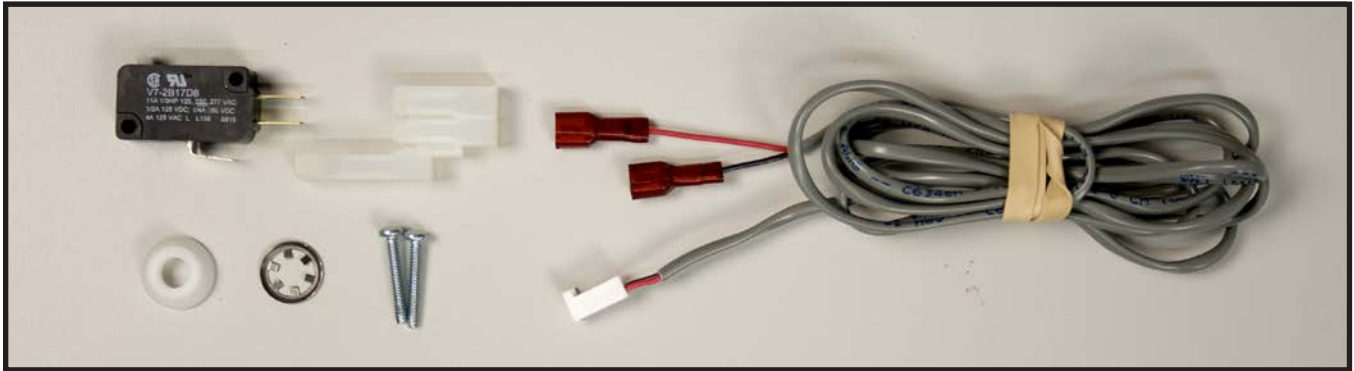


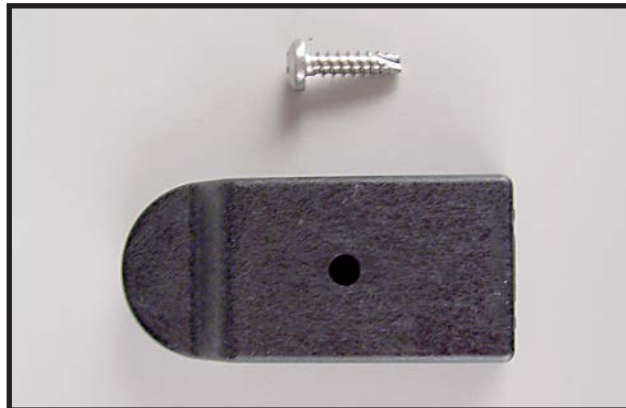
# Series Regeneration with V3014

## REQUIRED PARTS

### (1) V3014 Series Regen Micro Switch Kit



### (2) V3805 Strain Relief Cover Kits



# Series Regeneration with V3014

## Primary Valve

## Secondary Valve

Remove powercord.  
Use needle nose pliers to  
break out power cord spacer.

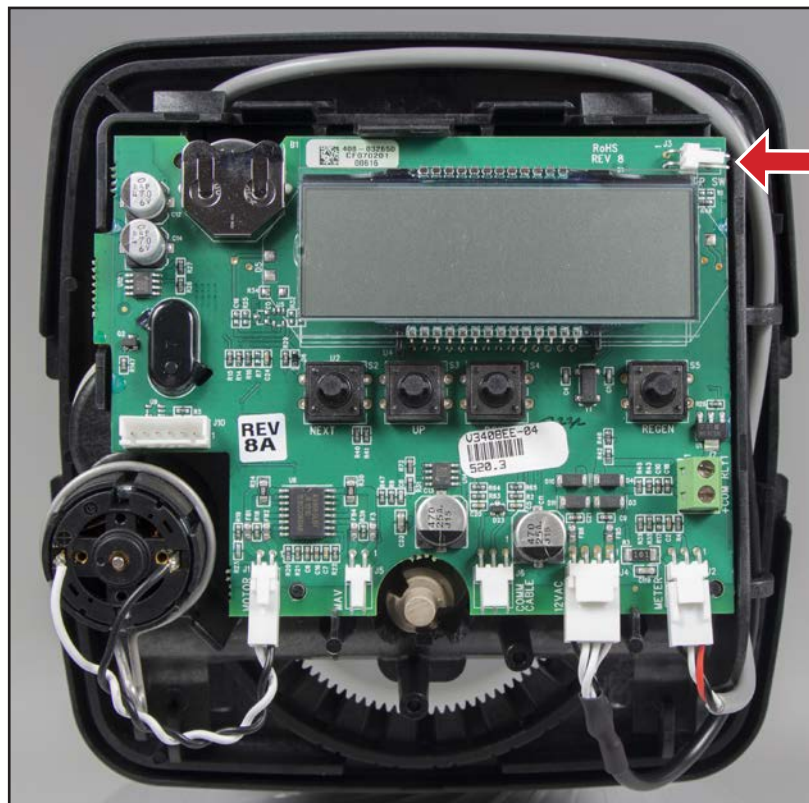
2 Pin DP Switch Connection  
of Secondary Unit  
(Time Clock Unit Shown)

Connect red insulated  
female connectors.

Orientate Washer  
With Bevel  
Towards Rear

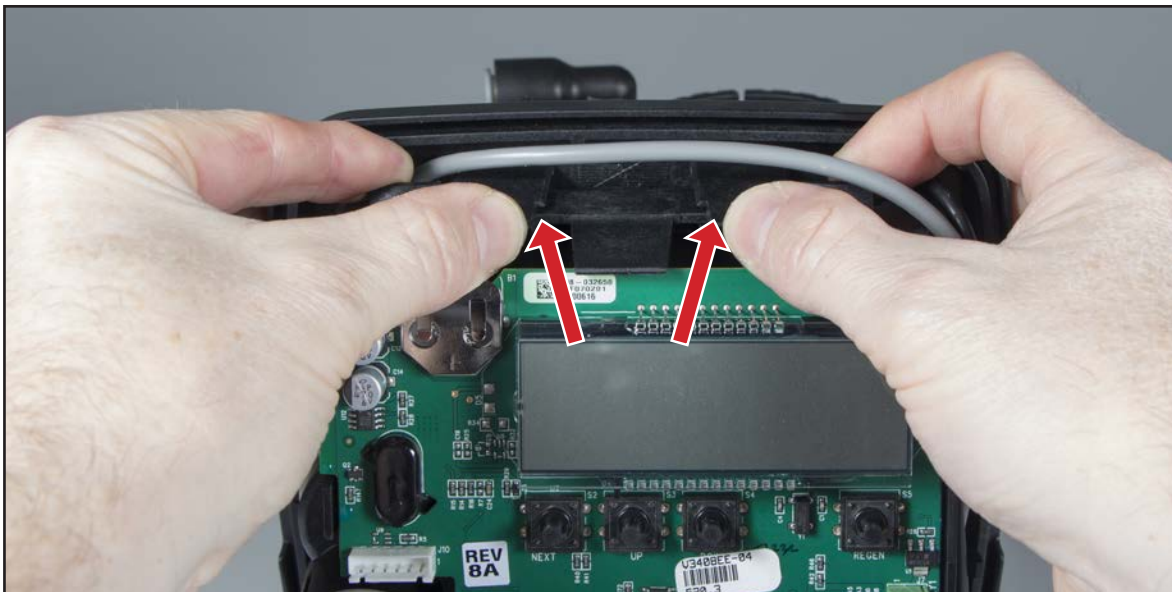
V3340 WS1 Interconnect Cable Cord Assembly is limited to 24V or less at ½ amp maximum. Increased limits may be obtained by using customer supplied cable assembly with higher approved rating.

# Series Regeneration with V3014



**DP Switch  
function  
and two pin  
connector**

1. You will need to remove the front covers of the valves. You are going to install the series regen kit on the control valve that will be deemed as the primary control valve. Make sure the valves PC Boards have the DP Switch function and two pin connector.



2. You will need to remove the valves drive bracket and PC Board from the backplate and disconnect the wires from the PC Boards.

# Series Regeneration with V3014



3. Once drive bracket is removed, locate knockout on backplate. You can use a punch or a Phillips screw driver and place it in the center of the knockout circle and tap it with a mild to medium force with a hammer to punch out circle knockout piece.



4. Now the washer (V3335) and retaining ring (V3305) of the V3014 series regen switch kit needs to be installed on the primary control valves piston rod. The washer must go onto the end of the piston rod followed by the retaining ring, make sure the retaining ring is pressed on and securely pushed against the washer.



# Series Regeneration with V3014

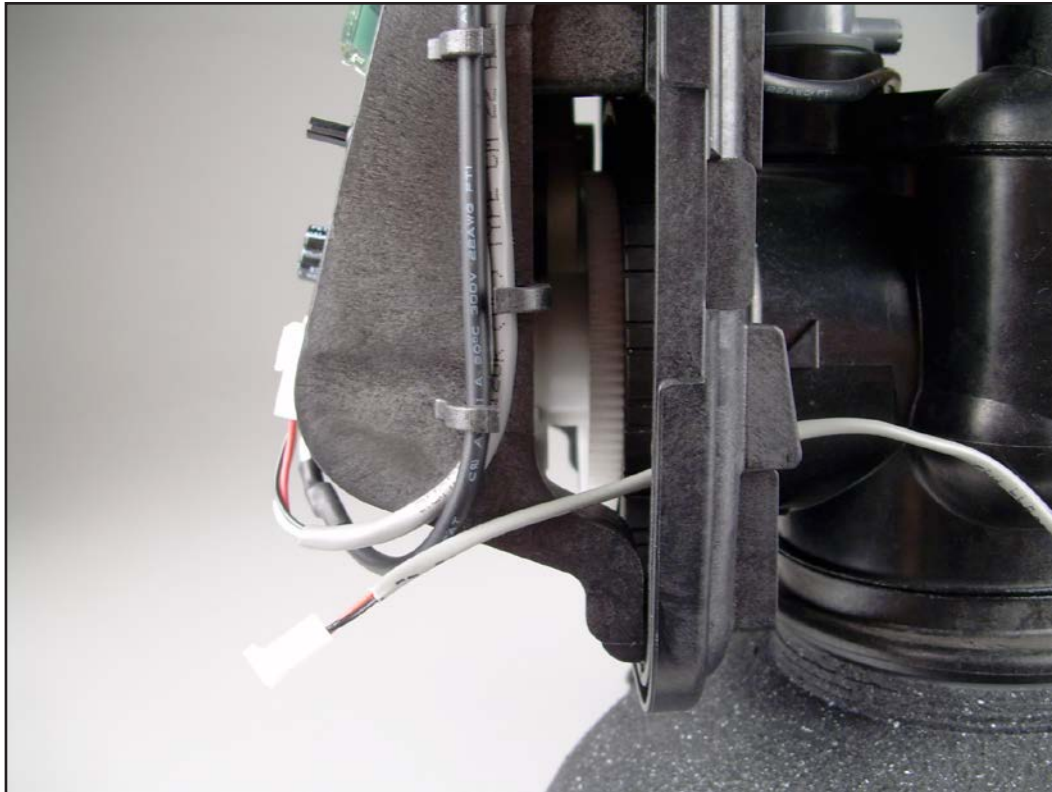


5. Re-install drive bracket assemblies and re-connect any disconnected wires back to the proper location on each PC Board.



- 6a. After snapping the drive bracket in you can take the end of V3340 interconnect cord that has the red insulated female connectors and bring it through the knock out on the backplate of the primary control valve.

# Series Regeneration with V3014



6b. Now you can take the other end of the V3340 interconnect cord that has the white molex two pin connector and bring it through the secondary valves knock out on the backplate and connect it to the PC Boards two pin connector labeled "DP SWITCH".

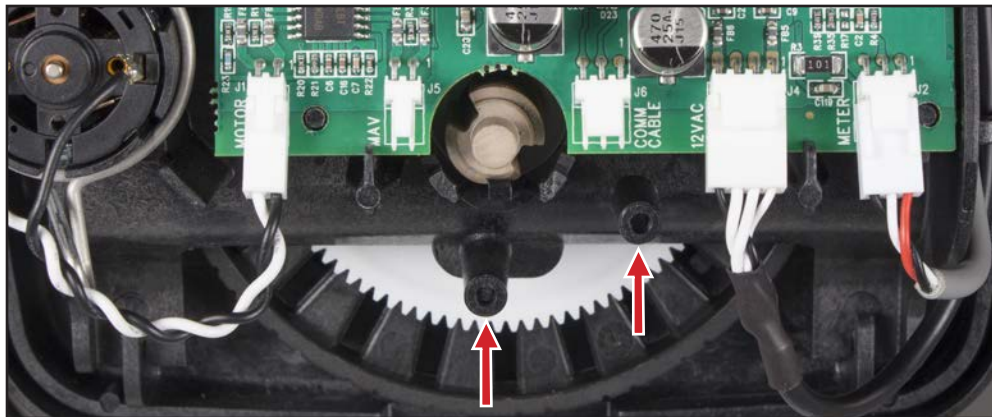


7a. On each valves backplate there are two strain reliefs, you will need to break out the lower tab on the left side on each control valve with needle nose pliers. Breaking out the lower tabs will allow for the cable to be weaved down through each strain relief. Make sure that the lower tab is broken out evenly with no sharp or rough fragments left behind.

# Series Regeneration with V3014



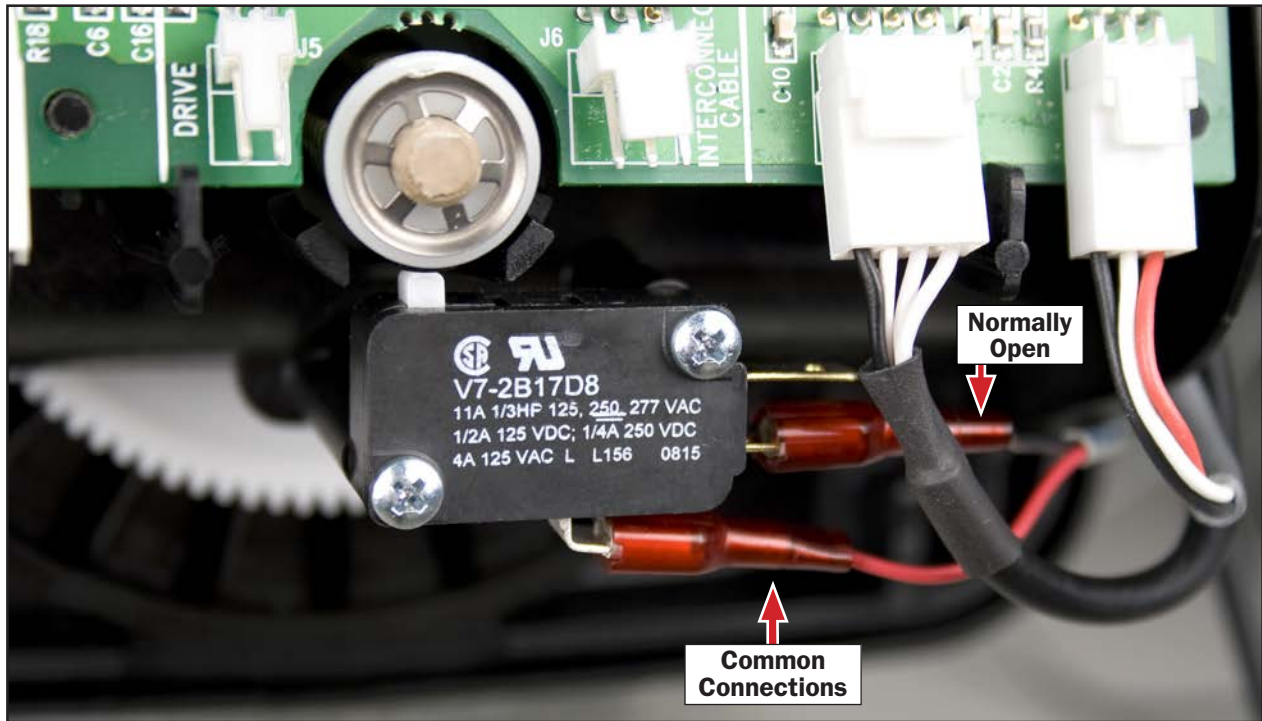
7b. Next you can use the V3805 strain relief cover kits to fasten over the top of the strain relief on each valve.



8. The primary valve will now need to have the micro switch from the V3014 kit with the two screws for each micro switch so that the switch can be mounted on the two posts just below the piston end and PC Board. Be careful not to over tighten the screws to where they crack the micro switch.



# Series Regeneration with V3014



9. The DP is a dry contact therefore it does not effect the operation if the red or black wires do not match the example. **Please make sure the normally open and common connections are used.**

**Primary Valve**

**Secondary Valve**



10. Next the wire with the white Molex connector end on the secondary control valve needs to be connected to the PC Boards two pin connector for the DP switch. Make sure all wires are connected to the proper connections before powering the valves and beginning to program.



# Series Regeneration with V3014

1. The primary control valve should be programmed so that the refill cycle occurs after the regeneration (i.e. Post fill). The primary control valve must be programmed for at least 6 minutes of refill or 9.5 lbs. of salt.
2. The PC board on the secondary control valve must have a two-pin connection (note the two-pin connector is not available on WS1 and WS1.25). The secondary control valve should be programmed so that the regeneration starts only when the primary control valve is in the refill cycle. This can be accomplished by programming the control valve so that the days between regenerations is long enough to prevent premature regeneration. If the secondary control valve has a meter, make sure that the gallon capacity is programmed to "oFF". Also program the secondary control valve so that the "dP" switch is set to regenerate immediately.
3. Test procedure for the assembly: Press and hold the REGEN button on the primary control valve. After the motor stops running press REGEN to step through the cycles until the primary control valve is in the refill cycle. The secondary control valve should begin its regeneration cycle within 2-6 minutes. If the secondary control valve does not begin its regeneration cycle within 2-6 minutes, check the orientation of the stepped washer, the interconnect cord connections and the secondary valve programming.

