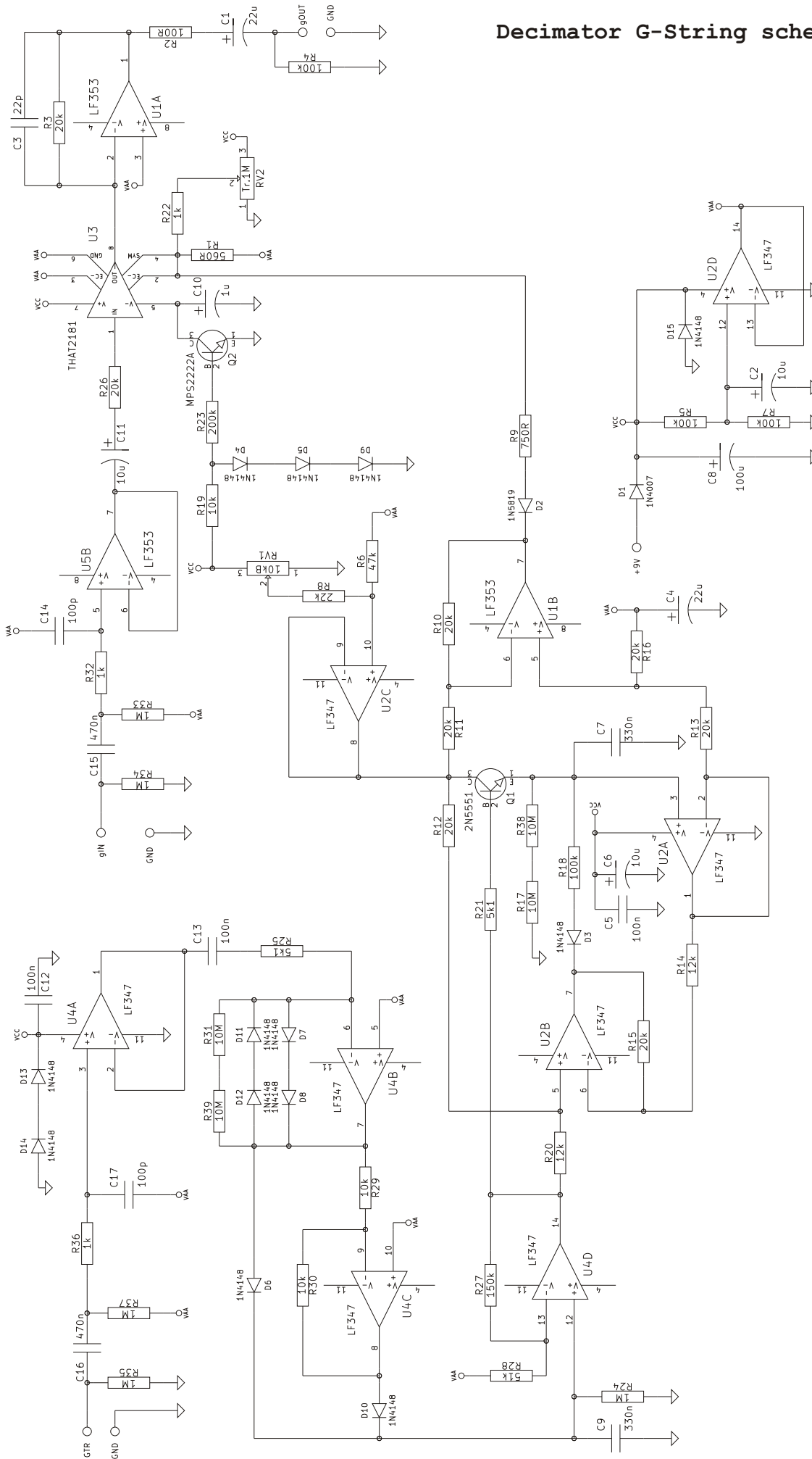
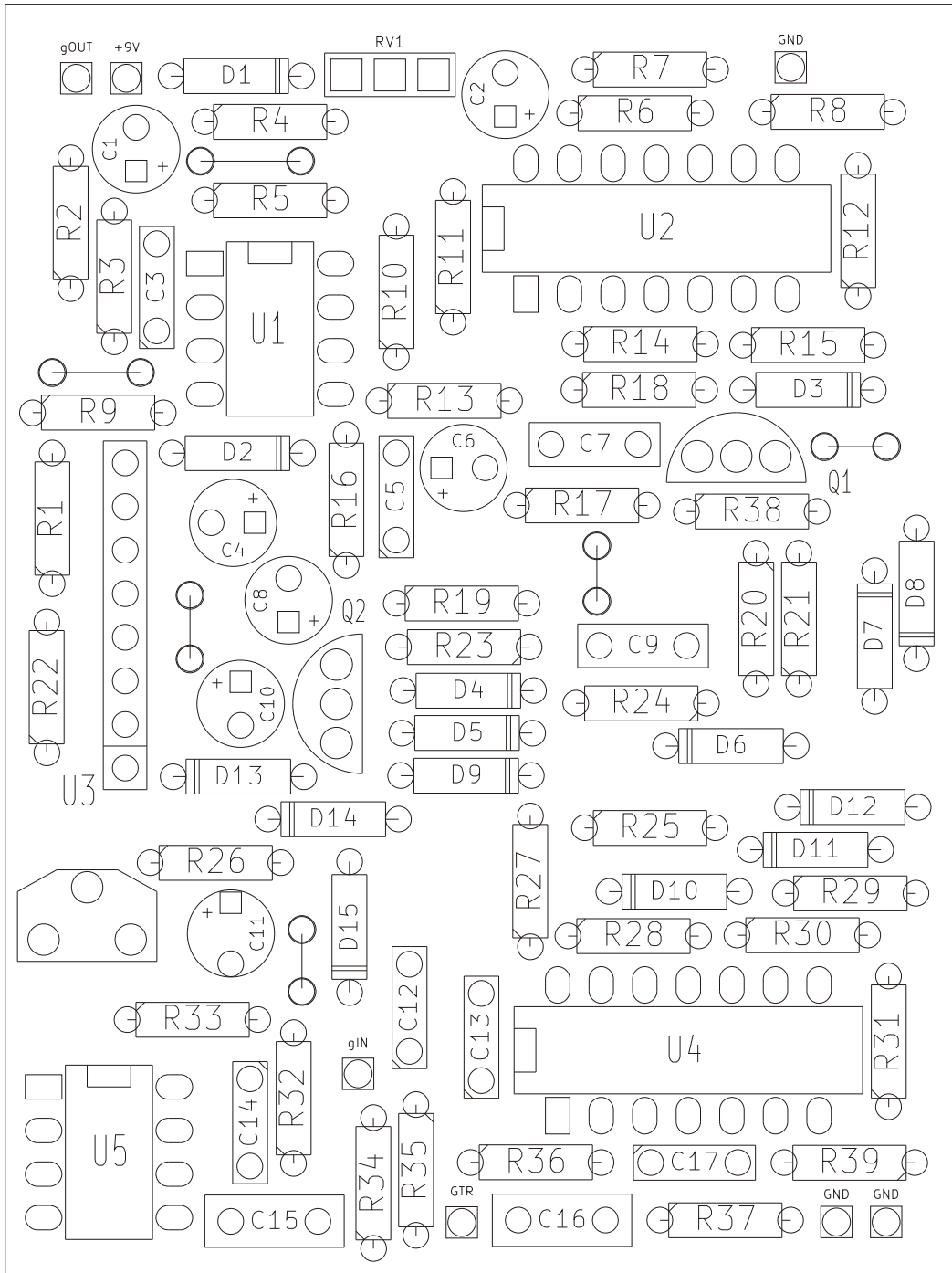


Decimator G-String schematic:



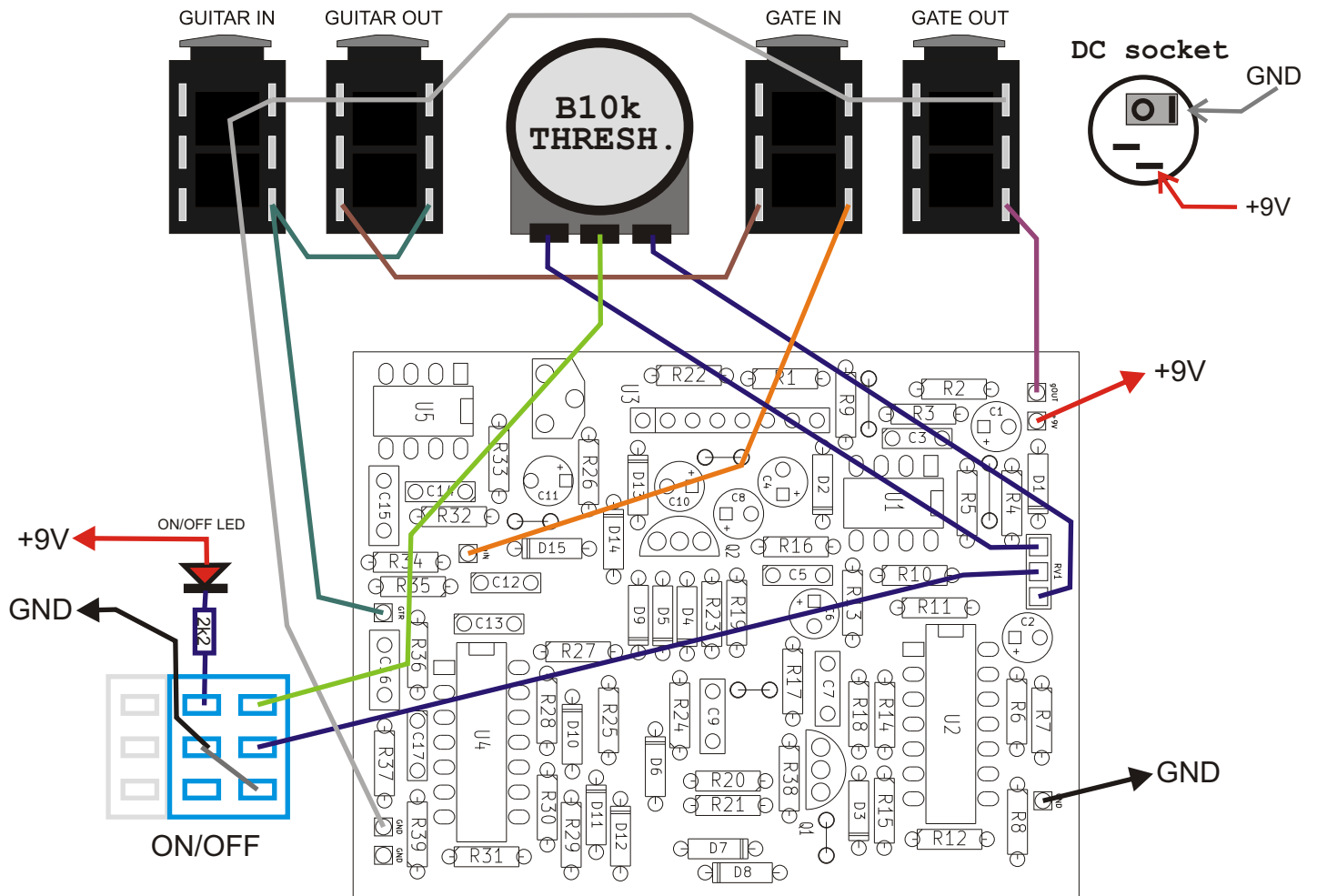
PCB parts placement diagram:



R1	560R
R2	100R
R3	20k
R4	100k
R5	100k
R6	47k
R7	100k
R8	22k
R9	750R
R10	20k
R11	20k
R12	20k
R13	20k
R14	12k
R15	20k
R16	20k
R17	10M
R18	100k
R19	10k
R20	12k
R21	5k1
R22	1k
R23	200k
R24	1M
R25	5k1
R26	20k
R27	150k
R28	51k
R29	10k
R30	10k
R31	10M
R32	1k
R33	1M
R34	1M
R35	1M
R36	1k
R37	1M
R38	10M
R39	10M

C1	22u	RV1	B10k	D1	1N400X
C2	10u	RV2	Tr. 1M	D2	1N5819
C3	22p			D3	1N4148
C4	22u	U1	LF353	D4	1N4148
C5	100n	U2	LF347	D5	1N4148
C6	10u	U3	THAT2181C	D6	1N4148
C7	330n	U4	LF347	D7	1N4148
C8	100u	U5	LF353	D8	1N4148
C9	330n			D9	1N4148
C10	1u	Q1	2N5551	D10	1N4148
C11	10u	Q2	2N2222A	D11	1N4148
C12	100n			D12	1N4148
C13	100n			D13	1N4148
C14	100p			D14	1N4148
C15	470n			D15	1N4148
C16	470n				
C17	100p				

Wiring (bottom view):



Set volume level with trimmer.
Use metal enclosure connected to ground.
Power supply: 9V DC

Bill of materials:

Resistors:

100R	1pcs.	"R2"
560R	1pcs.	"R1"
750R	1pcs.	"R9"
1k	3pcs.	"R22 R32 R36"
2k2	1pcs.	"LED"
5k1	2pcs.	"R21 R25"
10k	3pcs.	"R19 R29 R30"
12k	2pcs.	"R14 R20"
20k	8pcs.	"R3 R10 R11 R12 R13 R15 R16 R26"
22k	1pcs.	"R8"
47k	1pcs.	"R6"
51k	1pcs.	"R28"
100k	4pcs.	"R4 R5 R7 R18"
150k	1pcs.	"R27"
200k	1pcs.	"R23"
1M	5pcs.	"R24 R33 R34 R35 R37"
10M	4pcs.	"R17 R31 R38 R39"

Potentiometers:

B10k	1pcs.	"Thershold"
1M Trimpot	1pcs.	

Semiconductors:

1N4007	1pcs.	"D1"
1N5819	1pcs.	"D2"
1N4148	13pcs.	"D3 D4 D5 D6 D7 D8 D9 D10 D11 D12 D13 D14 D15"
2N5551	1pcs.	"Q1"
2N2222A	1pcs.	"Q2"
LF353	2pcs.	"U1 U5"
LF347	2pcs.	"U2 U4"
THAT2181C	1pcs.	"U3"
LED	1pcs.	

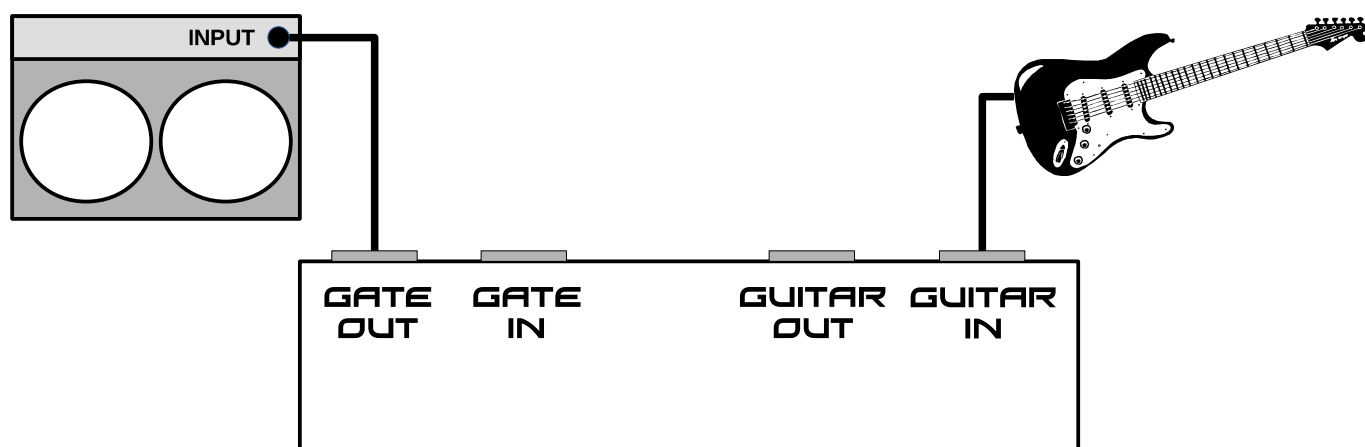
Electrolytic capacitors:

1u	1pcs.	"C10"
10u	3pcs.	"C2 C6 C11"
22u	2pcs.	"C1 C4"
100u	1pcs.	"C8"

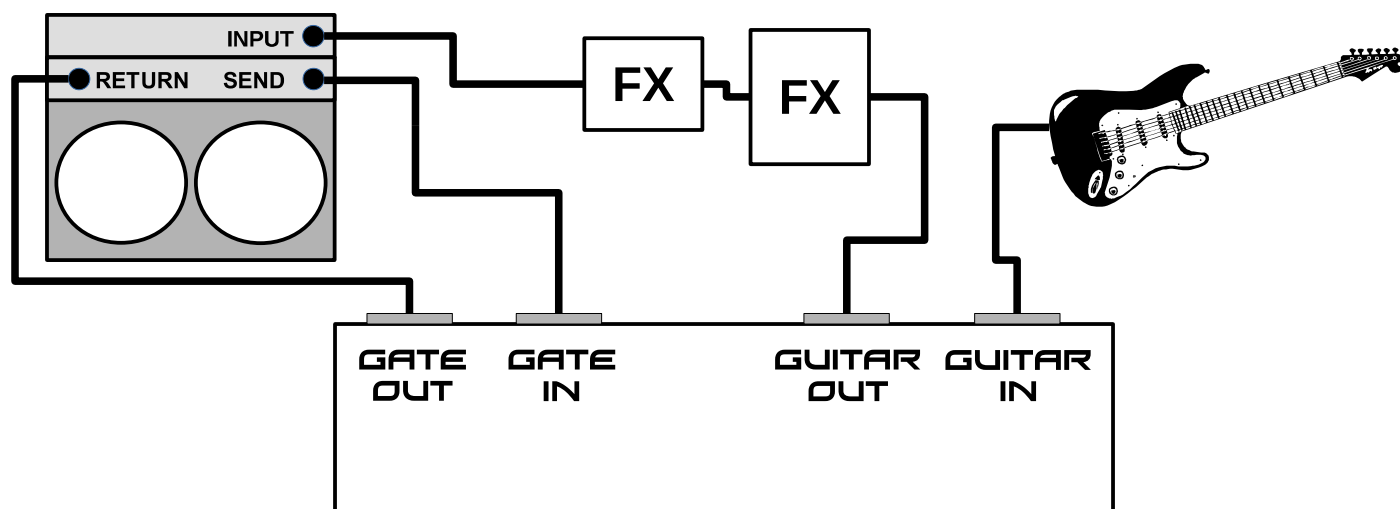
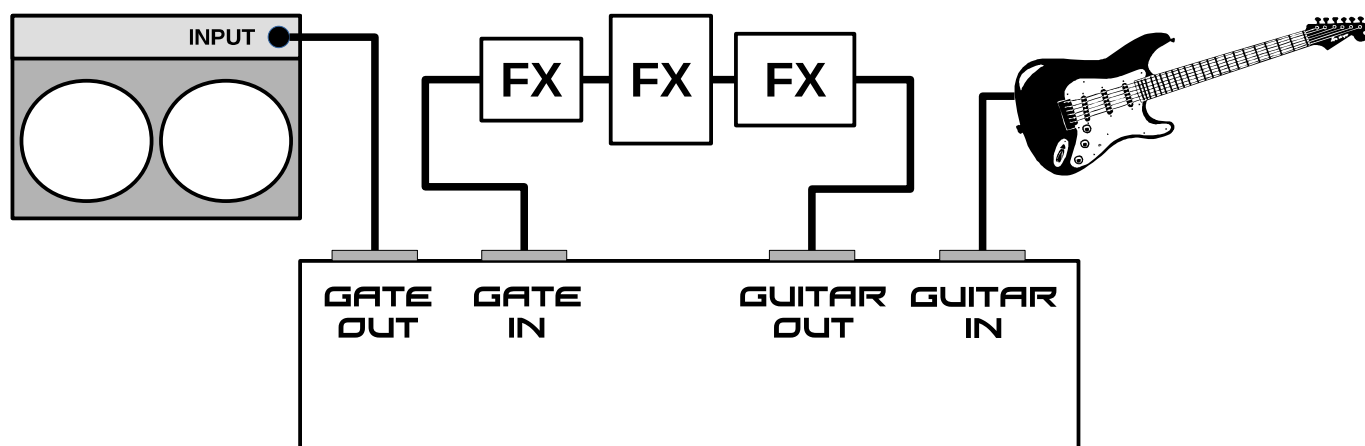
Other:

Knob	1pcs.
JACK socket	4pcs.
DC socket 5.5/2.1	1pcs.
Footswitch DPDT/3PDT	1pcs.
Wires	1pcs.

2 wires connections:



4 wires connections:



Resistor color code:



$$390 \times 10\Omega = 3,9k\Omega$$

Color	Band 1	Band 2	Band 3	Multiplier	Tolerance
Black	0	0	0	1 Ω	
Brown	1	1	1	10 Ω	1%
Red	2	2	2	100 Ω	2%
Orange	3	3	3	1k Ω	
Yellow	4	4	4	10 k Ω	
Green	5	5	5	100 k Ω	0,5%
Blue	6	6	6	1 M Ω	0,25%
Purple	7	7	7	10 M Ω	0,1%
Gray	8	8	8	100 M Ω	0,05%
White	9	9	9	1 G Ω	
Gold				0,1 Ω	5%
Silver				0,01 Ω	10%

Capacitors markings:

$$\begin{aligned}
 471 &= 47 \times 10^1 \text{ pF} = 470 \text{ pF} \\
 472 &= 47 \times 10^2 \text{ pF} = 4700 \text{ pF} = 4,7 \text{ nF} \\
 473 &= 47 \times 10^3 \text{ pF} = 47000 \text{ pF} = 47 \text{ nF} \\
 474 &= 47 \times 10^4 \text{ pF} = 470000 \text{ pF} = 470 \text{ nF}
 \end{aligned}$$

$$\begin{aligned}
 100 \text{ pF} &= 100 \text{ p} = 100 = 101 \\
 220 \text{ pF} &= 220 \text{ p} = 220 = 221 \\
 4,7 \text{ nF} &= 4 \text{ n}7 = 0.0047 = 472 \\
 10 \text{ nF} &= 10 \text{ n} = 0.01 = 103 \\
 100 \text{ nF} &= 100 \text{ n} = 0.1 = 104 \\
 220 \text{ nF} &= 220 \text{ n} = 0.22 = 224 \\
 470 \text{ nF} &= 470 \text{ n} = 0.47 = 474 \\
 1000 \text{ nF} &= 1 \mu\text{F} = 1 \mu = 105
 \end{aligned}$$