

Troubleshooting Tips for Carlisle HVAC Mobile Sealant Delivery Systems

In order to better prepare the Carlisle HVAC sales force we have compiled a list of troubleshooting tips and the appropriate steps to resolve a variety of situations that may arise when using Carlisle's Mobile Sealant Delivery Systems.

Pump will not run:

1. Verify the pump power cord is connected to an appropriate outlet. The Standard and Deluxe pump systems pull a maximum of 15 amps and the Junior pump pulls a maximum of 13 amps
(Note: Do not remove or bypass the grounding pin on the connector).
2. If pump is connected to an appropriate outlet, verify the outlet has power.
3. If there is no power at the outlet, verify the circuit breaker is not tripped. If it is, reset and attempt to power the unit. If powering the unit trips the breaker, find a different outlet on a separate circuit to power the unit.
4. If the above steps do not allow the pump to run, verify that the power cord was not pulled loose from the controller. This can happen when the power cord is wrapped tightly around the cart and the pump is raised using the lift system.

If the power cord is pulled loose:

- A. Disconnect the power cord.
 - B. Remove the screws holding the side panel on the pump controller.
 - C. Re-attach green, white and black wires. See Figure 1.
5. If the power cord connections are connected, verify the pump power supply board and/or the control board does not have burn spots anywhere on the board. A burn spot shows a short circuit or failure within the board. If you find a burn spot, remove and contact Customer Service at 877.495.4822 for a replacement (covered under warranty if within the 1-year warranty period).

Figure 1



Piston rod is moving but pump will not spray/prime or is pumping at a lower pressure than setting:

1. Verify the selector switch on side of pump is solidly in the pump or the prime location – horizontal to spray, vertical down to bypass/prime. See Figure 2 for appropriate positions.
2. Ensure the pump drop tube is not blocked.
3. Verify that the pump drop tube is connected tightly to the pump.
4. If the drop tube is tight, remove the drop tube and verify the check ball is present.
5. If check ball is present:
 - A. Sometimes the check ball will stick, so verify that it can move freely.
 - B. Verify the condition of the o-rings on the drop tube assembly. There are two o-rings to check: a white plastic o-ring at the base of the male portion of the pump and a black rubber o-ring where the drop tube connects to the female portion of the pump. See Figure 3. A nick on the surface or a broken o-ring will allow the pump to pull air instead of pulling product.
6. If the above steps do not allow the pump to spray or prime, remove the threaded section on the manifold and add water. See Figure 4. Re-install the threaded section and then pump/prime. Sometimes this additional water will give the pump enough fluid to begin pumping.
7. If the above step does not work, pull the drop tube assembly from the pump, insert a small screwdriver into the male connection on the pump and tap lightly. There is an additional check ball in the male portion of the pump that can stick. See Figure 5.
8. If the above step does not work contact Technical Services at 877.495.4822 for additional assistance.

Leaks:

1. For any leaks on the pump, gun or hose, verify that the fittings and connections are tight. The drop tube, the manifold and the gun safety guard need to be minimum “hand-tight”.
2. If the leak is emanating from the end of the gun after the trigger is released:
 - A. There may be foreign matter in the tip of the gun. Turn the pump off, relieve the pressure in the system, remove the safety guard and tip and remove the foreign matter.
 - B. If there is no foreign matter in the tip of the gun, the gun may need to be rebuilt. Contact Customer Service for assistance.

Figure 2



Horizontal Back Spray



Bypass Setting



Horizontal Front Spray

Figure 3



Lower O-ring



Pump O-ring

Figure 4



Figure 5

