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Payne

installation instructions

579C

PROPANE CONVERSION KIT

Sizes 240450, 300600, & 360600 Series B & C

Cancels: New

40579DP421-A
12/15/79

These instructions cover field installation of the propane conversion kits on sizes 240450, 300600, and 360600 of Model 579C. The kit part number plus the components of each kit are listed in Table I.

Figure 1 is an illustration of the gas controls and manifold of a 240450-size unit. See Figure 2 for 300600- & 360600-size units.

I. INSTALLATION PROCEDURES

WARNING: Turn off power at main disconnect switch and close main gas valve. Tag disconnect switch with suitable warning label.

1. Disconnect combustion blower motor leads.
2. Remove flue collector assembly.
3. Remove flue baffles. Inspect and clean flue passage if necessary.
4. Install flue baffles provided in kit. Reinstall flue collector assembly.
5. Disconnect pilot feed tube at each pilot.
6. Remove burners. Save burner retainer clips.
7. Remove pilots from old burners and install new pilot orifices.
8. Install pilots on new burners with pilot brackets supplied in kit.
9. Remove burner orifices from manifold(s) and install new orifices from kit.
10. Install new burners and secure with new burner retainer bracket and old burner retainer clips.
11. Align burner carry-over ports and secure by using burner alignment clips and pins.
12. Attach pilot feed tubes to pilots.
13. Remove pilot feed tube and pilot gas cock from right-hand gas valve (gas valve A).
14. Remove gas valve(s) from unit and replace with gas valve(s) provided in kit. Use reducing nipples on 240450 size as required. Use joint compound (pipe dope) that is resistant to action of liquefied petroleum gases.
15. Connect pilot gas cock and pilot feed tube to right-hand gas valve.
16. Reconnect combustion blower motor leads. Check unit wiring diagram for correct wiring.
17. Install gas conversion tag under one of the unit rating plate screws.

II. HEATING STARTUP AND ADJUSTMENTS

Make certain that gas supply pipe has been purged, and all gas piping leaked-checked before starting the unit.

WARNING: Never purge lines into a combustion chamber. Use a soap-and-water solution. Do not use matches, candle, flame, or other sources of ignition when checking for leakage.

Turn on electrical power and gas supply to the unit. Place heating section in operation per instructions on unit rating plate. Check unit operation on both stages of heating.

A. Adjusting Gas Input

The heating section on the 240450 size is equipped with one 2-stage gas valve and one manifold. The 300600 and 360600 sizes use two 2-stage gas valves and two manifolds.

The burner orifices are sized for correct rating plate input when manifold pressure is 11.0 inches water column with unit operating on "high-fire" (both stages of heating in operation).

TABLE I—PROPANE CONVERSION KITS

Component Description	Component P/N	Size 250450	Sizes 300600 & 360600
		Conversion Kit P/N 305063-704	Conversion Kit P/N 305063-705
Burner Assy	56494CA31	18	24
Burner Retainer Bracket	59749C2	18	24
Burner Alignment Clip	68969D1	12	18
Pin	68971D1	12	18
Burner Orifice	56400D54	18	24
Pilot Bracket	56327D3	3	3
Pilot Orifice	56408D3	3	3
Flue Baffle	60935CØ4	18	24
Gas Valve	70680C3	1	2
Reducing Nipple	TBP3224M	2	—
Gas Conversion Tag	51595D	1	1
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NOTE: On the 300600 and 360600 sizes, the "high-fire" adjustment on each gas valve must be set for 11.0 inches water column at its associated manifold. Perform steps 1, 2, and 3 for each gas valve and manifold on these sizes.

1. Turn off gas to unit.
2. Remove 1/8-inch pipe plug from gas manifold and connect manometer at this point.

CAUTION: If spring manometer is used, make certain manometer is calibrated.

3. Turn on gas and electrical power to unit. With burners fired and unit operating on "high-fire," set "high-fire" adjustment on gas valve for manifold pressure of 11.0 inches water column.

NOTE: The slotted-head sealing plug must be removed to gain access to the "high-fire" adjustment screw.

4. Turn off gas to unit. Remove manometer and replace 1/8-inch pipe plug. Turn on gas to unit.

B. Adjusting Burner Air Shutters

1. With burners fired, close air shutters until there is a slight yellow tip on each flame, then open shutter until yellow tip just disappears. Secure shutters with locking screws after adjusting primary air to each burner.
2. Replace all panels.
3. Installation is complete.

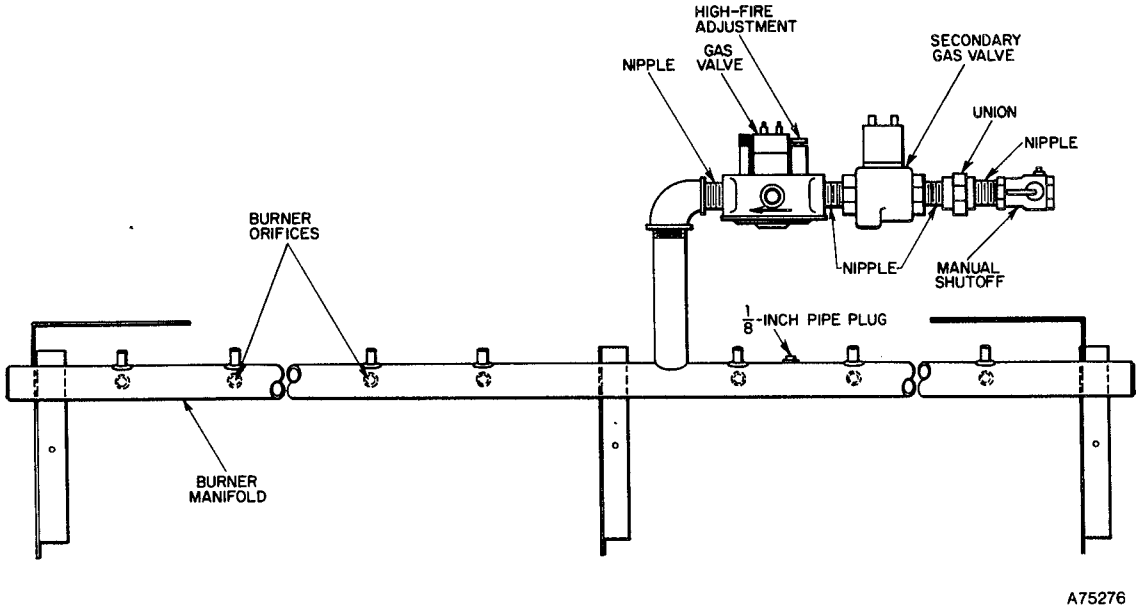

Figure 1—Gas Controls and Manifold Assembly—240450 Size

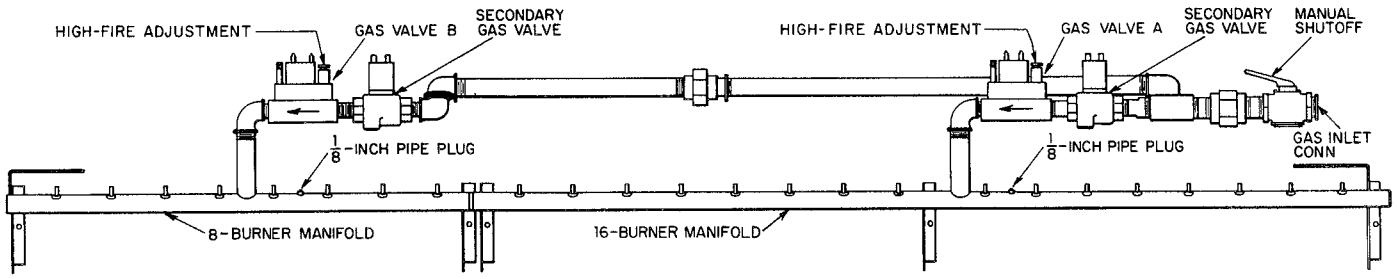

Figure 2—Gas Controls and Manifold Assemblies—300600 and 360600