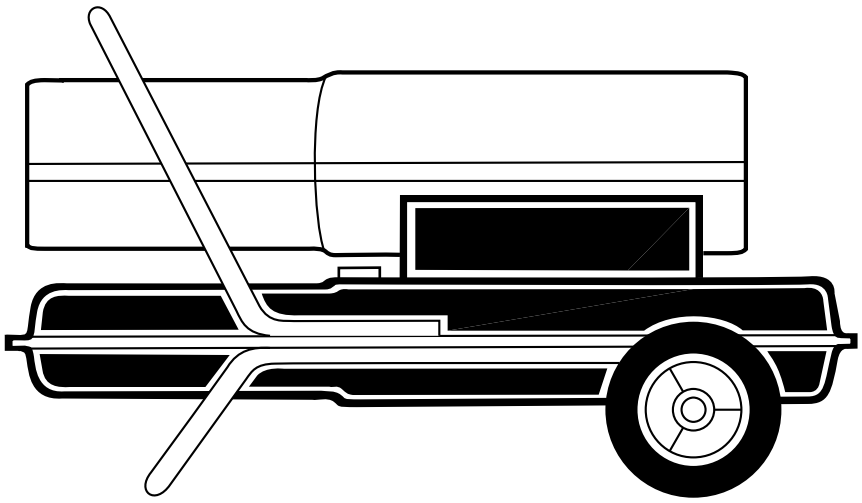
REDDY HEATER®

PORTABLE FORCED AIR HEATER

OWNER'S MANUAL



Model RK150
Heater Size 150,000 Btu/Hr

IMPORTANT

Read and understand this manual before assembling, starting, or servicing heater. Improper use of heater can cause serious injury. Keep this manual for future reference.

CONTENTS

SAFETY INFORMATION

⚠ WARNINGS

IMPORTANT: Read this owner's manual carefully and completely before trying to assemble, operate, or service this heater. Improper use of this heater can cause serious injury or death from burns, fire, explosion, electrical shock, and carbon monoxide poisoning.

⚠ DANGER

Carbon monoxide poisoning may lead to death!

Carbon Monoxide Poisoning: Early signs of carbon monoxide poisoning resemble the flu, with headaches, dizziness, or nausea. If you have these signs, the heater may not be working properly. **Get fresh air at once!** Have heater serviced. Some people are more affected by carbon monoxide than others. These include pregnant women, persons with heart or lung disease or anemia, those under the influence of alcohol, and those at high altitudes.

Make certain you read and understand all warnings. Keep this manual for reference. It is your guide to safe and proper operation of this heater.

SAFETY INFORMATION
Continued

WARNINGS *(Continued)*

- Use only kerosene or No. 1 fuel oil to avoid risk of fire or explosion. Never use gasoline, naphtha, paint thinners, alcohol, or other highly flammable fuels.
- Fueling
  a) Personnel involved with fueling shall be qualified and thoroughly familiar with the manufacturer's instructions and applicable regulations regarding the safe fueling of heating units.
  b) Only the type of fuel specified on the heater's data plate shall be used.
  c) All flame, including the pilot light, if any, shall be extinguished and the heater allowed to cool, prior to fueling.
  d) During fueling, all fuel lines and fuel-line connections shall be inspected for leaks. Any leaks shall be repaired prior to returning the heater to service.
  e) At no time shall more than one day's supply of heater fuel be stored inside a building in the vicinity of the heater. Bulk fuel storage shall be outside the structure.
  f) All fuel storage shall be located a minimum of 25 feet (7.62 m) from heaters, torches, welding equipment, and similar sources of ignition (exception: the fuel reservoir integral with the heater unit).
  g) Whenever possible, fuel storage shall be confined to areas where floor penetrations do not permit fuel to drip onto or be ignited by a fire at lower elevation.
  h) Fuel storage shall be in accordance with the authority having jurisdiction.
- Never use heater where gasoline, paint thinner, or other highly flammable vapors are present.
- Follow all local ordinances and codes when using heater.
- Heaters used in the vicinity of tarpaulins, canvas, or similar enclosure materials shall be located a safe distance from such materials. The recommended minimum safe distance is 10 feet (3.048 m). It is further recommended that these enclosure materials be of a fire retardant nature. These enclosure materials shall be securely fastened to prevent them from igniting or from upsetting the heater due to wind action.
- Use only in well-vented areas. Provide at least a 4 1/2-square-foot (4,180 square cm) opening of fresh outside air.
- Use only in places free of flammable vapors or high dust content.
- Use only with the electrical voltage and frequency specified on model plate.
- Use only a three-prong, grounded extension cord.
- Minimum heater clearances from combustibles:

  Outlet: 8 Ft. (244 cm) Sides, Top, and Rear: 4 Ft. (122 cm)
- Locate heater on a stable and level surface while hot or running or a fire may occur.
- When moving or storing heater, keep heater in a level position or fuel spillage may occur.
- Keep children and animals away from heater.
- Unplug heater when not in use.
- When used with thermostat, heater may start anytime.
- Never use heater in living or sleeping areas.
- Never block air inlet (rear) or air outlet (front) of heater.
- Never move, handle, refuel, or service a hot, operating, or plugged-in heater.
- Never attach duct work to front or rear of heater.

PRODUCT IDENTIFICATION

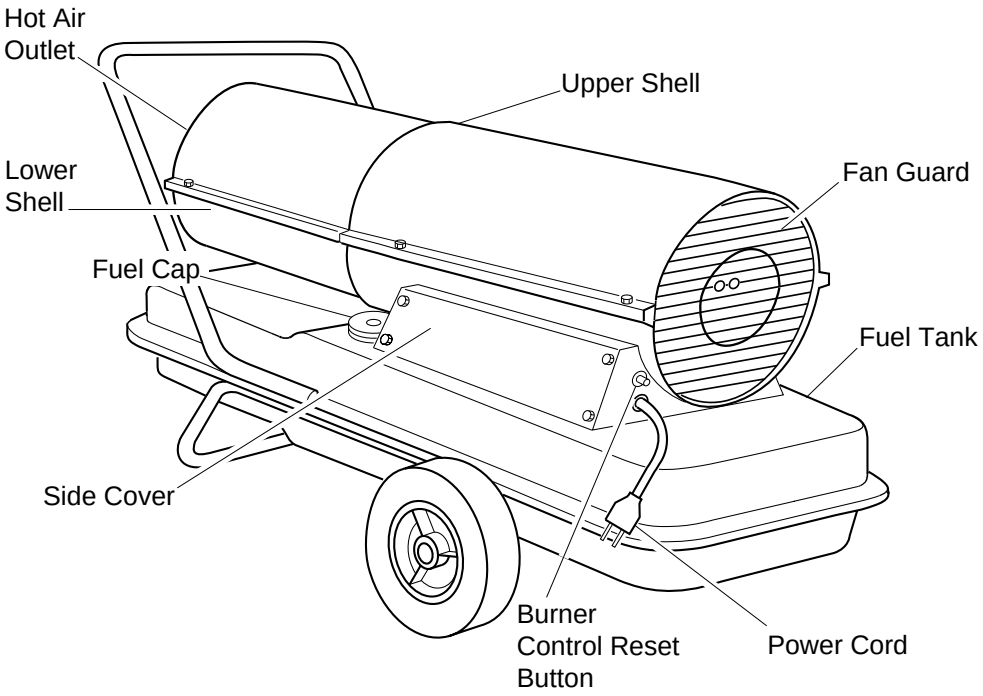


Figure 1 - RK150 Model

UNPACKING

1. Remove all packing items applied to heater for shipment.
2. Remove all items from carton.
3. Check items for shipping damage. If heater is damaged, promptly inform dealer where you bought heater.

ASSEMBLY

This model is furnished with wheels and a front handle. Wheels, handle, and the mounting hardware are found in the shipping carton.

Tools Needed

- Medium Phillips Screwdriver
- 3/8" Open or Adjustable Wrench
- Hammer

1. Slide axle through wheel support frame. Install wheels on axle. *IMPORTANT:* When installing wheels, point extended hub of wheels toward wheel support frame (see Figure 2).
2. Place cap nuts on axle ends. Gently tap with hammer to secure.
3. Place heater on wheel support frame. Make sure air inlet end (rear) of heater is over wheels. Line up holes on fuel tank flange with holes on wheel support frame.
4. Place front handle on top of fuel tank flange. Insert screws through handle, fuel tank flange, and wheel support frame. Attach nut finger tight after each screw is inserted.
5. After all screws are inserted, tighten nuts firmly.

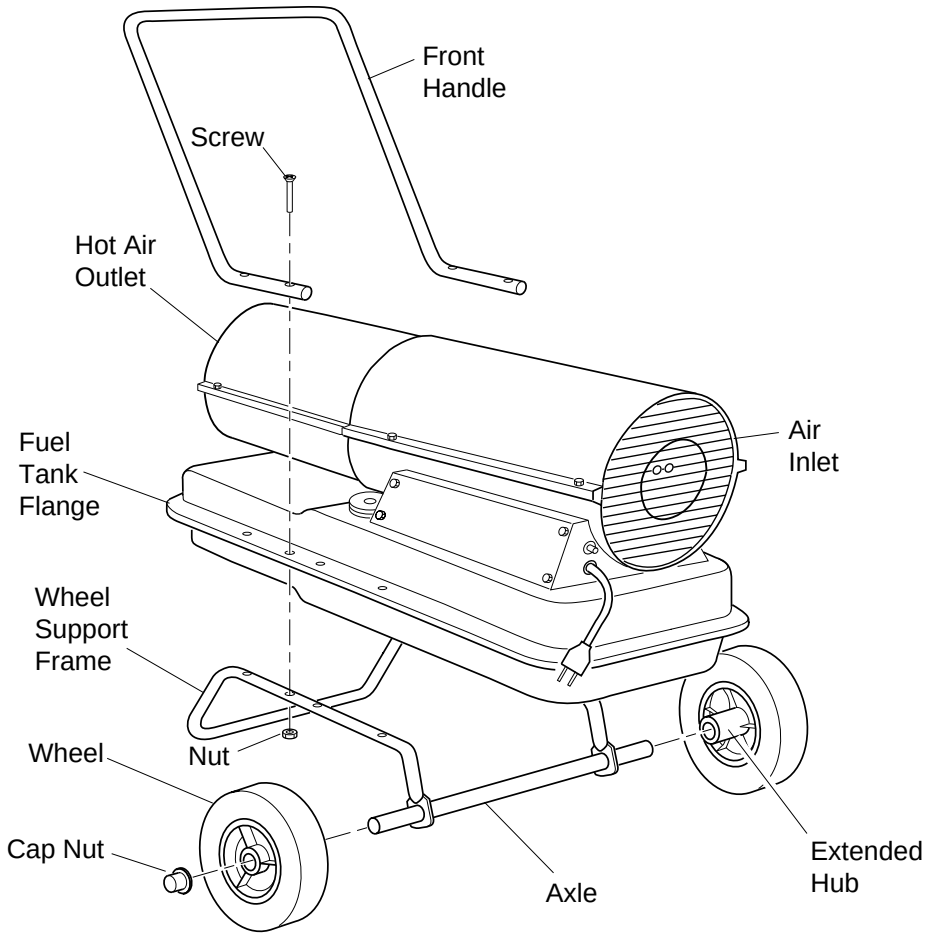


Figure 2 - Wheel and Handle Assembly

THEORY OF OPERATION

The Fuel System: The air pump forces air through the air line. The air is then pushed through the burner head nozzle. This air causes fuel to lift from the tank. A fine mist of fuel is sprayed into the combustion chamber.

The Air System: The motor turns the fan. The fan pushes air into and around the combustion chamber. This air is heated and provides a stream of clean, hot air.

The Ignition System: The electronic ignitor sends voltage to the spark plug. The spark plug ignites the fuel and air mixture.

The Burner Control System: This system causes the heater to shut down if the flame goes out.

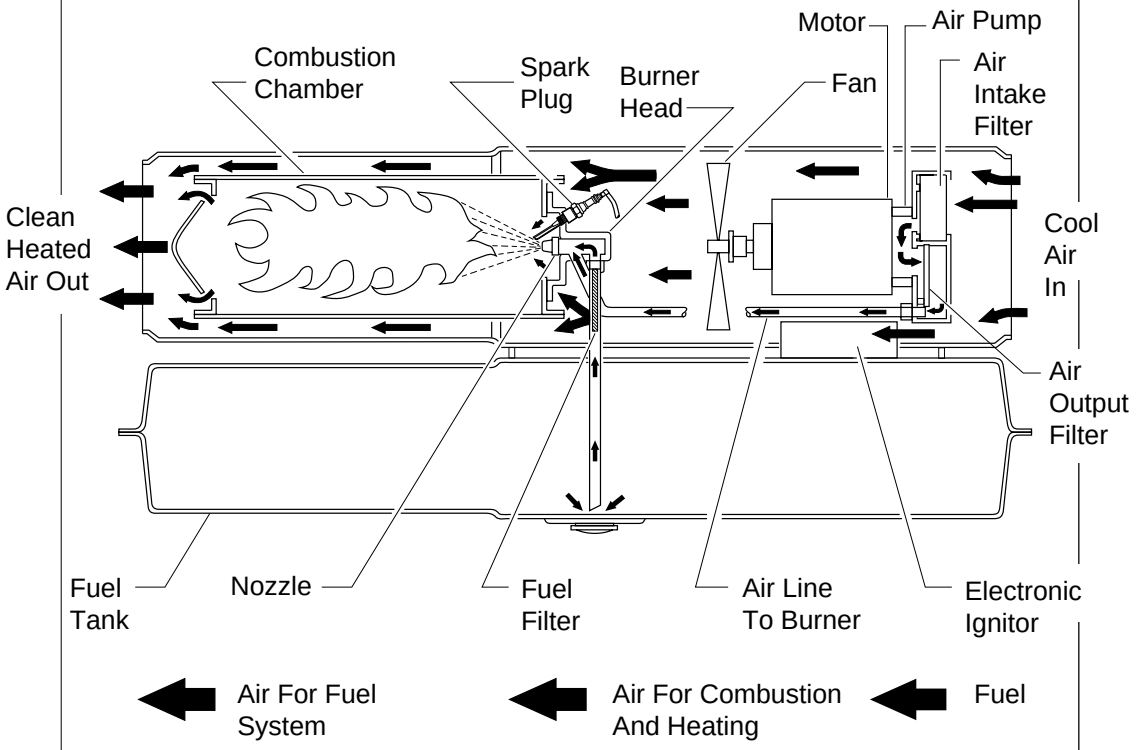


Figure 3 - Cross Section Operational View

FUELS

⚠ WARNING

Use only kerosene or No. 1 fuel oil to avoid risk of fire or explosion. Never use gasoline, naphtha, paint thinners, alcohol, or other highly flammable fuels.

Do not use heavy fuels such as No. 2 fuel oil or No. 2 Diesel. Using heavy fuels will result in:

- clogged fuel filter and nozzle
- carbon build up on spark plug
- the need of nontoxic anti-icer in fuel during very cold weather

IMPORTANT: Use a KEROSENE ONLY storage container. Be sure storage container is clean. Foreign matter such as rust, dirt, or water will cause the burner control to shut down heater. Foreign matter may also require you to clean fuel system often.

VENTILATION

⚠ WARNING

Follow the minimum fresh, outside air ventilation requirements. If proper fresh, outside air ventilation is not provided, carbon monoxide poisoning can occur. Provide proper fresh, outside air ventilation before running heater.

Provide a fresh air opening of at least 4 1/2 square feet (4,180 square cm). Provide extra fresh air if more heaters are being used.

Example: A 150,000 Btu/Hr heater requires one of the following:

- a two-car garage door [16 feet (5 meter) wide opening] raised 3.5 inches (8.9 cm)
- a single-car garage door [9 feet (2.75 meter) wide opening] raised 6 inches (15.25 cm)
- two, thirty-inch (76.2 cm) wide opening windows raised 11 inches (28 cm)

OPERATION

⚠ WARNING

Review and understand the warnings in the Safety Information Section. They are needed to safely operate this heater. Follow all local codes when using this heater.

To Start Heater

1. Follow all ventilation and safety information.
2. Fill fuel tank with kerosene or No. 1 fuel oil.
3. Attach fuel cap.
4. Plug power cord of heater into 220 volt/60 hertz grounded outlet. Use an extension cord if needed. Use only a three-prong, grounded (earthed) extension cord.

   Extension Cord Wire Size Requirements

   Up to 100 feet (30.5 meters) long, use 16 AWG (1.0 mm^2) rated cord
   101 to 200 feet (30.8 to 61 meters) long, use 14 AWG (1.5 mm^2) rated cord

   Heater will start when power cord is plugged into outlet. If not, push in burner control reset button (see Figure 4).

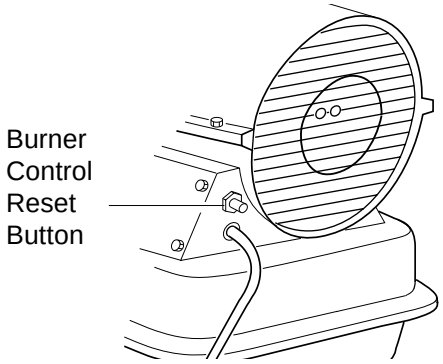


Figure 4 - Burner Control Reset Button

To Stop Heater

1. Unplug power cord from outlet.

To Restart Heater

1. Wait 2 minutes after stopping heater.
2. Repeat steps under *To Start Heater*, above.

STORING, TRANSPORTING, OR SHIPPING

Note: If shipping, transport companies require fuel tanks to be empty.

1. Drain fuel tank.
   Note: Some models have drain plug on underside of fuel tank. If so, remove drain plug to drain all fuel. If heater does not have drain plug, drain fuel through fuel cap opening. Be sure all fuel is removed.
2. Replace drain plug if provided.
3. If any debris is noted in old fuel, add 1 or 2 quarts (1 or 2 liters) of clean kerosene to tank, stir, and drain again. This will prevent excess debris from clogging filters during future use.
4. Replace fuel cap or drain plug. Properly dispose of old and dirty fuel. Check with local automotive service stations that recycle oil.
5. If storing, store heater in dry place. Make sure storage place is free of dust and corrosive fumes.

IMPORTANT: Do not store kerosene over summer months for use during next heating season. Using old fuel could damage heater.

PREVENTATIVE MAINTENANCE SCHEDULE

⚠ WARNING

Never service heater while it is plugged in, operating, or hot. Severe burns and electrical shock can occur.

Item	How Often	How To
Fuel tank	Flush every 150-200 hours of operation or as needed.	See *Storing, Transporting, or Shipping*, above.
Air output and lint filters	Replace every 500 hours of operation or once a year.	See *Air Output, Air Intake, and Lint Filters,* page 11.
Air intake filter	Wash and dry with soap and water every 500 hours of operation or replace as needed.	See *Air Output, Air Intake, and Lint Filters,* page 11.
Fuel filter	Clean twice a heating season or replace as needed.	See *Fuel Filter,* page 12.
Spark plug	Clean and regap every 600 hours operation or replace as needed.	See *Spark Plug*, pages 12.
Fan blades	Clean each season or as needed.	See *Fan*, page 11.
Motor	Not required/permanently lubricated.	

TROUBLE-SHOOTING

⚠ WARNING

Never service heater while it is plugged in, operating, or hot. Severe burns and electrical shock can occur.

OBSERVED FAULT	POSSIBLE CAUSE	REMEDY
Heater ignites, but burner control shuts off heater after a short period of time.	Wrong pump pressure	See *Pump Pressure Adjustment*, page 12.
	Dirty air output, air intake and lint filters	See *Air Output, Air Intake and Lint Filters*, page 11.
	Dirty fuel filter	See *Fuel Filter*, page 12.
	Dirt in nozzle	See *Nozzle*, page 13.
	Dirty photocell lens	Clean photocell lens.
	Bad burner control	Replace burner control.
Heater will not ignite, but motor runs for a short period of time.	Wrong pump pressure	See *Pump Pressure Adjustment*, page 12.
	Carbon deposits on spark plug and/or improper gap	See *Spark Plug*, pages 12.
	Dirty fuel filter	See *Fuel Filter*, page 12.
	Dirt in nozzle	See *Nozzle*, page 13.
	Water in fuel tank	Drain and flush fuel tank with clean kerosene. See *Storing, Transporting, or Shipping*, page 9.
	⚠ WARNING: High voltage!	
	Electronic ignitor not grounded	Make sure electronic ignitor mounting is tight.
	Bad electronic ignitor	Replace electronic ignitor.
Motor does not start when heater is plugged in, fan rotates slowly or does not turn.	Burner control not reset	Press burner control reset button.
	Binding pump rotor	If fan is hard to turn, see *Pump Rotor*, page 13.

SERVICE PROCEDURES

Upper Shell Removal

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

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.

1. Remove upper shell (see above).
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 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 6).
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.

Air Output, Air Intake, and Lint Filters

1. Remove upper shell (see above).
2. Remove filter end cover screws using 5/16" nut-driver.
3. Remove filter end cover.
4. Replace air output and lint filters.
5. Wash or replace air intake filter (see *Preventative Maintenance Schedule*, page 9).
6. Replace filter end cover.
7. Replace fan guard and upper shell.

IMPORTANT: Do not oil filters.

⚠ WARNING

Never service heater while it is plugged in, operating, or hot. Severe burns and electrical shock can occur.

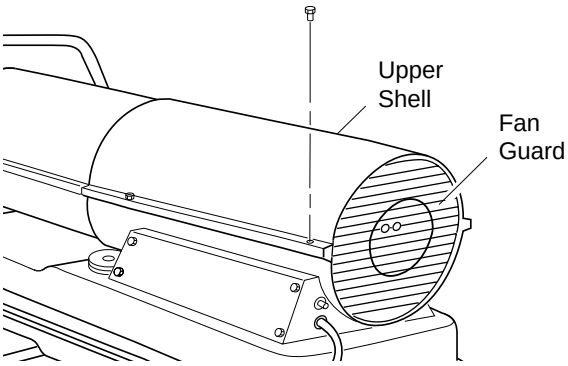


Figure 5 - Upper Shell Removal

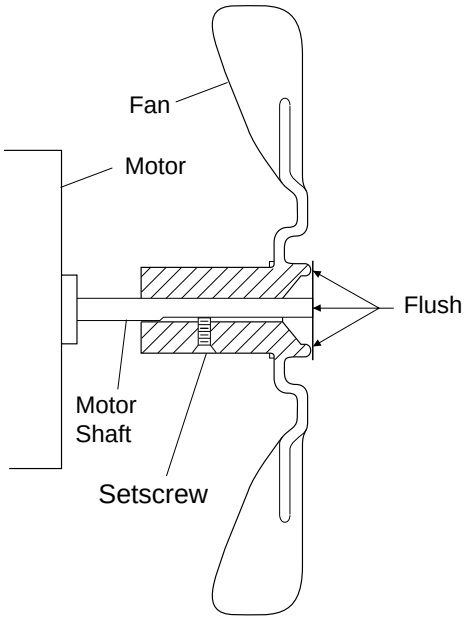


Figure 6 - Fan Cross Section

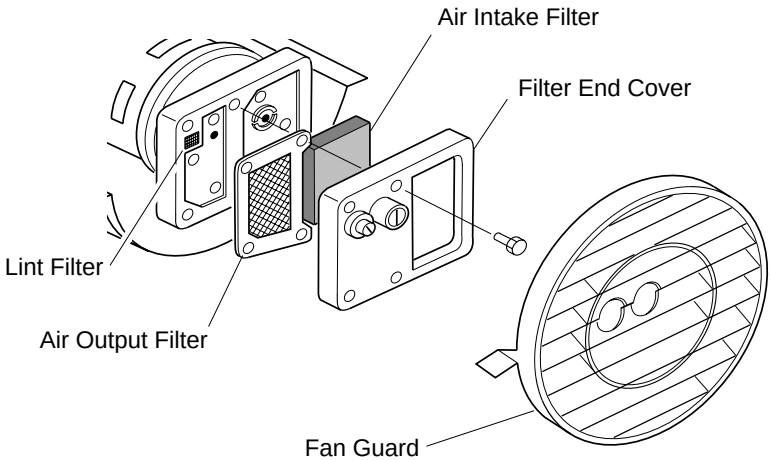


Figure 7 - Air Output, Air Intake, and Lint Filters

Pump Pressure Adjustment

1. Remove pressure gauge plug from filter end cover.
2. Install accessory pressure gauge (part number HA1180).
3. Start heater (see *Operation*, page 8). 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. Adjust pump pressure to 4.9 psi.
5. Remove pressure gauge. Replace pressure gauge plug in filter end cover.

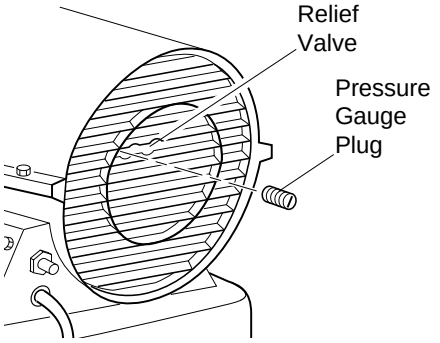


Figure 8 - Pressure Gauge Plug Removal

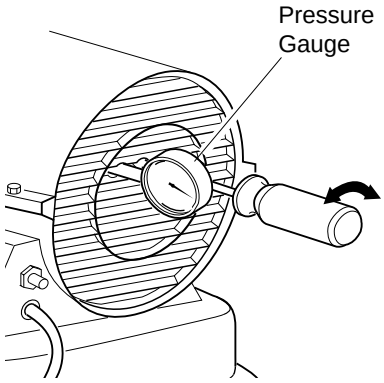


Figure 9 - Adjusting Pump Pressure

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.
4. Carefully pry bushing, fuel filter, and lower fuel line out of fuel tank.
5. Wash fuel filter with clean fuel and replace in tank.
6. Attach upper fuel line to fuel filter neck.
7. Replace side cover.

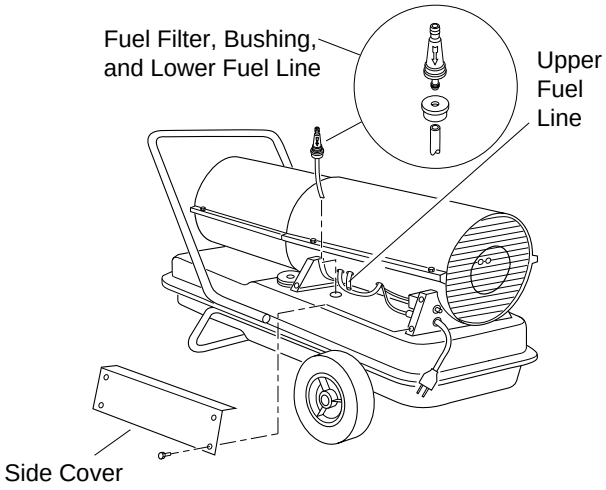


Figure 10 - Fuel Filter Removal

Spark Plug

1. Remove upper shell (see page 11).
2. Remove fan (see page 11).
3. Remove spark plug wire from spark plug.
4. Remove spark plug from burner head using 13/16" open-end wrench.
5. Clean and regap spark plug electrodes to .075" (1.9 mm) gap.
6. Install spark plug in burner head.
7. Attach spark plug wire to spark plug.
8. Replace fan (see page 11).
9. Replace fan guard and upper shell.

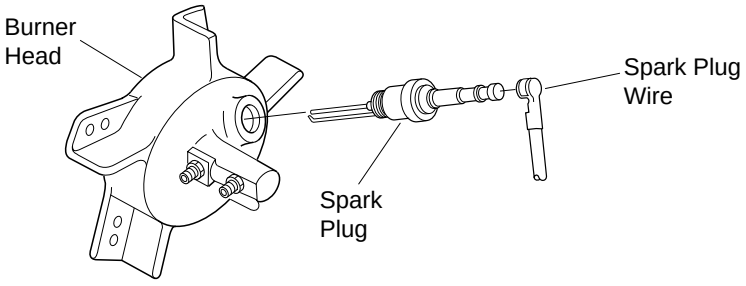


Figure 11 - Spark Plug Removal

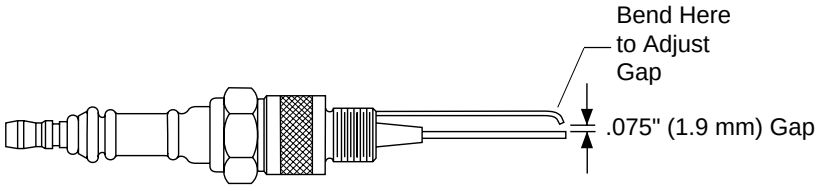


Figure 12 - Spark Plug Gap

Nozzle

1. Remove upper shell (see page 11).
2. Remove fan (see page 11).
3. Remove fuel and air line hoses from burner head.
4. Remove spark plug wire from spark plug.
5. Remove spark plug from burner head using 13/16" open-end wrench.
6. Remove three screws using 5/16" nut-driver and remove burner head from combustion chamber.
7. Place burner head into vise and lightly tighten.
8. Carefully remove nozzle from burner head using 5/8" socket wrench (see Figure 14).
9. Blow compressed air through face of nozzle. This will free any dirt in nozzle area.
10. Inspect nozzle seal for damage.
11. Replace nozzle into burner head and tighten firmly (80-110 inch-pounds / 9.1-12.4 n-m).
12. Attach burner head to combustion chamber.
13. Install spark plug in burner head.
14. Attach spark plug wire to spark plug.
15. Attach fuel and airline hoses to burner head.
16. Replace fan (see page 11).
17. Replace fan guard and upper shell.

Pump Rotor

(Procedure if rotor is binding)

1. Remove upper shell (see page 11).
2. Remove filter end cover screws using 5/16" nut-driver.
3. Remove filter end cover and air filters.
4. Remove pump plate screws using 5/16" nut-driver.
5. Remove pump plate.
6. Remove rotor, insert, and blades.

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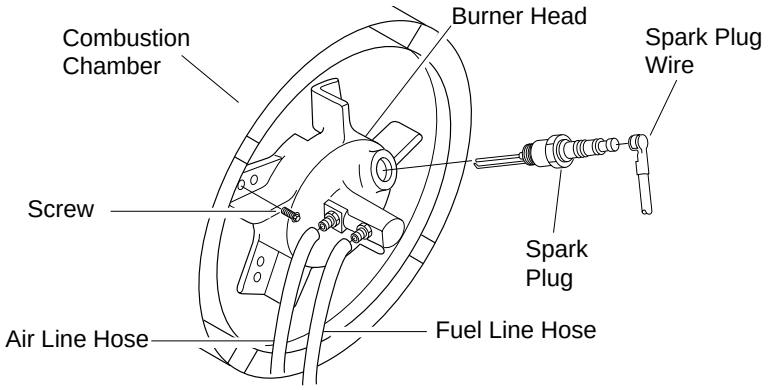


Figure 13 - Removing Burner Head

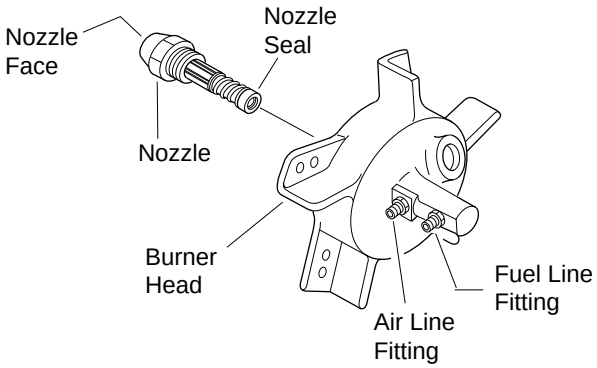


Figure 14 - Removing Nozzle

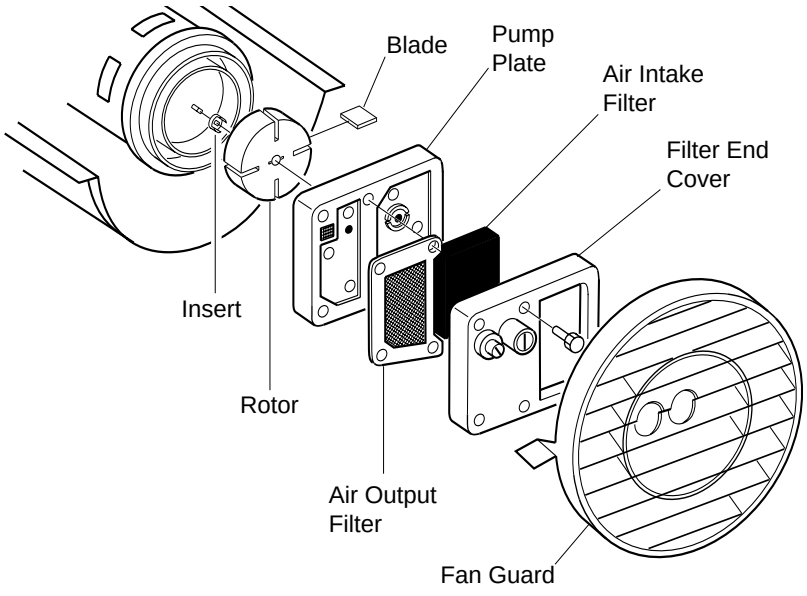


Figure 15 - Rotor Location

7. Check for debris in pump. If debris is found, blow out with compressed air.
8. Install insert and rotor.
9. Check gap on rotor. Adjust to .003"/.004" (.076-.101 mm) if needed (see Figure 16).

Note: Rotate rotor one full turn to insure the gap is .003"/.004" (.076-.101 mm) at tightest position. Adjust if needed.

(Pump Rotor, continued)

10. Install blades, pump plate, air filters, and filter end cover.
11. Replace fan guard and upper shell.
12. Adjust pump pressure (see page 12).

Note: If rotor is still binding, proceed as follows.

13. Perform steps 1 through 6 (see page 13).
14. Place fine grade sandpaper (600 grit) on flat surface. Sand rotor lightly in "figure 8" motion four times (see Figure 17).
15. Reinstall insert and rotor.
16. Perform steps 10 through 12 above.

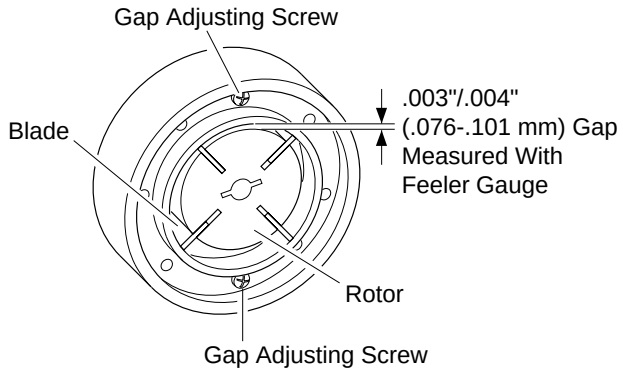


Figure 16 - Gap Adjusting Screw Locations

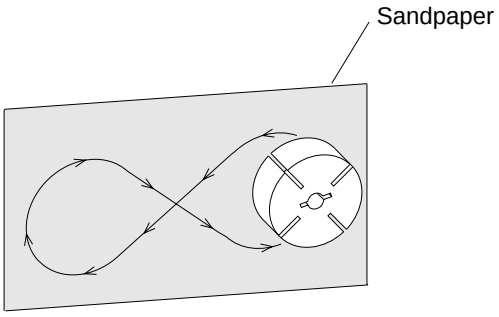
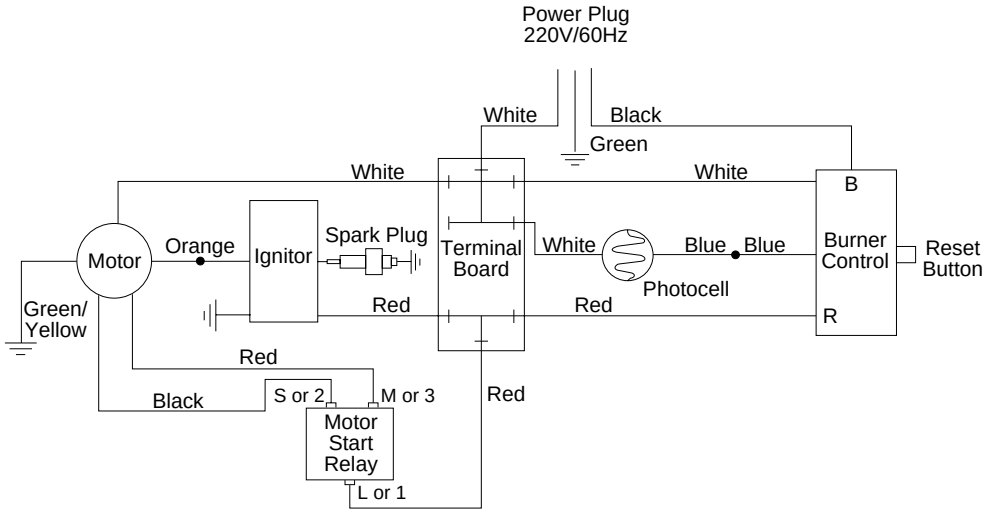


Figure 17 - Sanding Rotor

SPECIFICATIONS

Output Rating (Btu/Hr.)	150,000
Fuel	Use Only Kerosene or No. 1 Fuel Oil
Fuel Tank Capacity (U.S. Gal./Liters)	13.5/51
Fuel Consumption (Gal. Per Hr./Liters Per Hr.)	1.1/4.16
Electric Requirements	220 volt/60 hertz
Amperage (Normal Run)	2
Amperage (Start)	9
Hot Air Output (CFM/CMM)	500/14.2
Motor RPM	3450

WIRING DIAGRAM



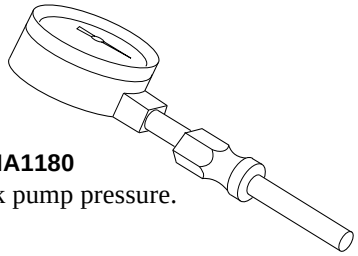
MAINTENANCE KITS

KIT	PART NUMBER
Spark Plug Kit	HA3012
Filter Kit	HA3017
Nozzle Kit	HA3010
Rotor/Air Pump Kit	HA3004
Handle Kit	HA2204
Photocell Kit	HA3019
Pump Adjustment Kit	HA3020
Fuel Tank Filter Screen Kit	HA2210

ACCESSORIES

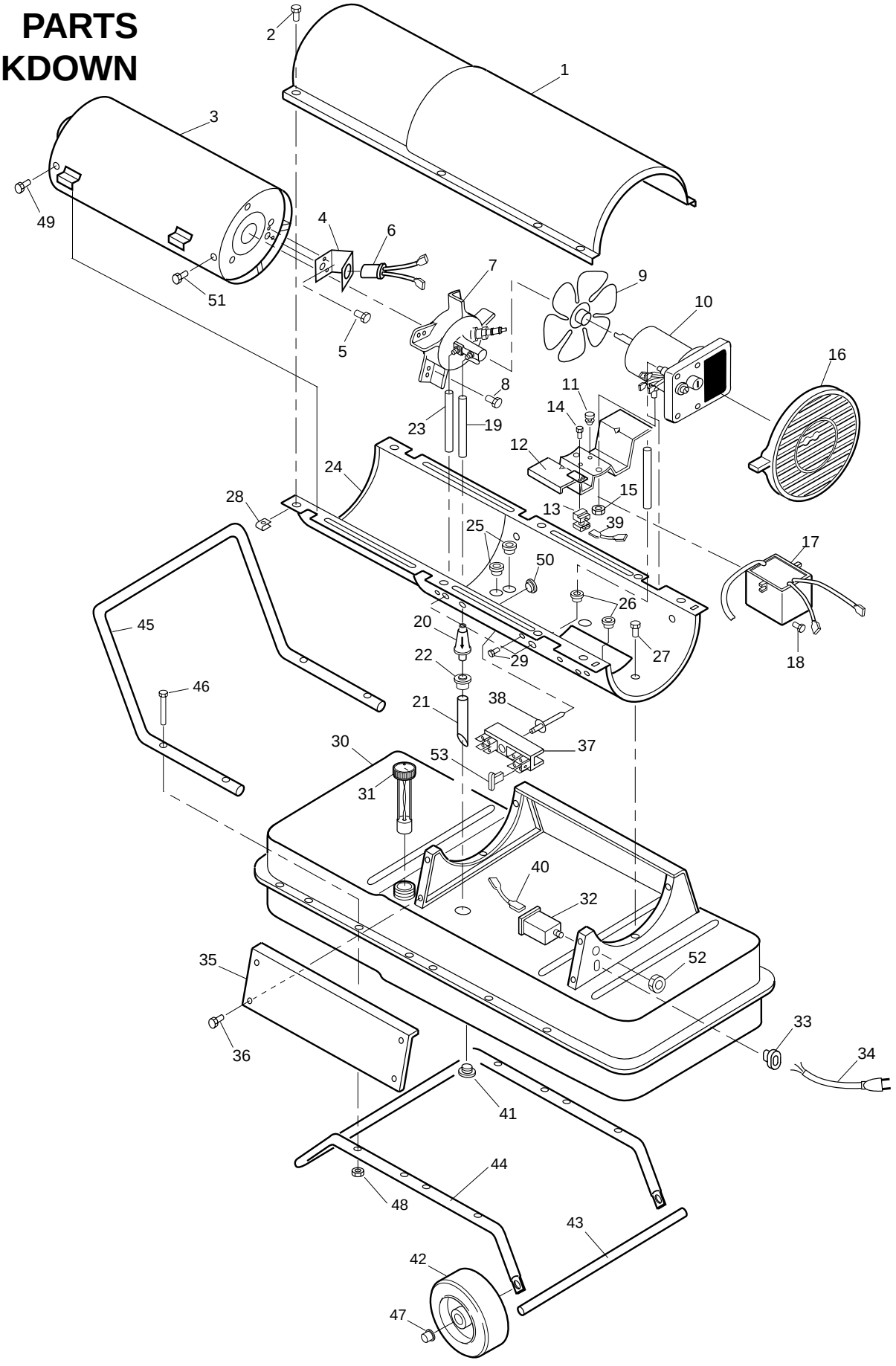
Purchase accessories and parts from your nearest dealer or service center. If they can not supply these accessories or parts, contact DESA International at:

DESA International
P.O. Box 90004
Bowling Green, KY
42102-9004
U.S.A.
(502) 781-9600
Parts Department



AIR GAUGE KIT - HA1180
Special tool to check pump pressure.

ILLUSTRATED PARTS BREAKDOWN



PARTS LIST

This list contains replaceable parts used in your heater. When ordering parts, be sure to provide the correct model and serial numbers (from the model plate), then the part number and description of the desired part.

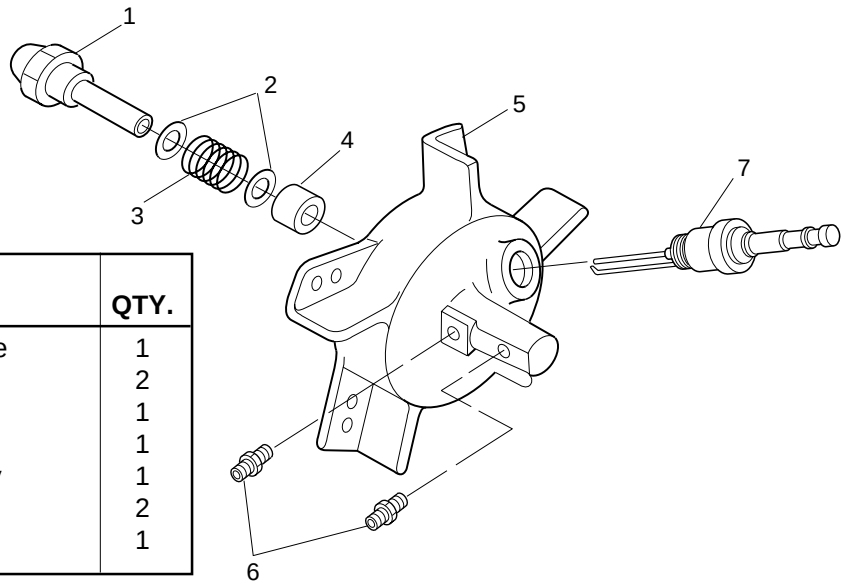
KEY NO.	PART NUMBER	DESCRIPTION	QTY.
1	098511-135	Upper Shell	1
2	M15823-27	Screw, #10-16 x 1/2"	8
3	098512-29	Combustion Chamber	1
4	099229-01	Photocell Bracket	1
5	M10908-2	Screw, #6-32 x 3/8"	2
6	HA3019	Photocell Assembly	1
7	†	Burner Head Assembly	1
8	M11084-27	Screw, #10-16 x 1/2"	3
9	097293-01	Fan	1
10	†	Motor and Pump Assembly	1
11	M50631	Rubber Bumper	2
12	098138-02	Motor Mounting Bracket	1
13	M12462-15	Motor Start Relay	1
14	M12461-13	Screw, #8-32 x 1/4"	2
15	NTC-4C	Hex Lock Nut, 1/4-20	2
16	M51114-01	Fan Guard	1
17	098557-07	Ignitor Kit	1
18	M11084-29	Screw, #10-16 x 3/4"	2
19	M51345-02	Fuel Line	1
20	M51150-01	Fuel Filter	1
21	M51151-02	Fuel Line Tube	1
22	M10990-3	Rubber Bushing	1
23	M50814-03	Air Line	1
24	098511-137	Lower Shell	1
25	M50104-03	Bushing	2
26	M50104-01	Bushing	2
27	M11084-27	Screw, #10-16 x 1/2"	6
28	M11271-8	Clip Nut	8
29	M15823-39	Screw, #8-18 x 1/2"	1
30	098513-56	Fuel Tank	1
31	097663-03	Fuel Cap Gauge	1
32	097630-02	Burner Control	1
33	M11143-1	Strain Relief Bushing	1
34	099055-07	Power Cord	1
35	M51077-01AA	Side Cover	1
36	M11084-27	Screw, #10-16 x 1/2"	4
37	099125-03	Terminal Board	1
38	099157-01	Rivet	1
39	M16841-59	Wire Assembly (Red, 13 1/2")	1
40	M16841-57	Wire Assembly (Red, 6")	1
41	M27417	Drain Plug (Includes “O” Ring)	1
42	097896-01	Wheels	2
43	M16801-2	Axle	1
44	M12831-3	Wheel Support Frame	1
45	HA2204	Front Handle	1
46	M12345-33	Screw, #10-24 x 1 3/4"	8
47	M28526	Nut cap	2
48	NTC-3C	Hex Lock Nut, #10-24	8
49	099230-01	Screw, #10-16 x 3/8"	2
50	099213-01	Button Plug	1
51	M11084-27	Screw, #10-16 x 1/2"	2
52	099177-01	Hex Nut	1
53	078918-01	Tab Cap	1

PARTS AVAILABLE - NOT SHOWN

097204-05	Tradename Decal	
103253-04	General Information Decal	
098227-84	Wiring Decal	

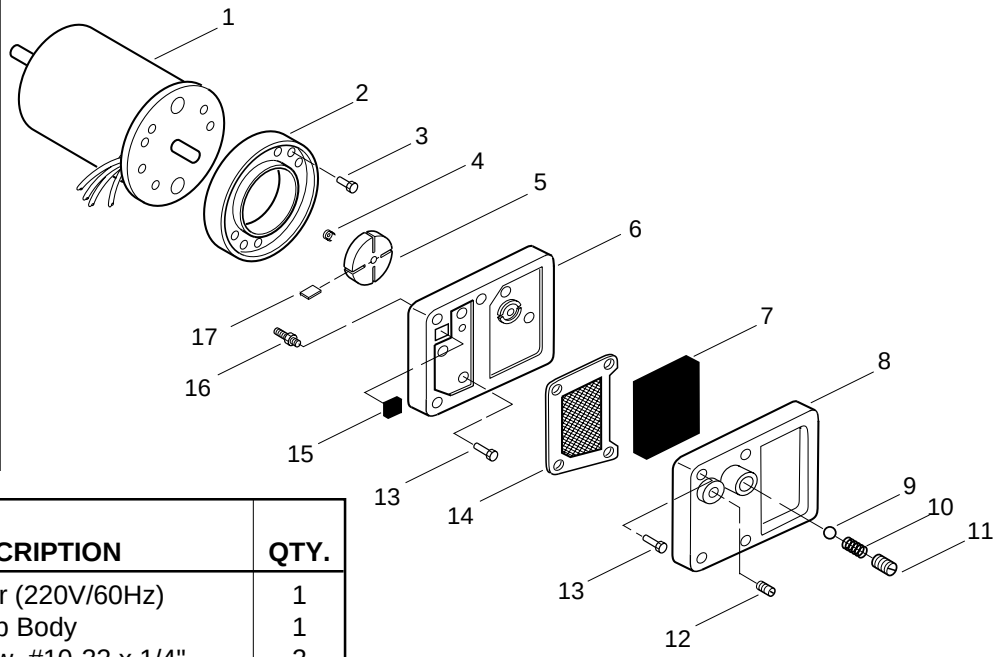
† Not available as an assembly. Order parts separately. See page 18.

BURNER HEAD ASSEMBLY



KEY NO.	PART NO.	DESCRIPTION	QTY.
1	HA3010	Nozzle with Sleeve	1
2	M10659-1	Nozzle Washer	2
3	M10809-1	Nozzle Spring	1
4	M8882	Nozzle Sleeve	1
5	M50924-03	Burner Head Body	1
6	M50820-02	Barb Fitting	2
7	HA3012	Spark Plug	1

MOTOR AND PUMP ASSEMBLY



KEY NO.	PART NO.	DESCRIPTION	QTY.
1	099656-01	Motor (220V/60Hz)	1
2	079975-01	Pump Body	1
3	FHPF3-2C	Screw, #10-32 x 1/4"	2
4	M22009	Rotor Insert	1
5	M22456-1	Pump Rotor	1
6	M50545	Pump End Cover	1
7	M12179	Intake Filter	1
8	M16545	Filter End Cover	1
9	M8940	Steel Ball, 1/4" diameter	1
10	M10993-1	Relief Spring	1
11	M27694	Adjusting Screw	1
12	M22997	Plug	1
13	M12461-31	Screw, #10-32 x 1"	10
14	M12244-1	Output Filter	1
15	M11637	Lint Filter	1
16	M50820-02	Barb Fitting	1
17	M8643	Blade	4

NOTES

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