

SERVICE PROCEDURES

⚠ WARNING: To avoid risk of burn and electrical shock, never attempt to service heater while it is plugged in, operating, or hot.

UPPER SHELL REMOVAL

1. Remove screws along each side of heater using 5/16" nut-driver. These screws attach upper and lower shells together. See Figure 10 or 11.
2. Lift upper shell off.
3. Remove fan guard.

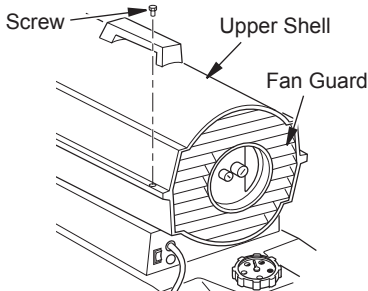


Figure 10 - Upper Shell Removal, 40/50/55/60/70 Models Only

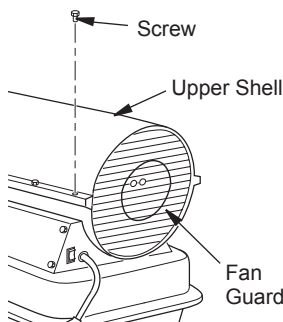


Figure 11 - Upper Shell Removal, 110/115/155/165/200 Models Only

FAN

IMPORTANT: Remove fan from motor shaft before removing motor from heater. The weight of the motor resting on the fan could damage the fan pitch (see Figure 12).

1. Remove upper shell (see Figure 10 or 11).
2. Use 1/8" allen wrench to loosen setscrew which holds fan to motor shaft.
3. Slip fan off motor shaft.

4. Clean fan using a soft cloth moistened with kerosene or solvent.
5. Dry fan thoroughly.
6. Replace fan on motor shaft. Place fan hub flush with end of motor shaft (see Figure 13).
7. Place setscrew on flat of shaft. Tighten setscrew firmly (40-50 inch-pounds/4.5-5.6 n-m).
8. Replace fan guard and upper shell.

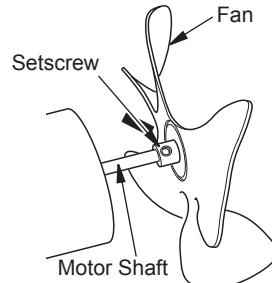


Figure 12 - Fan, Motor Shaft, and Setscrew Location

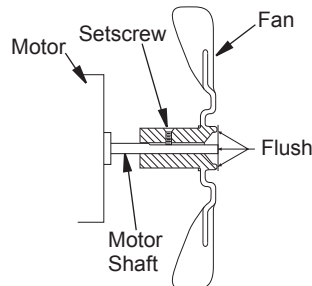


Figure 13 - Fan Cross Section

AIR OUTPUT, AIR INTAKE AND LINT FILTERS

1. Remove upper shell (see Figure 10 or 11).
2. Remove filter end cover screws using 5/16" nut-driver (see Figure 14 or Figure 15, page 10).
3. Remove filter end cover.
4. Replace air output and lint filters.
5. Wash or replace air intake filter (see *Preventative Maintenance Schedule*, page 7).

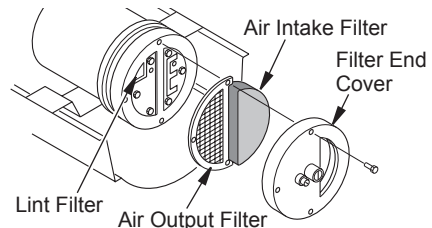


Figure 14 - Air Output, Air Intake, and Lint Filters, 40/50/55/60/70 Models Only

SERVICE PROCEDURES

Continued

6. Replace filter end cover.
7. Replace fan guard and upper shell.

IMPORTANT: Do not oil filters.

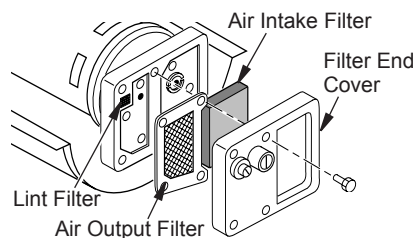


Figure 15 - Air Output, Air Intake, and Lint Filters, 110/115/155/165/200 Models Only

PUMP PRESSURE ADJUSTMENT

1. Remove pressure gauge plug from filter end cover (see Figure 16).
2. Install accessory pressure gauge (part number HA1180).
3. Start heater (see *Operation*, page 5). Allow motor to reach full speed.
4. Adjust pressure. Turn relief valve to right to increase pressure. Turn relief valve to left to decrease pressure. See specifications correct pressure for each model (see Figure 17).
5. Remove pressure gauge. Replace pressure gauge plug in filter end cover.

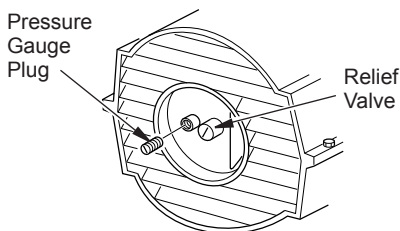


Figure 16 - Pressure Gauge Plug Removal (40/55/60/70 Models Shown)

Model	Pump Pressure
40	3.0 PSI
50	3.4 PSI
55	3.4 PSI
60	3.4 PSI
70	4.7 PSI
110	5.1 PSI
115	5.1 PSI
155	5.2 PSI
165	5.6 PSI
200	6.2 PSI

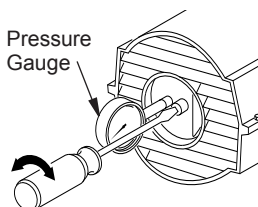


Figure 17 - Adjusting Pump Pressure (40/50/55/60/70 Models Shown)

FUEL FILTER

1. Remove side cover screws using 5/16" nut-driver.
2. Remove side cover.
3. Pull upper fuel line off fuel filter neck (see Figure 18 or 19).
4. Carefully pry bushing, fuel filter, and lower fuel line (110/115/155/165/200 Models only) out of fuel tank (see Figure 19).
5. Wash fuel filter with clean fuel and replace in tank.
6. Attach upper fuel line to fuel filter neck.
7. Replace side cover.

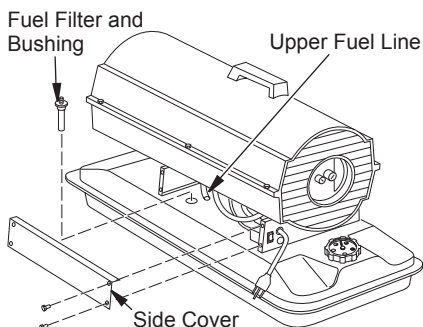


Figure 18 - Fuel Filter Removal, 40/50/55/60/70 Models

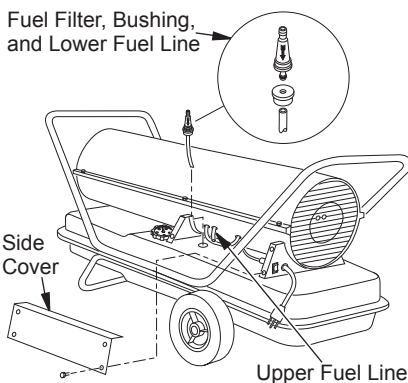


Figure 19 - Fuel Filter Removal, 110/115/155/165/200 Models