

L&L DAVINCI KILN ASSEMBLY INSTRUCTIONS

VIDEOS

View the following videos before assembling:

hotkilns.com/assemble-davinci-kiln-video

If you have a Bell-Lift option:

hotkilns.com/assembling-davinci-bell-lift-kilns-video

WHEN YOUR KILN ARRIVES

Depending on the model and accessories, your kiln will arrive on two or three crated skids. If the skids were damaged in transit, you should either refuse shipment or unpack the kiln in the drivers presence in order to file a damage report with the freight company. Call our office. See ship-inspect.pdf in the front of the instruction book. Inspect for damage!

Below is a picture of how your kiln should arrive. Smaller DaVinci kilns will be cardboard boxes on skids.



UNPACK THE CRATES

Carefully remove and dispose of the crating boards on the crated skids. One of the crates contains the kiln stand, kiln counterbalance, kiln control panel as well as any additional accessories you may have ordered. The other skid or skids contain the individual kiln sections stacked in reverse order so they can be set up in the proper order, as well as the kiln top or lid, the kiln bottom or floor and the aluminized plate that sits between the floor and the kiln stand.

SET UP THE STAND AND BOTTOM

Remove the kiln stand and place it on the floor in desired location. See CAUTIONS and INSTALLATION in this instruction manual for more detailed information on codes, ventilation requirements, clearances, etc.

Place the flat aluminized plate and the floor of the kiln on top of the kiln stand. Note that the aluminized plate is packed directly under the kiln floor. This enables you to move both pieces to the kiln stand as one unit. Make sure that the plate and the floor sit flush on the stand. Make certain it is centered properly. If a vent is supplied to be mounted to bottom make sure this is attached now.

LEVEL THE KILN! This is important because the Dawson Kiln Sitter is affected by gravity. If the kiln is not properly leveled the Kiln Sitter might be either too reactive or too sluggish. **ALSO IF KILN IS NOT LEVELED THIS COULD LEAD TO THE CRACKING OF THE BOTTOM AND THE TOP**

STACK SECTIONS ON BOTTOM

Notice that each of the two (or more) kiln sections have numbered power cords (referred to as element box jumper cords). The top kiln section will always be # 1. The bottom kiln section will be # 2 on a 2 section kiln, # 3 on a 3 section kiln, etc. Now stack the kiln sections in proper order.

KILN DOOR PLACEMENT

Remove the hinge bar and its hardware and set aside.

Place the kiln door/top squarely on top of the top kiln section. Notice that the door is slightly larger than the kiln section. Space the door as evenly as possible, this will help you later when attaching your counterbalance.

ATTACH COUNTERBALANCE

Remove the sixteen screws that are in the bottom and third from the bottom kiln sections. (These screws are in the top and bottom sections on a two section kiln). These screws will be used to attach the counter-balance arms to the kiln. Maneuver the counter-balance into position lining the holes in the kiln sections up with the holes in the counter-balance arms. If you can not get the holes to line up you must adjust the stacked kiln sections appropriately. Now replace the sixteen screws.

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ASSEMBLE DOOR AND HINGE

As gently as possible, position the kiln lid so that the oblong holes in the counter-balance pipe plates line up with the round holes in the lid side channels. The counter-balance pipe is factory set so that the round bar sit at the bottom of the oblong hole of the pipe plate. This is important as it allows the kiln lid to pivot as well as rise as the kiln heats and the brick expands.

ATTACH DOOR TO SPRING CABLE

If necessary, turn the spring tubes so that the opening where the cable comes out at the top of each tube is facing the front of the kiln. Tighten the cable clamps that hold the spring tube to the angle. (These have been loosened for shipping).

If necessary, position the spring tube safety brackets so that they are facing towards the back of the kiln.

Lift the door and attach the safety chains to the eyebolts at each side of the kiln door.

Open the oval connectors and connect the cable from the tubes to the cable adjusters that are already on the eyebolts on the front of the door.

SET UP CONTROL PANEL

Set your control panel on the right side of your kiln.

ATTACH THERMOCOUPLES

Each of the thermocouple lead wires are numbered to correspond with the location of the thermocouple on the kiln. The number 1 thermocouple lead wire must be attached to the top thermocouple. The number 2 thermocouple wire will attach to the bottom kiln section thermocouple on a two section kiln or the middle kiln section thermocouple on a three or more section kiln. If not done correctly, your kiln will not operate properly.

To attach the thermocouple lead wire, simply screw the red wire to the negative terminal of the thermocouple and the yellow wire to the positive terminal of the thermocouple. (You can see a “-” mark and a “+” mark embedded in the ceramic terminal).

Before firing your kiln, make sure the thermocouple lead wires are not touching the kiln. If these wires burn, your control will not operate properly.

PLUG IN KILN SECTIONS

Now you can plug your element box jumper cords into the appropriate receptacles. Start at the top section. The element box jumper cord should be numbered 1, and plugged into the #1 receptacle. The TC lead wire on the top section of the kiln must be numbered 1. Repeat these steps for the remaining kiln sections.

FINAL STEPS

INSTALL VENT

If your kiln is equipped with a vent fan exhaust tubing to outside. See separate vent instructions in the instruction manual.

HOOK UP ELECTRIC POWER

See the wiring diagram for electrical specifications. All Davinci Kilns are direct wired.

READ CAUTIONS

DO NOT PROCEED WITHOUT READING AND UNDERSTANDING THE CAUTIONS IN THE OPERATIONS SECTION.

VACUUM KILN

Vacuum the kiln before using it (with power disconnected from kiln).

FIRST TEST FIRING

You are now ready for your test firing: See the main instructions in the OPERATION section.

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