

HHT 593-500

HHT IPI Valve (593-500) Instruction Manual

Model: 593-500

INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of the HHT IPI Valve, model 593-500. This valve is designed as a replacement natural gas (NG) Dexen valve for specific Hearth & Home gas stoves and fireplaces utilizing an Intermittent Pilot Ignition (IPI) system. It is crucial to read and understand all instructions before proceeding with installation or operation.

SAFETY INFORMATION

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause injury or property damage. Refer to this manual. For assistance or additional information, consult a qualified installer, service agency, or the gas supplier.

- Always ensure the gas supply is turned off before attempting any installation, service, or maintenance.
- Installation and service must be performed by a qualified installer, service agency, or gas supplier.
- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Check for gas leaks after installation or service using a non-corrosive leak detection fluid.
- This valve is for Natural Gas (NG) IPI systems only. Do not use with DSI, HSI, or standing pilot units.

PRODUCT OVERVIEW

The HHT IPI Valve (model 593-500) is a critical component for controlling natural gas flow in compatible Hearth & Home gas fireplaces and stoves. It is designed for Intermittent Pilot Ignition (IPI) systems, which ignite the pilot only when the appliance is in use, offering energy efficiency.



Figure 1: HHT IPI Valve (593-500). This image displays the silver-colored gas valve with visible inlet and outlet ports, adjustment screws, and the Dexen branding. The orange switch is also visible.

Key features include its metal construction and specific design for natural gas applications without turndown functionality.

SETUP AND INSTALLATION

Installation of the HHT IPI Valve (593-500) should only be performed by a qualified service technician or gas professional. Incorrect installation can lead to gas leaks, fire, or explosion.

1. **Preparation:** Ensure the main gas supply to the appliance is turned off and disconnected. Allow the appliance to cool completely if it has been in operation.
2. **Access:** Carefully remove any panels or components necessary to access the existing gas valve within your fireplace or stove.
3. **Removal of Old Valve:** Disconnect all gas lines and electrical connections from the old valve. Note the orientation and connection points for proper reinstallation. Remove the old valve.
4. **Installation of New Valve:** Position the new HHT IPI Valve (593-500) in the same orientation as the old valve. Connect the gas inlet and outlet lines, ensuring all connections are tight and sealed with appropriate gas-rated sealant tape or compound.
5. **Electrical Connections:** Reconnect any electrical wiring to the new valve according to the appliance's wiring

diagram. Ensure secure connections.

- 6. **Leak Test:** Turn on the main gas supply. Apply a non-corrosive leak detection solution to all gas connections. Bubbles indicate a leak. If a leak is detected, turn off the gas supply immediately, tighten connections, and re-test. Do not proceed until all leaks are eliminated.
- 7. **Final Assembly:** Reinstall any removed panels or components.

Refer to your specific appliance's owner's manual for detailed instructions and diagrams related to valve replacement.

OPERATING INSTRUCTIONS

The HHT IPI Valve (593-500) operates as part of an Intermittent Pilot Ignition (IPI) system. This system automatically lights the pilot burner each time the main burner is called to operate, eliminating the need for a continuously burning pilot light.

- 1. **Power On:** Ensure the appliance is connected to power and the gas supply is open.
- 2. **Ignition:** Activate the appliance using its control switch, remote control, or thermostat. The IPI system will initiate a spark at the pilot burner.
- 3. **Pilot Flame:** Once the pilot flame is established, the system will sense its presence and open the main gas valve to ignite the main burner.
- 4. **Shutdown:** When the appliance is turned off, the main burner and pilot flame will extinguish. The IPI valve will close, stopping gas flow to both.

For specific operational details, always consult the owner's manual for your Hearth & Home appliance.

MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your gas appliance and its components, including the IPI valve. All maintenance should be performed by a qualified service technician.

- **Annual Inspection:** Have a qualified technician inspect the gas valve and entire gas system annually for wear, leaks, and proper operation.
- **Cleaning:** Keep the area around the valve clean and free from dust, debris, and obstructions.
- **Pilot Assembly Check:** Ensure the pilot assembly is clean and the pilot flame is strong and properly directed. A weak or erratic pilot flame can indicate issues with gas pressure or the pilot orifice.
- **Gas Pressure:** Verify that the gas pressure to the valve is within the manufacturer's specified range. This should only be done by a qualified technician.

Do not attempt to repair a faulty gas valve yourself. Contact a qualified service professional for any repairs or replacements.

TROUBLESHOOTING

If your appliance is not operating correctly, consult this basic troubleshooting guide. For complex issues, always contact a qualified service technician.

Problem	Possible Cause	Solution
Appliance does not ignite.	No gas supply, faulty pilot, electrical issue, or valve malfunction.	Check gas supply. Ensure power is connected. Inspect pilot assembly for obstructions. If issues persist, contact a technician.

Problem	Possible Cause	Solution
Pilot lights but main burner does not.	Main valve not opening, low gas pressure, or faulty thermopile/thermocouple.	Verify gas pressure. A qualified technician should inspect the valve and safety devices.
Smell of gas.	Gas leak.	Immediately turn off gas supply. Open windows. Do not operate any electrical switches. Evacuate the area and call your gas supplier or emergency services.

SPECIFICATIONS

- **Model Number:** 593-500
- **Type:** IPI Natural Gas Valve (No Turndown)
- **Material:** Metal
- **Exterior Finish:** Silver
- **Inlet Connection Size:** 3.5 Inches
- **Inlet Connection Type:** National Pipe Tapered
- **Outlet Connection Size:** 3.5 Inches
- **Outlet Connection Type:** NPT
- **Number of Ports:** 2
- **Weight:** 1.2 pounds
- **Dimensions (Package):** 6.38 x 6.3 x 3.7 inches
- **Certification:** UL

COMPATIBILITY

This HHT IPI Valve (593-500) is compatible with various Hearth & Home gas fireplace models from Heatilator and Heat & Glo. It is essential to verify compatibility with your specific appliance's owner's manual before purchase and installation.

Heatilator Gas Fireplaces:

- AZTEC, BCBR36, BCBV36I, BRAVO, EDV3633I & EDV3633IL, EHS3633I, GGBR60E & GGBR60LE, GGBR60I & GGBR60IL, GGBR80E & GGBR80LE, GGBR80I & GGBR80IL, GNBC30E & GNBC30LE (After 18/02), GNBC33E & GNBC33LE (After 18/02), GNBC36E & GNBC36LE (After 18/02), GNDC30E & GNDC30LE (After 18/02), GNDC33E & GNDC33LE (After 18/02), GNDC36E & GNDC36LE (After 18/02), GNRC33E & GNRC33LE (After 18/02), GNRC36E & GNRC36LE (After 18/02), RAVE3012I, RAVE4013i, RAVE4013i-C, RBV4236IT & RBV4236IH, RBV4842IT & RBV4842IH, CFL-24NG-IPI, FI36M & FI36ML, FI42M & FI42ML, GO24-IPI-NG, GO30-IPI-NG, GO33-IPI-NG, GO35-IPI-NG, GO40-IPI-NG, GO318-IPI-NG, GO324-IPI-NG, GO330-IPI-NG, ODGO324-IPI-NG, DAKOTA42H & DAKOTA42, DAKOTA42-B & DAKOTA42H-B, STIO-TWILIGHT, TWILIGHT, TWILIGHT-II, TWILIGHT-II-B, TWILIGHT-II-MOD

Heat & Glo Gas Fireplaces:

- GATEWAY, Solaris36-MR, Solaris36-ST, BCBV36I, BRAVO, CFX-CRESCENT (After serial # 002182991), CFX-DA, CFX-DIAMOND, GRAND-50-D, INFINITY, OLYMPUS, RBV4236IT & RBV4236IH, RBV4842IT & RBV4842IH, SLR32, SLR (COSMO), SLR-B (COSMO), SLR-C (COSMO), SOHO24B, BE-36-CIPI, SL-550BE-IPI, SL-550BE-M-IPI, SL-550METRO, SLF-550TR-IPI-E, CFL-24NG-IPI, GO24-IPI-NG, GO30-IPI-NG, GO33-IPI-NG, GO35-IPI-NG, GO40-IPI-NG, GO318-IPI-NG, GO324-IPI-NG, GO330-IPI-NG, ODGO324-IPI-NG

WARRANTY AND SUPPORT

For warranty information or technical support regarding your HHT IPI Valve (593-500), please refer to the documentation provided with your original Hearth & Home appliance or contact HHT customer service directly. Keep your purchase receipt as proof of purchase.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question