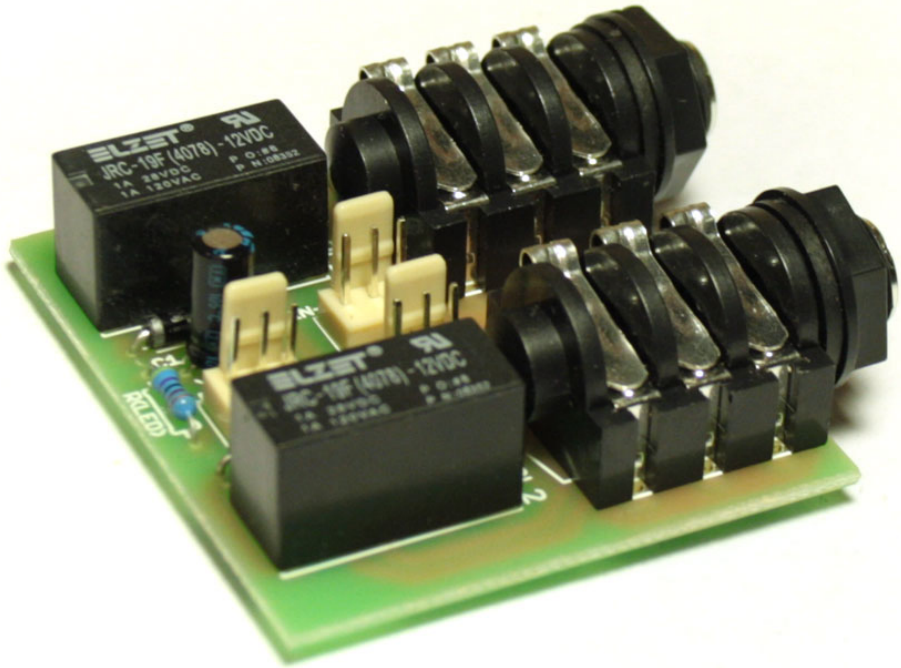
Relay BYPASS PCB or Kit manual
(for compressors, EQ etc)

Warning

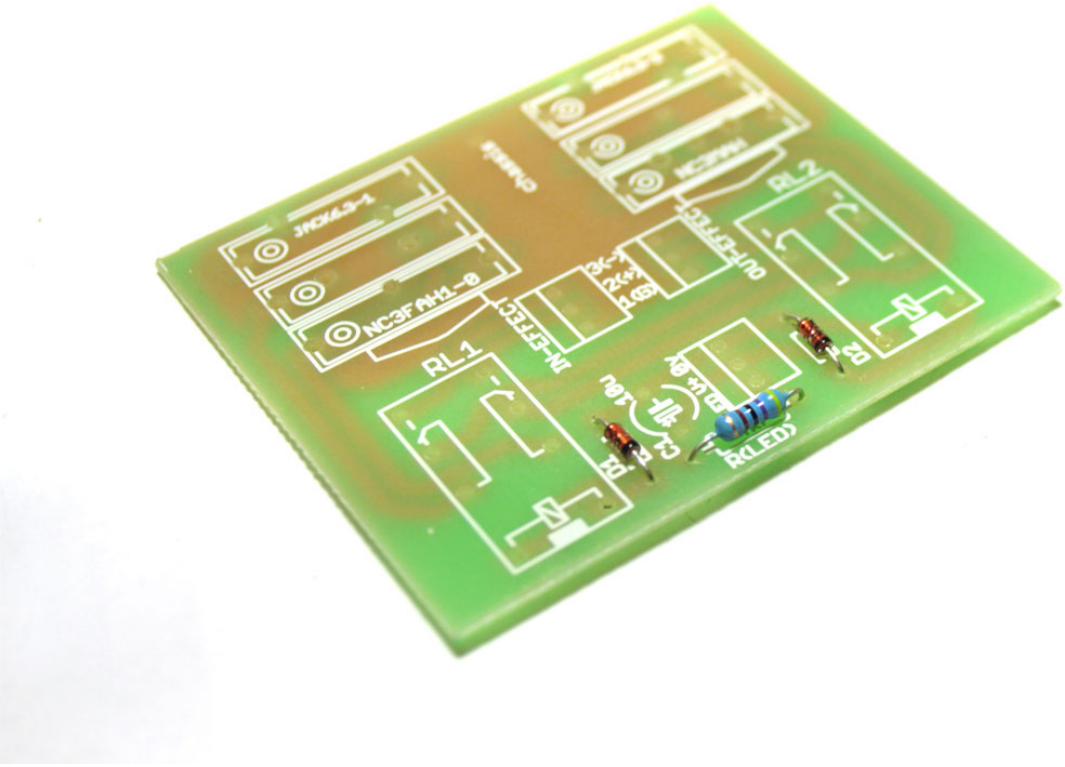
This document is distributed for educational purposes only. This equipment operates at potentially lethal voltages. Only trained, qualified personnel should operate, maintain, or service it.



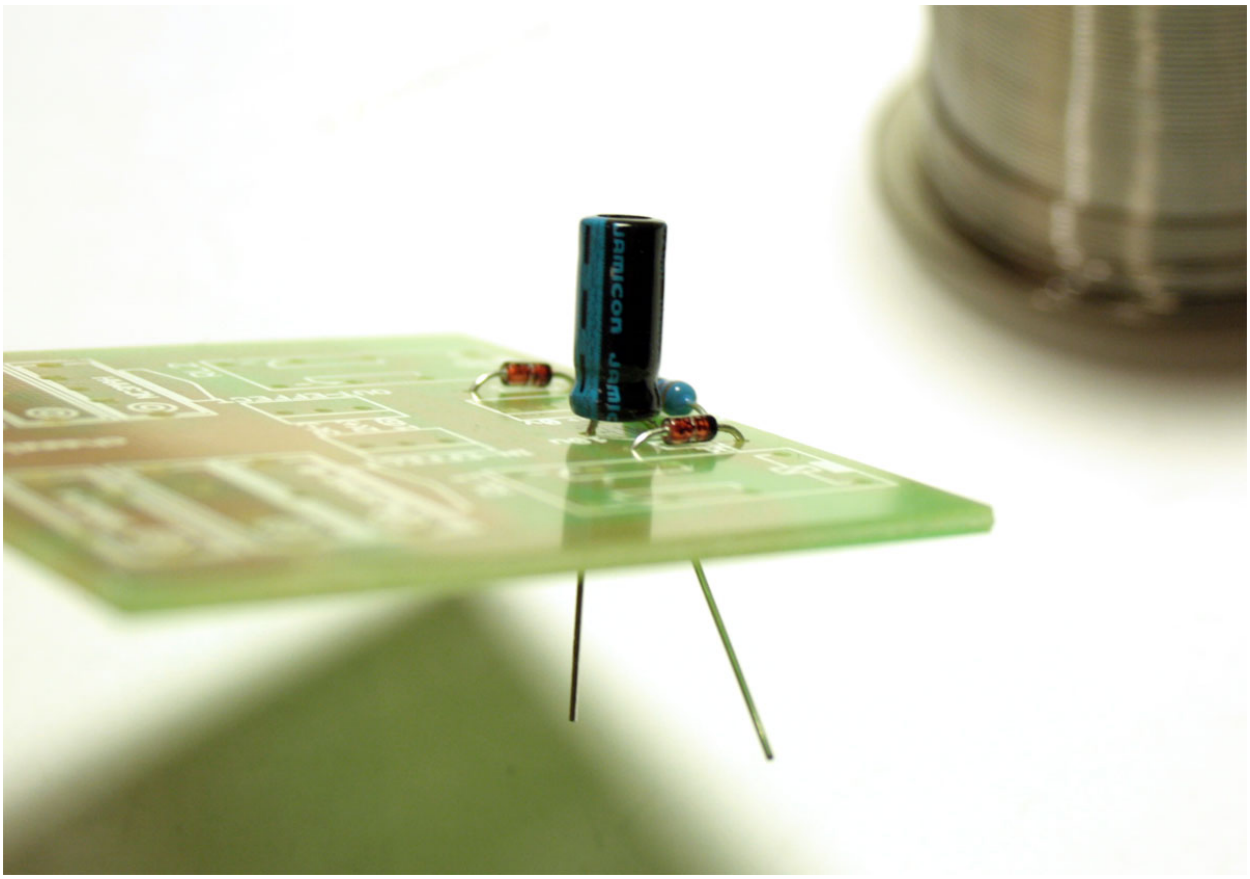
The kit includes:

PCB
Relays
Resistor
Sockets
Diodes

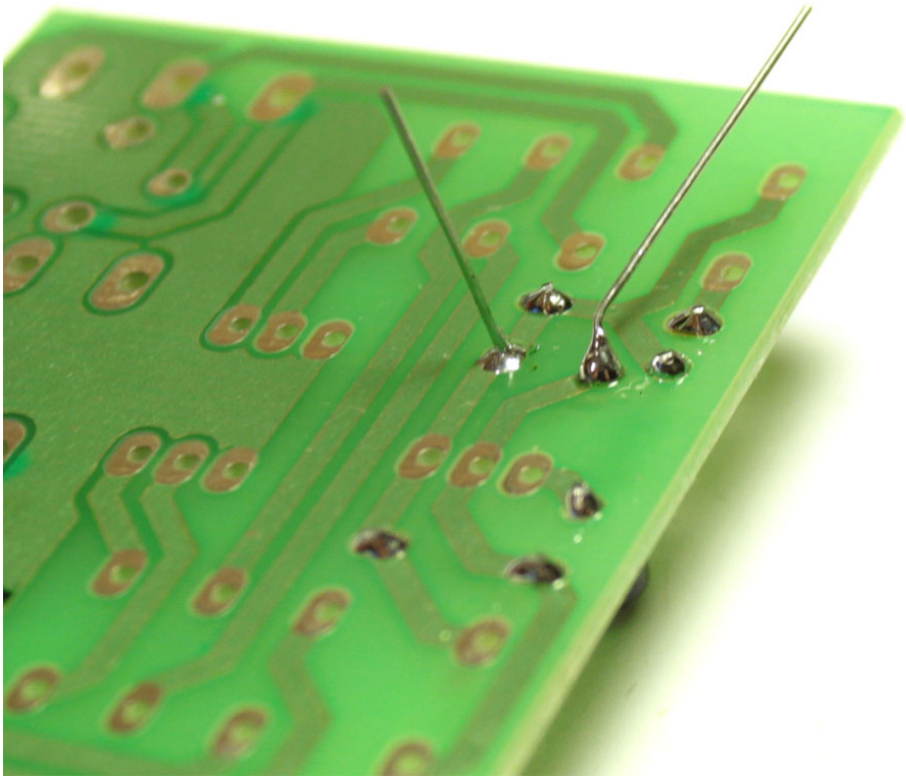
Solder diodes (1n4004, 1n4148 etc) and 4k7 resistor (use it if you need additional led indication).



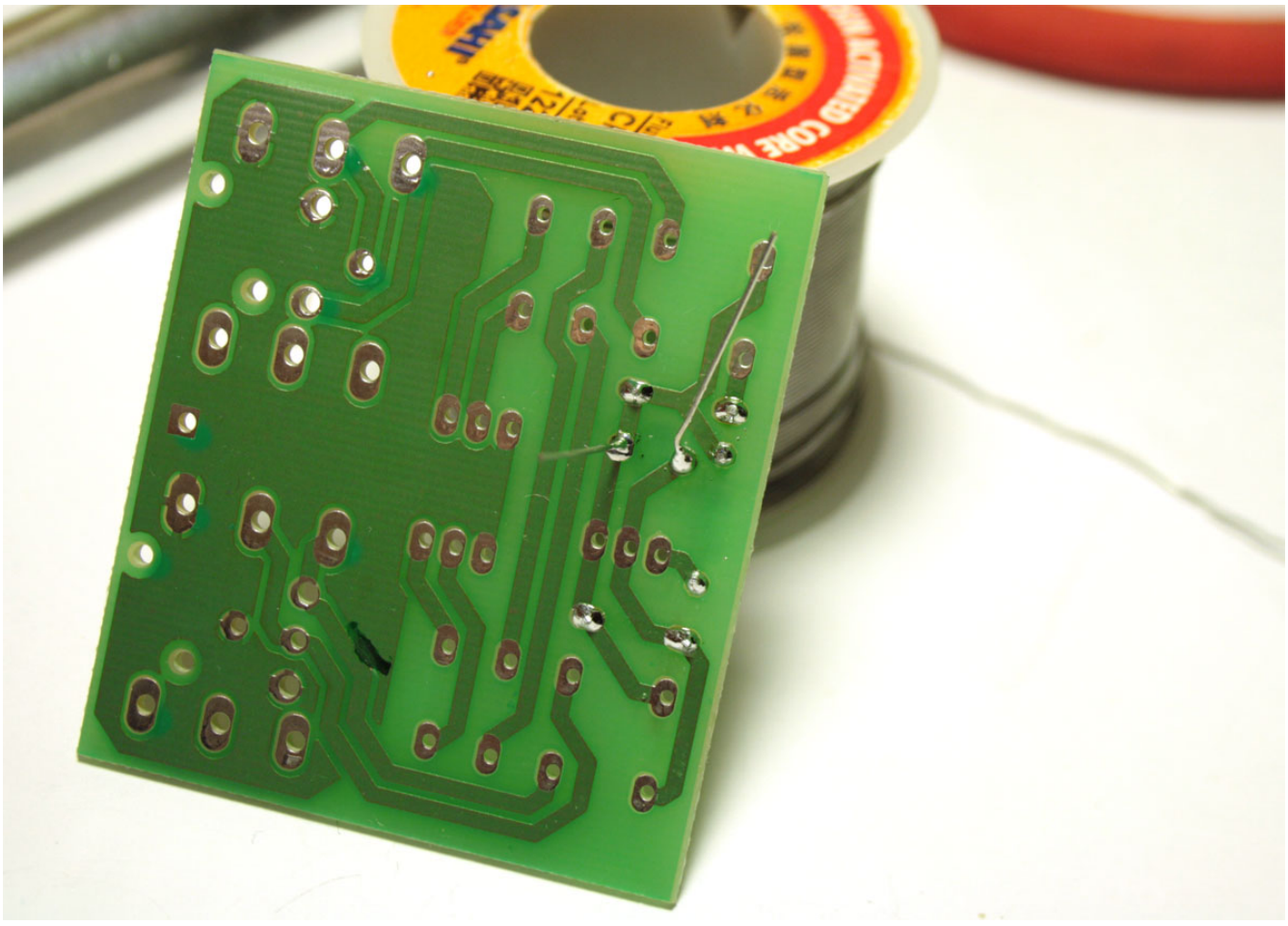
10u capacitor. Please note the capacitors are oriented on the board. Positive pole is indicated on the body and has corresponding sign.

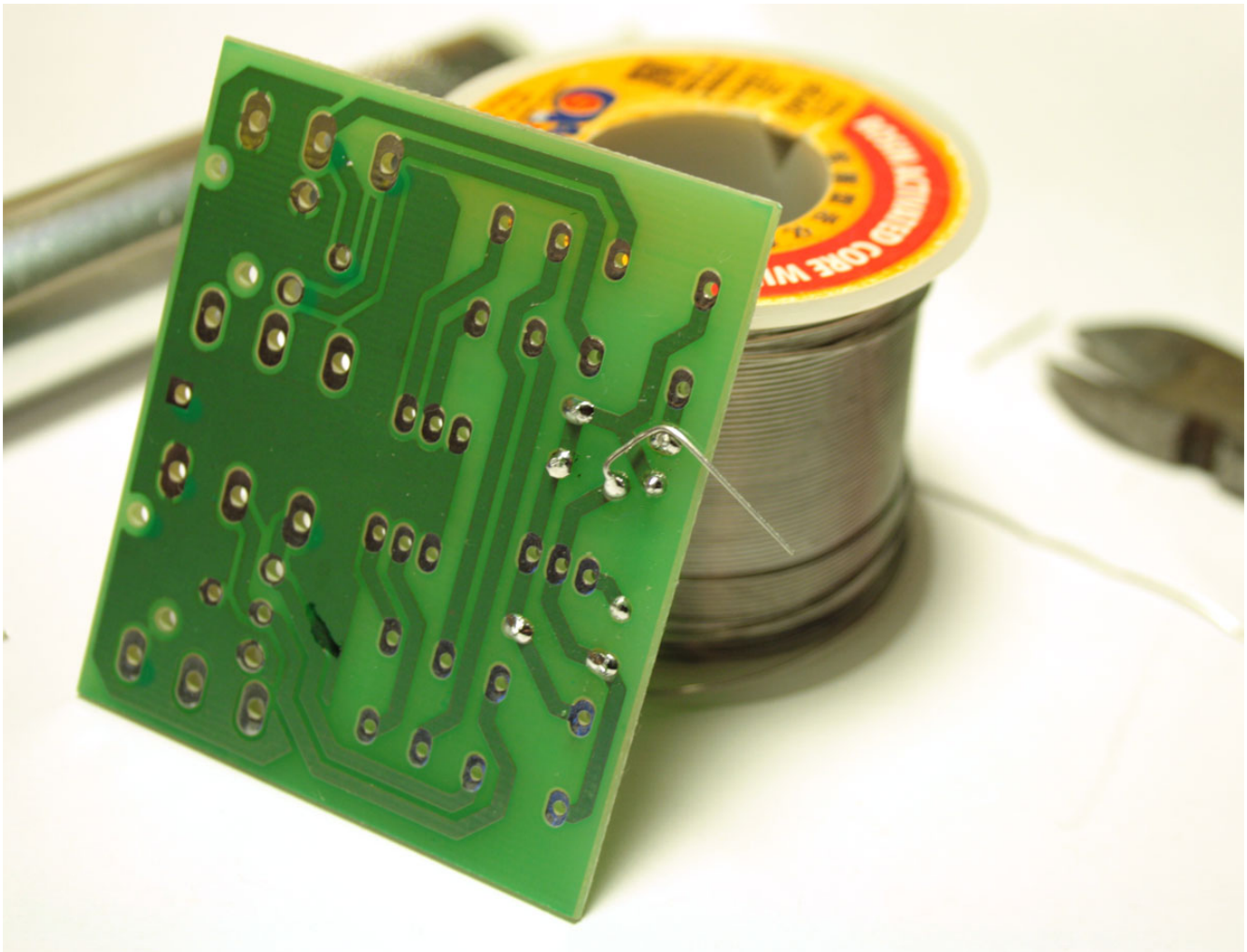


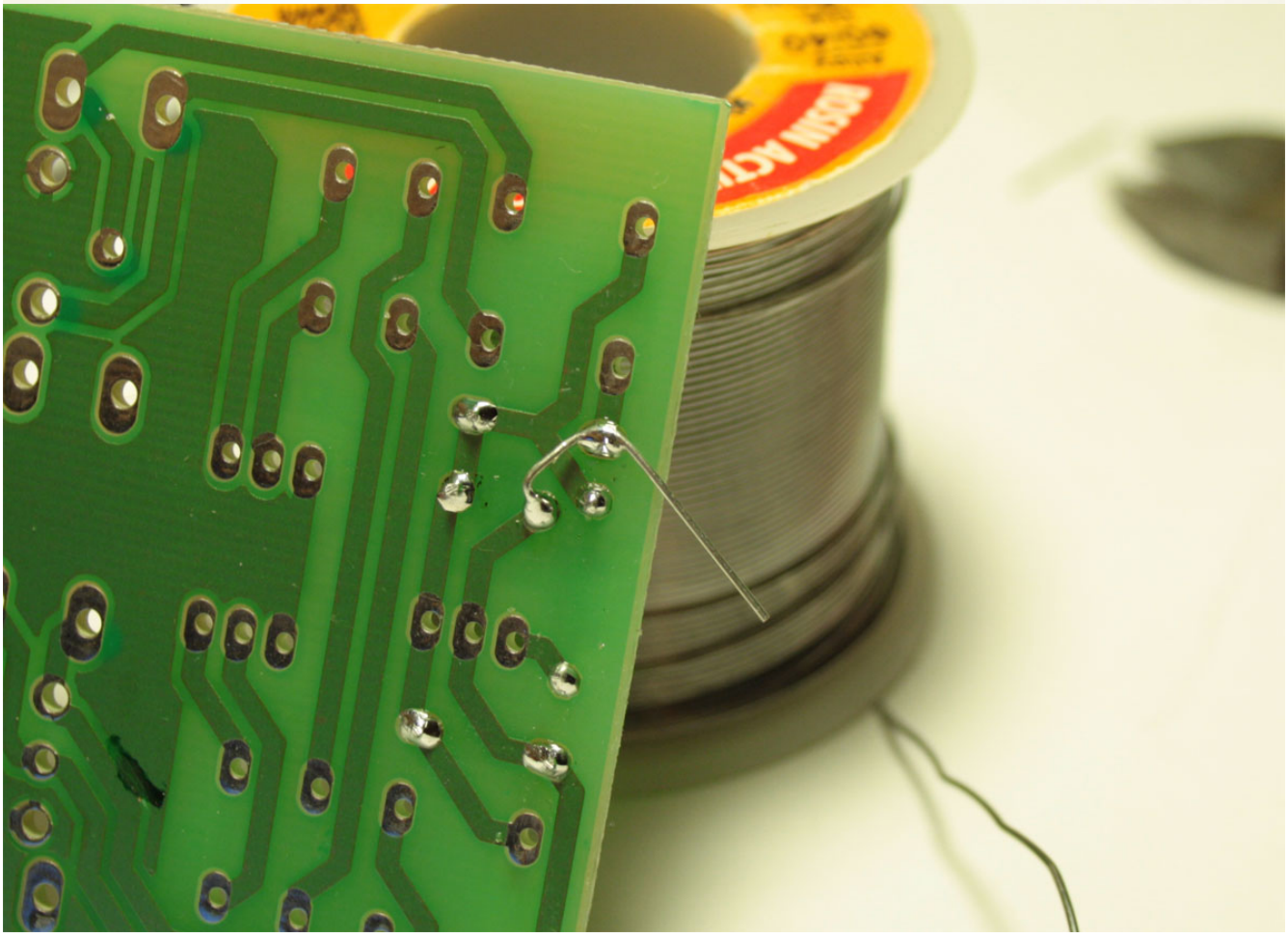
Solder. Don’t cut!



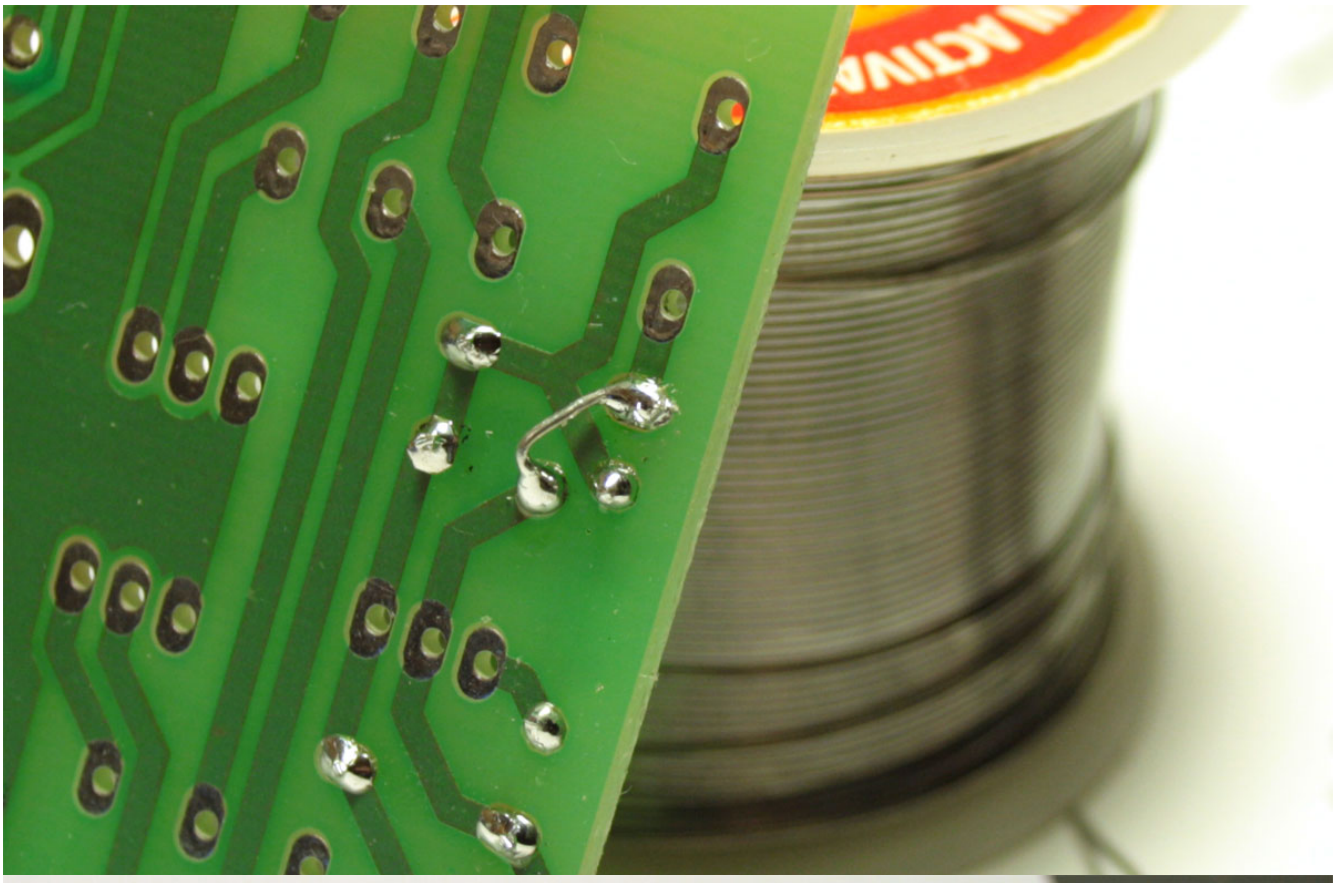
Bend the positive terminal of the capacitor to the soldering point of the diode D1 (see. Photo)

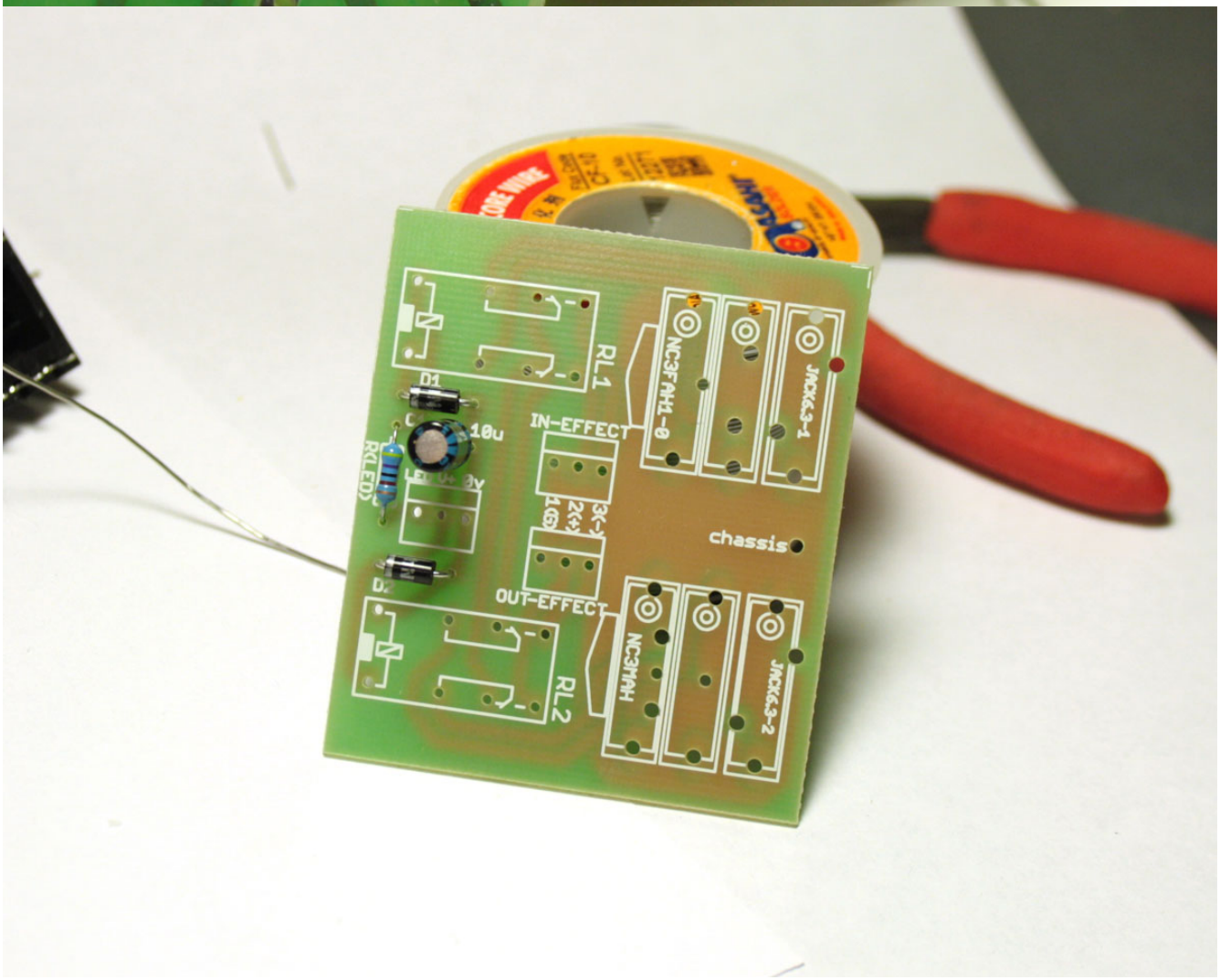




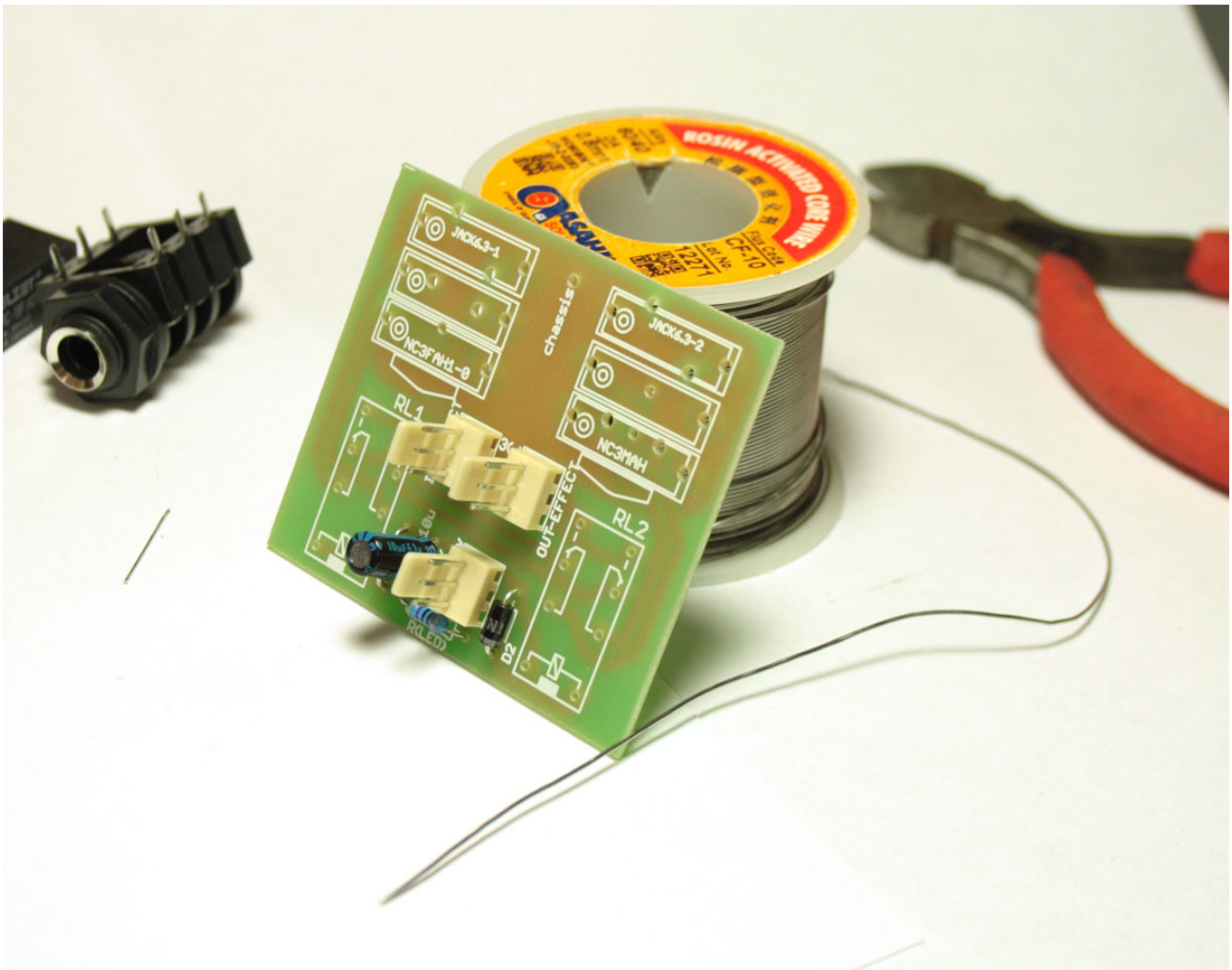


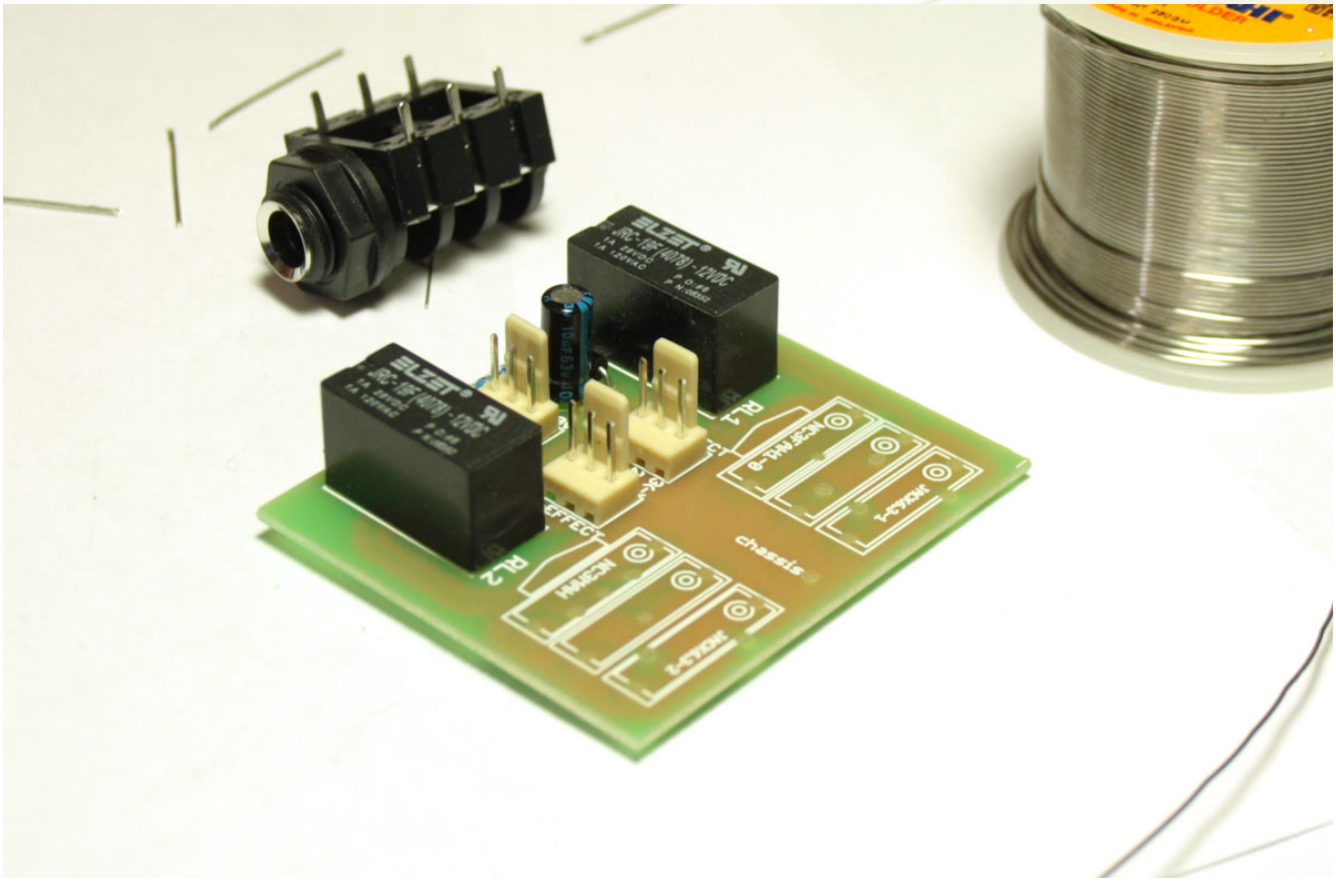
Solder and cut off the exess.

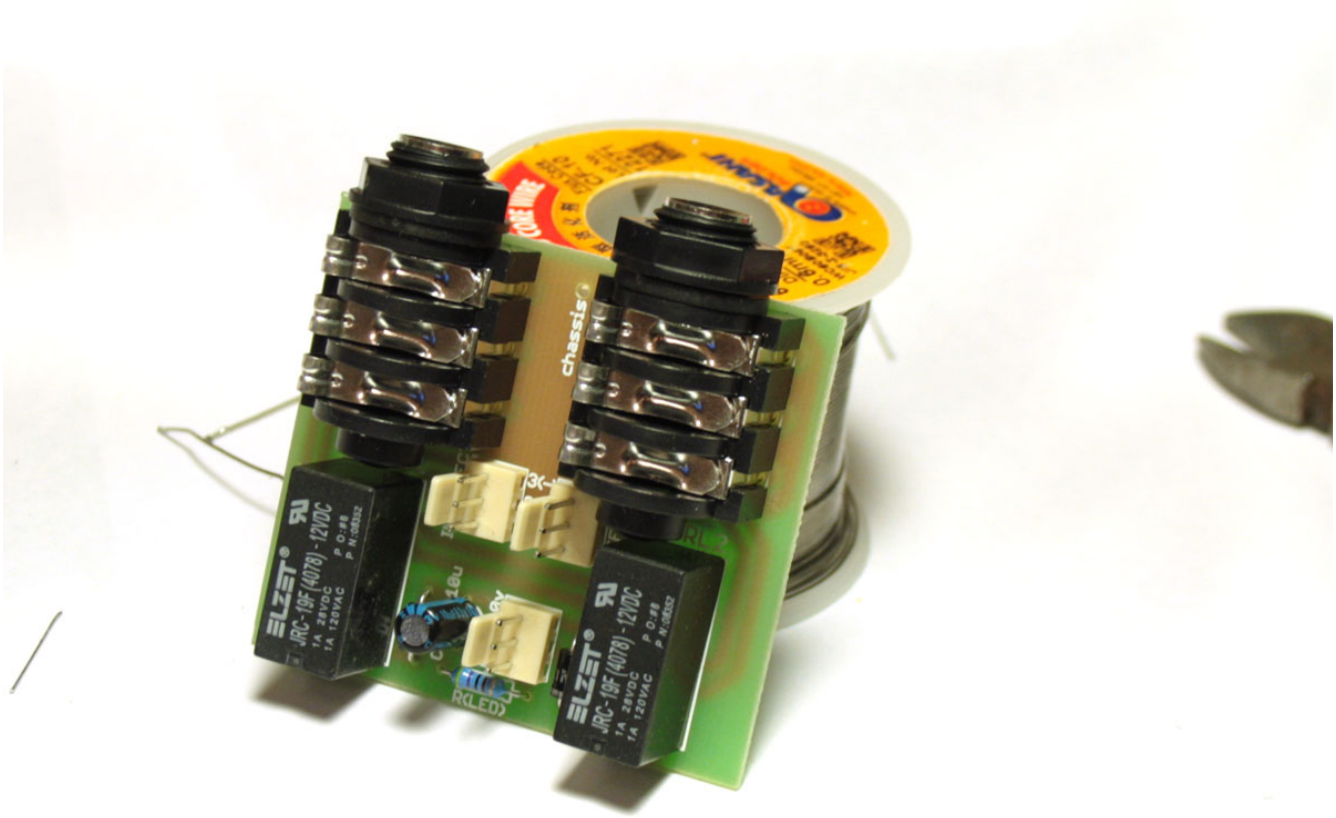




Now solder sockets, relays, and, to your choice - TRS or XLR.

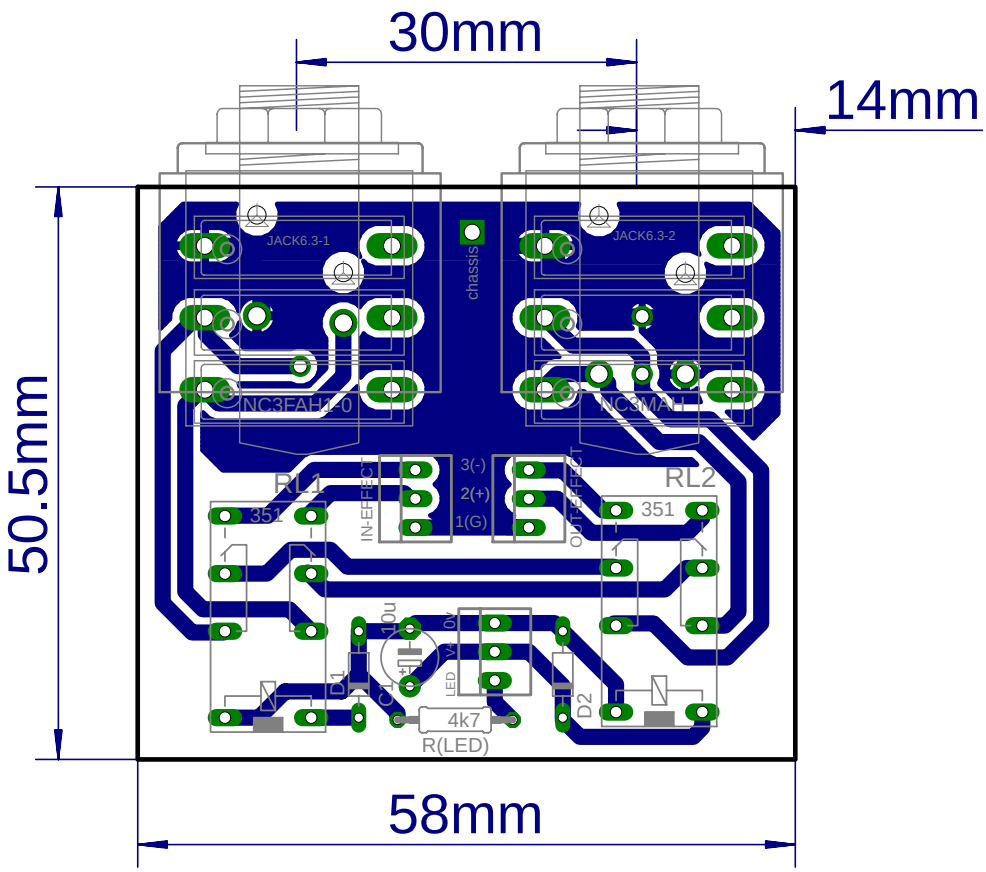




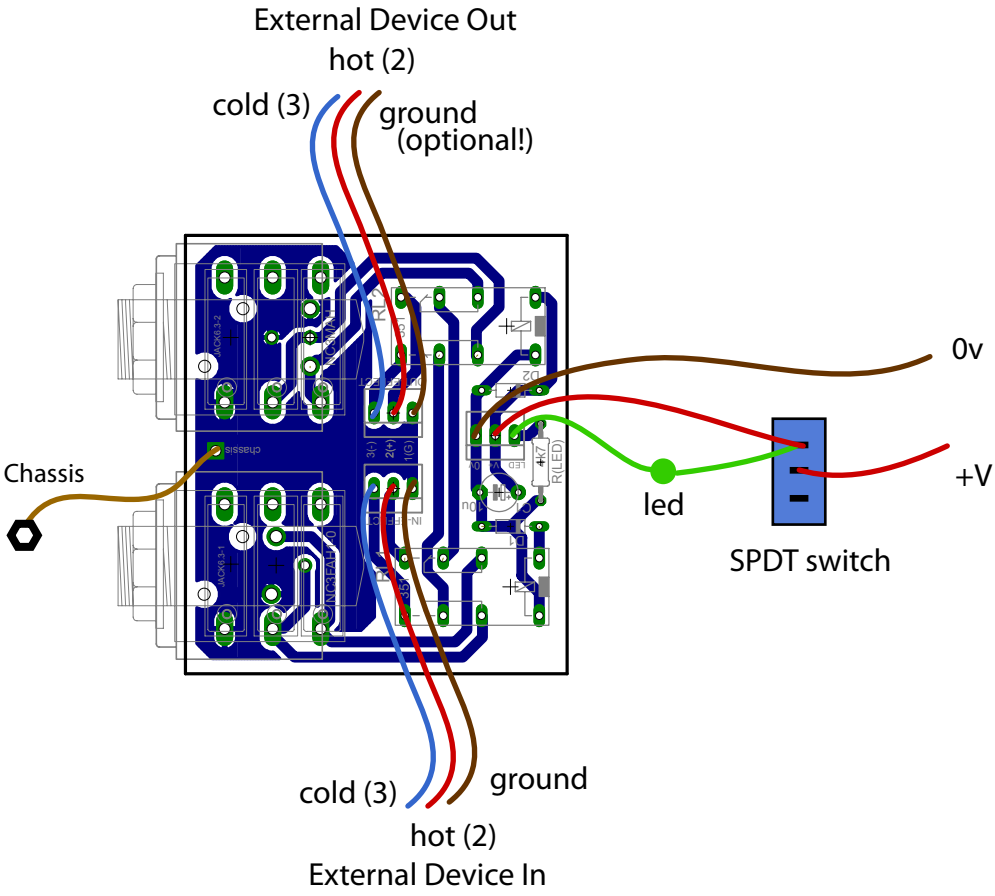


After we finished the installation, it is necessary to connect the power (to power the circuit requires power supply your relay rated (usually DC voltage +12v)), connect IN and OUD of your compressor or EQ ((like GSSL, Pultec etc). When the power is on, relay bypass will connect IN and OUT TRS (XLR) sockets with IN-Effect and OUT-effect on PCB. If you added led, it shows the gear is ON.
When the power is off, relays connect IN and OUT TRS(XLR) sockets. Your compressor or EQ will be automatically bypassed in the case of the power fault. It helps to bypass your faulty gear.

Typical wiring diagrams are shown in the diagrams below.

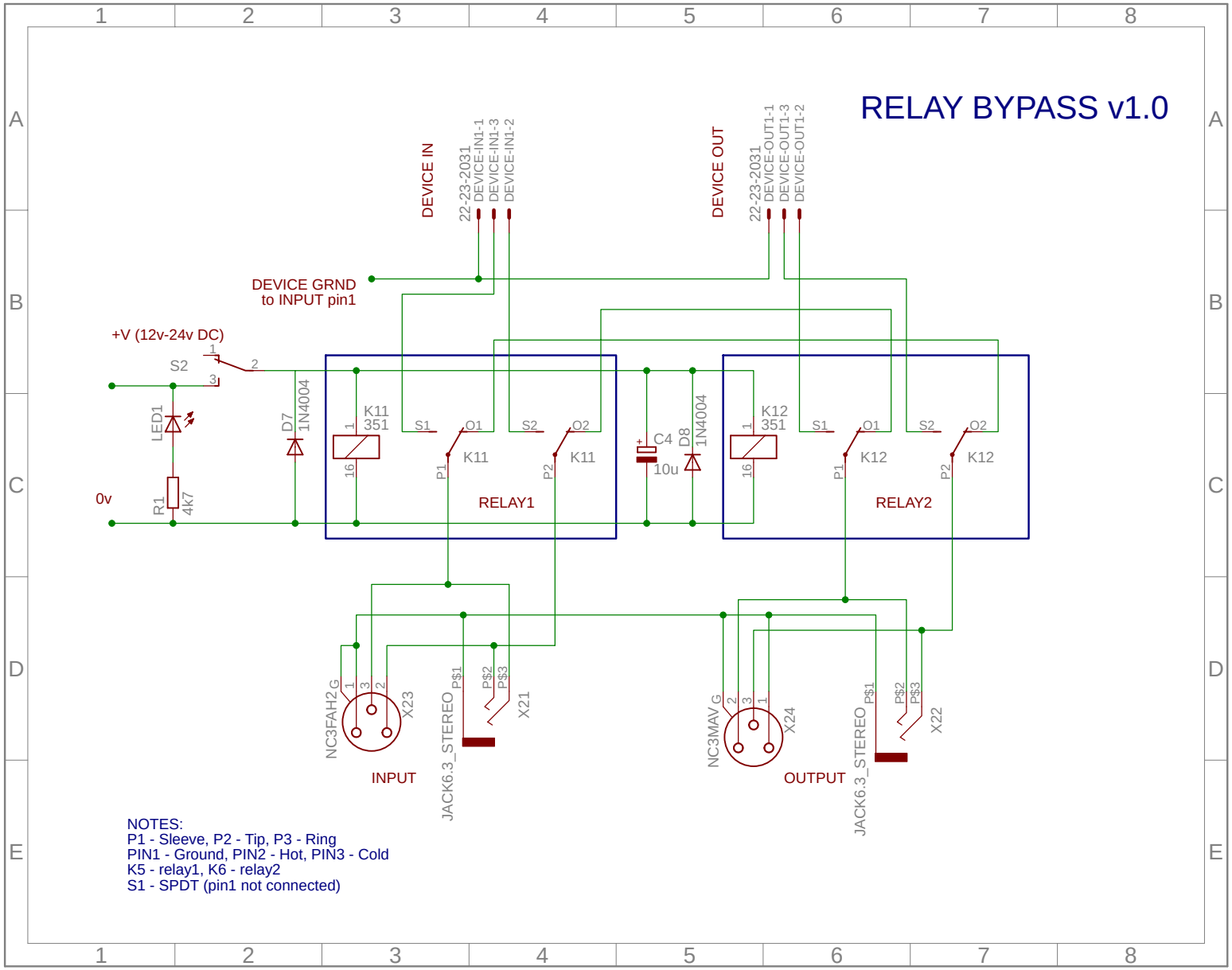

30mm
14mm
50.5mm
58mm
JACK6.3-1
JACK6.3-2
chassis
NC3FAH-1-0
NC3MAH-1
RL1
RL2
351
351
IN-EFFECT
OUT-EFFECT
3(-)
2(+)
1(G)
D1
C1 10u
LED
D2
4k7
R(LED)

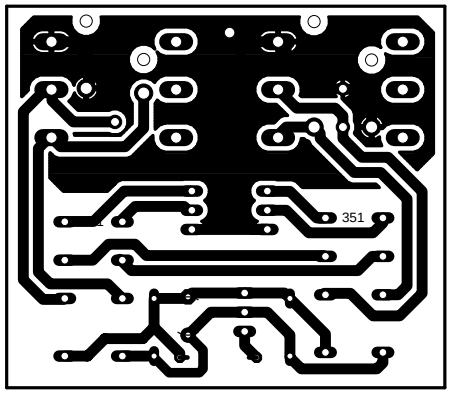
BYPASS PCB
Interconnections
v1.0



NOTES:

Output ground connection (pin3) is optional.
Please, check your device schematics to prevent ground loops
+V is your relay voltage rated (usually +12v DC)


RELAY BYPASS v1.0
DEVICE IN
22-23-2031
DEVICE-IN1-1
DEVICE-IN1-3
DEVICE-IN1-2
DEVICE OUT
22-23-2031
DEVICE-OUT1-1
DEVICE-OUT1-3
DEVICE-OUT1-2
DEVICE GRND
to INPUT pin1
+V (12v-24v DC)
S2
LED1
R1
4k7
0v
D7
1N4004
K11
351
RELAY1
C4
10u
D8
1N4004
K12
351
RELAY2
NC3FAH2
X23
INPUT
JACK6.3_STEREO
X21
NC3MAV
X24
OUTPUT
JACK6.3_STEREO
X22
NOTES:
P1 - Sleeve, P2 - Tip, P3 - Ring
PIN1 - Ground, PIN2 - Hot, PIN3 - Cold
K5 - relay1, K6 - relay2
S1 - SPDT (pin1 not connected)


351