



Clubhouse Trailer Company

Clubhouse Trailer Company
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What is Hydraulic Lock?

- Hydraulic Lock is found when pressure on one-side of a solenoid or valve exceeds the strength of the that solenoid or valve to overcome the pressure
- Most commonly related to long-term storage, or higher temperatures
- Can also be caused by a low-power condition if a solenoid or valve is not getting 12 Volts DC from the electrical system

In a Clubhouse Trailer what does Hydraulic Lock look like?

- Most commonly, hydraulic lock will affect the Main Cylinders (the ones mounted to the trailer floor) during the Ramp Out operation. The "Fold" section of the ramp will extend but the "Main" section remains in-place. If the Fold section gets near horizontal without the Main beginning to come out there is no advantage in continuing to go out (or up) with the Fold.
- During the Ramp Out operation the Main is in a gravity mode, in that it is not powered down to the ground. Only the Fold section is powered in the Ramp Out operation.

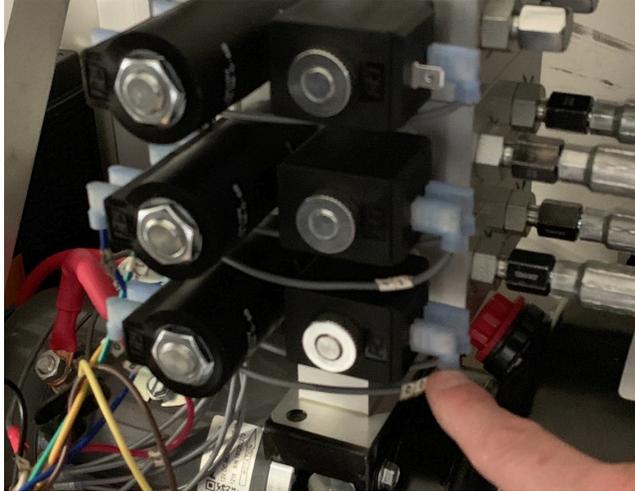
Actions to Take:

1. Check the voltmeter
 - The hydraulic power unit may work all the way down to about 10 volts but the strength of the solenoid valves will be diminished at less than 12 volts
 - If the voltmeter shows anything less than 12.0 volts immediately plug the trailer into shore power or a generator and begin to charge the batteries
 - The generator or shore power will not "Power" the trailer but instead will charge the batteries. If the batteries are not holding a charge they may require maintenance. Please refer to the Battery Maintenance appendix to this procedure sheet.
2. Check the Pendant

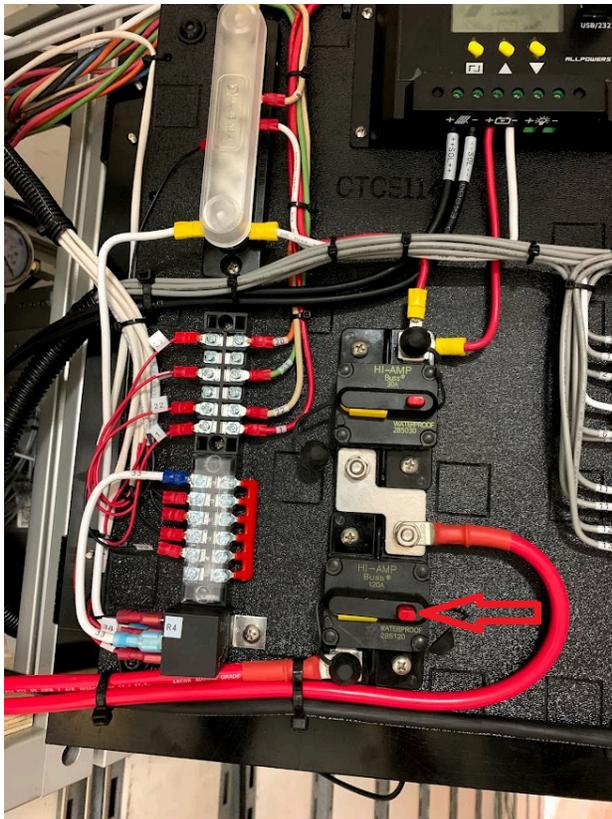
- The pendant plug can become loose in the receiver behind the license plate, or may not be seated fully, leading to bad or intermittent connections. Unplug the pendant and plug it back in ensuring that it is fully seated in the receptacle
- With abuse, the individual wires that make up the pendant cable may become loose in the plug. Using a phillips screwdriver remove the small screw from the end of the plug (DO NOT LOSE THE SMALL SCREW) and loosen the larger phillips screws securing the cable into the plug.
 - Inspect the wire connections and tighten any loose connections
 - Train your ramp team to only pull the plug out of the receptacle using the plug housing and not pulling on the wire.
- Replace and tighten the screws
- Plug in the pendant and ensure it is seated and snug
- Check for proper operation
- Press Ramp Out or Ramp Down on the Pendant

3. Check the solenoids

- Open the Battery Cabinet using a 5/32" allen wrench to remove the screws holding the cabinet door closed
- Trip the Power Unit Circuit breaker by pressing the red button on the lower of the 2 circuit breakers. Do not trip the other circuit breaker. The yellow "flag" will show the breaker has been tripped.
- Open the Hydraulic Cabinet door using a 5/32" allen wrench to remove the screws holding the cabinet door closed
- Have someone press the Ramp In and Ramp Out buttons on the pendant. You are listening for an audible click coming from the power unit. With the breaker tripped the power unit will not run. You can place your hand on the solenoid to feel if the solenoid is shifting.
- Take a look at the wiring connections on the power unit to ensure that all connections are secure.



- If you don't hear an audible click go back to the Check the Pendant step because there is likely a loose wire in the plug, or in rare instances the pendant assembly. Contact Support@clubhousetrailers.com for additional troubleshooting steps if no loose wires are found in the pendant plug.



- If the solenoids are operating properly (you can hear them click) then move to the next step to bleed excess pressure from the lines.
4. Bleed Pressure from one Main cylinder
- Close and latch one of the back doors

- Loosen a fitting on the main and drain about a tablespoon of fluid out of the line. Do Not Completely Remove The Nut From The Port Fitting
 - The hydraulic tube is connected to the port fitting using an 11/16" nut



- This should relieve and equalize the pressure on both sides of the solenoid valve.
- Tighten the fitting
- Open the previously closed back door
- Check for proper operation
- Press Ramp Out or Ramp Down on the Pendant

If the steps above do not resolve the hydraulic lock it will be necessary to contact 2nd-Level tech support at support@clubhousetrailers.com or by calling 572.500.9010 and choosing the Trailer Support option.