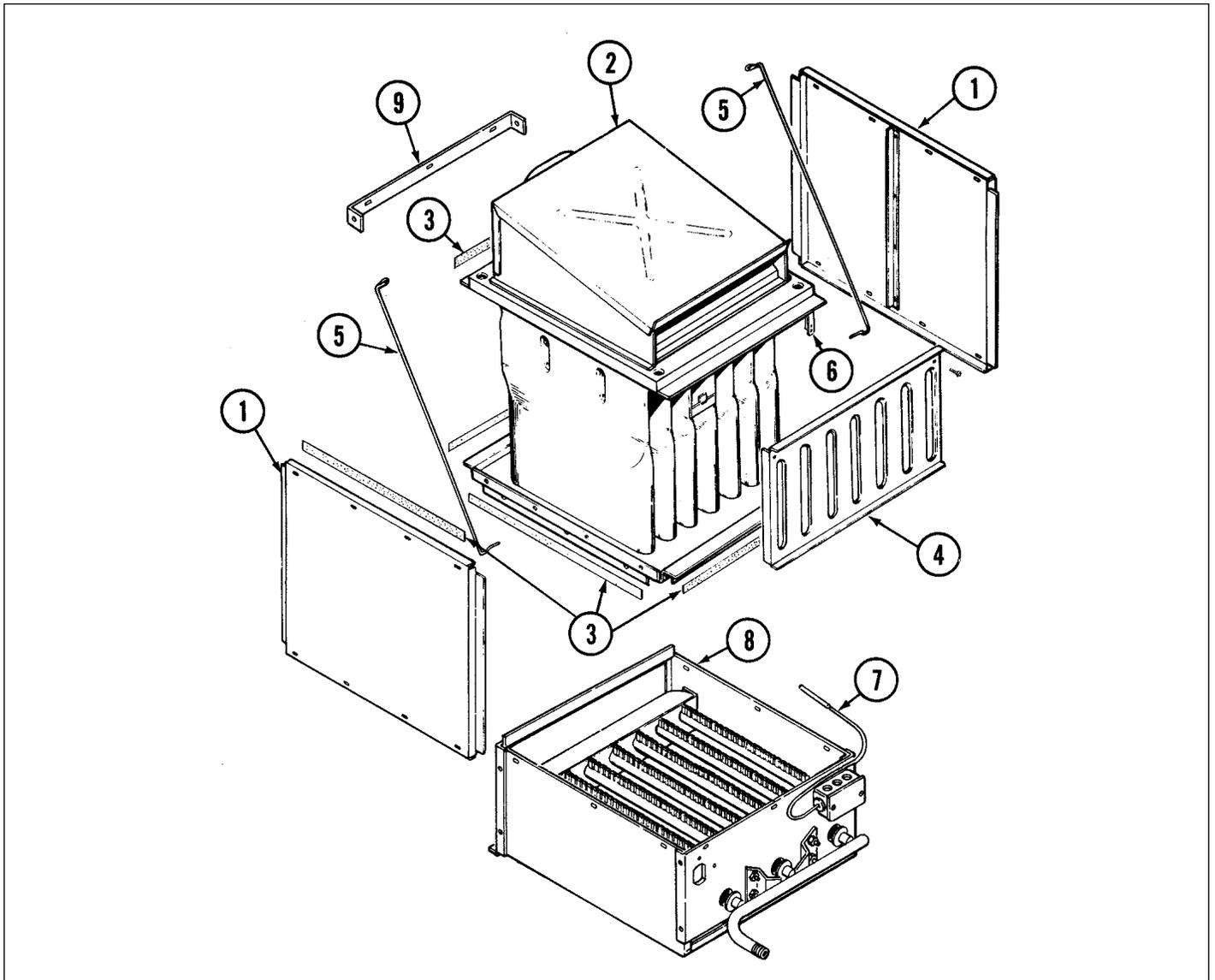




HEAT EXCHANGER REPLACEMENT models DG, DJ, and DJE gas-fired duct furnaces



Replacement

The following replacement instructions are applicable to both aluminized-steel or stainless-steel heat exchangers. Both carry the same Modine parts warranty but must be properly replaced in the duct furnace to qualify. To replace the heat exchanger, the duct furnace must be detached from its mounting position and its duct work. Before unit detachment, switch off electric power and shut off gas supply. Then, disconnect the electrical power and control wiring, gas piping and vent stack.

Disassembly

Refer to above exploded-parts view drawing for relative positions when dismantling the parts that enclose the gas-fired duct furnace heat exchanger.

1. Take off both side panels (1) fastened to the heat exchanger (2). Discard old sealing gasket (3).
2. Remove air baffle (4) held in place by its two side support rods (5) and angle extension supports (6). (Angle supports furnished only on models DG and DJ 225, 295, 300, 340, 350, and 400 and models DJE 150, 200, 225, 250, 300, 350, and 400).

HEAT EXCHANGER REPLACEMENT

3. Detach overheat control sensing tube (7). The tube is secured to a mounting rod with speed clips between the heat exchanger tubes and a grommet in the bottom header.
4. The heat exchanger set directly on the burner box assembly (8) and is lifted off after removing the retaining sheet metal screws. Also take off screws securing the burner-trim channel (9).

Reassembly

Replacement of a new heat exchanger on the burner box should be followed by reassembly of all parts around the heat exchanger in the reverse order of disassembly.

IMPORTANT! New sealing gaskets (3) are furnished with an adhesive back to facilitate attachment to heat exchanger

headers. The new seals should be folded over the outside bottom right angles of the bottom header to form an effective seal in two directions between the burner assembly and heat exchanger assembly.

Line up burner assembly so the ports of the burner are under and directly in line with the center of the heat exchanger tubes to keep the flame from impinging on heat exchanger tube walls during operation.

Refer to wiring diagram on unit and in installation manual for electrical connections, for unit re-installation, and proper combustion adjustments.

INSTALLATION NOTE: Duct connections between furnace and duct work must be airtight. Air leakage can cause flame disturbance and heat exchanger failure.