

VeneerSupplies.com  
**Project:CRS™**  
VACUUM PRESSING SYSTEM

Thank you for purchasing the Project CRS™ Vacuum Pressing System. When combined with a vacuum pump, you'll find it a versatile and practical addition to your arsenal of tools. The system is designed for woodworkers looking for a simple and affordable method of veneering wood panels and clamping wood projects for routing, sanding and carving. With an integrated bleeder valve, the system is fully adjustable from 840 to 1750 lbs of pressure per square foot.

This guide will help you get your vacuum press/clamp assembled as quickly as possible. If you have any questions, feel free to contact us through the VeneerSupplies.com website.

### Kit Contents



Thread-Sealing  
Tape



Heavy-Duty  
Vacuum Tube



Lock-On Vacuum  
Connector



Brass Pipe  
(2")



Vacuum  
Valve



Heavy Duty  
Vacuum Gauge



Vacuum Bleeder  
Fitting



Brass Pipe  
(1")



3/8" Brass  
Barb Fittings



Brass Cross  
Fitting



High-Flow  
Vacuum Filter

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Visit [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov) for details.

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The arbitrator shall be agreed upon by the parties and the arbitration shall take place in Harford County, Maryland in accordance with Maryland law.

Procedure

If the parties cannot agree on a mutually acceptable arbitrator, the arbitration will be conducted through the American Arbitration Association ("AAA") and in accordance with its rules. The AAA's rules are available to view at <https://www.adr.org>. Both parties agree to equally share the administrative expense of the arbitration, unless the arbitrator finds that the claim was brought in bad faith and orders one party to pay the cost of the proceedings as part of the arbitration award. Both parties are responsible for paying the costs of their own counsel, experts, and witnesses. Judgment on the award rendered by the arbitrator may be entered in any court having jurisdiction thereof. Before commencing an arbitration under this Agreement, the aggrieved party will first present the claim or dispute to the opposing party by (certified mail, regular mail). Our notice address to submit claims or disputes is: JWW Services Inc., 217 E. Jarrettsville Rd., Suite 5, Forest Hill, MD 21050. If the claim or dispute is not resolved within 90 days, the aggrieved party can commence arbitration proceedings in accordance with this Agreement.

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## Assembly

1. Apply thread sealing tape to the male side of the brass pipe (2"), brass short pipe, vacuum valve, vacuum bleeder, brass fittings attached to vacuum tube, and vacuum gauge.
2. Loosely attach the long brass pipe to the intake of the vacuum pump.
3. Attach the brass cross and tighten it firmly. This will also tighten the long pipe from the step above. After the brass cross begins to become snug, continue turning until the fitting is oriented horizontally as shown.
4. Loosely attach the short brass pipe to the brass cross. It is attached to the opposite port of the long pipe.
5. Attach the vacuum filter. Make note of the arrow on the top of the filter. This arrow should be pointing toward the pump. Do not over-tighten the filter. Even when the filter is less than hand tight, it will still provide an air-tight seal. The final position of the filter should be the 6 o'clock or vertical position. You may need a separate wrench or pliers to hold the brass cross in place as you tighten the filter.
6. Attach the vacuum gauge to the top port on the brass cross. Do not apply force to the gauge housing. Use a 9/16" wrench on the base of the gauge to prevent damage. Do not apply force to the gauge housing. The air bubble inside the gauge is normal. This bubble keeps the gauge accurate regardless of altitude. To zero/reset the gauge needle, carefully remove the brass insert at the top of the gauge while held in the upright position. Any excess pressure inside will escape and the gauge needle will reset. Be sure to re-install the brass fitting when finished.
7. Attach the vacuum valve to the bottom port of the brass cross using a 5/8" wrench. After the valve is snug, continue turning the fitting until the handle is facing upward.
8. Attach the bleeder fitting to the vacuum valve with a 9/16" wrench.
9. You can now turn the entire brass assembly so the gauge is angled up by 40°. This will make it easier to see the gauge when the system is in use.
10. Using 9/16" wrench, attach the brass barbed fitting to the filter's intake.
11. Slide the vacuum tube onto the barbed fitting on the vacuum filter.
12. Attached the remaining barbed fitting to the other end of the vacuum tube.
13. Do not attach the lock-on vacuum connector to the brass fitting on the vacuum tube yet. Instead, you'll need to cover the end of the fitting with tape. Any non-porous tape will work fine. This tape will be removed after step #13.
14. Turn the vacuum valve handle so it is in-line with the gauge (either at the 6 o'clock or 12 o'clock position). Plug in the pump and let the unit run. You should see the vacuum gauge immediately rise.



## Completed Assembly

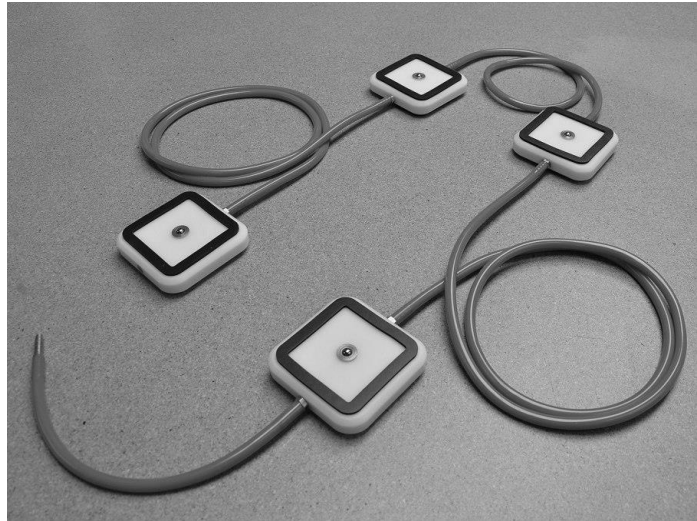


Your system may appear different from the image shown depending on the vacuum pump you use with the CRS kit.

## Using the CRS Kit for Vacuum Clamping with Podz™ Vacuum Jigs (Optional)

If you ordered your CRS kit with the optional Podz clamping kit, assemble the jigs using the instructions included with the kit.

To clamp a work piece to the vacuum jigs, turn the vacuum valve handle on the CRS system towards the bleeder fitting. Attach the tube adapter from the lead Podz clamping jig to the lock-on connector from the vacuum system. Then connect the power plug from the vacuum pump to the plug on the foot pedal and plug this into a wall socket.



Press the back edge of the foot pedal to turn the vacuum pump on. Place the work piece onto the vacuum jig and you should feel the vacuum pressure pull the work piece solidly onto the jig. If the clamping pressure is inadequate, you may wish to adjust the bleeder valve.

To release the pressure from the Podz jigs, press down on the front edge of the pedal. You may hear the flow of air from the bleeder fitting as the pressure from the jig is unloaded and the work piece is released.

### Vacuum Pressing Veneer

Of course, the main use for this system is pressing veneer in a vacuum bag. Attach the lock-on connector to the vacuum bag. Apply power to the vacuum pump and simply turn the handle on the vacuum valve to the closed position (left or right). This will allow full and unbreached air flow between the vacuum bag and the vacuum pump. Once the vacuum gauge has reached 21" of Hg, you can adjust the vacuum valve handle to make fine adjustments in vacuum pressure. Turn the handle toward the downward position until the vacuum gauge steadies at 21" of Hg. This is the ideal pressure for most veneers and adhesives. If a coarse adjustment is needed, simply re-adjust the bleeder valve.

Keep in mind that this system is designed to run continuously during the entire vacuum pressing project. In the event that you need to turn off the system during a pressing, you will need to temporarily disconnect the lock-on connector from the vacuum bag before turning on the pump. When the pump is running, re-attach the lock on connector to the bag. Remember - this pump will not restart if there is vacuum pressure in the system.

