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> [RYOBI S-122PC1 Door Closer Instruction Manual](#)

## RYOBI S-122PC1

# RYOBI S-122PC1 Door Closer

## INSTRUCTION MANUAL

### 1. Introduction

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Thank you for purchasing the RYOBI S-122PC1 Door Closer. This manual provides essential information for the safe and correct installation, operation, and maintenance of your new door closer. Please read this manual thoroughly before installation and keep it for future reference.

The RYOBI S-122PC1 is a high-quality door closer designed for moving partition doors and interior wood doors. It features a 3-valve adjustment system for precise control over closing speed and latching action, with a built-in stop device for a clean aesthetic.

### 2. Safety Information

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Always observe the following safety precautions to prevent injury or damage to the product.

- Read all instructions carefully before installation and use.
- Ensure all components are present and undamaged before beginning installation.
- Use appropriate tools and wear personal protective equipment (e.g., safety glasses, gloves) during installation.
- Do not modify the door closer or its components. Unauthorized modifications can lead to malfunction and void the warranty.
- Keep hands and fingers clear of moving parts during operation and adjustment.
- Ensure the door closer is securely fastened to the door and frame according to the instructions to prevent detachment.
- If you encounter any difficulties or have questions, contact RYOBI customer support.

### 3. Package Contents

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Verify that all the following items are included in your package:

- RYOBI S-122PC1 Door Closer Unit
- Main Arm Assembly

- Parallel Arm Bracket (for parallel installation)
- Mounting Screws and Fasteners
- User Manual (this document)
- Installation Template (if included)

## 4. Specifications

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Feature	Description
Model Number	S-122PC1
Type	Parallel Arm Door Closer
Valve Adjustment	3 Valve Adjustment (Latching Action, Closing Speed: Second Speed)
Compatible Door Size (Width)	Up to 35.4 inches (900 mm)
Compatible Door Size (Height)	Up to 82.7 inches (2100 mm)
Compatible Door Weight	55.3 - 99.3 lbs (25 - 45 kg)
Handing	Left and Right Handed Doors
Installation Method	Screw-In
Color	Metallic Bronze
Dimensions (Package)	34.79 x 11.9 x 5.7 cm
Item Weight	1.99 kg

## 5. Setup and Installation

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### 5.1 Tools Required

- Drill
- Screwdriver (Phillips head recommended)
- Measuring Tape
- Pencil
- Wrench (for arm adjustments)
- Safety Glasses

### 5.2 Mounting Options

The RYOBI S-122PC1 supports parallel arm installation, suitable for various door and frame configurations.

### 5.3 Step-by-Step Installation

Refer to the included installation template for precise hole placement. The following steps outline a general installation process:

1. **Prepare the Door and Frame:** Ensure the door and frame surfaces are clean, flat, and structurally sound.

2. **Position the Template:** Affix the installation template to the door and frame according to the desired mounting position (e.g., push side, pull side). Mark all drilling points accurately.
3. **Drill Pilot Holes:** Using an appropriate drill bit size for the provided screws, drill pilot holes at the marked locations.
4. **Mount the Closer Body:** Secure the main door closer body to the door using the provided screws. Ensure it is level and firmly attached.
5. **Attach the Main Arm:** Connect the main arm to the closer body's spindle.
6. **Install the Parallel Arm Bracket:** Secure the parallel arm bracket to the door frame using the provided screws.
7. **Connect the Forearm:** Attach the forearm (the shorter section of the arm) to the parallel arm bracket.
8. **Connect Main Arm to Forearm:** Adjust the length of the main arm and forearm as needed, then connect them using the provided fasteners. Ensure the arm assembly is parallel to the door frame when the door is closed.
9. **Initial Adjustment:** Perform initial adjustments as described in the 'Operating Instructions' section to ensure the door closes smoothly.



Figure 1: RYOBI S-122PC1 Door Closer unit. This image shows the main body and arm assembly of the door closer, highlighting its metallic bronze finish and compact design.

## 6. Operating Instructions and Adjustment

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The RYOBI S-122PC1 features three adjustment valves to control the door's closing cycle. These valves are typically located on the side of the closer body.

### 6.1 Adjusting Closing Speed (Valve 1 & 2)

- **Valve 1 (Initial Closing Speed):** Controls the speed of the door from its fully open position until approximately 15 degrees from closed.
- **Valve 2 (Latching Speed / Second Speed):** Controls the speed of the door for the final 15 degrees of closing, ensuring the door latches securely without slamming.

To adjust: Turn the respective valve screw clockwise to decrease speed (slower closing) or counter-clockwise to increase speed (faster closing). Make small adjustments (quarter turns) and test the door's closing action after each adjustment.

## 6.2 Adjusting Latching Action (Valve 3)

- **Valve 3 (Backcheck / Latching Action):** This valve controls the resistance the door encounters when opened forcefully beyond a certain point (backcheck) and can also influence the final latching force.

To adjust: Turn the valve screw clockwise to increase backcheck resistance or latching force, and counter-clockwise to decrease it. Adjust carefully to prevent the door from slamming or failing to latch.

**Important:** Do not unscrew the valves completely, as this can lead to fluid leakage and product damage.

## 7. Maintenance

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Regular maintenance ensures optimal performance and extends the lifespan of your RYOBI S-122PC1 Door Closer.

- **Cleaning:** Wipe the door closer body and arm assembly with a soft, damp cloth to remove dust and dirt. Avoid abrasive cleaners or solvents.
- **Inspection:** Periodically check all mounting screws for tightness. Retighten if necessary. Inspect the arm assembly for any signs of wear or damage.
- **Lubrication:** The internal mechanism is factory-lubricated and sealed. No additional lubrication is required.
- **Functionality Check:** Test the door's closing and latching action regularly. Readjust the valves if the closing speed or latching force changes over time.

## 8. Troubleshooting

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If you experience issues with your door closer, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
Door slams shut	Closing speed (Valve 1) or latching speed (Valve 2) is too fast.	Turn Valve 1 and/or Valve 2 clockwise in small increments to decrease speed.
Door does not close completely or latch	Closing speed (Valve 1) or latching speed (Valve 2) is too slow; insufficient latching force (Valve 3).	Turn Valve 1 and/or Valve 2 counter-clockwise to increase speed. Turn Valve 3 clockwise to increase latching force. Check for obstructions.
Door is difficult to open	Spring power is too high (not adjustable on this model); backcheck (Valve 3) is too strong.	Ensure the door closer is correctly sized for the door weight. Turn Valve 3 counter-clockwise to reduce backcheck.
Oil leakage from closer body	Damaged seal or over-adjustment of valves.	Stop using the closer immediately. Contact RYOBI customer support for assistance. Do not attempt to repair.
No closing action	Arm assembly disconnected or closer unit damaged.	Check if the arm assembly is securely connected. If the unit is damaged, contact RYOBI customer support.

## 9. Warranty and Support

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For warranty information, please refer to the warranty card included with your purchase or visit the official

RYOBI website. Keep your proof of purchase for warranty claims.

If you require technical assistance, have questions about installation, or need to report a defect, please contact RYOBI customer support through their official channels. Provide your product model number (S-122PC1) and a detailed description of the issue when contacting support.

**RYOBI Official Website:** [www.ryobi.com](http://www.ryobi.com) (Please check for your regional website for specific contact details).