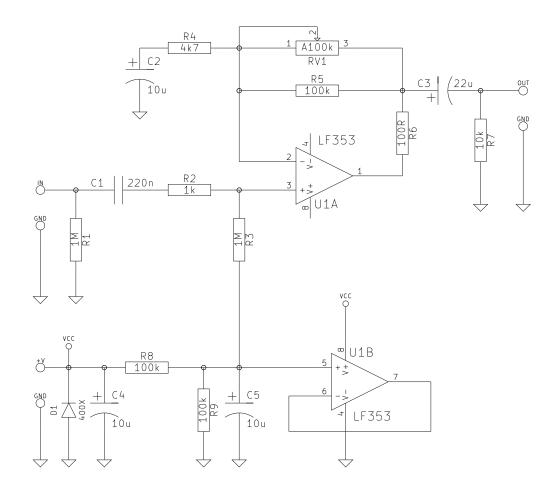
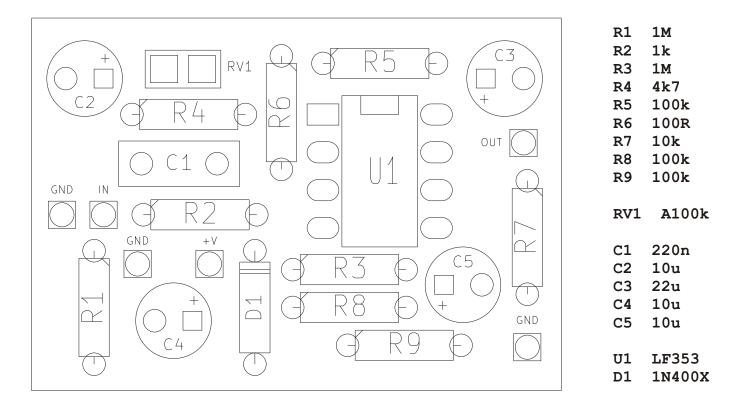
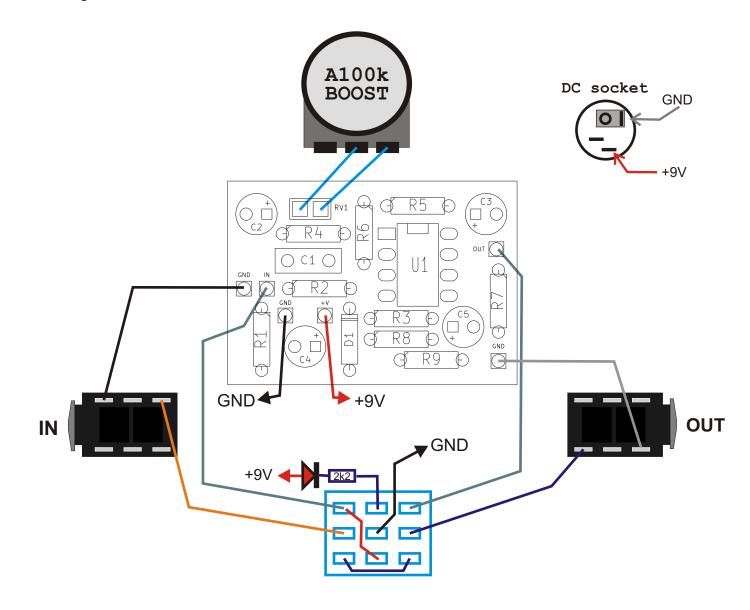
MC401® schematic: 20.02.2019



PCB parts placement diagram:



Wiring (bottom view):



Use metal enclosure connected to ground. Power supply: 9V DC

Bill of materials:

Resis	tors:	Capacitors:
100R	1pcs. "R6"	220n 1pcs. "C1"
1k	1pcs. "R2"	
2k2	1pcs. "LED"	Electrolytic capacitors:
4k7	1pcs. "R4"	10u 3pcs. "C2 C4 C5"
10k	1pcs. "R7"	22u 1pcs. "C3"
100k	3pcs. "R5 R8 R9	•
1M	2pcs. "R1 R3"	Semiconductor:
		1N400X 1pcs. "D1"
Poten	tiometers:	LF353 1pcs. "U1"
A100k	1pcs.	LED 1pcs.

Other:

Footswitch 3PDT 1pcs.
Knobs 1pcs.
JACK socket 2pcs.
DC socket 5.5/2.1 1pcs.

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 kΩ	
Green	5	5	5	100 kΩ	0,5%
Blue	6	6	6	1 ΜΩ	0,25%
Purple	7	7	7	10 MΩ	0,1%
Gray	8	8	8	100 ΜΩ	0,05%
White	9	9	9	1 GΩ	
Gold				0,1 Ω	5%
Silver				0,01 Ω	10%

Capacitors markings:

```
471 = 47 \times 10^{1} pF = 470pF
 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}
 100pF =
               100p
                               100
                                      = 101
 220pF = 220p =
                               220
                                      = 221
 4,7nF = 4n7 = 0.0047

10nF = 10n = 0.01
                                      = 472
                                      = 103
 100nF = 100n = 0.1
220nF = 220n = 0.22
                                    = 104
= 224
 470nF = 470n = 0.47 = 474
1000nF = 1uF = 1u
                                      =
                                          105
```