RESORTE

www.retroamplis.es Digital Reverb
Rev.1.3

The assembly of this pedal is very simple, you simply must carefully solder the components in place and conduct an orderly wiring. The necessary components are supplied with this kit to assemble this pedal with assembly instructions.

The heart of this pedal is the Accutronics reverb module BTDR-2H.
The signal is amplified in a first stage and then divided into two. A portion of the signal enters the reverb module, and the other goes directly to the output through an opamp stage. Once the signal is processed by the module, enters the MIXER potentiometer control, which adjusts the amount of reverb signal we want to mix with the remaining portion clean. Finally, once mixed signal becomes amplified.

R5 can be changed by a higher resistance to the amplifier stage or "boost" approach the unit. 15K or 18 K is an acceptable value for a get soft boost.

The mixer potentiometer can be directly mounted on the bottom side of the board or it can be wired to the PCB.
Resorte includes connection for 9V battery (LR6 type), an external power connector standard 9V/2.1mm negative center "Boss" type DC. All that is mounted on an aluminum box type 1590B.

INSTALLATION INSTRUCTIONS

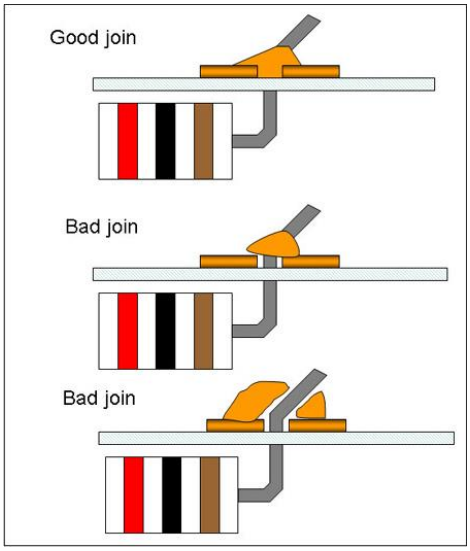
Solder the components on this order for easier installation:

1. Sockets (if exists).
2. Resistors.
3. Capacitors.
4. Diodes.
5. Transistors.
6. Integrated Circuits.
7. Wiring of external elements such as knobs, jacks, LEDs, switches, etc.

Remember that capacitors and diodes have polarity, meaning that only has one possible mounting position.
In the capacitors negative sign is engraved on its casing vertically and corresponds to shorter terminal.
In the diodes the negative terminal is marked with a white ring diodes black color and a black ring in orange type.
LEDs on the negative terminal or cathode is the shortest. The cathode (-) can also be identified by a notch on the side of led.

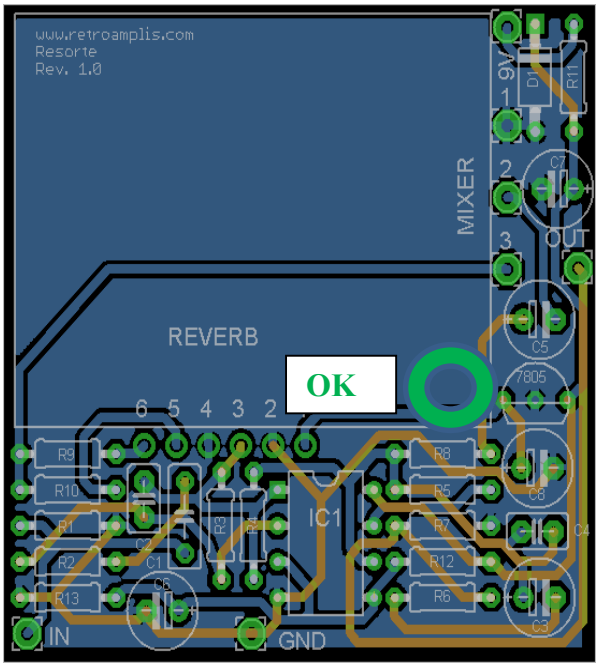
Integrated circuits also have position. Pin 1 corresponds to the corner where you can see a circular and / or a point notch.

Do not solder too much tin over the pad will be better soldier, just put the tin, but make sure not to see through the way across the board. On youtube there are many tutorials as soldering and desoldering components, we recommend to take a look before starting this project in case you do not have soldered before.

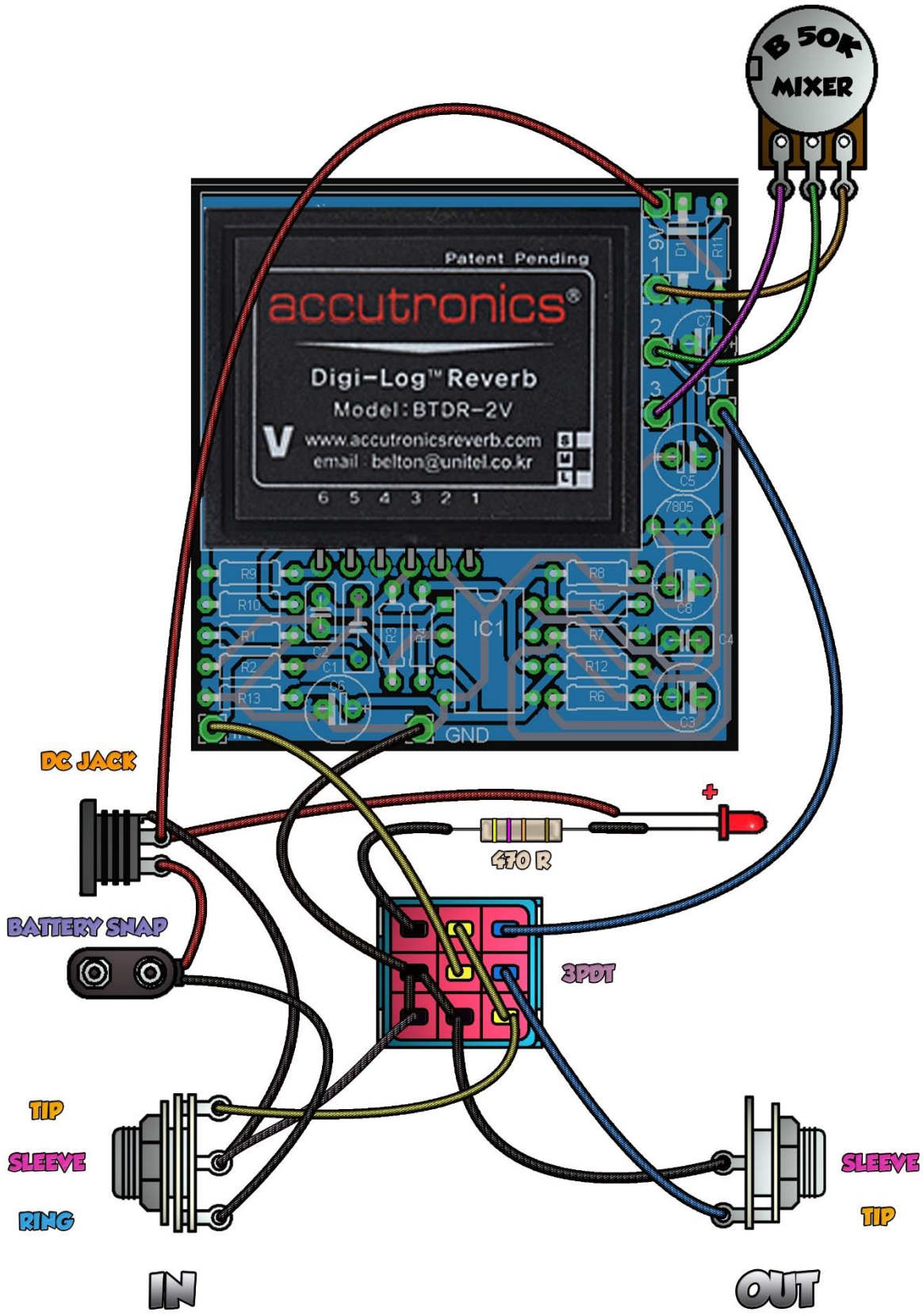


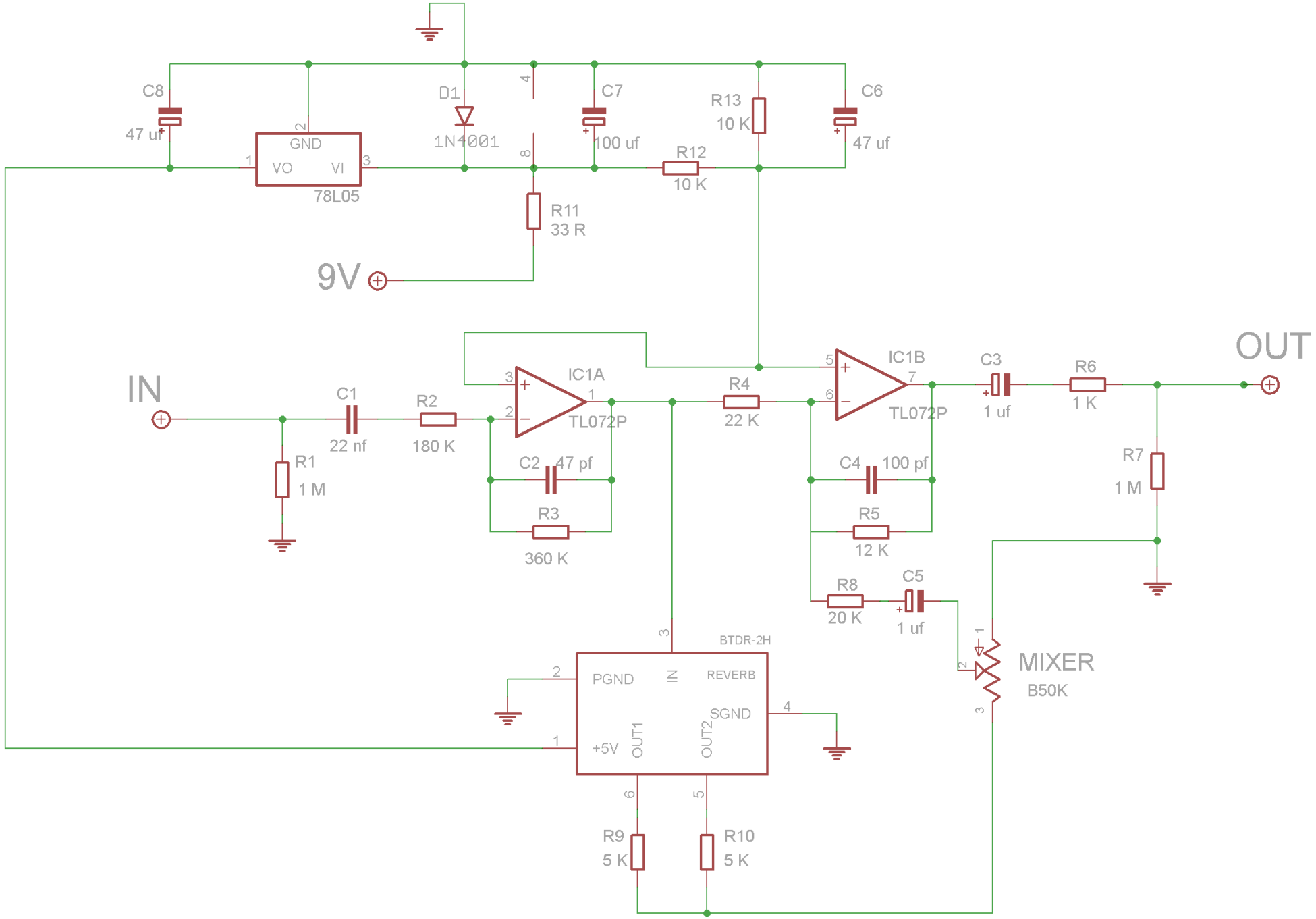
Finally check that all components are properly solder in correct order and polarity.

IMPORTANT NOTE: The position of the 78L05 regulator is incorrect on the silkscreen PCB, put the controller upside down as shown in the PCB silkscreen. The regulator drawing board this document is the correct position, but the plate is inverted, be very careful with this indication. See picture below. Left right, wrong right.



RESISTORS		CAPACITORS		DIODES		IC		REVERB MODULE
R1	1M	C1	22nF	D1	1n4001	IC1	TL072	BTDR-2H
R2	180K	C2	47pF					
R3	360K	C3	1uF					
R4	22K	C4	100 pF					
R5	12K	C5	1uF					
R6	1K	C6	47uF	POTENTIOMETER				IC REGULATOR
R7	1M	C7	100uF	POT 0	B50K			78L05
R8	20K	C8	47uF					
R9	5K							
R10	5K							
R11	33R							
R12	10K							
R13	10K							
Rled	470R							


B 50K
MIXER
Patent Pending
accutronics®
Digi-Log™ Reverb
Model: BTDR-2V
www.accutronicsreverb.com
email : belton@unitel.co.kr
6 5 4 3 2 1
9V
OUT
7805
IC1
GND
DC JACK
470 R
BATTERY SNAP
3PDT
TIP
SLEEVE
RING
SLEEVE
TIP
IN
OUT


C8
47 uf
GND
VO
VI
78L05
D1
1N4001
C7
100 uf
R13
10 K
C6
47 uf
R12
10 K
R11
33 R
9V
IN
C1
22 nf
R2
180 K
R1
1 M
IC1A
TL072P
C2 47 pf
R3
360 K
R4
22 K
IC1B
TL072P
C3
1 uf
R6
1 K
OUT
C4 100 pf
R5
12 K
R7
1 M
R8
20 K
C5
1 uf
MIXER
B50K
BTDR-2H
PGND
IN
REVERB
SGND
+5V
OUT1
OUT2
R9
5 K
R10
5 K