

# INSTRUCTION SHEET

## ROOM EXTENSION SOLENOID VALVE REPLACEMENT

This sheet is to be followed only when changing the small solenoid valves used for a room extension manifold.

When a vehicle is in warranty and a room is creeping in or out and it is determined a solenoid valve is at fault, both the Cylinder Extend and Cylinder Retract valves for that room should be replaced. If out of warranty, it is a good idea to determine which valve should be changed. This will save the cost of a valve.

If a valve has a visible oil leak, change only that valve.

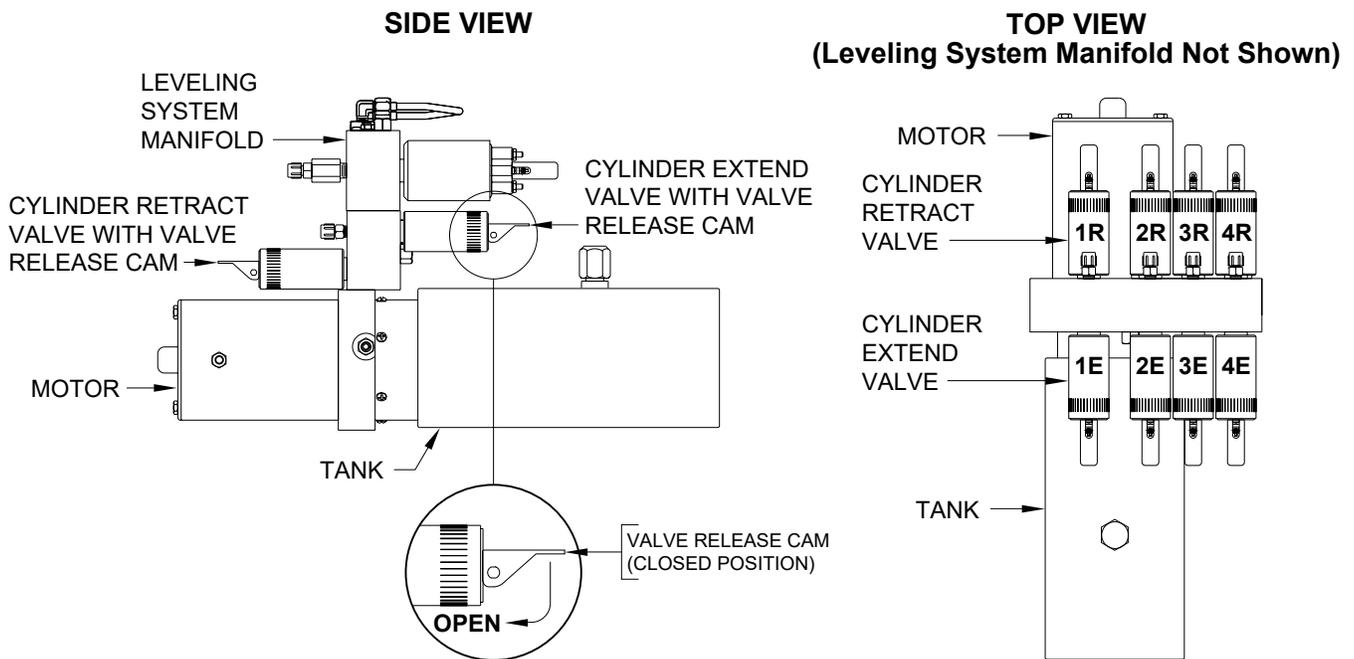
When a particular valve is determined to be mechanically or electrically faulty, change only that valve.

When there are multiple rooms, such as shown below, it is important to determine which set of valves (Cylinder Extend and Cylinder Retract) operate a particular room. Although the valves may be labeled it is a good idea to check that you have the correct pair of valves. Do not depend on the diagrams in the owners manual. The vehicle manufacturer may not have used the HWH diagram when wiring or plumbing the assembly.

If the room is operating correctly, unplug one set of Cylinder Extend and Cylinder Retract valves at a time and try to operate the room. When the room will not extend or retract, the correct set of valves have been located.

If the room will not operate, unplug one valve (Cylinder Extend or Cylinder Retract) and check for +12 volts between the two pins in the harness plug while someone pushes the room control switch to Extend AND Retract. When voltage is present while the switch is being pushed, the correct set of valves have been located.

**NOTE: Due to the designs of different rooms, Room Extend or Room Retract is not always the same as Cylinder Extend or Cylinder Retract.**



**IMPORTANT: Open both the Cylinder Extend and Cylinder Retract valves for a room to release pressure before replacing one or both valves for that room. Turn the Valve Release Nuts NO MORE THAN 4 1/2 full turns counter clock wise to open the valves. Remember to close the valve(s) after the repair is complete. Tighten the Valve Release Nuts snug only. DO NOT over tighten.**

**NOTE: Make sure the o-rings for the old valve did not come off and stay in the manifold. Compare the old valve to the new valve to make sure.**

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Over the years of running a mobile RV repair service, having a dedicated place to access service manuals for all the different appliances and components found on RVs was something that I always had a desire to create.

I hope this resource makes your RV repairs easier, as it has mine, but please be careful and follow proper safety practices when attempting to repair your own RV.

If in doubt, please consult with a professional RV technician!



DARREN KOEPP - OWNER, MY RV WORKS, INC.

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