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IMPORTANT:

READ THIS MANUAL BEFORE INSTALLING AND USING THIS FIREPLACE

SUNDANCE
GAS FIREPLACE MODEL 740 UP VENT
INSTALLATION INSTRUCTIONS

INSTALLATION AND/OR REPAIR OF THIS UNIT SHOULD ONLY BE DONE BY A QUALIFIED INSTALLER.

This appliance has been tested to and complies with ANSI Z21.49-1993, CAN/CGA 2.5-M89 "Gas-fired Vented Wall Furnaces" and CAN/CGA 2.17-M91 "Gas-fired Appliances for Use at High Altitudes". Installation must conform with local building codes, or, in the absence of local building codes, with the national fuel gas code, ANSI Z22.1 (NFPA 54), or the Canadian CAN1-B149 Installation Code.

FOR YOUR SAFETY

WARNING: If the information in the manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance
- Open windows
- Extinguish any open flame
- Do not touch any electrical switch
- Do not use any phone in your building
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.
- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

WARNING: Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

WARNING: Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to this manual for assistance. For additional information consult a qualified installer, service agency or the gas supplier.
WARNING: DO NOT REPLACE THIS BURNER UNIT WITH ANY OTHER SIZED BURNER. REPLACEMENT WITH AN UNAUTHORIZED BURNER CAN RESULT IN TEMPERATURES EXCEEDING THE LIMITS FOR THIS UNIT, AND VOID YOUR WARRANTY.

The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at pressures in excess of 1/2 psig (3.5 kPa).

The appliance must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psig (3.5 kPa).

NOTE: This appliance must be properly connected to a venting system. This appliance is equipped with a safety control system designed to protect against improper venting of combustion products.

WARNING: Operation of this wall furnace when not connected to a properly installed and maintained venting system or tampering with the vent safety shutoff system can result in carbon monoxide (CO) poisoning and possible death.

Warranty: Please complete warranty card (included with this installation packet) information prior to installation of the unit. Warranty information is located behind the lower grill, on certification tag. This warranty card must be returned to the manufacturer to validate your warranty within 30 days of purchase.

IMPORTANT: FACING MATERIAL MAY BE APPLIED OVER THE FACE OF THIS UNIT. TO PREVENT THE FACING MATERIAL FROM CRACKING AND FALLING OFF DUE TO EXPANSION OF THE UNIT WHEN HEATED, DO NOT ATTACH FACING MATERIAL DIRECTLY TO THE FACE OF THE UNIT.

A) POSITION THE UNIT. See figure 1.

1. Determine the exact position of your fireplace. Determine the width and depth of the (optional) hearth.

2. The unit may be installed on either an exterior or interior wall. Figure 1 shows various installation options.

CAUTION: COLD AIR TRANSFER AREA. If your fireplace is installed on an outside wall, the surrounding wood chase must be insulated to prevent cold air from entering the room.

NOTE: Due to high temperatures, this unit should be located out of traffic areas and away from furniture and draperies.

3. Minimum clearance to combustibles, see also Figure 1:

   From unit sides, back & top: 0" (0 mm)
   Unit front to sidewall: 14" (355 mm)
   To flooring: 0" (0 mm)
   From flue vent: 1" (25 mm)
   From heat outlet to mantel: 12" (305 mm)
Figure 1

NOTE: Even though the minimum clearance from the sides and top is 0", we recommend that you allow an expansion space of $\frac{1}{4}"$ from sides and top to prevent cracking of face materials due to expansion of the unit during heating. If expansion room is not left, the unit will make a loud "banging" noise when it heats up or cools down.

NOTE: When the unit is installed directly on carpeting, tile, or other combustible materials other than wood flooring, it must be installed on a metal or wood panel extending the full width and depth of the unit. The minimum for the support platform under the unit is 20" (508 mm) deep by 36" (915 mm) wide. If masonry is to be used (optional), prepare the necessary foundation for the masonry load. When masonry construction is being used, a lintel must be used over the top of the unit to support the added weight.

NOTE: If facing material is going to be applied over the face of the unit, you must adjust your rough opening depth accordingly.

4. Rough in the wall enclosure. For minimum dimensions, see Figure 2. Build the hearth to the desired size, and height.

NOTE: A hearth is not required. If a hearth is desired, combustible materials may be used.

NOTE: Provide for a minimum of 6" (152 mm) of clearance in front of the lower grill. This will provide adequate space for opening to light the fire.

Do not obstruct the upper and lower grill areas to allow proper ventilation air around the unit. Air enters the unit at the lower grill, and exits at the upper grill. Do not block this passage.
B) REMOVE THE FRONT FACE. See Figure 3

1) Place the unit into position.
2) Loosen, but do not remove, the two 1/4" bolts (A) with a 7/16" wrench.
3) Remove the two 1/4" nuts (B) and slide the face off.
C) REMOVE THE GLASS FRONT. See Figure 4.

1) Loosen, but do not remove the bottom clip.
2) Loosen, and remove the two side clips, and the top clip.
3) Place both hands around the glass, and lift up and out.
4) Place the glass aside where it will not be broken.
   - NOTE: Do not remove the gasket material around the glass.
5) Remove the box of logs from the unit and set aside.

Figure 4

D) INSTALL THE CHIMNEY SYSTEM. See Figure 5 page 7.

WARNING: This gas appliance must not be connected to a chimney flue serving another type of appliance.

NOTE: A draft hood is included as part of this unit. No other draft hood should be used.

IMPORTANT: The chimney must be a minimum of 3' above the roof line with a minimum of 2' above the 10' horizontal line form the roof. See figure 5 page 7.

Class "B" - 4" flue vent is required for this unit. Follow the vent pipe manufacturer's instruction or NFPA (ANSI Z223.1-1988) for proper installation. Also, see Figure 5 for minimum clearances to roof.
E) INSTALL THE FAN KIT #604.
See Figure 6.

INSTALLATION OF THIS KIT SHOULD BE DONE ONLY
BY A QUALIFIED INSTALLER.

NOTE: The wiring must be done prior to enclosing the
sides of the unit.

Your optional fan kit includes:
1. Fan assembly with 2-100 CFM fans already
   mounted
2. Speed Control
3. Component Package-includes: Receptacle, 2" cover, fan temperature switch assembly, 2 nuts.

NOTE: Code approved line voltage wiring 16 gauge or
better must be used when wiring this system.

The fan may be run with or without the temperature switch
assembly. If the temperature switch is desired, simply
unplug the BLUE male/female disconnect (3) and plug the
matching terminals of the limit switch together.

NOTE: Place the temperature switch (magnet attached) on
the bottom of the unit, as close to the center as possible.

1. Place fan (1) over mounting studs (2).
2. Place nuts on mounting studs and tighten.
3. Mount the On/Off speed control on a wall.
4. Snap the receptacle into the cover.
5. Insert 115V wiring (with ground) through theromex
   connector installed in the electrical box installed in
   the side of the unit and wire to the receptacle.
6. Place the cover on the box and secure with the
   screws.
7. Plug cord (5) into fan receptacle.
8. Turn on/off speed control clockwise slightly until
   it clicks.

Figure 6
NOTE: The fan will not operate unless the speed control has been turned on. If the temperature switch is used the fan will not turn on until sufficient heat is applied to the thermostatic control switch (4). The fan will turn on and off automatically when the fireplace heats and cools. Adjust fan to highest speed while it is running.

NOTE: This appliance, when installed, must be electrically grounded in accordance with local codes, or in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70-1990, or the Canadian Electrical Code, CSA C22.1.

G) RUN THE GAS LINE. See Figure 7.

CAUTION: Installation of the gas line must only be done by a qualified person in accordance with local building codes.

NOTE: The gas line should be run to the point of connection where the regulator board fittings will attach (flexible gas line and manual shut-off).

1. Run the gas line. An accessible shut off valve must be installed up stream from the regulator.

NOTE: Do not run the incoming gas line in a manner that would obstruct the operation or removal of the fan.

<table>
<thead>
<tr>
<th>NOTE:</th>
<th>NATURAL GAS ONLY:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>The minimum inlet gas supply pressure is 4.5 inches W.C. (1.12 kPa) Efficiency: 71.3%</td>
</tr>
<tr>
<td></td>
<td>The maximum inlet gas supply pressure is 10.5 inches W.C. (2.61 kPa) AFUE: 64.6%</td>
</tr>
<tr>
<td>Input Rating: 28,000</td>
<td>Orifice: 38</td>
</tr>
<tr>
<td>Maximum Output: 20,000</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NOTE:</th>
<th>LP GAS ONLY:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>The minimum inlet gas supply pressure is 11.0 inches W.C. (2.53 kPa) Efficiency: 73.6%</td>
</tr>
<tr>
<td></td>
<td>The maximum inlet gas supply pressure is 13.0 inches W.C. (3.23 kPa) AFUE: 65.8%</td>
</tr>
<tr>
<td>Input Rating: 25,000</td>
<td>Orifice: 53</td>
</tr>
<tr>
<td>Maximum Output: 18,500</td>
<td></td>
</tr>
</tbody>
</table>

NOTE: For high altitude installations consult the local gas distributor or the authority having jurisdiction for proper rating methods.

2. This unit is designed to accept either a 3/8" or 1/2" gas line approved for gas appliances. Consult local building codes to properly size the gas supply line leading to a 3/8" reduction. Also, see the chart on page 10 for proper supply line sizing.

3. A gas line knockout is positioned on either side of the unit for gas line connection.

4. Provide a 1/8 inch plugged tapping for test gauge connection upstream from the gas supply connection.

5. Attach the proper fittings to the inlet of the regulator for easier installation.

6. Complete installation of the gas line.
**Tubing size** | **Maximum run**
---|---
3/8" | 10'
1/2" | 70'
5/8" | 100'
3/4" | 125'

**Figure 7**

**SOLUTION TO EXAMPLE:**

1. Maximum demand for outlet "A" 30 CFH
   
   " "  "B"  25 CFH
   
   " "  "C"  75 CFH
   
   " "  "D"  136 CFH

   Total Demand 266 CFH

2. The length of pipe from the gas meter to the most remote outlet (outlet "A") is 60'.

**THIS IS THE ONLY DISTANCE USED.**

3. Using horizontal line marked 60'. Outlet "A" supplying 30 cubic feet an hour requires 1/2 inch pipe.
   Outlet "B" supplying 25 cubic feet an hour requires 1/2 inch pipe. Section 1 supplying outlets "A" and "B", 55 cubic feet an hour requires 1/2 inch pipe.

**H) REGULATOR BOARD INSTALLATION / REMOVAL.** See Figure 8, page 11.

**NOTE:** This unit is shipped from the manufacturer with the regulator board already installed. Follow these procedures should the regulator board need replacing or is removed for servicing.

**REGULATOR BOARD REMOVAL.** See figure 8.

1. Shut off the gas supply at the manual shut-off valve.
2. Disconnect gas line from the gasoline flex tube attached to valve.
3. Disconnect limit switch wires (C) from regulator valve.
4. Remove burner tube (B) from board assembly. Set aside.
5. Loosen and remove the (6) 1/4" nuts (A) and, while grasping the board, gently lift it off the (6) bolts and remove from unit.
REGULATOR BOARD INSTALLATION. See figure above.

**NOTE:** The unit is fitted with a gasket to seal the millivolt board. Make certain this gasket is properly placed around the opening before installing the regulator board.

1. Grasp the board with both hands and place into the unit, lining up the six 1/4" holes.

**CAUTION:** Before securing the board into place make sure that all of the wires (attached under the board) are clear and unobstructed.

2. Attach the 1/4" nuts(A) (included with the board assembly).
3. Connect the gas supply line to the manual shut-off.
4. Place burner tube (B) over orifice. Make sure that it is positioned properly.
5. Reconnect vent switch wiring by sliding the male connector (D) into one female connector (C) on the vent switch assembly.
6. Slide remaining female connector (C) (on vent switch assembly) onto center terminal (E) on regulator valve.
H) LOG INSTALLATION. See Figure 9.

1. Lay the back log in place, so cut-out portion is over the pilot assembly.
2. Lay the front log in place. Place close to the front burner, but not over the ports.
3. Place the back log into place against the rear of the chamber.
4. Place remaining logs in place aligning the pin holes to the pins as per figure 9.

Figure 9

The placement of the logs is very important.

A slight amount of impingement of the flame on the logs will enhance the fire, but too much impingement will cause carbon build up.

Hiding the burner with minimal impingement is the key.

<table>
<thead>
<tr>
<th>INITIAL BURN PERIOD</th>
</tr>
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<tbody>
<tr>
<td><strong>MAKE SURE THE HOMEOWNER IS AWARE OF THIS</strong></td>
</tr>
</tbody>
</table>

Due to the make up of the split fiber logs, the curing process may take up to 9 hours of burn time. During this period, the logs will give off a strong odor and will discolor. Once the curing process is complete, the true color of the logs will return and the odor will not return. Do not burn this fireplace without the glass properly in place.

Page 12
I) WALL SWITCH - THERMOSTAT - REMOTE INSTALLATION (optional). See Figure 11.

CAUTION: DO NOT CONNECT HIGH VOLTAGE WIRE TO THE SWITCH

1. If desired, a wall switch, thermostat, or remote control unit may be used to turn the unit off and on.

NOTE: Installation of a wall switch or thermostat should be only be done by a qualified installer.

2. Run low-voltage (thermostat) wire from the on/off switch, to the desired location of the wall switch. Do not run wire more than 30'.

NOTE: If using a remote control, a 9-volt battery is required in the receiver as well as the sender. No high voltage is required.

![Diagram showing wall switch and thermostat connection](image)

Figure 10

J) COMPLETE THE INSTALLATION

1. Complete the fireplace walls, and the unit facing.

CAUTION: The surrounding wood chase of the outside wall MUST be insulated to prevent cold air from entering the room.

2. Replace the glass. Refer also to Figure 4 page 6.
   a) Place the glass on the lower clip.
   b) Replace the top clip. Do not screw the clip down tight at this time.
   c) Replace the two side clips. Do not screw the clips down tightly at this time.
   d) Make certain the glass is in a level position.
   e) Tighten all clip screws.

3. Replace the face. Refer to figure 3, page 5.
   a) Slide the face onto the unit and replace the 2-1/4" nuts.
   b) Adjust to level.
   c) Tighten the bolts with a 7/16" wrench.
4. Install the grills.

**Upper grill**
- a) Line the rods of the grill up with the upper holes.
- b) Place the rods in the holes and push up until the bottoms of the rods clear the face.
- c) Place the bottom of the rod into the lower hole and release. The grill will set down into place.

**Lower grill - See Figure 11**
- a) The lower grill is attached to the hinges (A) located at the bottom of your unit.
- b) Remove the 1/4" nuts (B) from the lower grill assembly.

**NOTE:** Do not remove the 1/4" spacer (C).
- c) Slip the bolt through the hinge (A).
- d) Re-attach the 1/4" nuts (B).
- e) Repeat "a" through "d" for the remaining hinge.

The grill is now in place. The grill may be lowered for lighting purposes, etc.

![Figure 11](image)

5) Install the decorative glass trim. See figure 12.

- a) Place frame clip over the glass clip as shown. Place trim over the outer perimeter of the glass, catching the top trim clip and secure to outer perimeter of the glass with magnets (pre-installed at the factory). See figure 12.

![Figure 12](image)
K) LIGHTING AND SHUTDOWN. See Figure 13.

NOTE: Prior to lighting, check all fittings for leakage. This is accomplished by applying soapy water on all connections made. If there is any leakage bubbles will appear at the point of connection. If bubbles occur, tighten the fittings until the bubbles no longer appear. All connections made at the factory have been previously tested.

NOTE: The appliance must be isolated from the gas supply piping system by closing its individual manual shut off valve during any pressure testing of the gas line at test pressures equal to or less than 1/2 psig (3.5 kPa).

An 1/8 inch N.P.T. plugged tap is located on the right side of the regulator, (see Figure 11) immediately upstream of the gas supply connection to the appliance. This is used for test gauge connection.

NOTE: Read 1-7 before lighting the unit for the first time.

1. Open the lower grill by grasping the center of the top louver, and pull out and down.
2. Turn off all electric power to the appliance.
3. Push in control knob slightly and turn clockwise to "OFF".

Gas control knob shown in "on" position

NOTE: Knob cannot be turned from "PILOT" to "Off" unless knob is pushed in slightly. Do not force.

4. Wait five (5) minutes to clear out any gas. If you then smell gas, STOP! Follow the safety information on page 2 of this installation manual. If you don't smell gas, go to the next step.

5. Find the pilot - follow metal tube from gas control. The pilot is behind the burner tube.
6. Turn knob on gas control counterclockwise to "PILOT".
7. Push in control knob all the way and hold in. Press the RED igniter button. The pilot will generally light with two or three pushes on the igniter. Hold for about one (1) minute after the pilot is lit. Release knob and it will pop back up. Pilot should remain lit. If it goes out, repeat steps 3 through 7.
   • If knob does not pop up when released, stop and immediately call your service technician or gas supplier.
   • If the pilot will not stay lit after several tries, turn the gas control knob to "OFF" and call your service technician or gas supplier.

8. Turn gas control knob counterclockwise to "ON".
9. Flip the on/off switch (B) to the "on" position, the red is exposed.

NOTE: When the unit is initially lit, condensation will appear on the glass, this is normal in all gas fireplaces, and will disappear in one to three minutes.
10. If you wish to turn the burner off, flip the on/off switch. If a wall switch has been installed, simply turn it off.

NOTE: The pilot will stay lit.
11. To turn off the pilot, push in and turn the valve to the off position.
INITIAL BURN PERIOD

Due to the make up of the split fiber logs, the curing process may take up to 6 hours of burn time. During this period, the logs will give off a strong odor and will discolor. Once the curing process is complete, the true color of the logs will return and the odor will not return. Do not burn this fireplace without the glass properly in place.

**MAKE SURE THE HOMEOWNER IS AWARE OF THIS**

NOTE: A paint smell will occur during the first few hours of burning, it is recommended to leave the fan off during this period as this will speed up the paint curing process.

NOTE: Children and adults should be alerted to the hazards of high surface temperature and should stay away to avoid burns or clothing ignition. Young children should be carefully supervised when they are in the same room as the appliance.

Clothing or other flammable material should not be placed on or near the appliance.
1. The appliance should be inspected at least once a year by a professional service person.

NOTE: INSTALLATION AND REPAIR SHOULD BE DONE ONLY BY A QUALIFIED SERVICE PERSON. THE APPLIANCE SHOULD BE INSPECTED BEFORE USE AND AT LEAST ANNUALLY BY A QUALIFIED SERVICE PERSON. MORE FREQUENT CLEANING MAY BE REQUIRED DUE TO EXCESSIVE LINT FROM CARPETING ETC. IT IS IMPERATIVE THAT CONTROL COMPARTMENTS, BURNERS AND CIRCULATION AIR PASSAGEWAYS OF THE APPLIANCE BE KEPT CLEAN.

2. The compartment below the firebox (behind the lower grill) must be cleaned at least once a year, more frequent cleaning may be required due to excessive lint from carpeting, or other fibrous materials. It is imperative that the burner be cleaned once a year.

3. The fan should be disconnected from electrical current, removed, and cleaned every six months. The bearings are sealed and require no oiling.

4. Yearly examination of the venting system by a qualified agency is required. First, remove the glass on the front of the unit. The burner should be covered or removed.

5. Annual cleaning of the burner is required. The burner may be removed for easier access. See Figure 8.

6. Visually check the pilot light and burner when they are burning. See Figure 14. The flames should be steady, not lifting or floating.

7. Clean glass only when cool and only with non-abrasive cleansers.

CAUTION: Do not operate this appliance without the glass enclosure in place. Replace glass only with tempered pyrex (6mm). DO NOT OPERATE THIS APPLIANCE WITH BROKEN GLASS.

CAUTION: Keep the appliance area clear of combustible materials, such as gasoline and other flammable vapors and liquids.
M) TROUBLE SHOOTING GUIDE

NOTE: The regulator board includes the following items: Regulator, generator, pilot, piezo, electrode, rocker switch, burner, orifice and orifice holder. If any of these items are defective, replacement of the entire board is easier and would not void the warranty. Please contact your dealer if this becomes necessary.

WARNING: DO NOT ATTEMPT TO SERVICE THIS UNIT IF YOU ARE NOT A QUALIFIED INSTALLER OR REPAIRMAN.

1. If the unit fails to ignite a qualified service person should check the unit installation.

2. It is imperative that the control compartment, burner and circulation air passageways of the unit be kept clean. This is necessary to provide adequate combustion and ventilation air.

3. All of the working parts of this unit can be removed at one time. Before removing regulator board, check for loose wires.

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pilot won't light</td>
<td>Gas shut off</td>
<td>Turn Gas On</td>
</tr>
<tr>
<td></td>
<td>Gas line not bleed out</td>
<td>Hold valve knob in long enough to bleed out line.</td>
</tr>
<tr>
<td></td>
<td>Not holding regulator valve in long enough</td>
<td>Hold in longer</td>
</tr>
<tr>
<td>Pilot won't stay lit</td>
<td>Not holding pilot button in long enough</td>
<td>Hold button in longer to heat generator</td>
</tr>
<tr>
<td></td>
<td>Generator wires loose at regulator terminals</td>
<td>Reposition wire and tighten screws. See Figure 15 for wiring instructions.</td>
</tr>
<tr>
<td></td>
<td>Generator wire grounded out due to pinching of wires</td>
<td>Wing nut on regulator board may need loosening to remove pinched wire.</td>
</tr>
</tbody>
</table>

Figure 15
**Problem**

No spark when piezo button is depressed

**Cause**

- The nut which holds the piezo in place is loose.
- Wire on back of piezo button is loose or off.
- Wire from piezo to electrode is loose at electrode.
- Electrode moved out of position.

**Solution**

- Tighten nut.
- Put wire back into place.
- Reconnect wire.
- Realign electrode with 1/8" space between it and pilot.

Burner won’t light

**Cause**

- Pilot not lit
- Regulator valve not turned on
- Rocker switch not turned
- Rocker switch wire not connected

**Solution**

- Relight pilot
- Turn valve to "on"
- Press bottom of switch exposing the "Red" or "on" indicator.
- Check wiring diagram Figure 10 and ensure that all wires are secure.

Replacement parts are available through your local dealer. Contact them for availability and pricing.

<table>
<thead>
<tr>
<th>PART #</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>790</td>
<td>Brass face trim (3 pc.)</td>
</tr>
<tr>
<td>792</td>
<td>Brass face trim (4 pc.)</td>
</tr>
<tr>
<td>700007</td>
<td>17&quot; X 30&quot; Glass</td>
</tr>
<tr>
<td>700005</td>
<td>Brass Glass Frame</td>
</tr>
<tr>
<td>600103</td>
<td>100 CFM Fan</td>
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<tr>
<td>600102</td>
<td>Speed Control</td>
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<td>Piezo Ignitor</td>
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<td>700033</td>
<td>On/Off Toggle Switch</td>
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<td>700034</td>
<td>1/2&quot; Gas Valve</td>
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<td>700037</td>
<td>Pilot with Electrode</td>
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<td>700039</td>
<td>Adjustable Regulator - Natural Gas</td>
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<td>700040</td>
<td>Adjustable Regulator - LP</td>
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<td>Piezo Ignitor</td>
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<td>On/Off Toggle Switch</td>
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<td>Log Set</td>
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<td>Gas Line Flex Tube</td>
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Manufactured by:

Husson Mfg. Co., Inc.
110 South Main
Lakefield, MN 56150

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