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## UpStart Components DC31-00054A

# DC31-00054A Washer Drain Pump Replacement User Manual

Model: DC31-00054A | Brand: UpStart Components

## INTRODUCTION

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This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of the UpStart Components DC31-00054A Washer Drain Pump Replacement. This component is designed to replace the original drain pump in compatible Samsung washing machines, including model WA456DRHDSU/AA-0002, ensuring proper water drainage during wash cycles.

## SAFETY INFORMATION

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Before attempting any repair or replacement, please read and understand all safety precautions. Failure to follow these instructions may result in personal injury, property damage, or electric shock.

- **Disconnect Power:** Always unplug the washing machine from the electrical outlet and turn off the circuit breaker before beginning any service or repair.
- **Wear Protective Gear:** Use appropriate personal protective equipment, such as gloves and eye protection.
- **Drain Water:** Ensure all water is drained from the washing machine before accessing internal components.
- **Professional Assistance:** If you are unsure about any step or uncomfortable performing the repair, consult a qualified appliance technician.
- **Sharp Edges:** Be aware of sharp edges or components inside the machine.

## SPECIFICATIONS

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Attribute	Value
Brand	UpStart Components
Style	Drain Pump
Power Source	AC/DC
Manufacturer	UpStart Components

**Compatible Part Numbers:** DC31-00054A, AP4202690, 1534541, DC31-00016A, PS4204638

## INSTALLATION GUIDE

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This section outlines the general steps for replacing a washer drain pump. Specific access procedures may vary by washing machine model. Refer to your washing machine's service manual for detailed disassembly instructions.

### 1. Prepare the Washer:

- Unplug the washing machine from the wall outlet.
- Turn off the water supply valves to the washer.
- Disconnect the water inlet hoses from the back of the washer.
- Place towels or a shallow pan under the drain hose to catch any residual water, then disconnect the drain hose.
- Carefully tilt the washer backward or lay it on its side (depending on model access) to expose the bottom or rear panel where the drain pump is located.

### 2. Locate and Access the Drain Pump:

- Identify the drain pump, typically located at the bottom front or rear of the washer. It is usually connected to the tub and drain hose by rubber hoses and secured by clamps or screws.
- You may need to remove a front or rear access panel to reach the pump.

### 3. Remove the Old Drain Pump:

- Using pliers or a screwdriver, loosen the clamps securing the hoses to the old pump.
- Carefully detach the hoses, being prepared for any remaining water to spill out.
- Disconnect the electrical wiring harness from the pump motor. Note the orientation of the wires if they are not keyed.
- Unscrew any mounting screws or release any clips holding the pump in place.
- Remove the old drain pump.

### 4. Install the New Drain Pump:

- Position the new UpStart Components DC31-00054A drain pump in the same location as the old one.
- Secure it with the mounting screws or clips.
- Reconnect the electrical wiring harness to the new pump motor, ensuring a secure connection.
- Attach the hoses to the new pump and secure them tightly with the clamps. Ensure there are no kinks or twists in the hoses.

### 5. Reassemble and Test:

- Reattach any access panels removed earlier.
- Carefully return the washing machine to its upright position.
- Reconnect the water inlet hoses and the drain hose.
- Turn on the water supply valves.
- Plug the washing machine back into the electrical outlet and turn on the circuit breaker.
- Run a short wash cycle with no laundry to check for leaks and proper drainage. Observe the pump's operation.

## OPERATION

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The DC31-00054A drain pump operates automatically as part of your washing machine's cycle. Its primary function is to remove water from the wash tub during the drain and spin phases. When the washer signals for water removal, the pump activates, drawing water out of the tub and expelling it through the drain hose.

## MAINTENANCE

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While the drain pump itself requires minimal maintenance, regular care of your washing machine can help prolong the life of the pump and prevent issues.

- **Clean the Drain Filter:** Many washing machines have a drain pump filter or coin trap that should be cleaned periodically (e.g., every few months) to prevent lint, coins, or small objects from clogging the pump. Refer to your washer's user manual for filter location and cleaning instructions.
- **Avoid Overloading:** Overloading the washer can put undue stress on all components, including the drain pump.
- **Use Proper Detergent:** Use only high-efficiency (HE) detergent in HE washers to prevent excessive suds that can hinder drainage.
- **Check Hoses:** Periodically inspect the drain hose for kinks or blockages.

## TROUBLESHOOTING

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If your washing machine is experiencing drainage issues after replacing the pump, consider the following common problems and solutions:

- **Washer Not Draining:**
  - **Check Drain Hose:** Ensure the drain hose is not kinked, blocked, or inserted too far into the standpipe.
  - **Inspect Drain Filter/Trap:** A clogged filter is a common cause of drainage issues. Clean it thoroughly.
  - **Verify Power to Pump:** Ensure the electrical connection to the pump is secure and that the pump is receiving power during the drain cycle.
  - **Foreign Objects:** Small items might be stuck in the pump impeller. Disconnect power and inspect the impeller area.
- **Noisy Drain Pump:**
  - **Foreign Objects:** A rattling or grinding noise often indicates a foreign object (e.g., coin, button) caught in the impeller. Disconnect power and inspect.
  - **Improper Installation:** Ensure the pump is securely mounted and not vibrating against other

components.

- **Water Leaking from Pump Area:**

- **Loose Hose Clamps:** Tighten all hose clamps connected to the pump.
- **Damaged Hoses:** Inspect hoses for cracks or tears and replace if necessary.
- **Improper Seal:** Ensure the pump is correctly seated and sealed if it uses a gasket.

If troubleshooting steps do not resolve the issue, further diagnosis by a qualified technician may be required.

## PRODUCT IMAGES

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**Image 1:** The UpStart Components DC31-00054A Washer Drain Pump, showcasing the product and brand logo. This is the main view of the replacement part.



**Image 2:** A detailed view of the drain pump's impeller, which is responsible for moving water. This shows the internal mechanism that propels water out.



**Image 3:** The rear perspective of the drain pump, highlighting the motor housing and electrical connection points. This view is important for understanding how the pump connects to the washer's electrical system.



**Image 4:** A side profile of the drain pump, illustrating its compact design and the various connection points for hoses and wiring. This view helps in understanding its physical dimensions and how it fits into the appliance.

## WARRANTY AND SUPPORT

For specific warranty information regarding your UpStart Components DC31-00054A Washer Drain Pump Replacement, please refer to the packaging or contact UpStart Components directly. For technical support or further assistance with installation and troubleshooting, please reach out to the manufacturer's customer service or visit their official website.

*Note: This manual provides general guidance. Always prioritize safety and consult a professional if you are uncertain about any repair procedures.*

