Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage! Retain instructions for future reference.

Dayton[®] Portable Forced Air Heater

Description

Dayton Model 3VG79A is a 200,000 Btu/Hr heater. This heater uses only Kerosene or No. 1 fuel oil for combustion and electricity to run the motor. It is primarily intended for indoor and outdoor temporary heating of well-ventilated buildings under construction, alteration, or repair. It may be used in agricultural, industrial, and commercial environments.



Figure 1 - Model 3VG79A



Unpacking

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

ELECTRICAL SPECIFICATIONS

Model	Electrical Input	Amperage (during normal run)
3VG79A	120 Volt/60 Hertz	4.5

GENERAL SPECIFICATIONS

Model	Output Rating Btu	Hot Air Output (CFM Approx)	Fuel	Fuel Tank Capacity (U.S. Gallons)	Fuel Consumption (U.S. Gallons/Hr.)	Motor RPM
3V/G79A	200 000	600	Kerosene or No. 1 fuel oil	13.5	1 /	3450

Model	Air Pump	Heater Weight	Heater Weight	Spark Plug Gap
	Pressure (psi)	(Pounds - with fuel)	(Pounds - without fuel)	(Inches)
3VG79A	6	77	66	.110

Form 5S4068

Printed in U.S.A. 03430 0899/294/VCPVP



Product Identification

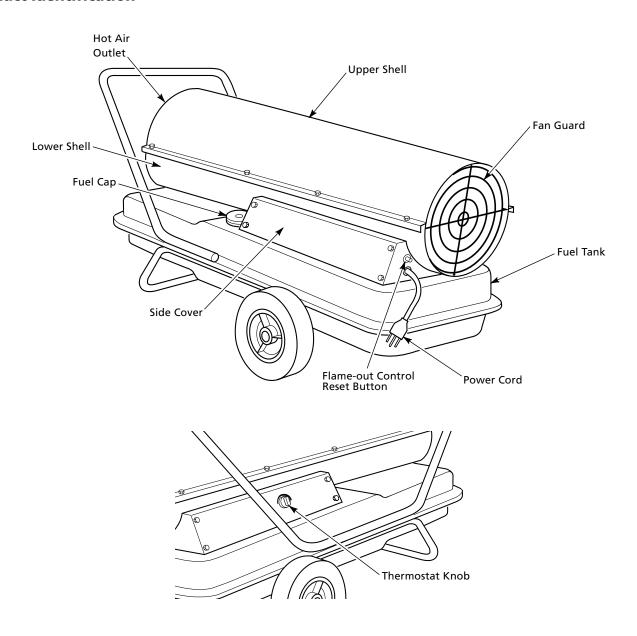


Figure 2 - Model 3VG79A

General Safety Information

Make certain you read and understand all warnings. Keep these instructions for reference. They are your guide to safe and proper operation of this heater.

Safety information appears throughout these instructions. Pay close attention to them. Below are definitions for the safety information listed throughout this manual.

A DANGER

Under this heading, installation, operat-

ing, and maintenance procedures or practices will be found that, if not carefully followed, WILL result in IMME-DIATE serious personal injury or death.

AWARNING

Under this heading, installation,

operating, and maintenance procedures or practices will be found that, if not carefully followed, COULD result in severe personal injury or death.

A CAUTION

Under this heading, installation, operat-

ing, and maintenance procedures or practices will be found that, if not carefully followed, COULD result in minor personal injury, product or property damage.

IMPORTANT: Every possible circumstance that might involve a hazard cannot be anticipated. The warnings in this manual and on tags or decals affixed to the unit are therefore not all-inclusive. If a procedure, work method, or operating technique not specifically recommended by Dayton is used, you must make sure it is safe for you and others. You should also ensure that equipment will not be damaged or made unsafe by the operating or maintenance method you choose.

A DANGER

Carbon monoxide poisoning may lead

to death! Some people are more affected by carbon monoxide than others. Early signs of carbon monoxide poisoning resemble the flu, with headaches, dizziness, and/or nausea. If you have these signs, the heater may not be operating properly, or the areas may not be sufficiently ventilated. Get fresh air at once! Have heater serviced.

▲WARNING

Improper use of this heater can

cause serious injury or death from burns, fire, explosion, electrical shock, and carbon monoxide poisoning.

Make certain you read and understand all warnings. Keep these instructions for reference. They are your guide to safe and proper operation of this heater.

AWARNING

• 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 federal, state, and local 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 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 federal, state, or local 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. 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.



General Safety Information (Continued)

- Use only in well-vented areas.
 Provide at least three square feet
 of fresh, outside air for each
 100,000 Btu/Hr of rating. This
 heater produces carbon monoxide,
 which is listed by the State of
 California as a reproductive toxin
 under Proposition 65.
- 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. Sides: 4 Ft. Top: 4 Ft. Rear: 4 Ft.

- 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 pluggedin heater.
- Never attach duct work to front or rear of heater.
- Warning to New York City Residents
 For Use Only At Construction Sites in accordance with applicable NYC codes under NYCFD certificate of approval #4803, #4899, #4908, #4909, or #4934.

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 FLAME-OUT CONTROL SYSTEM

This system causes the heater to shut down if the flame goes out.

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 buildup on spark plug
- the need of nontoxic anti-icer in fuel during very cold weather

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

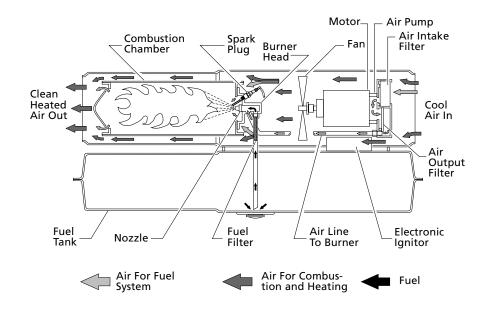


Figure 3 - Cross Section Operational View

Assembly

This model is furnished with wheels and handles. Wheels, handles, 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 4).

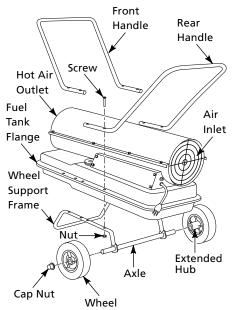


Figure 4 - Wheel and Handle Assembly

- 2. Place cap nuts on axle ends. Gently tap with hammer to secure.
- Place heater on wheel support frame.
 Make sur e air inlet end (r ear) of heater
 is over wheels. Line up holes on fuel tank flange with holes on wheel support frame.

- 4. Place handles on top of fuel tank flange. Insert screws through handles, fuel tank flange, and wheel support frame. Attach nut finger tight after inserting each screw.
- 5. After inserting all screws, tighten nuts firmly.

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.

FRESH AIR OPENING REQUIREMENTS

Heater Size	Square Feet Opening
200,000 Btu/Hr	6.0

Provide a fresh air opening at least three square feet for each 100,000 Btu/Hr rating. Provide extra fresh air if more heaters are being used.

Example: A 200,000 Btu/Hr heater requires one of the following:

- a two-car garage door (16 foot wide opening) raised five inches
- a single-car garage door (9 foot wide opening) raised eight inches
- two 30-inch windows raised fifteen inches

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.
- Plug power cord of heater into threeprong, grounded extension cord. Extension cord must be at least six feet long.

EXTENSION CORD WIRE SIZE REQUIREMENTS

- 6 to 10 feet long, use 18 AWG rated cord
- 11 to 100 feet long, use 16 AWG rated cord
- 101 to 200 feet long, use 14 AWG rated cord
- 5. Plug extension cord into standard 120 volt/ 60 hertz, three-hole, grounded outlet. Adjust thermostat to desired setting. If heater does not start, thermostat setting may be too low. Turn thermostat knob to higher position to start heater. If thermostat is in HIGH position and heater still will not start, push in flame-out control reset button (See Figure 5).

NOTE: A cold heater may affect the thermostat setting. This thermostat is a general-heating contol. It is not intended for precise temperature control. Adjust thermostat until heater cycles at the desired setting.



Figure 5 - Flame-out Control Reset Button
TO STOP HEATER

Unplug extension cord from outlet.

TO RESTART HEATER

- 1. Wait two minutes after stopping heater.
- 2. Repeat steps under To Start Heater.



Maintenance

AWARNING

Never service heater while it is

plugged in, operating, or hot. Severe burns and electrical shock can occur.

UPPER SHELL REMOVAL

- Remove screws along each side and top of heater using 5/16" nut-driver. These screws attach upper and lower shells together (See Figure 6).
- 2. Lift upper shell off.
- 3. Remove fan guard.

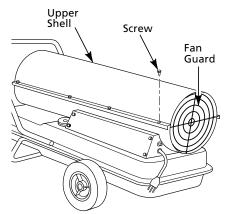


Figure 6 - Upper Shell Removal

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 Figure 6).
- 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 7).

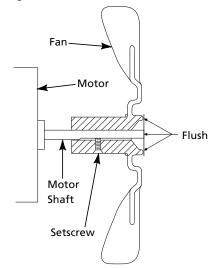


Figure 7 - Fan Cross Section

- 7. Place setscrew on flat of shaft. Tighten setscrew firmly (40-50 inch-pounds).
- 8. Replace fan guard and upper shell.

AIR OUTPUT, AIR INTAKE, AND LINT FILTERS

- 1. Remove upper shell (See Figure 6).
- 2. Remove filter end cover screws using 5/16" nut-driver (See Figure 8).
- 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.

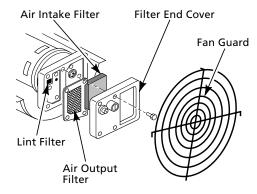


Figure 8 - Air Output, Air Intake, and Lint

PUMP PRESSURE ADJUSTMENT

- 1. Remove pressure gauge plug from filter end cover (See Figur e 9).
- 2. Install accessory pressure gauge (Part Number HA1180) (See Figure 10, page 7).
- 3. Start heater (See *Operation*, page 5). Allow motor to reach full speed.
- 4. Adjust pressure to 6.0 psi. Turn relief valve to right to increase pressure. Turn relief valve to left to decrease pressure (See Figure 10, page 7).
- Stop heater. Remove pressure gauge.
 Replace pressure gauge plug in filter end cover.

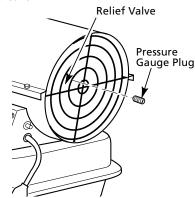


Figure 9 - Pressure Gauge Plug Removal

Maintenance (Continued)

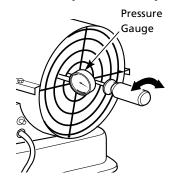


Figure 10 - Adjusting Pump Pressure

FUEL FILTER

- Remove side cover screws using 5/16" nut-driver.
- 2. Remove side cover (See Figure 11).
- 3. Pull lower fuel line off fuel valve fitting.
- 4. Carefully pry bushing, lower fuel line, and fuel filter out of fuel tank.
- 5. Wash fuel filter with clean fuel and replace in tank.
- 6. Attach lower fuel line to fuel valve fitting.
- 7. Replace side cover.

FUEL VALVE

- 1. Remove side cover (See Figure 11), fan guard, and upper shell (See Figure 6, page 6) screws using 5/16" nut-driver.
- 2. Remove fan (See Fan, page 6).
- 3. Pull lower fuel line off the fuel valve fitting (See Figure 12).



High Voltage.

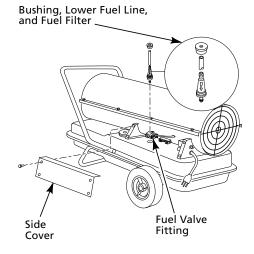


Figure 11 - Fuel Filter Removal

- 4. Disconnect red and white wires from fuel valve (See Figure 12).
- 5. Using 1/4" nut driver remove 2 screws/ lockwashers holding fuel valve and bracket to lower shell (See Figure 12). Save these screws/lock washers.
- 6. Using 1/4" nut driver remove 2 screws holding fuel valve to bracket. Save these screws.

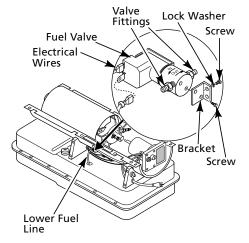


Figure 12 - Fuel Valve Replacement

- 7. Attach new fuel valve to bracket with 2 screws.
- 8. Install new fuel valve and bracket on lower shell with 2 screws/lockwashers.
- 9. Connect red and white wires (polarity not important). Connect upper and lower fuel lines to fuel valve.
- 10. Replace fan, fan guard, upper shell, and side cover.

SPARK PLUG

- 1. Remove upper shell (See Figur e 6, page 6).
- 2. Remove fan (See page 6).
- 3. Remove spark plug wire from spark plug.

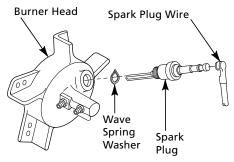


Figure 13 - Spark Plug Removal

- 4. Remove spark plug and wave spring washer from burner head using 13/16" open-end wrench.
- 5. Clean and regap spark plug electrodes to .110 gap.



Figure 14 - Spark Plug Gap



Maintenance (Continued)

6. Install spark plug and wave spring washer in burner head. Torque 40 to 60 inch-pounds. Then adjust (if necessary) to bring side electrode into the acceptable range (See Figure 15).

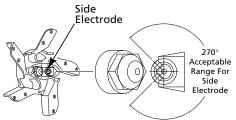
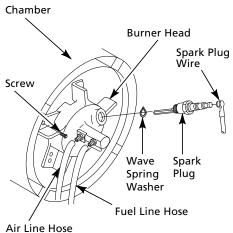


Figure 15 - Acceptable Range For Side Electrode

- 7. Attach spark plug wire to spark plug.
- 8. Replace fan (See page 6).
- 9. Replace fan guard and upper shell.

NOZZLE

- 1. Remove upper shell (See page 6).
- 2. Remove fan (See page 6).
- 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" nutdriver and remove burner head from combustion chamber.



Combustion

Figure 16 - Removing Burner Head

- 7. Place burner head into vise and lightly tighten.
- 8. Carefully remove nozzle from burner head using 5/8" socket wrench (See Figure 17).

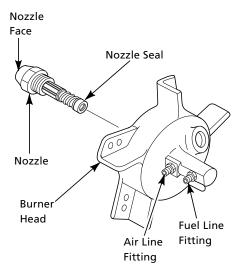


Figure 17 - Removing Nozzle

- 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).
- 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 6).
- 17. Replace fan guard and upper shell.

PUMP ROTOR

(Procedure if rotor is binding)

- 1. Remove upper shell (See page 6).
- 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.

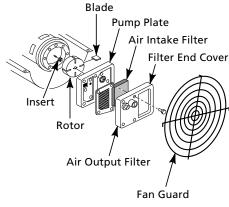


Figure 18 - Rotor Location

Maintenance (Continued)

- 5. Remove pump plate.
- 6. Remove rotor, insert, and blades.
- 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" if needed (See Figure 19).

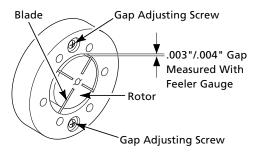


Figure 19 - Gap Adjusting Screw Locations

NOTE: Rotate rotor one full turn to insure the gap is .003"/.004" at tightest position. Adjust if needed.

10. Install blades, pump plate, air filters, and filter end cover.

- 11. Replace fan guard and upper shell.
- 12. Adjust pump pressure (See page 6).

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

- 13. Perform steps 1 through 6 above.
- 14. Place fine grade sandpaper (600 grit) on flat surface. Sand rotor lightly in "figure 8" motion four times (See Figure 20).

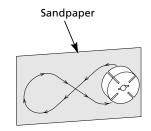


Figure 20 - Sanding Rotor

- 15. Reinstall insert and rotor.
- 16. Perform steps 10 through 12 above.

STORING, TRANSPORTING, OR SHIP-PING

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

1. Drain fuel tank.

NOTE: This model has a drain plug on underside of fuel tank. Remove drain plug to drain all fuel. Be sure all fuel is removed.

- 2. Replace drain plug.
- 3. If any debris is noted in old fuel, add 1 or 2 quarts of clean Kerosene to tank, stir, and drain again. This will prevent excess debris from clogging filters during future use.
- 4. Replace fuel cap and 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 6
Air intake filter	Wash and dry with soap and water every 500 hours of operation or as needed	See Air Output, Air Intake, and Lint Filters, page 6
Fuel filter	Clean twice a heating season or as needed	See Fuel Filter, page 7
Spark plug	Clean and regap every 600 hours operation or replace as needed	See <i>Spark Plug</i> , page 7
Fan blades	Clean every season or as needed	See <i>Fan</i> , page 6
Motor	Not required/permanently lubricated	



For Replacement Parts, call 1-800-323-0620 24 hours a day - 365 days a year

Please provide following information:

- -Model number
- -Serial number (if any)
- -Part description and number as shown in parts list

Address parts correspondence to: Grainger Parts P.O. Box 3074 1657 Shermer Road Northbrook, IL 60065-3074 U.S.A.

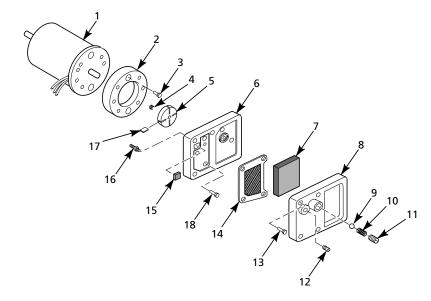


Figure 21 - Motor and Pump Assembly

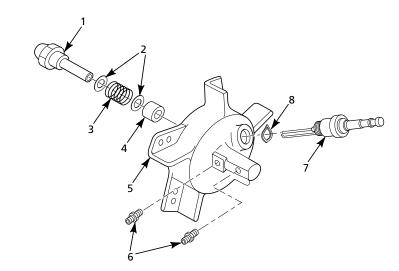


Figure 22 - Burner Head Assembly

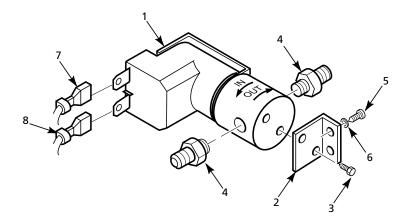


Figure 23 - Fuel Valve Assembly

Replacement Parts List - Motor and Pump Assembly - Figure 21

					, ,		
Ref. No.	Description	Part Number	Qty.	Ref. No.	Description	Part Number	Qty.
1	Motor	102001-07	1	10	Relief Spring	**M10993-1	1
2	Pump Body	079975-03	1	11	Adjusting Screw	**M27694	1
3	#10-32 x 5/8" Screw	*FHPF3-6C	2	12	Plug	**M22997	1
4	Rotor Insert	**M22009	1	13	#10-32 x 1" Screw	*M12461-31	4
5	Pump Rotor	**M22456-2	1	14	Output Filter	**M12244-1	1
6	Pump End Cover	M50545	1	15	Lint Filter	**M11637	1
7	Intake Filter	**M12179	1	16	Barb Fitting	M50820-02	1
8	Filter End Cover	M16545	1	17	Blade	**M8643-2	4
9	1/4" Diameter Steel Ball	**M8940	1	18	#10-32 x 1.12" Screw	*M12461-32	6

^(*) Standard hardware item, available locally.

Replacement Parts List - Burner Head Assembly - Figure 22

Ref.		Part		Ref.		Part	
No.	Description	Number	Qty.	No.	Description	Number	Qty.
1	Nozzle	100735-13	1	5	Burner Head Body	M50924-08	1
2	Nozzle Washer	M10659-1	2	6	Barb Fitting	M50820-02	2
3	Nozzle Spring	M10809-1	1	7	Spark Plug	HA3012	1
4	Nozzle Sleeve	M8882	1	8	Wave Spring Washer	103409-01	1

Replacement Parts List - Fuel Valve Assembly - Figure 23

Ref. No.	Description	Part Number	Qty.	Ref. No.	Description	Part Number	Qty.
1	Fuel Valve	105939-01	1	5	8-18 x 3/8" Hex TPG Screw	*M11084-38	2
2	Fuel Valve Bracket	103129-01	1	6	Lockwasher	WLE-2	2
3	8-32 x 1/4" Hex Head Screw	*M12461-13	2	7	Red Wire Assembly	079010-31	1
4	Fitting Barb	M50820-02	2	8	White Wire Assembly	079010-32	1

^(*) Standard hardware item, available locally.



^(**) See MAINTENANCE KITS, page 14.

For Replacement Parts, call 1-800-323-0620 24 hours a day - 365 days a year

Please provide following information: -Model number -Serial number (if any) -Part description and number as shown in parts list Address parts correspondence to: Grainger Parts P.O. Box 3074 1657 Shermer Road Northbrook, IL 60065-3074 U.S.A. 30

Figure 24 - Replacement Parts Illustration

Replacement Parts List

Ref. No.	Description	Part Number	Qty.	Ref. No.	Description	Part Number	Qty.
1	Upper Shell	098511-227	1	26	Bushing	M50104-01	2
2	#10-16 x 1/2" Screw	*100647-01	8	27	#10-16 x 1/2" Screw	*M11084-27	6
3	Combustion Chamber	098512-48	1	28	Clip Nut	M11271-8	8
4	Photocell Bracket	099229-01	1	29	#8-32 x 3/8" Screw	*M10908-14	1
5	#6-32 x 3/8" Screw	*M10908-2	2	30	Fuel Tank	098513-88	1
6	Photocell Assembly	HA3019	1	31	Fuel Cap (Includes Gasket)	097702-01	1
7	Burner Head Assembly	†	1	32	Flame-out Control	HA3003	1
8	#10-16 x 1/2" Screw	*M11084-27	3	33	Strain Relief Bushing	M11143-1	1
9	Fan	102042-01	1	34	Power Cord	098219-34	1
10	Motor and Pump Assembly	†	1	35	Side Cover	102562-01AA	1
11	Rubber Bumper	M50631	2	36	#10-16 x 1/2" Screw	*M11084-27	4
12	Motor Mounting Bracket	101206-01	1	37	Terminal Board	099125-12	1
13	Solid State Relay	097061-01	1	38	Rivet	099157-01	1
14	#8-18 x 1/2" Screw	*M15823-39	2	39	Wire Assembly (Red, 18")	079010-20	1
15	Hex Lock Nut, 1/4-20	*NTC-4C	2	40	Wire Assembly (Red, 6")	M16841-57	1
16	Fan Guard	102756-01	1	41	Drain Plug (Includes O Ring)	M27417	1
17	Ignitor Kit	102482-01	1	42	3/8 - 27 Hex Nut	*099177-01	1
18	#10-16 x 3/4" Screw	*M11084-29	2	43	Rubber Bushing	103523-01	1
19	Fuel Line	M51345-03	1	44	Fuel Valve Assembly	†	1
20	Fuel Filter	**M51150-01	1	45	Foam Gasket	097785-04	2
21	Fuel Line Tube	M51345-04	1	46	Special Screw	099230-01	2
22	Rubber Bushing	M10990-3	1	47	#10-16 x 1/2" Screw	*M11084-27	2
23	Airline	M50814-03	1	48	Thermostat	097657-03	1
24	Lower Shell	098511-228	1	49	#6-32 x 1/4" Screw	M10908-1	2
25	Bushing	M50104-03	2	50	Thermostat Knob	104905-01	1

^(*) Standard hardware item, available locally.



^(**) See MAINTENANCE KITS, page 14.

^(†) Not available as an assembly, see pages 10 and 11.

Dayton[®] Portable Oil-Fired Heater

Replacement Parts List for Handle and Wheel Group

Ref. No.	Description	Part Number	Qty.
1	Handles	HA2204	2
2	#10-24 x 1 3/4" Screw	*M12345-33	8
3	Wheel Support Frame	M12831-3	1
4	#10-24 Hex Nut	*NTC-3C	8
5	Wheel	097896-04	2
6	Cap Nut	M28526	2
7	Axle	M16801-2	1
Δ	General Information Decal	098493-01	1
Δ	Tradename Decal	097409-13	2
Δ	Combustion Chamber Grounding Wire	M9900-192	1

^(*) Standard hardware item, available locally.

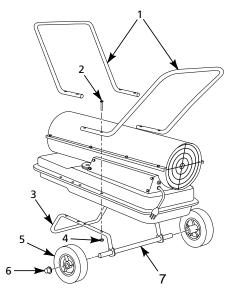


Figure 25 - Handle and Wheel Assembly

Accessories

	Part Numbers
Air Gauge Kit	HA1180
Flame-out Control/Photocell Tester	HA1170
Fuel Tank Filter Screen	HA2210

Wiring Diagram

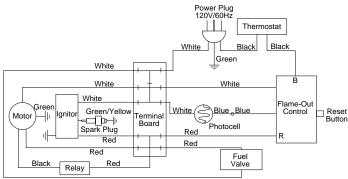


Figure 26 - Wiring Diagram

Maintenance Kits

	Part Numbers
Flame-out Control	HA3003
Spark Plug	HA3012
Filter Kit (M11637, M12179, M12244-1, M51150-0	1) HA3017
Nozzle	100735-13
Rotor/Air Pump Kit (M22456-2, M22009, M8643-2)	HA3005
Handle	HA2204
Photocell	HA3019
Pump Adjustment (M27694, M10993-1, M22997,	
M8940)	HA3020

⁽ Δ) Not shown.

Troubleshooting Chart

▲WARNING

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

Symptom	Possible Cause(s)	Corrective Action
Heater ignites, but flame-out control shuts off heater after a short period of time	1. Wrong pump pressure	1. See Pump Pressure Adjustment, page 6
	2. Dirty air output, air intake and lint filters	2. See Air Output, Air Intake and Lint Filters, page 6
	3. Dirty fuel filter	3. See <i>Fuel Filter</i> , page 7
	4. Dirt in nozzle	4. See <i>Nozzle</i> , page 8
	5. Dirty photocell lens	5. Clean photocell lens
	6. Bad flame-out control	6. Replace flame-out control
Heater will not ignite, but motor runs for a short period of time	1. Wrong pump pressure	1. See Pump Pressure Adjustment, page 6
	Improper spark plug gap/position or carbon deposits across gap.	2. See <i>Spark Plug</i> , page 7
	3. Dirty fuel filter	3. See <i>Fuel Filter</i> , page 7
	4. Dirt in nozzle	4. See <i>Nozzle</i> , page 8
	5. Water in fuel tank	5. Drain and flush fuel tank with clean kerosene. See <i>Storing, Transporting, or</i> <i>Shipping</i> , page 9
	6. Bad fuel valve	6. See Fuel Valve, page 7
	▲WARNING High Voltage!	
	7. Electronic ignitor not grounded	7. Make sure electronic ignitor mounting is tight
	8. Bad electronic ignitor	8. Replace electronic ignitor
Motor does not start when heater is plugged in, fan rotates slowly or does not turn	1. Flame-out control not reset	1. Press flame-out control reset button
	2. Thermostat setting is too low	2. Turn thermostat knob to a higher setting
	3. Solid state relay not allowed to reset	3. Wait two minutes before trying to restart heater
	4. Binding pump rotor	4. If fan is hard to turn, see <i>Pump Rotor</i> , page 8



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