

Spring Reverb V2.1: Assembly Manual

PCB1: (The smaller one)

Solder the next resistors:

Amm.	Value	Code	Name on PCB
2	2r2 0HM	Red, red, blac, gold	R8, R9
2	390 0HM	Orange, White, Brown, gold	R45, R49
4	470 0HM	Yellow, Purple, Brown, Gold	R25, R26, R35, R36
4	680 0HM	Blue, Grey, Brown, Gold	R22, R24, R28, R31
1	1k	Brown, Black, Red, Gold1541F	R18
2	1k8	Brown, grey, Red, gold	R46, R50
2	2K2	Red, red, red, gold	R37, R39
1	7k32	Purple, Orange, Red, Brown, Brown	R33
13	10k	Brown, Black, Black, Red, Brown	R1, R3, R5, R7, R10, R11, R12, R15, R16, R17, R38, R42, R44, R48
2	15k	Brown, Green, Orange, Gold	R29, R30
2	27k	Red, purple, Orange, gold	R13, R53
2	36k	Orange, blue, Orange, gold	R4, R20,
3	47k	Yellow, Purple, Black, Red, Brown	R6, R19, R23
1	62k	Blue, red, Orange, gold	R21
1	150k	Brown, Green, black, gold	R2
7	100k	Brown,Black,Black,Orange,Brown	R14, R27, R32, R40, R41, R51, R52
1	200k	Red, black, yellow, gold	R47
2	820k	Grey, red, black, gold	R34, R43

Solder the diodes (D1, D2) respecting polarity. Black line on the diode must be in the same place as white line on the diode PCB silkscreen.

Solder the next capacitors:

Amm.	Value	Code	Name on PCB
3	47p	47	C2, C13, C17
4	100p	101	C3, C10, C15, C18
1	330p	331	C4
1	1n	102 Poliester	C9
1	15n	153 Poliester	C8
12	100n	104	C1, C5, C6, C7, C11, C12, C14, C16, C20, C21, C23, C24
2	10µF	10µF	C19, C22

Solder the transistors 2n3906 (T1, T2,), BC516 (Q2) Y BC517 (Q1).Be sure they are on proper position (same as the silkscreen on the PCB)

Solder the two ferrite beads (FERRITE+, FERRITE-)passing trough a recycled resistor leg.

Place the sockets (IC1, IC2, IC3, IC4, IC5) and solder them. Then place the ICs on them taking care of polarity. To do that the mark on front must match the mark on the socket. IC1=TL072, IC2=TL074, IC3=LM13700, IC4=LM13700, IC5=TL074.

Solder the power connector been sure the position is correct (as in the silkscreen)

Place and solder the RCA connectors (same as the silkscreen on the PCB).

Note:

RCA-OUT pcb ---> IN-Reverb.
RCA-IN pcb ---> OUT-Reverb.

Solder the male pin header (Circuit) by the short part and by the silkscreen side of the PCB. Ensure they are at 90° from the PCB.

PCB2:

Solder the next resistors:

Amm.	Value	Code	Name on PCB
2	1k	Brown, Black, Red, Gold	R100, R110
1	1k8	Brown, grey, Red, gold	R105
1	2.7k	Red, Purple, Red, gold	R112
2	10k	Brown, Black, Black, Red, Brown	R106, R109
5	100k	Brown,Black,Black,Orange,Brown	R101, R102, R103, R104, R111

Solder the diode (D100) respecting polarity. Black line on the diode must be in the same place as white line on the diode PCB silkscreen.

Solder the next capacitors:

Amm.	Value	Code	Name on PCB
1	680n	684	C101
1	10µF	10µF	C100

Place the sockets (IC100) and solder them. Then place the ICs on them taking care of polarity. To do that the mark on front must match the mark on the socket. IC100=LM3914N.

Place and solder the Female Pin Header (Panel To) by the opposite side of the faders, ensuring it is 90° from PCB.

Solder the potentiometer HPF Y MIX.(Cut the littel square shaped legs to avoid contact with IC 100)

Place the faders, ensure they are at 90° from the PCB.and then solder them.

Put LEDs on place: (LED01 Rojo), (LED02, LED03 Amarillo), (LED04, LED05, LED06, LED07 Verde) especting the polarity but don't solder it until you screw the front panel. This way is much more easy to solder it on the right position.

Solder the minijack or the Banana (CV1, CV2, IN1, IN2, MIX_CV, OUT_MIX, WET).

Put the spacer on the four holes by the male side and fix the with the four nuts.

Place the front panel, screw the minijacks or bananas and pceed to solder them.

Solder the LEDs on the right height.

Assembly the PCB 1 on the PCB2 and screw them with the four provided screws.

