

Caring for Your Furnace

How To Care For Your Furnace

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

CABINET FINISH

Clean the cabinet with damp rag. Never use abrasive cleaners. Cabinets are finished in a heat resistant powder coat finish - DO NOT refinish with wall paint.

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 obstructive furniture closer than four feet to the front of the cabinet or two feet to either side of the cabinet.

FURNACE AREA

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

ANNUAL UPKEEP NEEDED

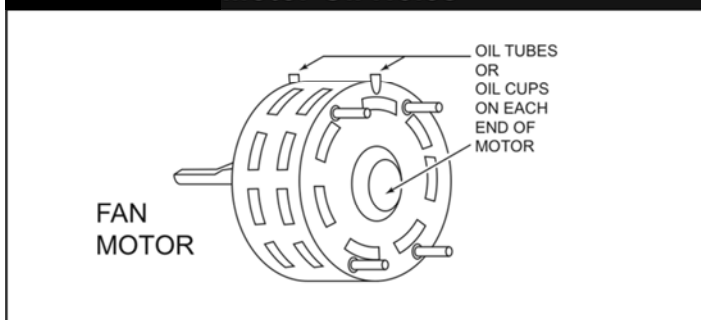
It is recommended that a qualified service technician perform these checks at the beginning of each heating season.

CLEANING AND OILING

Shut off electricity, and then remove cabinet door and front panel. Clean any lint or dirt from fan blades, fan motor, and exposed air passages. Use a brush.

Put 5 drops of SAE 20 oil in each of the two cups or oil tubes on the fan motor, See Fig. 28, below.

FIGURE 28 Motor Oil Holes



PILOT BURNER

Light the pilot using instructions in OPERATING YOUR FURNACE (pages 22 thru 27, depending on your model). Leave thermostat at lowest setting.

The pilot flame should surround the thermocouple tip 5/8 to 1/2-inch. Refer to Page 29, Fig. 30. If the flame needs adjusting, do it as follows:

ADJUST PILOT BURNER (Page 28, Fig 29 & Page 29, Fig 30)

1. Remove the screw cover over pilot adjusting screw.
2. Insert small screwdriver, adjust the flame as needed. Turn the screw counterclockwise to increase the flame, clockwise to decrease.
3. Turn the thermostat to its highest setting. The main burners should light quickly and smoothly. Turn the thermostat to its lowest setting. Main burners should go out. The pilot should remain lit except for electronic ignition models. See Page 22.

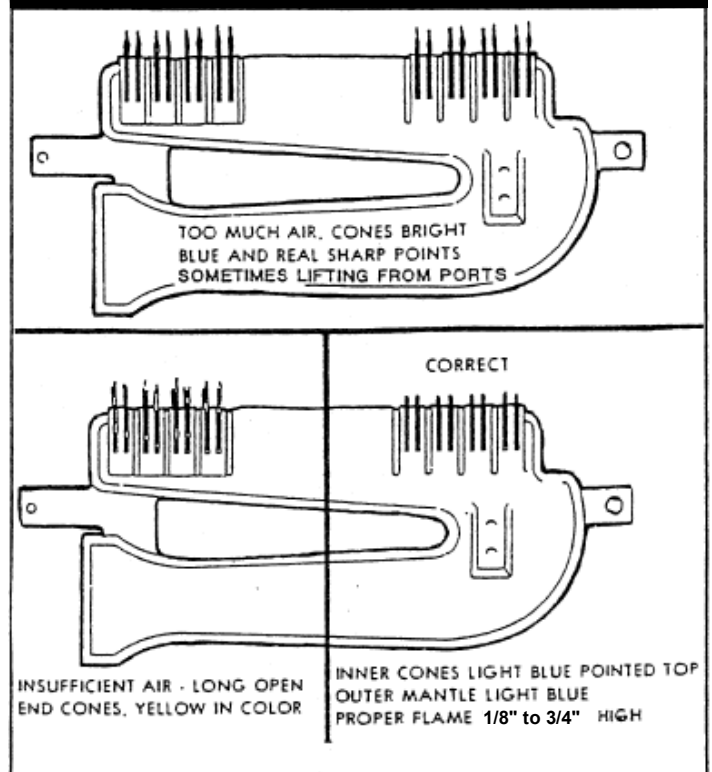
BURNER FLAME

Start the furnace and let it operate about 10 minutes then look at the burner flame. Flames should be soft and blue, see Fig. 29. If flames appear abnormal, contact the gas company or a qualified service technician immediately.

VENTING SYSTEM

Make sure that no parts of the vent air system are blocked, rusted or damaged (including joint gaskets). Clean or replace before using furnace. See Page 14 and 15 for proper assembly and resealing of vent-air system.

FIGURE 29 Main Burner Flame Pattern



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BURNER CLEANING

Check burner. If cleaning is required, contact a qualified service technician to clean and service the burner.

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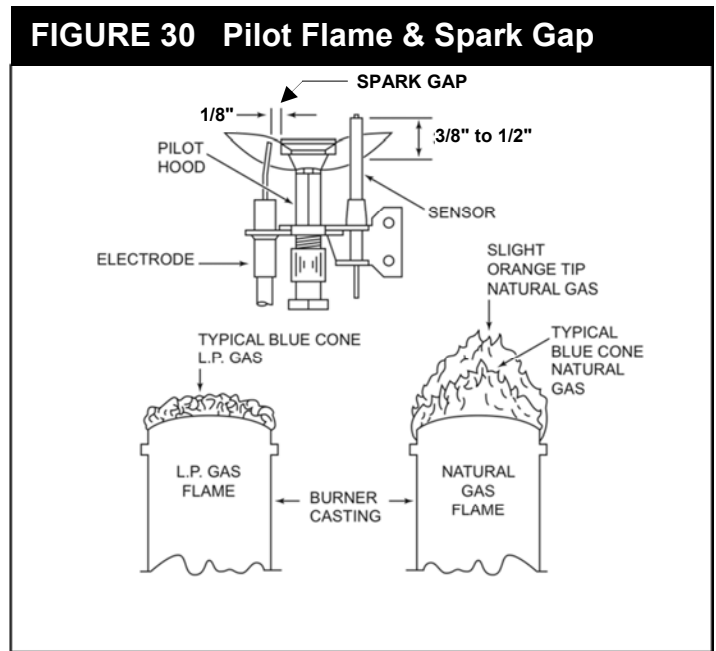
Disconnect the gas line inside the cabinet.

Remove three screws from the front of the combustion chamber bottom panel and drop the assembly down. Clean inside the combustion chamber and the burner with a shop type vacuum cleaner.

To remove burners remove screw from the end of the burner and slide the burner out of its bracket (it may be necessary to slightly spring the bracket).

Inspect the Burner Box gasket. Replace if damaged.

Replace burner assembly and control assembly by reversing the above procedures.



Check the spark gap. It must be carefully adjusted to specifications, as illustrated (Fig. 30), for the ignition device to function properly.

Furnace Technical information

| Furnace Technical Information | | | | | | |
|-------------------------------|----------|----------------------|------------|---------------------|-------|------|
| Model Number | Gas Type | ** Rating in Btu/hr. | | Main Burner Orifice | | |
| | | Input | HTG CAPAC. | DRILL | DEC. | QTY. |
| 4007332 | NATURAL | 40,000 | 31,732 | #32 | .1160 | 1 |
| 4007331 | L.P. | 40,000 | 32,356 | #48 | .0760 | 1 |
| 4007732 | NATURAL | 40,000 | 32,216 | #32 | .1160 | 1 |
| 4007731 | L.P. | 40,000 | 32,275 | #48 | .0760 | 1 |
| 5507332 | NATURAL | 55,000 | 42,231 | #41 | .0960 | 2 |
| 5507331 | L.P. | 55,000 | 44,589 | #52 | .0630 | 2 |
| 6007732 | NATURAL | 60,000 | 47,059 | #38 | .1010 | 2 |
| 6007731 | L.P. | 60,000 | 47,167 | N/A | .0640 | 2 |

The efficiency rating of these appliances is a product of a thermal efficiency rating system determined under continuous operating conditions and was determined independently of any installed system.

**For elevations above 2,000 feet reduce ratings 4% for each 1,000 feet above sea level.

**Btu/hr. = British Thermal Units per hour.