

Caring for Your Furnace

How to Care for Your Furnace

WARNING: Danger of bodily injury or death. Turn off electric power supply at disconnect switch, fuse box or service panel before removing any doors or access service panels from unit.

ANNUAL UPKEEP NEEDED

It is recommended that a qualified service technician perform these maintenance checks at the beginning of each heating season.

CABINET FINISH

Clean cabinet with damp cloth. Never use abrasive cleaners. Cabinets are finished with heat resistant powder paint. Never refinish or paint.

FURNACE AREA

Keep the area near the furnace clear and free from combustible materials, gasoline and other flammable liquids and vapors.

COMBUSTION AND VENTILATION AIR

The combustion and ventilation air supply must not be blocked. Do not put anything in or on the furnace cabinet. For better circulation and more effective heating, do not place obstructions, furniture or other items closer than four-feet in front of the furnace or two-feet from each side of the furnace.

CLEANING BLOWER (IF APPLICABLE)

Shut off electricity. Clean any lint or dirt from fan blades, fan motor and exposed air passages.

BURNER CLEANING

If cleaning is required, contact a qualified service technician to clean and service burner. To remove burner(s):

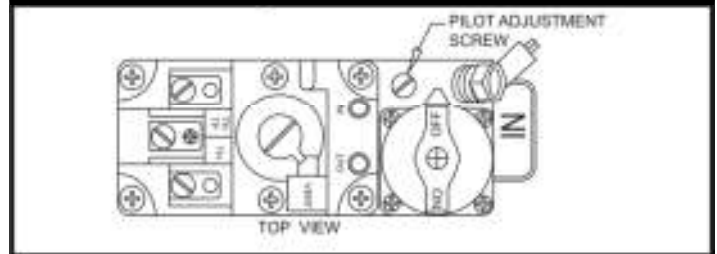
1. Open burner compartment door.
2. Shut off gas supply to furnace.
3. Disconnect gas line inside cabinet at ground joint union fitting. (Figure 24).
4. Remove (2) screws securing burner pan assembly to inner liner.
5. Pull burner pan assembly forward approximately 1/2-inch and drop down to expose the top of the burner.
6. Clean all foreign materials from the top of the burner.
7. After cleaning, replace burner pan assembly by reversing above procedure.

PILOT BURNER

Using the instructions in "Lighting the Pilot", leave thermostat at its lowest setting. Pilot flame should surround the generator tip 1/4 to 3/8-inches. If flame needs adjusting, do so as follows:

1. Insert small screwdriver into the pilot adjusting screw (Figure 23). Adjust flame as needed. Turn screw counterclockwise to increase flame, clockwise to decrease.
2. Turn thermostat to highest setting. Main burner should light quickly and smoothly. Turn thermostat to lowest setting. Main burner should go out. Pilot should remain lit.

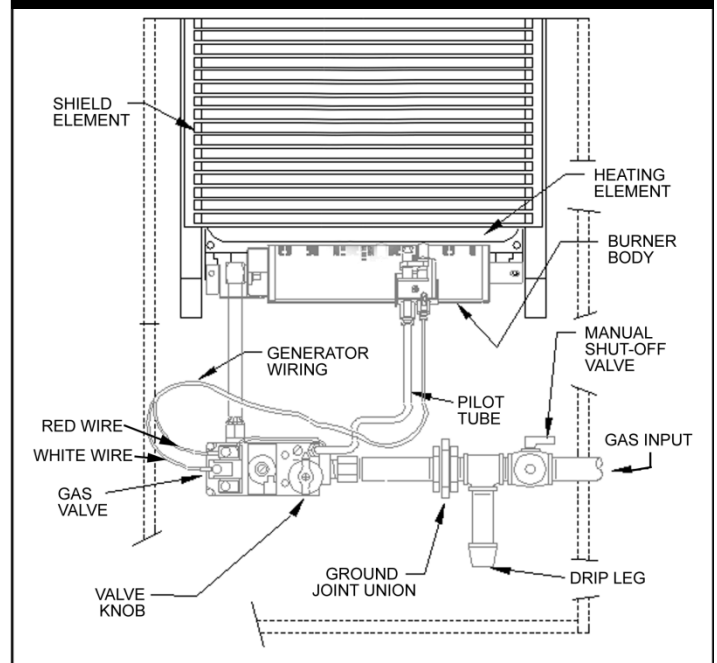
FIGURE 23 – Adjusting the Pilot



VENT SYSTEM

Make sure that no parts of the venting system are blocked or rusted. Clean or replace before using the furnace.

FIGURE 24 – Disconnecting Gas Line



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How to Care for Your Furnace (continued)

CLEANING THE BURNER COMPARTMENT

Because cold air is attracted to the flame during furnace operation, a buildup of lint from carpeting, bedding, dust, etc. in the burner area will occur. It is necessary to clean this area regularly. Use a vacuum cleaner with a narrow attachment to reach small areas. Be careful in and around the pilot. A change in its adjustment could be made if moved during cleaning. A properly adjusted burner with nearly all gases will produce a flame which has clear blue cone having a bluish-red or bluish-violet outer mantle.

DANGER: The build-up of any dust, lint or foreign material in the primary air opening of the burner can interfere with the proper air gas mixture and can result in a yellow flame which can produce carbon monoxide and soot. This condition, if allowed to develop, can lead to bodily injury including death. It is imperative that the burner be kept clean.

Installing Your Blower Accessory

Blower Accessory 2901 and 2907

This blower accessory is installed on the furnace top and increases circulation of warm air through the heated space. A 115V electrical outlet adjacent to the furnace is required. For automatic setting, you must select the "HI" or "LOW" fan switch position. When the furnace heats up, the automatic fan switch will be activated and the fan will operate. The blower accessory will not operate if the fan switch is set in the "OFF" (center) position. Be sure this accessory is of the type and design required for use with your furnace.

1. Turn off electric power supply at the disconnect switch, fuse box or service panel before installation or service to the blower accessory.
2. Label all wires prior to disconnection when servicing. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.
3. Install a 115V electrical outlet as shown in Figure A.
4. Remove the two (2) screws securing the blower grille and remove the blower grille as shown in Figure B.
5. Remove the two (2) screws securing the junction box cover. Remove the cover to gain access to the knockout located in the junction box.
6. Locate the knockout and remove it using a hammer and screwdriver. Use caution when handling sharp metal edges.
7. Place the blower body on furnace top as shown in Figure B.
8. Route 115V wiring into the junction box through the knockout.
9. Make wiring connections inside the junction box as shown in Figures C and D. Follow applicable local and national electrical codes. All electrical work must conform to your local codes and ordinances or in their absence, with National Electrical Code, NFPA 70/ANSI. If you are not

familiar with wiring codes in general, have a competent electrician do this job.

Drill a 1/8-inch diameter hole in each side of the furnace face panel through the holes located on the sides of the fan cabinet. Secure the blower to the furnace with the two screws provided.

10. Replace the junction box cover, securing it with the screws previously removed
11. Replace the blower grille, securing it with the screws previously removed.
12. Set the switch to the desired position. If left in "HI" or "LOW" position during the summer months, the blower could be activated by heat. If this is undesirable, set the switch to the "OFF" position.

CAUTION: Danger of property damage, bodily injury or death. Turn off electric power supply at the disconnect switch, fuse box or service panel before removing or working on the fan cabinet.