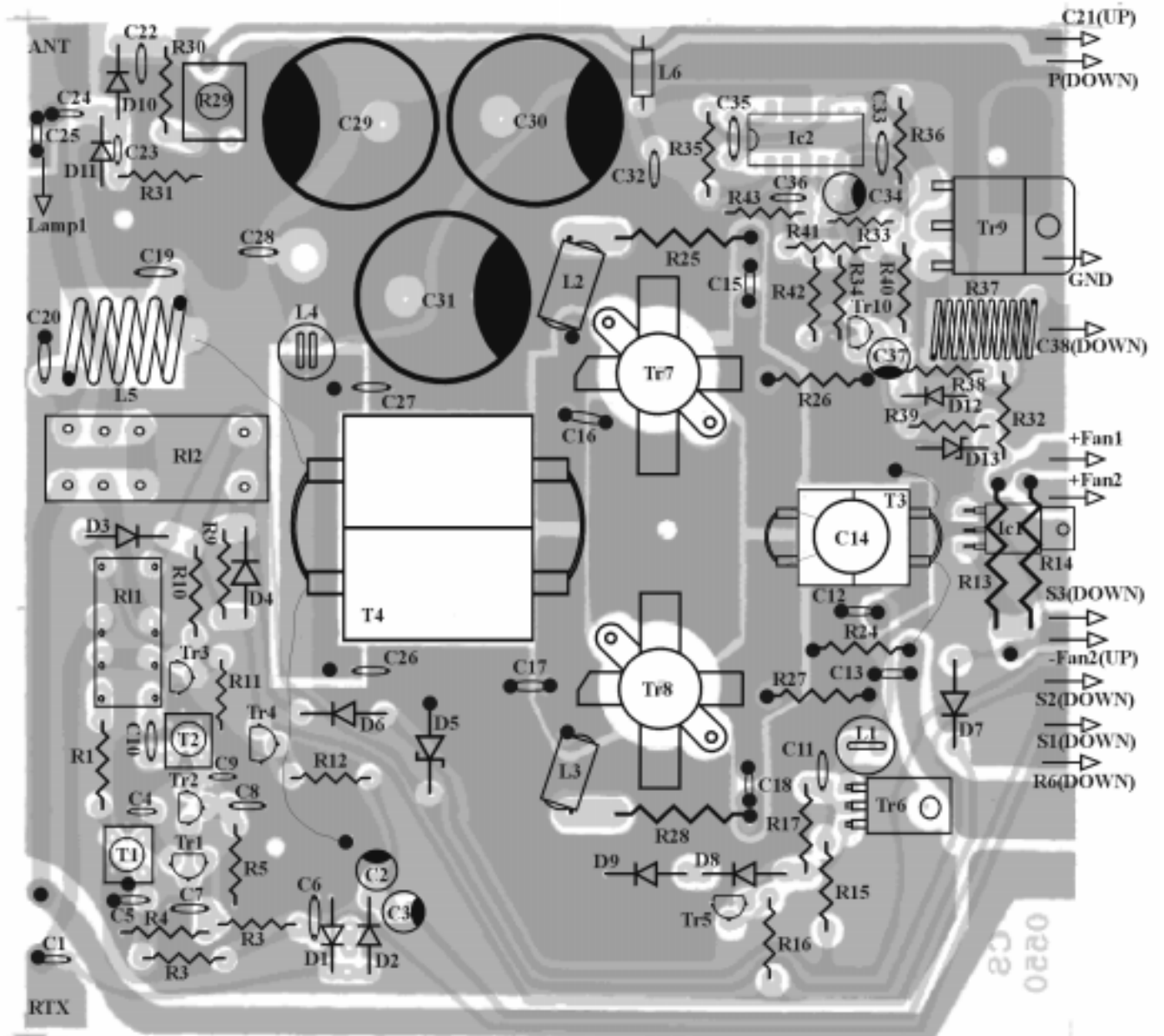


## Mod. 550 linear amplifier

Schematic diagram

Version 2.00





## List of components

C <sub>1</sub>	= 8,2 pF	50 V		R <sub>10</sub>	= 12 K $\Omega$	¼W
C <sub>2</sub>	= 10 $\mu$ F	16 V		R <sub>11</sub>	= 680 $\Omega$	¼W
C <sub>3</sub>	= 33 $\mu$ F	16 V		R <sub>12</sub>	= 2,2 K $\Omega$	¼W
C <sub>4</sub>	= 33 pF	50 V	N750	R <sub>13</sub>	= 100 $\Omega$	2W
C <sub>5</sub>	= 10 nF	50 V		R <sub>14</sub>	= 100 $\Omega$	2W
C <sub>6</sub>	= 100 nF	50 V		R <sub>15</sub>	= 1,0 $\Omega$	½W
C <sub>7</sub>	= 10 nF	50 V		R <sub>16</sub>	= 12 K $\Omega$	¼W
C <sub>8</sub>	= 10 nF	50 V		R <sub>17</sub>	= 3,3 K $\Omega$	½W
C <sub>9</sub>	= 27 pF	50 V	N750	R <sub>18</sub>	= 10 $\Omega$	2W
C <sub>10</sub>	= 10 nF	50 V		R <sub>19</sub>	= 10 $\Omega$	2W
C <sub>11</sub>	= 100 nF	50 V		R <sub>20</sub>	= 10 $\Omega$	2W
C <sub>12</sub>	= 10 nF	50 V		R <sub>21</sub>	= 100 $\Omega$	2W
C <sub>13</sub>	= 100 pF	50 V	N750	R <sub>22</sub>	= 47 $\Omega$	2W
C <sub>14</sub>	= 3 x 470 pF	50 V	N750	R <sub>23</sub>	= 27 $\Omega$	2W
C <sub>15</sub>	= 47 nF	50 V		R <sub>24</sub>	=	
C <sub>16</sub>	= 180 pF	500 V	N750	R <sub>25</sub>	= 120 $\Omega$	2W
C <sub>17</sub>	= 180 pF	500 V	N750	R <sub>26</sub>	= 10 $\Omega$	½W
C <sub>18</sub>	= 47 nF	50 V		R <sub>27</sub>	= 10 $\Omega$	½W
C <sub>19</sub>	= 100 pF	500 V	N750	R <sub>28</sub>	= 120 $\Omega$	2W
C <sub>20</sub>	= 47 pF	500 V	N750	R <sub>29</sub>	= Trimmer	220 K $\Omega$
C <sub>21</sub>	= 100 nF	50 V		R <sub>30</sub>	= 47 K $\Omega$	¼W
C <sub>22</sub>	= 100 nF	50 V		R <sub>31</sub>	= 27 $\Omega$	½W
C <sub>23</sub>	= 33 pF	50 V	N750	R <sub>32</sub>	= 3,3 K $\Omega$	¼W
C <sub>24</sub>	= 2,2 pF	50 V	N750	R <sub>33</sub>	= 1,2 K $\Omega$	¼W
C <sub>25</sub>	= 3,3 pF	50 V	N750	R <sub>34</sub>	= 3,9 K $\Omega$	¼W
C <sub>26</sub>	= 100 nF	50 V		R <sub>35</sub>	= 330 $\Omega$	¼W
C <sub>27</sub>	= 100 nF	50 V		R <sub>36</sub>	= 2,2 K $\Omega$	¼W
C <sub>28</sub>	= 100 nF	50 V		R <sub>37</sub>	= 9 turns $\phi$ 6 mm resistive wire	
C <sub>29</sub>	= 4700 $\mu$ F	50 V		R <sub>38</sub>	= 470 $\Omega$	¼W
C <sub>30</sub>	= 4700 $\mu$ F	50 V		R <sub>39</sub>	= 3,3 K $\Omega$	¼W
C <sub>31</sub>	= 2200 $\mu$ F	50 V		R <sub>40</sub>	= 330 $\Omega$	¼W
C <sub>32</sub>	= 100 nF	50 V		R <sub>41</sub>	= 330 $\Omega$	¼W
C <sub>33</sub>	= 100 nF	50 V		R <sub>42</sub>	= 82 K $\Omega$	¼W
C <sub>34</sub>	= 2,2 $\mu$ F	16 V		R <sub>43</sub>	= 56 K $\Omega$	¼W
C <sub>35</sub>	= 470 pF	50 V		R <sub>44</sub>	= 330 $\Omega$	2W
C <sub>36</sub>	= 150 pF	50 V		D <sub>1</sub> = D <sub>2</sub> = D <sub>10</sub> = D <sub>11</sub> = D <sub>12</sub>	= 1N4148	
C <sub>37</sub>	= 2,2 $\mu$ F	16 V		D <sub>3</sub> = D <sub>4</sub> = D <sub>6</sub> = D <sub>7</sub> = D <sub>8</sub> = D <sub>9</sub>	= 1N4004	
C <sub>38</sub>	= 100 nF	50 V		D <sub>5</sub>	= Zener 12 V 1W	
C <sub>39</sub>	= 470 nF	63 V ~		D <sub>13</sub>	= Zener 7,5 V ½W	
R <sub>1</sub>	= 18 $\Omega$	½W		D <sub>14</sub>	= 1N5400	
R <sub>2</sub>	= 470 $\Omega$	¼W		P	= Bridge 60 V 25 A	
R <sub>3</sub>	= 56 K $\Omega$	¼W		Tr <sub>1</sub> = Tr <sub>2</sub>	= BF 245	
R <sub>4</sub>	= 22 K $\Omega$	¼W		Tr <sub>3</sub> = Tr <sub>5</sub> = Tr <sub>10</sub>	= BC 547	
R <sub>5</sub>	= 180 $\Omega$	¼W		Tr <sub>4</sub>	= BC 337	
R <sub>6</sub>	= Trimmer	4,7 K $\Omega$		Tr <sub>6</sub>	= BD 179	
R <sub>7</sub>	= 4,7 K $\Omega$	¼W		Tr <sub>7</sub> = Tr <sub>8</sub>	= MRF422	
R <sub>8</sub>	= 330 $\Omega$	2W		Tr <sub>9</sub>	= TIP 142	
R <sub>9</sub>	= 1,2 K $\Omega$	½W		Ic <sub>1</sub>	= LM 7824	

Ic<sub>2</sub> = LM 723  
L<sub>1</sub> = VK 200 1 wire  
L<sub>2</sub> = L<sub>3</sub> = VK 200 normal  
L<sub>4</sub> = VK 200 2 wires  
L<sub>5</sub> = 6 turns  $\phi$  15 mm wire  $\phi$  1,5 mm  
Rl<sub>1</sub> = Relè 12 V 3022  
Rl<sub>2</sub> = Relè 24 V 4052  
Fuse = 4 A  
Lamp<sub>1</sub> = 24 V  
Lamp<sub>2</sub> = Meter lamp  
S<sub>1</sub> = Switch 3A (AM - SSB)  
S<sub>2</sub> = Switch 3A (Pre ON)  
S<sub>3</sub> = Switch 3A (St. By)  
S<sub>4</sub> = Switch 6 positions  
S<sub>5</sub> = Switch 3A (ON - OFF)  
T<sub>1</sub> = T<sub>2</sub> = Transformers 30 MHz  
T<sub>3</sub> = Input transformer  
T<sub>4</sub> = Output transformer  
T<sub>5</sub> = Transformer IN 220 OUT 24 V  
Fan<sub>1</sub> = Fan<sub>2</sub> = Fans 12 V