

W10913953

Compatible Washing Machine Shift Actuator Instruction Manual

Model: W10913953

1. INTRODUCTION

This document provides comprehensive instructions for the installation, operation, and maintenance of the W10913953 Compatible Washing Machine Shift Actuator. This component is designed as a replacement part for various washing machine models, addressing common issues related to agitation and spinning.

Important Note: This is a generic replacement product and is not an Original Equipment Manufacturer (OEM) part. It is not covered under any OEM manufacturer's warranty. Any use of OEM brand names or model designations is solely for demonstrating compatibility.

2. PRODUCT OVERVIEW

The shift actuator is a critical component in a washing machine's drive system, responsible for shifting the transmission between agitation and spin cycles. This replacement part is engineered to meet the functional requirements of the original component.



Figure 2.1: Top-down view of the W10913953 Compatible Washing Machine Shift Actuator, showing the motor and main housing.

Key Features:

- Replacement for part numbers W10815026, 4455082, AP6037270, and PS11769864.
- Features a synchronous motor (AC 120V, 60HZ, 4W, 30mA, 3RPM CW).
- Equipped with a 6-prong receptacle for electrical connection.
- Designed to resolve issues such as the washer pumping but not spinning, or not agitating.

3. COMPATIBLE MODELS

This shift actuator is compatible with a wide range of washing machine models from various brands. Please verify your appliance's model number for exact compatibility.

Known Compatible Brands:

- Whirlpool
- Kenmore
- Admiral
- Amana
- Estate
- Sears
- Roper
- Maytag

Specific Maytag Models (Examples):

- MVWC565FW1
- MVWP475EW0

- 7MMVWC565FW1
- MVWC465HW0
- MVWC415EW2
- 7MMVWC465JW0
- MVWX655DW0

4. TECHNICAL SPECIFICATIONS

Detailed specifications for the W10913953 Shift Actuator are provided below:

Specification	Value
Model Name	Shift Actuator
Part Number	W10913953
Voltage	120 Volts AC
Frequency	60 Hz
Power Consumption	4 Watts
Current	30 mA
Speed	3 RPM (Clockwise)
Product Dimensions	4.4 x 3.4 x 1.7 inches
Included Components	1 x Washing Machine Shift Actuator



Figure 4.1: Side view of the shift actuator, highlighting the motor specifications label.

5. INSTALLATION GUIDE

Replacing a washing machine shift actuator requires basic mechanical skills. If you are unsure about any step, it is recommended to consult a qualified technician.

Safety Precautions:

- **Always disconnect the washing machine from the power supply** by unplugging it before beginning any repair or maintenance.
- Turn off the water supply to the washing machine.
- Wear appropriate personal protective equipment, such as gloves.

Tools Required:

- Nut driver set or socket wrench set
- Screwdriver set (Phillips and flathead)
- Pliers
- Work light (optional)

Step-by-Step Installation:

1. **Prepare the Washer:** Disconnect the washer from the electrical outlet and turn off the water supply. Pull the washer away from the wall to allow access to the rear.
2. **Access the Actuator:** Depending on your washer model, you may need to remove the back panel or tilt the washer forward to access the bottom. For many top-load models, the actuator is located underneath the tub, near the motor.
3. **Locate the Actuator:** Identify the existing shift actuator. It will typically be a small motor assembly with wires connected to it.
4. **Disconnect Wiring:** Carefully disconnect the electrical connector from the old actuator. Note the orientation of the wires if there are multiple connections, though this actuator uses a single 6-prong receptacle.
5. **Remove Old Actuator:** Unscrew or unclip the old actuator from its mounting bracket. There may be a lever or arm connected to the transmission that needs to be detached.
6. **Install New Actuator:** Position the new W10913953 shift actuator in place. Secure it with the screws or clips removed earlier. Ensure the lever or arm is correctly engaged with the transmission mechanism.
7. **Connect Wiring:** Reconnect the electrical connector to the new actuator. Ensure it clicks securely into the 6-prong receptacle.
8. **Reassemble Washer:** Replace any panels or covers that were removed. Carefully push the washer back into its original position.
9. **Test Operation:** Reconnect the washer to the power supply and turn on the water. Run a short test cycle (e.g., a rinse and spin cycle) to ensure the actuator is functioning correctly and the washer agitates and spins as expected.



Figure 5.1: Close-up view of the 6-prong electrical receptacle on the shift actuator.

6. OPERATING PRINCIPLES

The shift actuator plays a crucial role in the washing machine's operational cycle. During the wash and rinse cycles, the actuator engages the agitator for agitation. When the machine transitions to the spin cycle, the actuator shifts the transmission to disengage the agitator and engage the spin basket, allowing it to rotate at high speed to remove water from the clothes.

The synchronous motor within the actuator precisely controls this shifting mechanism based on signals from the washer's control board. Its consistent 3 RPM clockwise rotation ensures reliable engagement and disengagement of the wash and spin modes.



Figure 6.1: Translucent view of the shift actuator, revealing the internal gear mechanism responsible for shifting.

7. MAINTENANCE

The W10913953 Compatible Washing Machine Shift Actuator is a sealed unit and does not require routine maintenance or lubrication. Its design is intended for long-term, reliable operation.

To ensure the longevity of your washing machine and its components, it is advisable to:

- Keep the area around the washing machine clean and free of debris.
- Avoid overloading the washer, as this can put undue stress on drive components.
- Address any unusual noises or operational issues promptly to prevent further damage.

8. TROUBLESHOOTING COMMON ISSUES

The W10913953 shift actuator is designed to resolve specific operational problems in compatible washing machines. If your washer exhibits the following symptoms, replacing the shift actuator may resolve the issue:

- **Washer pumps but will not spin:** This indicates that the actuator is failing to shift the transmission into the spin mode.
- **Washer will not agitate:** If the agitator does not move during the wash cycle, the actuator may not be engaging the agitation mode correctly.
- **Washer spins slowly:** A faulty actuator can lead to incomplete engagement of the spin cycle, resulting in slow or weak spinning.

If these symptoms persist after replacing the actuator, further diagnosis of other washing machine components (e.g., motor, control board, drive belt) may be necessary.

9. WARRANTY INFORMATION

This Compatible Washing Machine Shift Actuator comes with a **1-month warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

Please retain your proof of purchase for any warranty claims. The warranty does not cover damage resulting from improper installation, misuse, accident, or unauthorized repairs.

10. SUPPORT

For technical assistance, installation queries, or warranty claims, please contact the seller or manufacturer directly through the platform where the product was purchased. Provide your order details and a clear description of the issue to facilitate prompt support.

Manufacturer: HomePartsStore

UPC: 054047536855