

# SD-606 Assembly Guide REV. 2

## 1 Main Board Assembly



This document will guide you in the assembly of the SD-606 snare drum module kit. The steps shown focus on the mechanical assembly of the Main Board, Control Board, and Panel. Please reference the BOM and component labels on the Main Board and Control Board while assembling this kit.



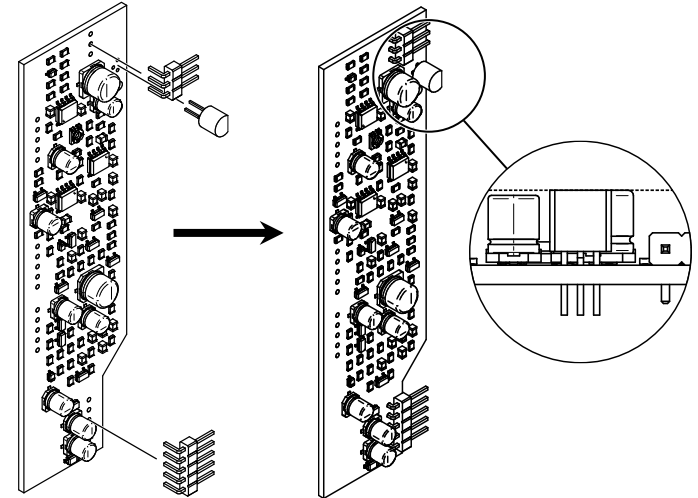
Assemble the module following the steps in the order shown. Please read and follow these instructions carefully to avoid incorrect assembly or damage to the module.



Note that certain components on the Main Board assembly are ESD sensitive. Care should be taken when handling the Main Board and components during assembly.

- 1.1 Place and solder transistor Q1 and the pin headers for the power connector and AC Mode Select onto the Main Board.

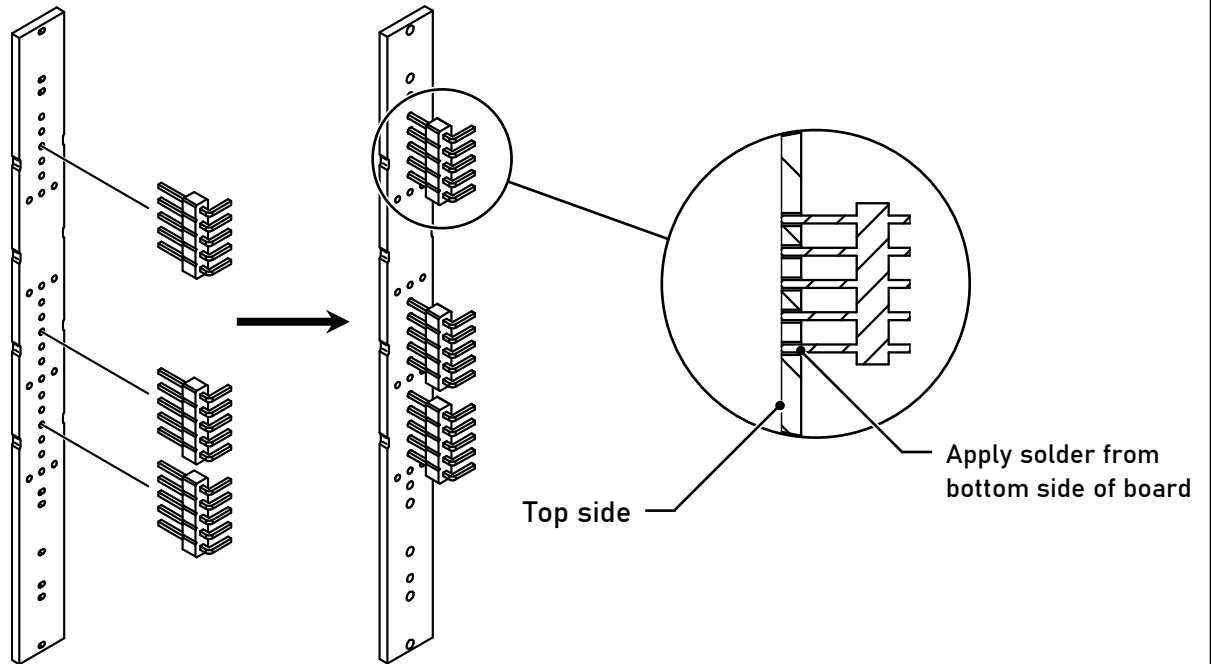
Ensure that the top of Q1 sits level with or below the height of nearby capacitors.



## 2 Board Interconnect Pins

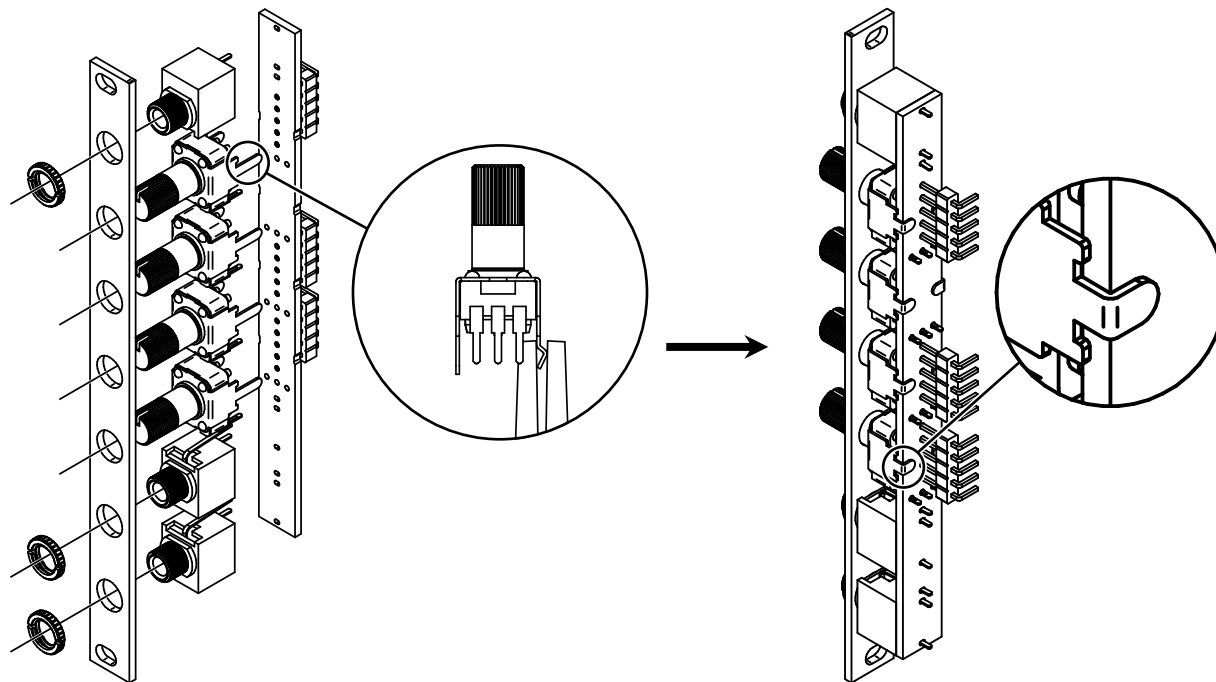
- 2.1 Place board interconnect pins onto the bottom side of the Control Board. The bottom side has interconnect pin outlines and labels (J9, J10, J11). Carefully note the orientation of the headers and control board in the diagram.

Note that the board interconnect pins will not be fully seated to avoid interference with top side components. The ends of the pins should mount flush with the top side of the board. It may be helpful to 'tack' one of the pins of each connector first, making sure they sit vertically and line up with the main board before fully soldering.



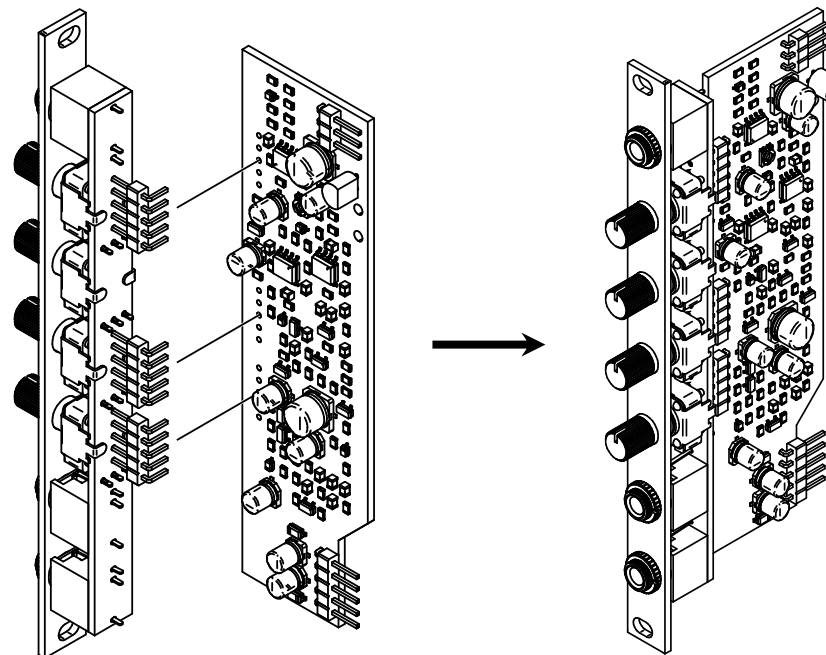
### 3 Control Board and Panel Assembly

- 3.1 Using needle-nose pliers, straighten both mechanical mounting pins on each of the potentiometers.
- 3.2 Place potentiometers and jacks onto Control Board. Note the following values: RV1 = B10k (lin), RV2 = B1k (lin), RV3 = B100k (lin), RV4 = A50k (log). Lightly thread jacks onto panel to ensure proper alignment before soldering. Once aligned, solder potentiometers and jacks into place, ensuring components are fully seated onto the Control Board.
- 3.3 Bend mechanical mounting pins around the Control Board for support. Take care to avoid damaging the back surface of the Control Board while bending pins.



### 4 Final Assembly

- 4.1 Mount and solder the Main Board assembly to the Control Board and Panel assembly in the orientation shown. Ensure the Main Board sits perpendicular to the Control Board and Panel assembly.



- 5.1 To begin noise level calibration, connect 10-pin power cable to module and power on. Note that the AC Mode Select jumper on J5 (not shown here) will not affect calibration if installed.
- 5.2 While measuring between test points labeled TP1 and GND, adjust potentiometer RV5 labeled NOISE on Main Board using a small flathead screwdriver until a noise level between approximately 0.8-1Vpp (peak-to-peak) is reached. Note that the circuit may take a minute to warm up and reach steady state when first powered on. Measurements should be made using AC coupling.

If measuring equipment is not available, the noise level can simply be adjusted to taste.

