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Where is the drain pump on a front load washer

Understanding what a pump capacitor does is the first step to being able to monitor its operations and address its shortcomings when it begins to fail and needs to be replaced. This quick guide give you the basic information you need to know on pump capacitors.Pump Capacitors ExplainedPump capacitors provide a critical function for many types of motors, most notably those found in Heating Ventilation and Air Conditioning (HVAC) systems and swimming pools. The capacitor works by giving the motor an extra push when it starts and throughout its operation to enhance efficiency and provide energy to the motor's electrical circuits. When it's working properly, it gives the motor the right balance between current and voltage to generate the motor's required rotational electrical field.Now that you know a little more about what pump capacitors do, let's take a closer look on the types of capacitors you'll come across. No matter the type of motor, you'll find one or both of the following: a start capacitor and/or a run capacitor. The start capacitor adds a little more torque when the motor starts up, and then it switches off once the motor reaches a certain speed. If the motor's speed drops below that benchmark, the start capacitor will kick back into gear to bring the motor up to speed. The run capacitor remains in operation for as long as the motor is running. It increases the motor's operational efficiency and provide a constant supply of voltage.Testing Pump CapacitorsIf you want to test either type of capacitor, you need a multimeter. Then, follow these instructions to determine how close to the capacitor's rating it's operating at: Set your digital meter to a capacitance setting or set your analog meter to measure resistance. Turn the power off and discharge the unit by laying a screwdriver across the two terminals to prevent shocking yourself. Disconnect the capacitor's wires and place the leads to your multimeter on the terminals. Check the reading. If it's within 6 percent of the capacitor's rating, you're good to go, as noted by Heartland Media's HVAC for Beginner's. If you get a reading that's lower than the capacitor specifications by more than 6 percent, consider capacitor replacement. Signs a Pump Capacitor Might Be Going BadWhen a pump capacitor begins failing, you'll often notice a humming noise and the motor might not run. Additionally, one of the earliest signs is visible leaking of an oily substance. You might notice the unit looks like it's bulging or you may start seeing readings that are substantially lower than the pump capacitor's rating. If you see a hole in the capacitor's vent, you know it's failed.Capacitor Replacement TipsBecause capacitors are vulnerable to power fluctuations, experts caution against using capacitors with lower ratings than what you already have. Ideally, use the same size or one that's rated a step higher. Look for the capacitor specifications on the motor's nameplate. As Industrial Equipment News notes, using a pump capacitor that isn't sized correctly can lead to effects like: Decreased motor speeds Increases in noise Temperature increase that can damage insulation, bearings and lead to loss of lubrication Diminished motor efficiency, increasing the amount of energy needed to run it Reduced lifespan of the motor and more frequent need for repairs MORE FROM QUESTIONSANSWERED.NET Tom Lohr is an avid home improvement enthusiast. He prefers to spend the money he saves on new tools and gardening supplies.This article will show you how to clean the drain pump filter on your front-loading washing machine.Tom LohrFour Washing Machine Loves You, Love It BackAt some point in modern history, major home appliances became ghastly expensive. Maybe they are better than before? Probably, bells and whistles and the king of useless functions, appliance online connectivity, drove up the price? I have no idea.But what I do know is that I have bought automobiles that cost less than the last washing machine I purchased.To be fair, there have been some improvements. Direct drive motors prevent the need for drive belts (that often break), and the front loaders supposedly hold more laundry, meaning fewer loads. Frankly, I don't see anything that justifies that latest and greatest model costing more than the GDP of some small nations. I do get a message on my TV now that lets me know when my washer is finished, a feature I find more annoying than helpful.Washing Machine Maintenance Is EssentialWith the investment required to get a decent washing machine set up to keep your clothes smelling fresh, you want to take care of it. No matter what you do, your washer will eventually need replacing, meaning another hefty sum you have to shell out. It is in your, and your washer's, best interest to keep it running as long as possible.Appliance longevity means performing the required routine maintenance. You do it for your car (don't you?), why wouldn't you do it for your washer? Fortunately, there is little required maintenance that you need to actually do, but your washing machine's owner manual (you have read it haven't you?) will guide you as to what needs done when. "If it gets clogged, your drain pump has to work harder, meaning it will fail sooner and result in a very costly repair. If you aren't cleaning your machine's drain pump filter regularly, now is a good time to start." What Does a Drain Pump Filter Do?An oft-overlooked or unknown required maintenance service is cleaning the drain pump filter. This keeps lots of crap out of your drain pump. If it gets clogged, your drain pump has to work harder, meaning it will fail sooner and result in a very costly repair. If you aren't cleaning your machine's drain pump filter regularly, now is a good time to start.Below is the procedure for cleaning out the drain pump filter for a newer LG washing machine. Most modern front loaders will be similar.Access panel near bottom of the front of the machineTom Lohr1. Locate the Access PanelOn most machines, there is an access panel somewhere on the front and near the bottom of the machine. You simply pull it open. Inside will be a plugged hose and the exterior end of the filter. Inside the access panelTom Lohr2. Drain the FilterThe hose is for draining the standing water out of the filter housing. It has a plug in it.Crab a large cup, remove the plug and allow the water to drain from the hose into the cup. There isn't that much water, but it will make a mess if you don't drain it first.Also, it drains slowly—this step could take around 10 minutes.Draining the filter after the plug has been removedTom LohrWhile the procedure on your particular model may vary, you typically unscrew the filter and remove it by rotating it counter-clockwise.Make note of any orientation marks on the filter and the filter housing to ensure it will be properly aligned when reinstalling. Note the green marks in the photo.Try not to puke. That is not a dead mouse in the filter, but it looks like oneTom Lohr4. Clean the FilterHow nasty your filter is depends greatly on what you have been washing and how long ago you cleaned it out last.Have never cleaned it out? Pro tip: don't clean it anywhere near mealtime. The muck in the filter will be a combination of lint, hair, soap residue and other unidentifiable slime. Pull what you can out with your fingers, and rinse the rest out with running water.Same filter 60 seconds laterTom Lohr5. Reinstall the FilterSimply put the filter back in the way you took it out. If there are any orientation marks, ensure that they are aligned. Notice the green alignment marks on the filter and filter housingTom Lohr6. IMPORTANT: Replace the Plug in the Drain HoseWant to know how to make a really wet and nasty mess in your laundry room? Leave the plug out of the drain hose.All of the water from the drain pump won't escape from the hose, but enough will to make you miserable for a few hours. After you replace the plug and secure the hose, close the access panel.This is the same photo as above, but I know you wanted to see it one more timeTom LohrWash, Rinse, Repeat Set a reminder on your phone's calendar, or your paper calendar, or tell Alexa to remind you—or at least ensure someone that remembers better than you do to clean the filter regularly. Once a quarter is a good idea. And if your washer seems to be straining to drain in the future, the filter is a good place to look to begin troubleshooting.It came very close to moving to a place near a river and getting some rocks to beat my clothes on after pricing my latest washing machine. In the end, my disdain for laundry won out and I went the easy route and cashed in my retirement plan to buy one. I'll still be working when I'm 90, but my clothes will smell spectacular.This content is accurate and true to the best of the author's knowledge and is not meant to substitute for formal and individualized advice from a qualified professional.Mark Bennis from Wellingborough, Northamptonshire, United Kingdom. on April 20, 2021.A great hub with top tips! This will be very helpful to many I am sure, thank you.

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