

The Delco Water Drop

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DELCO WESTERN
SINCE 1978

What the Heck?

By Mat Player

Run Capacitors?

Trouble Shooting Single Phase Control Boxes

Do you ever have that job where the pump and motor are good, the control box looks good but your still tripping out the overload? The motor runs for a few minuets or hours before tripping. You run flow checks, pressure checks and everything seems OK, WHAT THE HECK?!?

This usually happens on control boxes with run capacitors, the reason is the run capacitor shares part of the load from the main winding. This lowers the overall amperage on the main overload keeping it within it full load of a given motor. With an open or bad run capacitor, the amperage on the main winding can slowly creep up after running for minutes or quickly trip the main overload in just a few seconds.



Check the amperage on the run winding (RED WIRE), you should be getting something if your control box has a run capacitor. If not, you run capacitor is probably open. You can also check the main winding amperage (BLACK WIRE). It is most likely running higher than it should be.

WHAT TO DO

With the power off you can check the run capacitor with an ohmmeter, it won't give you a MFD value but it will tell you if the capacitor is open or functioning properly.

Remove the leads from the capacitor. You may want to short out the capacitor first with a screwdriver to discharge it. Put your meter setting on Rx1 and place meter leads on cap terminals. The pointer should swing towards zero and then drift back towards infinity. If the pointer does not move, the capacitor is open and needs to be replaced. A swinging pointer shows capacitor is functioning properly and in most cases will still work. If you want to read MDF values, you will need a capacitor tester. Grainger is a good source for a tester. The cost is around \$100- 200.



In conclusion, we all know that trouble shooting single phase control boxes can be frustrating at times. Just keep you amp meter handy, check the run capacitor and know what the readings mean.

On the Job - Be Safe Out There

Compiled by Ken Wynder

Workplace safety is always important. Your workplace usually includes different locations, challenging terrain, and questionable weather conditions. When you factor in dealing with heavy equipment, large pipe and riggings, your safety challenge are many. We become familiar and even comfortable in our every day work environment. Being safe on the job should be constant throughout every day. Each job should be reviewed before mobilization. Develop and implement a "Health and Safety" program. Inventory and inspect all safety equipment that will be used. Personal protection equipment should include but may not be limited to the following:



- ◆ Hard Hat
- ◆ Safety Glasses
- ◆ Steel Toe Shoes
- ◆ Ankle and Leg Gators
- ◆ Gloves
- ◆ Work Bibs and Jackets
- ◆ First Aid Kit
- ◆ Fall Protection



You may have questions about your level of Safety Preparedness. Consider your needs and job requirements. There are several safety equipment purveyors in the valley. They usually carry a wide variety of items and sizes for whatever you need. Additional information about standards and requirements can be found on websites including www.utagroundwater.org and laborcommission.utah.gov/divisions/UOSH/index.html.

Did You Know?

While Easter is a Christian holiday celebrating the resurrection of Christ, the Easter bunny's roots go much deeper.



In pre-Christian Germany, they worshiped a god named Eostra who was the goddess of spring and fertility. Her symbol was the rabbit because of their high fertility rates.

Once Christianity was spread across Germany, the original traditions were merged with the new religion. Eggs were added to represent the rebirth of Christ.

Easter was brought to the United States by the German immigrants that settled Pennsylvania Dutch country.

Once the story was changed to a rabbit that laid eggs, nests were made for the rabbit to lay its eggs. Over the years, the nests were changed to Easter baskets.



Visiting/Delivery Schedule

4/10-11—So. Utah (Richfield, Hanksville, Moab, Blanding) - Darren

4/18—North/Logan - Rob

4/22-23—So. Utah (Panguitch, Cannonville, Cedar City, Enterprise, St. George) - Darren

4/25—Uintah Basin - Rob

4/29 - 5/2—WEAU - Layne/Ken

5/13-14—So. Utah (Richfield, Hanksville, Moab, Blanding) - Darren

5/16—North/Logan - Rob

5/23—Uintah Basin - Rob

5/29-30—So. Utah (Panguitch, Cannonville, Cedar City, Enterprise, St. George) - Darren

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Product Spotlight SUB-FACTORY ASSEMBLY CENTER IS UP AND RUNNING!

Delco Western is pleased to announce the expansion of our Grundfos certified sub-factory to include the 6" & 8" submersible pump line.

In an effort to reduce lead times and improve market availability, Delco Western has invested in our "SP" in-house assembly center. Now our dedicated business partners can have pumps in a matter of days or even hours! rather than weeks.

This program covers from 855 (85 gpm) to 1100S (1100 gpm).*

Delco Western continues to grow its partnership with Grundfos Pumps Corporation.

- ◆ Grundfos Certified Service Center
- ◆ Grundfos Warranty Center
- ◆ Grundfos CBS Inc. (PACO) Certified sub-factory (end suction centrifugals)
- ◆ Grundfos SP Certified sub-factory (submersible pumps)*

*excluding canned deep set pumps.

