

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

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PROPANE TENT HEATERS

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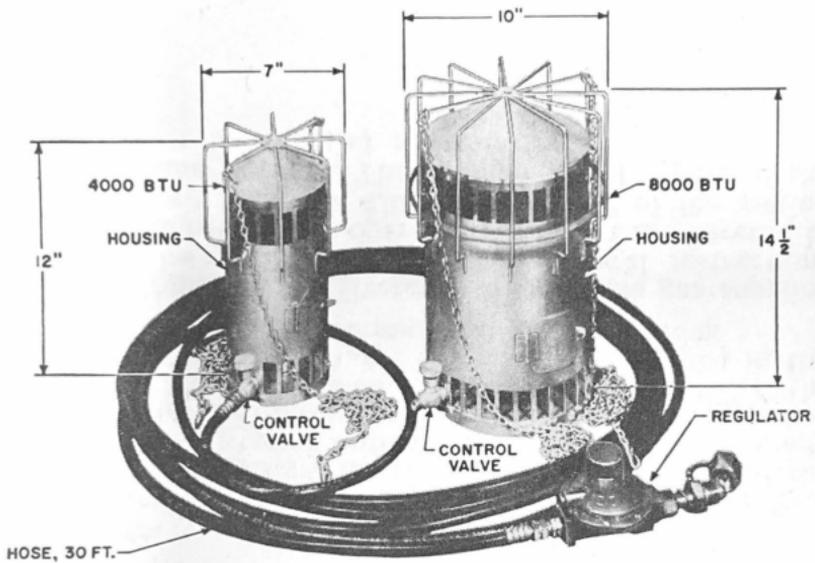
1. GENERAL

1.01 This section replaces Issue 1 and describes the Propane Tent Heaters used in heating the interior of the B and C Ladder Tents and outlines the precautions that should be followed in using the heaters. The section has been reissued to include the 8000 B.T.U./hr heater. The 2000 B.T.U./hr heater is discontinued but those on hand may be used in the manner outlined for the 4000 and 8000 B.T.U. heaters.

1.02 The Propane Tent Heaters burn propane gas supplied from the B Propane Cylinder. General instructions covering the use of propane operated equipment are covered in Part 3 and Paragraphs 4.01, 4.02, 6.01, and 6.02 of the section on the B Propane Furnace. The cylinder is not a part of the heater and must be supplied separately.

2. PROPANE TENT HEATERS

2.01 The heaters are illustrated. Only one hose and regulator are shown. The hose and the Bastian-Blessing Company's Rego #2303 low-pressure regulator are supplied with the heaters.



4000 AND 8000 BTU PROPANE TENT HEATERS

3. PRECAUTIONS

3.01 In addition to the precautions listed in Paragraph 5.01 of the section on the B Propane Furnace, the following precautions should be observed:

- (a) Use a low pressure regulator with the heater. The Bastian-Blessing Company's Rego #2303 or an equivalent regulator may be used. These regulators are pre-set by the factory to furnish propane to the heater at a pressure of about 6 ounces. No adjustment of the regulator is necessary. Early heaters were furnished with Roney #60 regulators.
- (b) Avoid contact with the hot upper half of the heater when in use.
- (c) Keep the upper half of the heater away from the safety strap, clothes, tent fabric, shoes, wood, rope, etc., when in use.

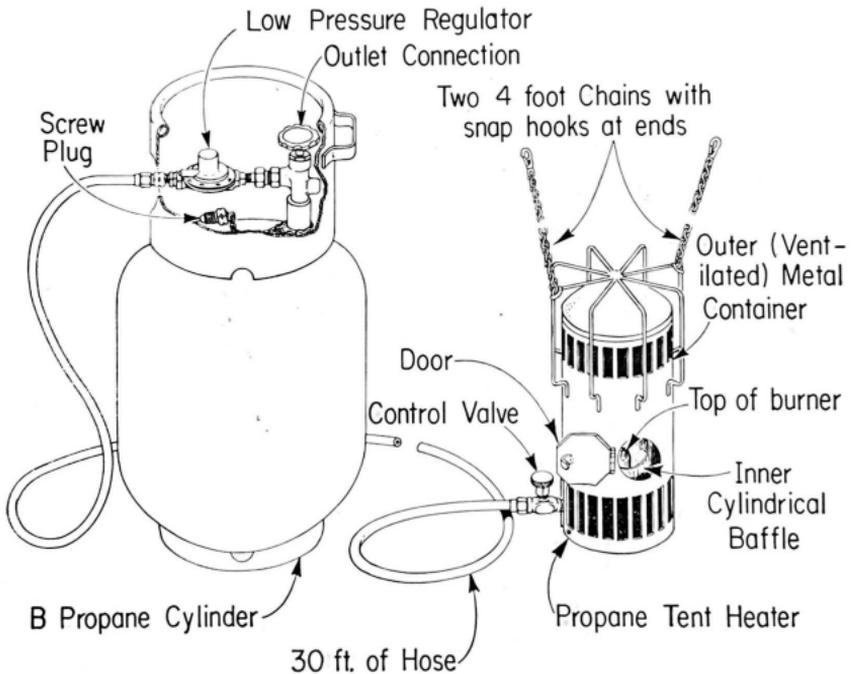
(d) Inflammable materials such as wire clippings, kerosene soaked clothes, etc., must be kept clear of the upper half of the heater.

(e) The heater should be turned off and hung from the strand outside the tent or lowered to the ground before hot paraffin is brought into the tent. After the boiling-out operation, the tent shall be ventilated before the heater is brought into the tent and relighted.

(f) The heater **MUST NOT** be used in a manhole, or above manholes in the manole tents. ←

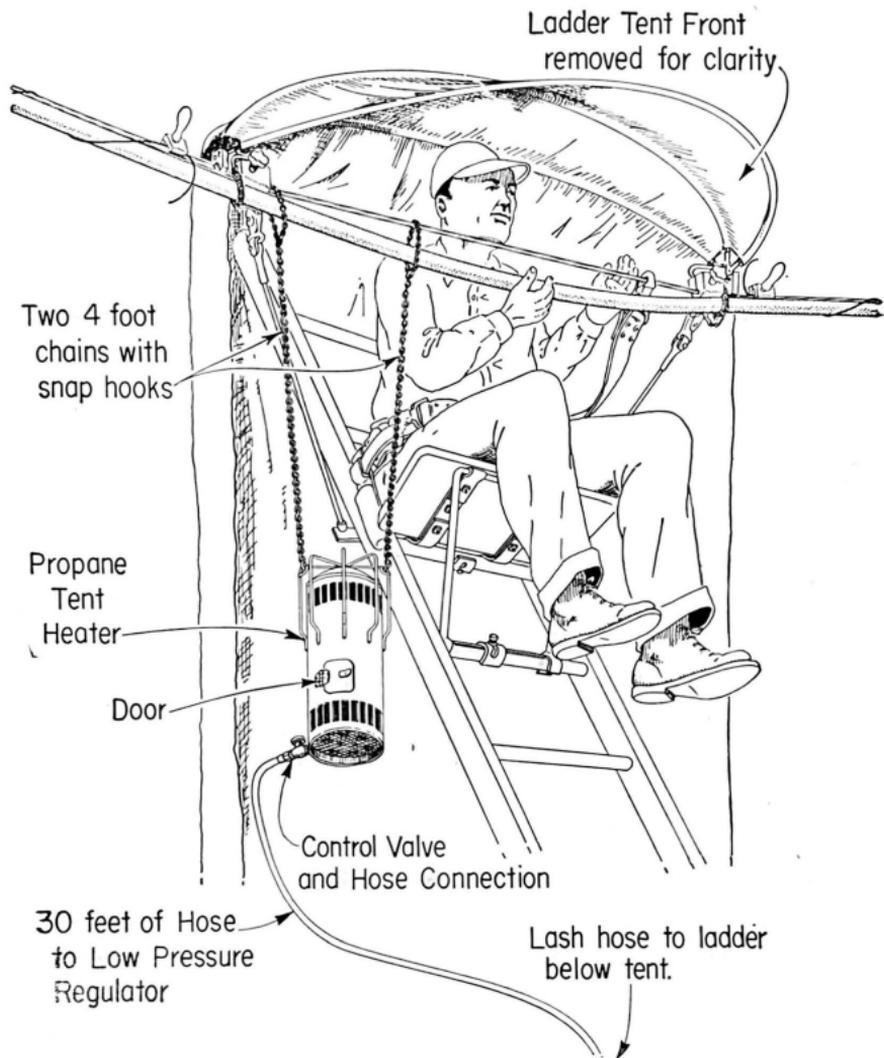
4. OPERATION

4.01 Connect the regulator to the B Propane Cylinder. Connect the 30-foot hose to the regulator and the heater, and test all hose connections for escaping gas in accordance with Bell System Practices Section G81.835.1 Paragraph 6.01. ←



4.02 The B Regulator Wrench should be used for tightening connections on the regulator and hose.

4.03 Close the control valve on the heater, and then suspend the heater in the desired position by attaching the 4-foot long supporting chains over the strand or the tent supports as shown in the following illustration.



4.04 **Lighting.** The heater may be lit by a match or with a commercial gas appliance lighter such as the "Shoot-A-Lite."

4.05 Open the propane cylinder valve. When ready to light the heater, open the small door and after opening the control valve, ignite the gas with the Shoot-A-Lite or a lighted match held near the burner. Then close the door and turn the valve to the fully open position. When lower heat output is desired adjust the control valve to a lower flame.

4.06 In the inside of the heater, the burning propane appears as a clean blue flame visible through the ventilating holes in the outer and inner metal cylinders as a check

on the burner operation. When the burner unit is warming up an occasional luminous yellow tip may be seen at the ends of the flame. This should disappear completely after five minutes operation. If yellow tips are continuously visible after the warming up period, this indicates that the burner is not operating properly and the heater should be removed from service immediately.

4.07 When the burner is full on, the rush of air being drawn into the burner creates an audible hiss, which decreases in volume if the control valve is at a lower setting.

4.08 A strong odorant which is added to propane gas can be smelled any time the gas is escaping. If the flame should go out, the odor of the gas can be detected immediately. In this event close the control valve and ventilate the tent before relighting the burner.

4.09 Extinguishing: Turn the heater off before leaving the platform by closing the control valve.

5. MAINTENANCE

5.01 When the inner and outer metal cylinders require cleaning remove the control valve and burner assembly first, clean the cylinders with a wire brush and reassemble. Do NOT attempt to clean the orifice in the base of the burner below the air holes. If the orifice becomes clogged it should be returned for repair in accordance with local instructions.

5.02 Heater replacement parts are as follows: ↗

Burner, for (4000 BTU or 8000 BTU) Propane Tent Heater (made up of aluminum casting, orifice, asbestos baffle and burner head(s)).

Hose, 30 ft. for B Propane Furnace.

Housing, for (4000 BTU or 8000 BTU) Propane Tent Heater (made up of inner and outer cylinders, cone top, bottom plate, wire guard, and chains with snaps).

Regulator, for Propane Tent Heater (includes inlet and outlet fittings and captive cap).

Valve, Control, for Propane Tent Heater.

6. SUPERSEDED PROPANE TENT HEATER

6.01 The 2000 BTU Propane Tent Heater is discontinued. The hose, regulator and control valve listed above may be used with the 2000 BTU Heater. When other parts are needed this heater should be replaced by one of the previously described heaters. ↙

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