

## TV SOLENOID VALVE REPLACEMENT NOTE

In many cases the need to replace the R.O. feed solenoid valve will be due to problems in the top half of the valve. In such event it is far easier to just replace the top half of the valve along with the new top half components. Removal and replacement of the complete valve is significantly more difficult and time consuming.

To replace the top half only, proceed as follows:

1. Shut off the feed water supply to the system. Then place the system OFF-POWER-ON switch at ON. The system should try to start and then stop due to absence of feed pressure. Place the OFF-POWER-ON switch at OFF.
2. Remove electric power from the system at the external disconnect or circuit breaker.
3. Cut the two solenoid valve power wires about 2" from the coil body.
4. Loosen the four 1/4" bolts holding the valve top half to the bottom half. Remove the top half with its diaphragm and plunger/spring components. Clean the exposed surfaces of the in place bottom half with a sponge or damp paper towel.
5. Open the new valve in the same manner being careful to hold the diaphragm and internal plunger/spring in place when separating the top half. Move the new top half with its components into place on the existing installed bottom half and tighten the four retaining bolts. If the new diaphragm, plunger and spring are removed from the loose half the valve body they must be replaced in their original orientation.. Spring and plunger inserted into the coil bore with the spring first. Then the diaphragm placed on the loose body half with the small pointed cone side of the diaphragm touching the rubber end of the plunger. If the diaphragm is installed in reverse orientation the valve will not operate properly.
6. Trim the wires on the new coil to about 3" and then bare and connect these wires to the existing solenoid valve power leads using butt connectors or wire nuts.
7. Restore electric power and feed water to the system. Check the solenoid valve for leaks at the joint between bottom and top halves. Place the OFF-POWER-ON switch at ON and check for proper system operation.