

[Manuals.plus](#) /

> [HVAC Parts](#) /

> HVAC Parts Riello Burner Hydraulic Jack 3006911 / C7001039 / 3020500 Instruction Manual

HVAC Parts 3006911 / C7001039 / 3020500

Riello Burner Hydraulic Jack Instruction Manual

Models: 3006911, C7001039, 3020500

1. INTRODUCTION

This manual provides essential instructions for the proper installation, operation, and maintenance of the Riello Burner Hydraulic Jack. This component is crucial for the efficient and safe functioning of compatible Riello burner systems. Please read this manual thoroughly before attempting any installation or service to ensure safety and optimal performance.

2. SAFETY INFORMATION

Always observe the following safety precautions:

- Ensure the main power supply to the burner system is disconnected before beginning any work.
- Turn off the oil supply to the burner for safety.
- Wear appropriate personal protective equipment (PPE), such as gloves and eye protection.
- If you are unsure about any procedure, consult a qualified HVAC technician.
- Keep children and unauthorized personnel away from the work area.

3. PRODUCT OVERVIEW

The Riello Burner Hydraulic Jack (Part Numbers: 3006911, C7001039, 3020500) is a precision component designed for Riello oil burners. It plays a role in the burner's operational sequence, often related to air damper control or fuel delivery mechanisms. This part is typically made of metal, ensuring durability and resistance to operational conditions.



Figure 1: Riello Burner Hydraulic Jack. This image displays the Riello Burner Hydraulic Jack, a brass-colored cylindrical component, alongside a separate screw and a small brass fitting, which are typically included for installation or replacement.

4. INSTALLATION AND REPLACEMENT

This section outlines the general procedure for replacing the Riello Burner Hydraulic Jack. Specific steps may vary slightly depending on your exact burner model. Always refer to your burner's primary instruction manual for detailed diagrams and safety warnings.

4.1. Preparation

1. Disconnect all electrical power to the Riello burner system at the main breaker. Verify power is off using a voltage tester.
2. Close the oil supply valve to the burner.
3. Allow the burner to cool down if it has been recently operating.
4. Gather necessary tools, which may include screwdrivers, wrenches, and a clean cloth.

4.2. Removal of Old Hydraulic Jack

1. Locate the existing hydraulic jack on your Riello burner. It is typically connected to an oil line and secured with a screw or clamp.
2. Carefully disconnect any oil lines or electrical connections attached to the hydraulic jack. Be prepared for a small amount of oil spillage and have a rag ready.
3. Unscrew and remove the fastening screw that holds the hydraulic jack in place. **Important:** Retain this original screw as it may be required for the new installation, even if a new screw is provided with the replacement part.
4. Gently pull the old hydraulic jack out from its housing.

4.3. Installation of New Hydraulic Jack

1. Insert the new Riello Burner Hydraulic Jack into the designated opening, ensuring it seats correctly.
2. Secure the new hydraulic jack using the original fastening screw (if it fits better) or the new screw provided. Ensure it is snug but do not overtighten.
3. Reconnect any oil lines and electrical connections that were removed, ensuring they are secure and leak-free.

4.4. Post-Installation Checks

1. Open the oil supply valve.
2. Restore electrical power to the burner system.
3. Initiate a few burner cycles and carefully observe for any oil leaks around the newly installed hydraulic jack.
4. Monitor the burner's operation to ensure it functions as expected, without unexpected shutdowns or performance issues.

5. OPERATING PRINCIPLES

The hydraulic jack is an integral part of the Riello burner's control system. Its primary function is to regulate specific aspects of the burner's operation, such as the opening and closing of the air damper or controlling fuel flow during startup and shutdown sequences. When the burner initiates, hydraulic pressure activates the jack, which in turn performs its designated mechanical action. This precise control contributes to optimal combustion efficiency and reduced emissions.

6. MAINTENANCE

The Riello Burner Hydraulic Jack is designed for durability and typically requires minimal direct maintenance. However, regular inspection of the overall burner system is recommended.

- **Visual Inspection:** Periodically check the hydraulic jack and its connections for any signs of oil leaks, corrosion, or physical

damage.

- **Cleaning:** Keep the area around the hydraulic jack clean and free from dust or debris.
- **Professional Servicing:** It is recommended to have your Riello burner system professionally serviced annually. During this service, the technician will inspect all critical components, including the hydraulic jack, for proper function and wear.

7. TROUBLESHOOTING

If you experience issues with your Riello burner system that you suspect are related to the hydraulic jack, consider the following:

Symptom	Possible Cause	Action
Oil Leakage from Jack Area	Damaged or worn hydraulic jack seal; loose connections.	Inspect connections for tightness. If leaks persist, the hydraulic jack likely needs replacement.
Burner Shuts Off Unexpectedly	Malfunctioning hydraulic jack affecting air damper or fuel control.	Verify the hydraulic jack is operating smoothly. If it appears stuck or unresponsive, replacement may be necessary. Consult a technician.
Reduced Burner Efficiency	Hydraulic jack not fully opening/closing air damper.	Check for proper movement of the jack's piston. If restricted, consider replacement.

Note: For complex issues or if you are uncomfortable performing diagnostics, always contact a certified HVAC professional.

8. SPECIFICATIONS

Feature	Detail
Brand:	HVAC Parts
Model Numbers:	3006911, C7001039, 3020500
Material:	Metal
Color:	Gold, Silver (referring to components)
UPC:	797874996125
Part Number (Internal):	alp171218-09

9. WARRANTY AND SUPPORT

For specific warranty information regarding your Riello Burner Hydraulic Jack, please refer to the documentation provided by the original seller or manufacturer, HVAC Parts. For technical support or service inquiries, contact your authorized Riello service provider or the vendor from whom the part was purchased.

You can often find contact information on the packaging or the seller's website. Always provide the model and part numbers when seeking support.



