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Robertshaw 700-515

Robertshaw 700-515 Gas Valve Instruction Manual

Model: 700-515 | Brand: Robertshaw



1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of the Robertshaw 700-515 Gas Valve. This device is designed for use in various heating and cooling applications to control gas flow. Please read all instructions carefully before proceeding with installation or operation.

2. SAFETY INFORMATION

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Read the installation, operating, and maintenance instructions thoroughly before installing or servicing this equipment.

- Installation and service must be performed by a qualified installer, service agency, or gas supplier.
- Ensure all gas and electrical connections are made according to local codes and manufacturer specifications.
- Always shut off the main gas supply and electrical power before servicing the unit.
- Check for gas leaks using a soap solution after any gas connection is made. Never use an open flame.
- Do not store flammable materials near the appliance.

3. PRODUCT COMPONENTS AND OVERVIEW

The Robertshaw 700-515 Gas Valve is a compact unit designed for reliable gas flow control. Key components are illustrated and described below.

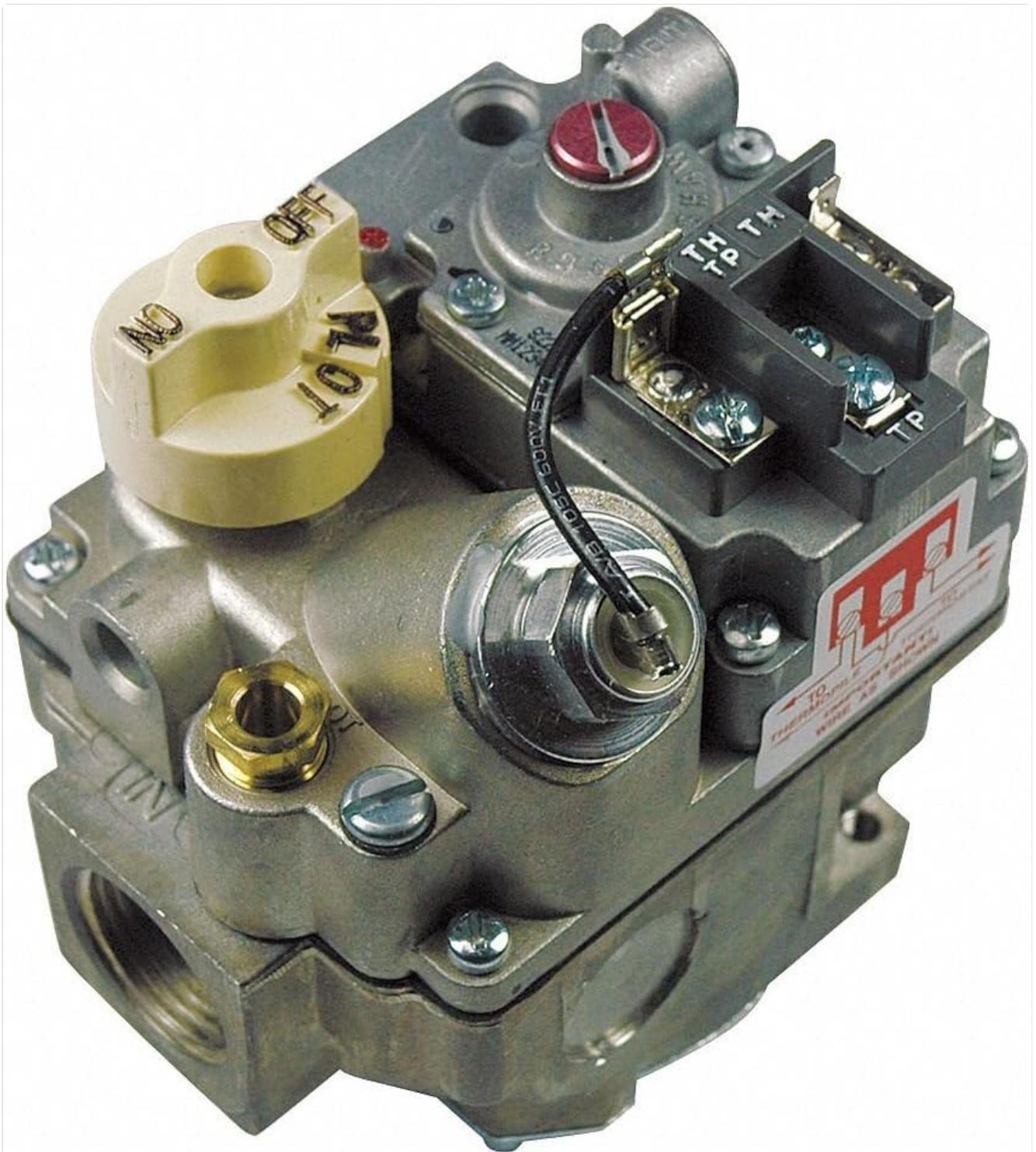


Figure 1: Robertshaw 700-515 Gas Valve

This image displays the Robertshaw 700-515 gas valve. Visible features include the beige control knob with 'ON', 'OFF', and 'PILOT' settings, electrical terminals labeled 'TH' and 'TP' for thermostat and thermopile connections, and threaded inlet and outlet ports for gas line connections. A vent port is also visible at the top.

- **Control Knob:** Used to select operating modes: OFF, PILOT, and ON.
- **Electrical Terminals (TH, TP):** Connection points for the thermostat and thermopile, which control the valve's operation.
- **Gas Inlet/Outlet:** Threaded ports for connecting the gas supply and the appliance's gas line.
- **Vent Port:** Allows for proper pressure regulation within the valve.

4. SETUP AND INSTALLATION

Installation of the Robertshaw 700-515 Gas Valve should only be performed by a qualified technician. Ensure all local codes and regulations are followed.

1. **Gas Supply Shut-off:** Turn off the main gas supply to the appliance.
2. **Electrical Disconnection:** Disconnect all electrical power to the appliance.
3. **Remove Old Valve:** Carefully disconnect and remove the existing gas valve, if applicable.
4. **Mounting:** Mount the new Robertshaw 700-515 valve in the correct orientation as specified by the appliance manufacturer.
5. **Gas Connections:** Apply pipe sealant suitable for gas to the male threads of the gas piping. Connect the gas supply line to the inlet port (National Pipe Tapered) and the appliance gas line to the outlet port (NPT). Tighten connections securely.
6. **Electrical Connections:** Connect the thermostat wires to the 'TH' terminals and the thermopile wires to the 'TP' terminals as per the appliance wiring diagram.
7. **Leak Test:** Turn on the main gas supply. Check all gas connections for leaks using a non-corrosive soap solution. Bubbles indicate a leak. Tighten connections or reapply sealant as necessary.
8. **Restore Power:** Restore electrical power to the appliance.

5. OPERATING INSTRUCTIONS

Follow these steps to operate the gas valve and light the pilot (if applicable to your appliance).

1. **Turn Control Knob to OFF:** Ensure the control knob is in the 'OFF' position and wait at least five minutes to allow any accumulated gas to dissipate.
2. **Turn Control Knob to PILOT:** Depress the control knob and turn it to the 'PILOT' position.
3. **Light Pilot:** While holding the knob down, use a match or igniter to light the pilot burner. Continue to hold the knob down for approximately 60 seconds after the pilot lights to allow the thermopile to heat up.
4. **Release Knob:** Release the control knob. If the pilot flame extinguishes, repeat steps 2 and 3.
5. **Turn Control Knob to ON:** Once the pilot remains lit, turn the control knob to the 'ON' position. The main burner should now operate under thermostat control.

To shut down the appliance, turn the control knob to the 'OFF' position. For temporary shutdown, turn the thermostat to its lowest setting.

6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your Robertshaw 700-515 Gas Valve. All maintenance should be performed by a qualified service technician.

- **Annual Inspection:** Have the gas valve and associated appliance inspected annually by a qualified technician.
- **Cleanliness:** Ensure the area around the gas valve is kept clean and free from dust, debris, and obstructions.
- **Pilot Flame Check:** Periodically observe the pilot flame (if applicable). It should be steady and blue, enveloping the thermopile sensor.
- **Leak Checks:** Re-check gas connections for leaks periodically, especially if the unit has been moved or serviced.

7. TROUBLESHOOTING

This section addresses common issues you might encounter. For complex problems, contact a qualified service technician.

Problem	Possible Cause	Solution
Pilot will not light or stay lit.	No gas supply, faulty thermopile, dirty pilot orifice, loose electrical connection.	Check gas supply. Ensure control knob is held down long enough. Inspect and clean pilot orifice. Check thermopile and connections.
Main burner does not light.	Pilot not lit, faulty thermostat, loose electrical connections, gas valve malfunction.	Ensure pilot is lit and control knob is in 'ON' position. Check thermostat settings and wiring. Verify electrical connections to 'TH' terminals.
Gas odor detected.	Gas leak.	Immediately shut off gas supply. Ventilate area. Do not operate electrical switches. Contact gas company or qualified technician.

8. SPECIFICATIONS

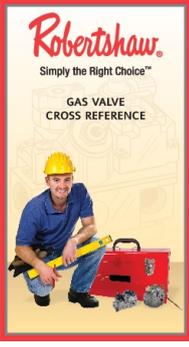
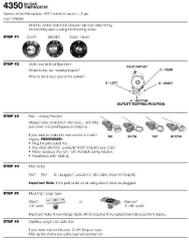
Brand	Robertshaw
Model Number	700-515
Part Number	700-515
Manufacturer	White-Rodgers, Robertshaw, Honeywell
Item Dimensions (L x W x H)	5.7 x 4.7 x 3.6 inches
Item Weight	2 pounds
Inlet Connection Type	National Pipe Tapered
Outlet Connection Type	NPT
Number of Ports	2
Size	3/4 inch
Specification Met	RoHS, ULC
UPC	013263570982

9. WARRANTY AND SUPPORT

Specific warranty information for the Robertshaw 700-515 Gas Valve is not provided in this document. For warranty details, please refer to the documentation included with your purchase or contact Robertshaw customer support directly. For technical assistance or service, it is recommended to contact a qualified HVAC technician or the manufacturer.

You can visit the official Robertshaw website for further support and product information.

Related Documents - 700-515

 The cover of the Robertshaw Gas Valve Cross Reference Guide features the Robertshaw logo at the top, followed by the slogan "Simply the Right Choice™". Below this, it reads "GAS VALVE CROSS REFERENCE". The central image shows a male technician in a blue uniform and yellow hard hat kneeling next to a red toolbox, holding a yellow gas valve component.	<p>Robertshaw Gas Valve Cross Reference Guide</p> <p>A comprehensive guide to Robertshaw gas valves, including a cross-reference tool for thousands of parts. This document details various models such as manual, hydraulic, 24-volt combination, 2-stage, diaphragm, line voltage, and millivolt gas valves, providing specifications, model numbers, and applications.</p>
 The cover of the Robertshaw 720 Series Dual Valve Gas Heating Controls Installation Data document features the Robertshaw logo and the title "720 SERIES CONVERTIBLE/STEP OPENING DUAL VALVE GAS HEATING CONTROLS". It includes technical diagrams of the control units and their wiring connections.	<p>Robertshaw 720 Series Dual Valve Gas Heating Controls Installation Data</p> <p>Installation and service instructions for the Robertshaw 720 Series Convertible/Step Opening Dual Valve Gas Heating Controls, including specifications, wiring, operation, and troubleshooting.</p>
 The cover of the Robertshaw 2374 Series Air Pressure Sensing Switches document features the Robertshaw logo and the title "Air Pressure Sensing Switches". It includes images of three different switch models and a list of features and benefits.	<p>Robertshaw 2374 Series Air Pressure Sensing Switches</p> <p>Explore the Robertshaw 2374 Series Air Pressure Sensing Switches, featuring pneumatic, air pressure sensing, and manual reset models. This document details their applications, features, benefits, and provides a comprehensive cross-reference guide for replacement parts from various manufacturers.</p>
 The cover of the Robertshaw 4350 Commercial Gas Thermostat Selection Guide document features the Robertshaw logo and the title "COMMERCIAL GAS THERMOSTATS 4350 B Series". It includes technical diagrams of the thermostat models and their wiring configurations.	<p>Robertshaw 4350 Commercial Gas Thermostat Selection Guide</p> <p>A step-by-step guide to identifying and selecting the correct Robertshaw 4350 BJ Gas Thermostat for commercial applications, covering control types, outlet configurations, mounting, and pilot settings.</p>
 The cover of the Robertshaw HVACR Heating Catalog features the Robertshaw logo and the title "HVACR HEATING CATALOG". It includes images of various heating components like thermostats, gas valves, and ignitors.	<p>Robertshaw HVACR Heating Catalog: Thermostats, Gas Valves, and Components</p> <p>Comprehensive catalog from Robertshaw detailing HVACR heating components, including Pro-Series wall thermostats, various gas valves (millivolt, 24V, universal), ignitors, pilots, and accessories. Find product specifications, model numbers, and cross-references for professional installation and replacement.</p>
 The cover of the Robertshaw RBV Series Ball Valves - Product Specifications and Replacement Guide document features the Robertshaw logo and the title "RBV SERIES BALL VALVES". It includes technical diagrams of the ball valve and its specifications.	<p>Robertshaw RBV Series Ball Valves - Product Specifications and Replacement Guide</p> <p>Detailed technical information for the Robertshaw RBV Series Ball Valves, including product description, features, applications, specifications, dimensions, and cross-reference part numbers for HVAC and refrigeration systems.</p>

