

Peerless RP42096

Peerless RP42096 Faucet Stem Cartridge Kit

INSTRUCTION MANUAL

1. Introduction

This manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of the Peerless RP42096 Faucet Stem Cartridge Kit. This kit is designed to replace worn or damaged stem cartridges and bonnet nuts in compatible Peerless and Delta faucets, effectively resolving leaks and restoring proper faucet function.

The RP42096 kit is compatible with various faucet models, including P299196LF*, P299305LF*, P99305*, P99170LF*, P99191LF*, P2765LF*, P99174LF*, P99355*, P99110*, P99121*, P99128*, P99174LF*, P99191LF*, P99170LF*, P99196LF*, P99196*, P86020*, P86010*, B3511LF, B3512LF, B3596LF, 35984LF, 35991LF, 35996LF. Always verify compatibility with your specific faucet model before proceeding with installation.

2. Safety Information

Always prioritize safety when performing plumbing repairs. Failure to follow these safety guidelines may result in personal injury or property damage.

- **Turn off Water Supply:** Before beginning any work, locate and turn off the main water supply to the faucet or the entire house. Open the faucet handles to relieve any remaining water pressure.
- **Wear Protective Gear:** Use appropriate personal protective equipment, such as safety glasses and gloves, to prevent injury.
- **Use Correct Tools:** Ensure you have the necessary tools for the job and use them correctly.
- **Electrical Safety:** If working near electrical outlets or appliances, ensure they are turned off or disconnected to prevent electrical hazards.
- **Chemicals:** Be cautious with any cleaning agents or lubricants. Follow manufacturer instructions and ensure adequate ventilation.

3. Installation Instructions

Follow these steps carefully to install the Peerless RP42096 Faucet Stem Cartridge Kit.



Image 1: Peerless RP42096 Faucet Stem Cartridge Kit, showing the stem cartridge and bonnet nuts.

Preparation:

1. **Turn Off Water Supply:** Ensure the hot and cold water supplies to the faucet are completely turned off. Open the faucet handles to drain any residual water and relieve pressure.
2. **Remove Aerator (Optional but Recommended):** Carefully unscrew the aerator from the tip of the spout. This prevents hard water deposits dislodged during the repair from clogging the aerator screen. Clean the screen if necessary.

Disassembly:

3. **Access Under Sink:** Go under the sink to access the faucet connections.
4. **Remove Faucet Handle:** Locate the screw holding the faucet handle in place. This may be a hidden Allen screw or a Phillips screw under a decorative cap (often marked 'H' or 'C'). Remove the screw and lift off the handle.
5. **Remove Bonnet Nut:** Using large pliers or an adjustable wrench, carefully unscrew the bonnet nut. This is the silver nut that holds the valve in place. Old nuts may be corroded and difficult to remove; the kit includes new ones, so minor damage to the old nut is acceptable.
6. **Remove Old Valve and Components:** Once the bonnet nut is removed, lift out the old stem cartridge. Use paper towels to absorb any remaining water in the valve housing. Inside the housing, you will find a rubber washer and a spring. Remove both the old washer and spring.
7. **Clean Housing:** Clean any hard water deposits or debris from the valve housing.

Re-assembly:

8. **Install New Washer and Spring:** Place the new spring into the housing with the wider end facing down. Gently press the new rubber washer into place over the narrow end of the spring.
9. **Insert New Stem Cartridge:** Carefully insert the new stem cartridge into the housing. Ensure it is properly seated.
10. **Tighten New Bonnet Nut:** Screw on the new bonnet nut and tighten it securely with pliers or an adjustable wrench. Do not overtighten.

11. **Check for Leaks (Initial):** Turn on the water supply to the repaired side of the faucet. Check for any leaks around the bonnet nut, both above and below the countertop. If leaks occur, tighten the bonnet nut slightly more.
12. **Re-install Faucet Handle:** Place the faucet handle back onto the stem and secure it with its screw.
13. **Repeat for Other Side (if applicable):** If repairing both hot and cold sides, repeat steps 3-12 for the other valve.
14. **Re-install Aerator:** Screw the aerator back onto the spout.
15. **Purge Air:** Turn on both hot and cold water supplies completely and open the faucet handles for a few seconds to purge any air from the lines and restore proper water flow.

4. Operation

After successful installation, your faucet should operate smoothly. Turn the handle to control water flow and temperature. If the handle turns in the opposite direction than expected (e.g., turning clockwise for 'on' instead of 'off'), you may need to adjust the stem cartridge orientation. Refer to the Troubleshooting section for guidance.

5. Maintenance

Regular maintenance can extend the life of your faucet and its components:

- **Clean Aerator:** Periodically remove and clean the faucet aerator to remove mineral deposits and ensure consistent water flow.
- **Check for Leaks:** Regularly inspect your faucet for any signs of dripping or leaks. Addressing minor leaks promptly can prevent larger issues.
- **Avoid Harsh Cleaners:** Use mild soap and water for cleaning the faucet's exterior. Avoid abrasive cleaners or chemicals that can damage the finish.

6. Troubleshooting

If you encounter issues after installing the RP42096 kit, refer to the following common problems and solutions:

- **Faucet Still Leaks:**
 - Ensure the bonnet nut is tightened sufficiently, but do not overtighten.
 - Verify that the new rubber washer and spring are correctly seated in the valve housing.
 - Check for any debris or damage in the valve housing or on the new cartridge.
- **Handle Turns Water On/Off in Opposite Direction:**
 - This can occur if the stem cartridge is installed 180 degrees from its correct orientation. Turn off the water supply, remove the handle and bonnet nut, rotate the stem cartridge 180 degrees, and reassemble. The taller end of the cartridge should typically face the faucet body.
- **Low Water Flow:**
 - Check if the aerator is clogged with debris. Clean it if necessary.
 - Ensure the water supply valves under the sink are fully open.

7. Specifications

Manufacturer	Delta Faucet
Part Number	RP42096
Item Weight	3.2 ounces
Product Dimensions	2 x 2 x 1 inches
Item Model Number	RP42096
Item Package Quantity	1
Usage	Inside
Included Components	Product Only (Stem Cartridge Kit)

8. Warranty and Support

This Peerless RP42096 Faucet Stem Cartridge Kit is covered by a **Lifetime Faucet and Finish Limited Warranty**. For detailed warranty information, claims, or technical support, please refer to the official Peerless or Delta Faucet website or contact their customer service directly. Keep your purchase receipt as proof of purchase.