

# INFORMATION INSERT

## HYDRAULIC SOLENOID VALVE

### VALVE RELEASE CAM REPLACEMENT

**IMPORTANT: READ COMPLETE INSTRUCTION SHEET BEFORE INSTALLING NEW CAM RELEASE. PAY CLOSE ATTENTION TO SPRING TIGHTENING INSTRUCTIONS FOR CAM ADJUSTMENT.**

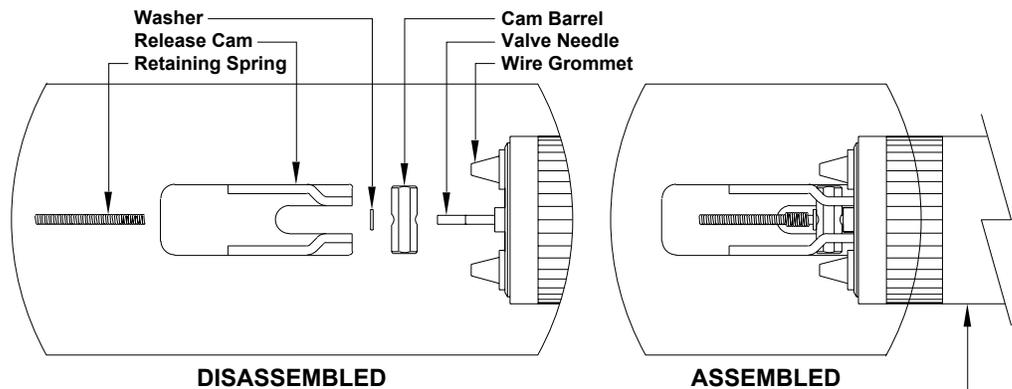
1. Remove the existing cam retaining spring. Use pliers and pull straight back on the spring. it should unwind off of the valve needle.
2. Remove the existing cam, cam barrel and washer. New parts are included in the kit in the event a washer or barrel is lost.
3. Slide the new barrel through the large hole in the sides of the release cam.
4. Slide the new cam / barrel assembly onto the valve needle as shown.
5. Install one (1) washer over the valve needle on top of the cam barrel.
6. Screw the retaining spring onto the valve needle. A small needle nose pliers can be used to help turn the retaining spring onto the valve needle. **DO NOT OVER TIGHTEN. REFER TO CAM ADJUSTING INSTRUCTIONS. ONCE INSTALLED, THE RETAINING SPRING CAN NOT BE REMOVED WITHOUT DAMAGING THE SPRING.**

### CAM ADJUSTMENT INSTRUCTIONS

It is important to note if the retaining spring is too tight, this may cause the valve to leak internally. When properly adjusted, the cam / barrel assembly should move up and down slightly on the valve needle (NO MORE THAN .030 inch). It is also important to note if the release cam is too loose, the valve will not open when the release cam is moved to the valve opened position.

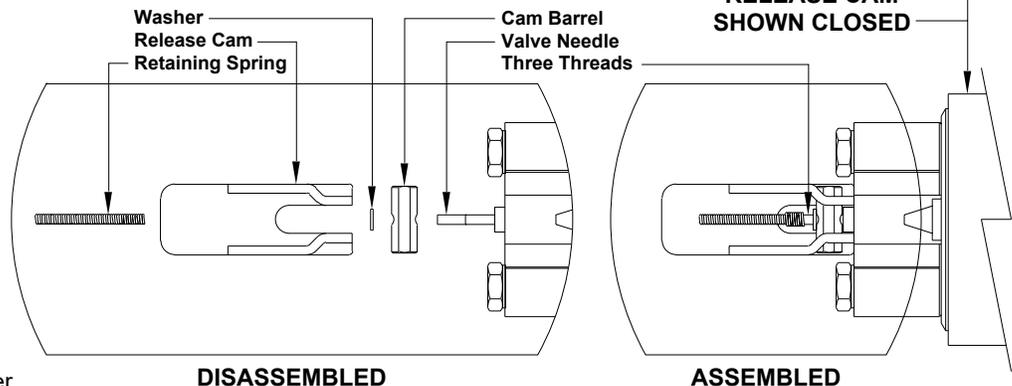
#### Small solenoid valves:

On the small valves, it is important that the release cam cannot become tight on a wire grommets when the release cam is in the valve closed position. The release cam should never feel tight when the release cam is in the valve closed position.



#### Large solenoid valves:

On the large valves, make sure that the cam / barrel assembly can move up and down slightly on the valve needle (NO MORE THAN .030 inch). If the threads of the valve needle are visible, there should be at least three between the retaining spring and the washer.



On either valve, it is important that not only is the release cam not too tight but also that the release cam will open the valve when moved to the valve opened position. When in the valve closed position, the release cam should not be able to move over center in the opposite direction from the cam movement that opens the valve.

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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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