

## Fisher & Paykel 420094USP

# Fisher & Paykel 420094USP Washer Motor Controller 120V Instruction Manual

Model: 420094USP

## 1. INTRODUCTION

This manual provides essential information for the proper installation, function, maintenance, and troubleshooting of the Fisher & Paykel 420094USP Washer Motor Controller 120V. This component is an authorized OEM part designed to fit various Fisher & Paykel brand washing machine models. Please read this manual thoroughly before attempting any installation or repair to ensure safety and correct operation.

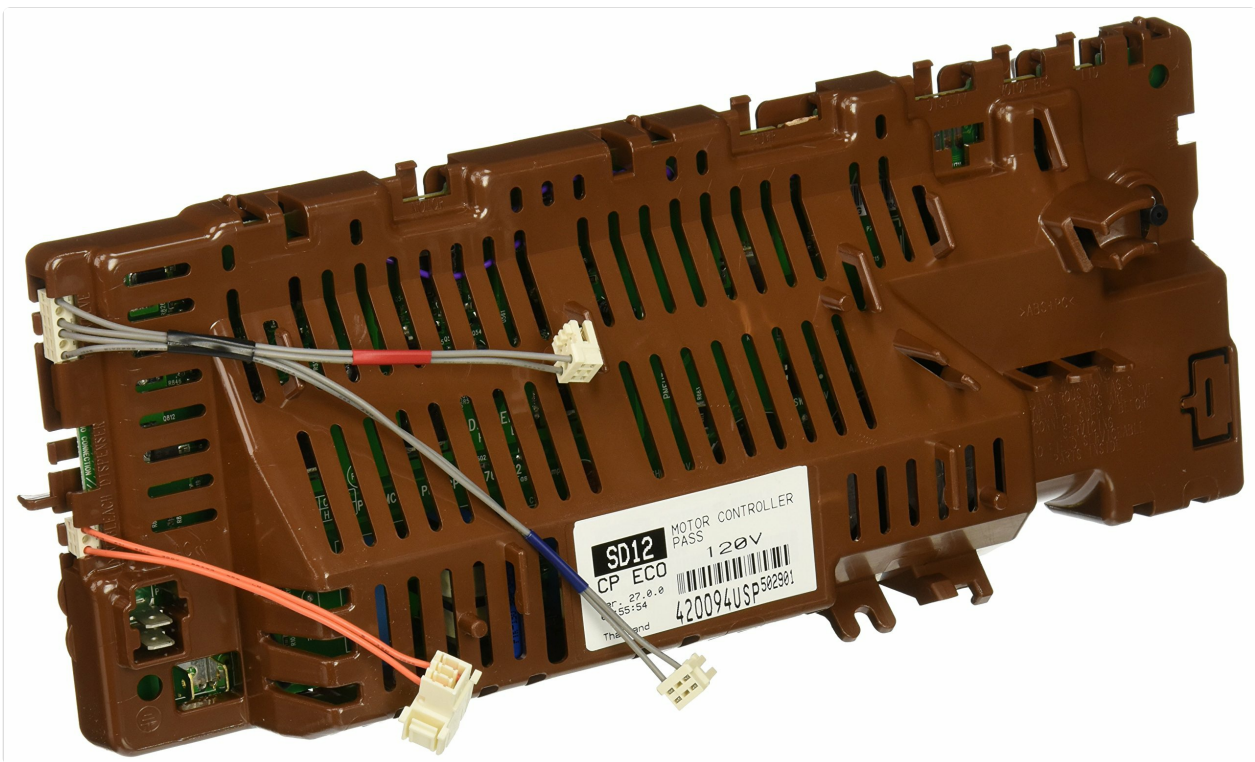
## 2. SAFETY INFORMATION

Always prioritize safety when working with electrical appliances. Failure to follow these safety guidelines may result in electric shock, injury, or damage to the appliance.

- **Disconnect Power:** Always ensure the washing machine is completely disconnected from the main power supply before beginning any installation, maintenance, or repair work.
- **Qualified Personnel:** Installation and repair should ideally be performed by a qualified technician. If you are not experienced with appliance repair, consult a professional.
- **Handle with Care:** Electronic components are sensitive. Handle the motor controller carefully to avoid damage from static electricity or physical impact.
- **Correct Part Identification:** Verify that the part number **420094USP** matches the required component for your specific washing machine model. Note that part 420094USP is distinct from part 420094 and they are not interchangeable without significant modifications.
- **Wiring:** Pay close attention to all wiring connections. Incorrect wiring can lead to malfunction or damage.

## 3. PRODUCT OVERVIEW

The Fisher & Paykel 420094USP is a 120V motor controller for washing machines. This component is crucial for regulating the operation of the washer's motor, ensuring proper wash cycles and spin speeds. It is an Original Equipment Manufacturer (OEM) authorized replacement part, designed to meet the specifications of compatible Fisher & Paykel models.



**Image 1:** The Fisher & Paykel 420094USP Washer Motor Controller. This image displays the brown plastic casing of the controller with various wire harnesses connected to its ports. A label on the controller clearly shows 'MOTOR CONTROLLER', 'SD12', 'CP ECO', '120V', and the part number '420094USP502901'.

## 4. SETUP AND INSTALLATION

This section provides general guidance for replacing the motor controller. Always refer to your specific washing machine's service manual for detailed, model-specific instructions.

### 4.1 Pre-Installation Steps

1. **Disconnect Power:** Unplug the washing machine from the electrical outlet.
2. **Access the Controller:** Depending on your washer model, you may need to remove the back panel, top panel, or other access covers to reach the motor controller.
3. **Document Connections:** Before disconnecting any wires, take clear photographs or make detailed diagrams of all wire connections to the existing motor controller. Note the color and position of each wire.

### 4.2 Installation Procedure

1. **Remove Old Controller:** Carefully disconnect all wire harnesses and mounting screws securing the old motor controller.
2. **Install New Controller:** Position the new 420094USP motor controller in the same location as the old one. Secure it with the appropriate mounting hardware.
3. **Connect Wiring:** Using your documented photographs or diagrams, carefully reconnect all wire harnesses to the new controller. Ensure each connection is secure and correctly seated.
4. **Verify Part Number:** Double-check that you have installed the **420094USP**. This part is not directly interchangeable with the 420094 model due to differences in pin configurations for pump/motor and diverter connections. Attempting to use the wrong part may require rewiring and could lead to damage or improper function.
5. **Reassemble Washer:** Replace all access panels and covers that were removed.
6. **Restore Power:** Plug the washing machine back into the electrical outlet.

## 5. FUNCTION AND OPERATION

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The 420094USP motor controller acts as the brain for the washing machine's motor. It receives signals from the main control board and translates them into commands for the motor, dictating speed, direction, and duration of rotation during various cycles (wash, rinse, spin). Proper functioning of this controller is essential for the washer to complete its cycles effectively.

## 6. MAINTENANCE

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The Fisher & Paykel 420094USP motor controller is designed for durability and typically requires minimal maintenance. However, adhering to general appliance care can prolong its lifespan:

- **Keep Dry:** Ensure the area around the motor controller remains dry. Moisture can cause electrical shorts and damage.
- **Inspect Connections:** Periodically, with power disconnected, inspect wire connections for any signs of corrosion or looseness.
- **Preventative Measures:** Some washer designs may expose components like the drain pump to moisture, which can lead to failures that affect the motor controller. Consider installing an inline fuse on the drain pump if your washer model is prone to such issues, as this can help protect the control board.

## 7. TROUBLESHOOTING

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If your washing machine is experiencing issues after replacing or with an existing 420094USP motor controller, consider the following troubleshooting steps. Always disconnect power before inspecting components.

- **Washer Not Starting/Operating Erratic:**
  - Verify all wire connections are secure and correctly installed.
  - Ensure the correct part (420094USP) was installed, as the 420094 model is not a direct substitute.
  - Check for error codes displayed on the washer's control panel and consult your washer's user manual for their meaning.
- **Motor Not Spinning/Agitating:**
  - Inspect the motor itself for any visible damage or obstructions.
  - Consider checking the rotor sensor. A faulty rotor sensor can mimic motor controller issues. Ensure its clearcoat is intact, especially in moist environments.
- **Intermittent Operation (e.g., stops at rinse cycle):**
  - This could indicate a failing controller or an issue with other components. Professional diagnosis is recommended.
- **No Power to Controller:**
  - Check the main power supply to the washer and any internal fuses.

If troubleshooting does not resolve the issue, it is advisable to consult a certified appliance technician.

## 8. SPECIFICATIONS

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Feature	Specification
Brand	Fisher & Paykel
Part Number	420094USP
Item Model Number	420094USP
Voltage	120V
Item Weight	1.68 pounds
Product Dimensions	15 x 6 x 4 inches
Material	Plastic

## 9. WARRANTY AND SUPPORT

This Fisher & Paykel 420094USP Washer Motor Controller is covered by the manufacturer's standard warranty. For specific warranty terms, conditions, and duration, please refer to the documentation provided with your purchase or contact Fisher & Paykel customer support directly.

For technical assistance, parts inquiries, or to locate authorized service centers, please visit the official Fisher & Paykel website or contact their customer service department. When contacting support, have your washing machine's model and serial number, along with the motor controller's part number (420094USP), readily available.