

Section IX

Utility System

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Section IX

Utility System

9-1. HEATING AND VENTILATING. (Figure 9-1.)

9-2. DESCRIPTION. The combustion heater assembly is provided as optional equipment and provisions are made in the equipment compartment aft of Station 130.0 for heater installation. Air for cabin ventilation is furnished by a ram air scoop mounted under the forward transmission fairing. Four adjustable valves, located in forward and aft cabin roof, provide air distribution. Additional ventilating air may be obtained by sliding windows installed in each entrance door. Refer to Service Instruction 206-2, 206-43, or 206-77, as appropriate, for heater installation and maintenance instructions. Ships 254 and subsequent incorporate an improved cabin ventilating system. See figures 9-2 and 9-3 for major differences.

9-3. NOZZLE ASSEMBLY – WINDSHIELD DEFOG.

9-4. DESCRIPTION. Nozzles are installed on each side of the console for distribution of windshield defogging air. Air is supplied by two blowers mounted on the forward end of the nozzles and controlled electrically by an ON-OFF breaker switch mounted on the overhead panel.

9-5. HEATER DUCT REPAIR. (Refer to Section XIV.)

9-6. BLOWER ASSEMBLY.

9-7. REMOVAL – BLOWER ASSEMBLY.

a. Disconnect battery.

b. Disconnect electrical lead (red wire) at quick disconnect and disconnect the black lead from ground terminal. (See wiring diagram, Section XIII.)

c. Unsolder wire at filter. Remove filter. (Helicopters 154 thru 2211).

d. Loosen clamp securing blower to nozzle and remove blower. Feed lead wires through hole in nozzle.

9-8. INSTALLATION – BLOWER ASSEMBLY.

a. Feed motor leads through hole in nozzle.

b. Position blower in forward end of nozzle and tighten clamp.

c. Solder wire to filter.

d. Connect red lead wire connector. Connect black lead to ground terminal. (See wiring diagram, Section XIII.) Connect battery.

9-9. TROUBLESHOOTING – BLOWER ASSEMBLY. (Refer to Section XI.)

9-10. EXTERNAL HOIST.

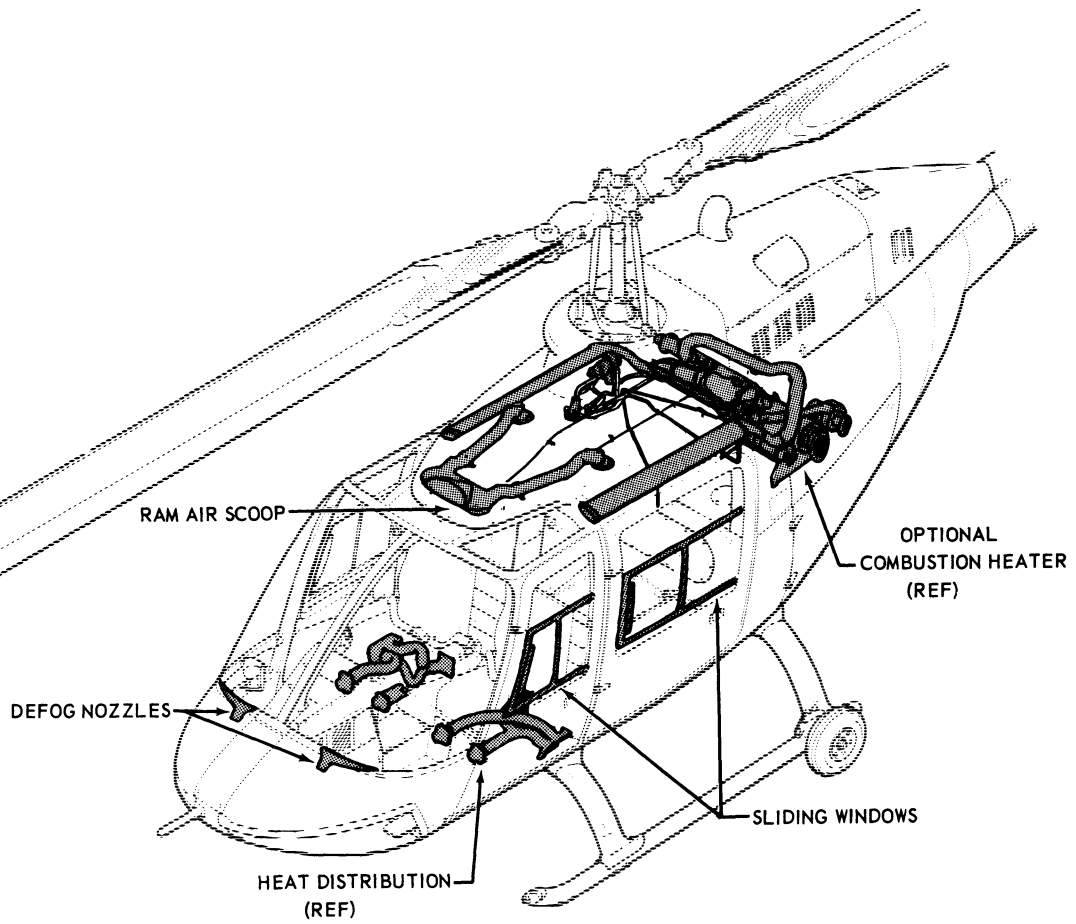
An externally mounted light utility hoist is available as optional equipment. The hoist permits delivery or pick up of cargo from areas not suitable for a helicopter landing. The installation consists of hoist provisions and a hoist kit.

a. Hoist provisions consists of the pilot cyclic grip assembly, master control panel, structural provisions, hoist supports, guard assemblies for the skid gear and fuselage and the necessary hardware and electrical components.

b. Hoist kit adds the hoist motor and winch assembly, mounting frame, crewman pendant control, and the necessary hardware and electrical components to complete the installation.

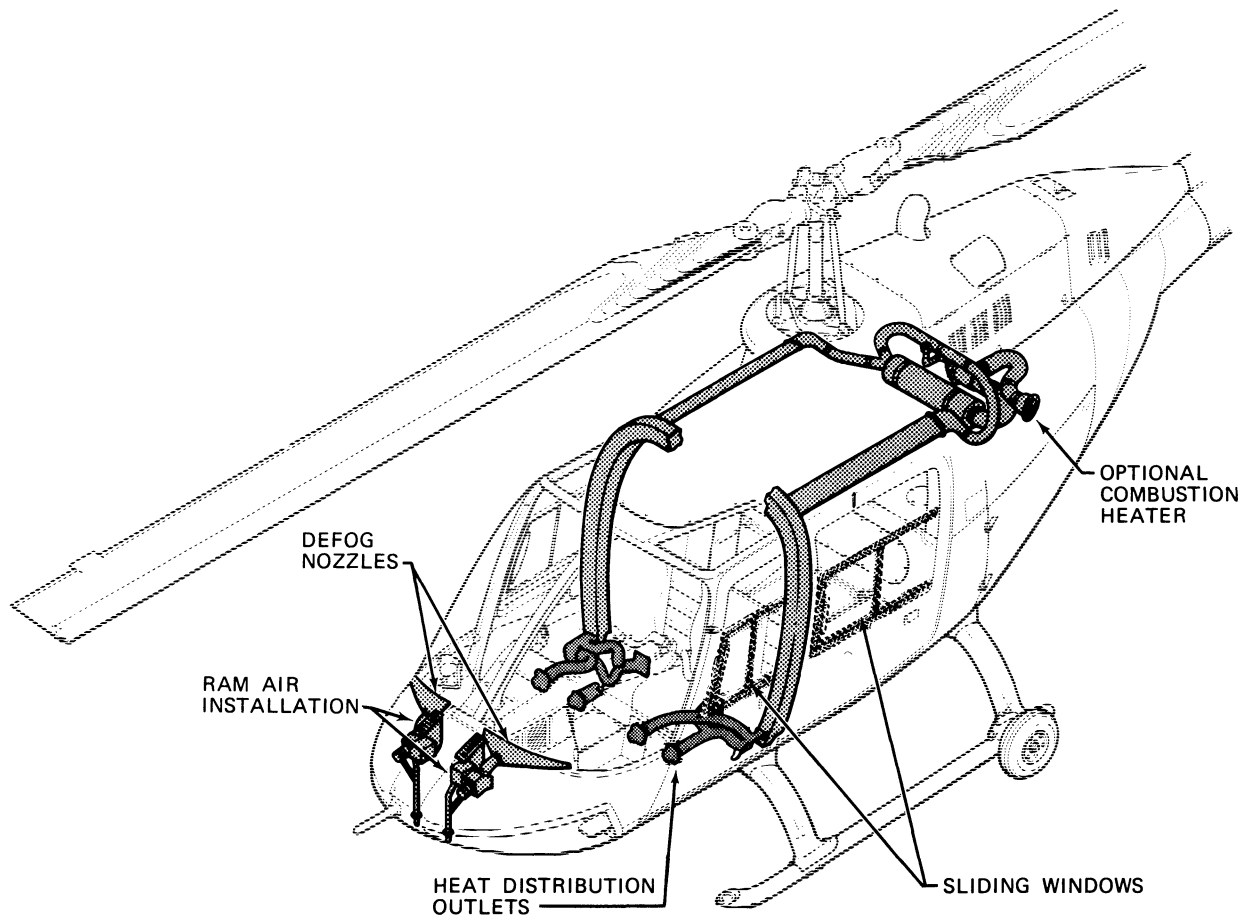
c. The hoist, built by Breeze-Eastern Corp., is capable of lifting a maximum of 300 pounds at 55 feet per minute. Hoist is supplied with 110 feet of usable cable.

d. Refer to Bell Helicopter Textron Service Instruction No. 206-64 and Breeze-Eastern Corporation manual No. TD-83-000 for maintenance instructions.



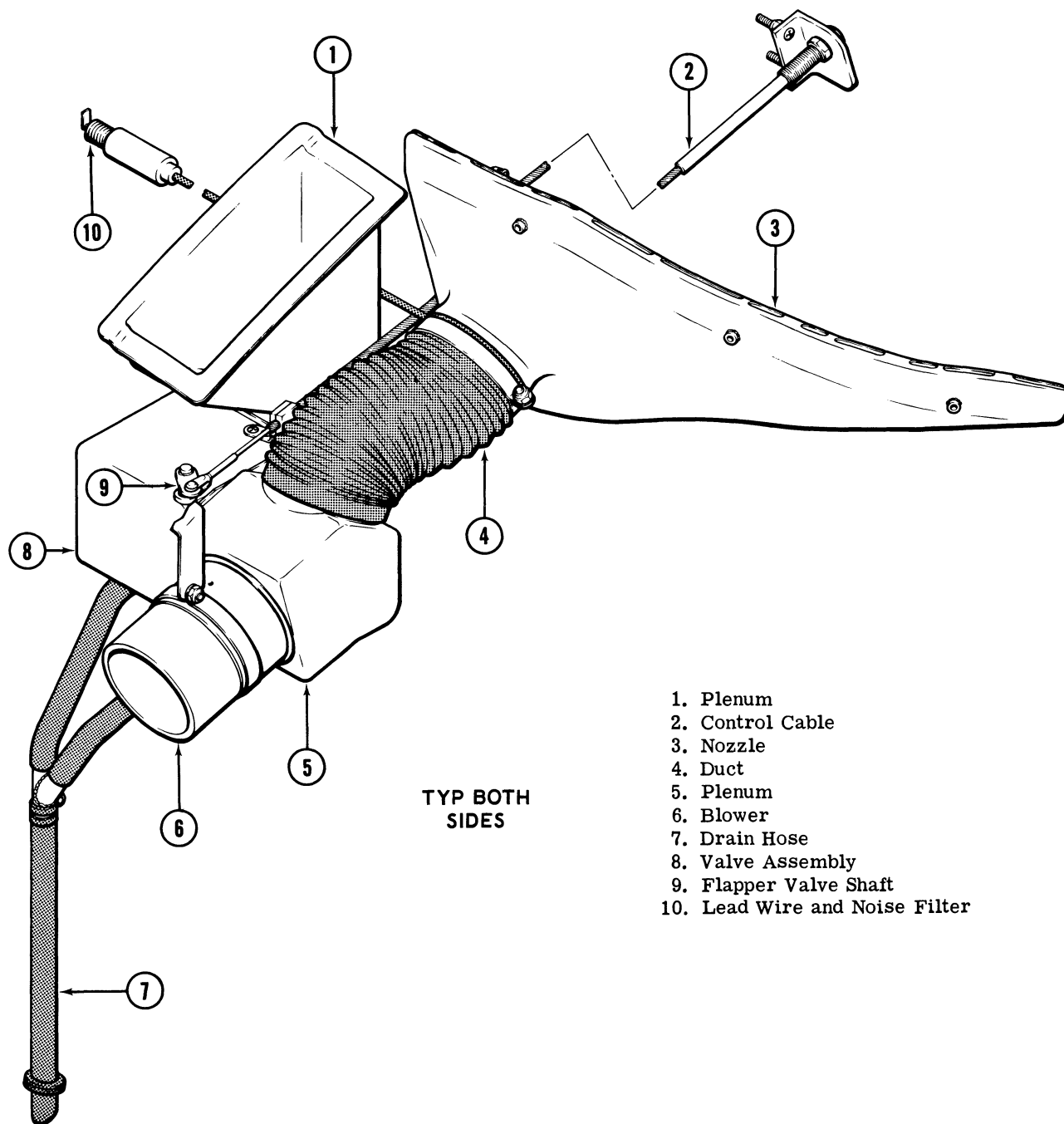
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Figure 9-1. Heating and Ventilating System



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Figure 9-2. Cabin Ventilating System (Helicopters 254 and Subsequent)



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Figure 9-3. Defog Nozzle and Ventilation System (Helicopters 254 and Subsequent)