

342 N. Co. Rd. 400 East

Valparaiso, IN 46383

219-464-8818 • Fax 219-462-7985

www.heatwagon.com

Installation and Maintenance Manual

Please retain this manual for future reference.

1800(L)

Construction Heater









For your safety: Do not use this heater in a space where gasoline or other liquids having flammable vapors are stored.

IMPORTANT INFORMATION! READ FIRST

The heater is designed for use as a construction heater under ANSI Z83.7a-1993. Heater is not intended for use in pest remediation. The primary purpose of construction heaters is to provide temporary heating of buildings under construction, alteration, or repair and to provide emergency heat. Properly used, the heater provides safe, economical heating. Products of combustion are vented into the area being heated.

The heater **IS NOT** designed as an Unvented Gas Fired Room Heater under ANSI-Z21.11.2 and **SHOULD NOT** be used in the home.

ANSI A119.2(NFPA 501C)-1987 Recreational Vehicle Standard prohibits the installation or storage of LP-gas containers even temporarily inside any recreational vehicle. The standard also prohibits the use of Unvented Heaters in such vehicles.

NFPA-58 1989 STANDARD FOR THE STORAGE AND HANDLING OF LIQUEFIED PETROLEUM GASES

Use of the heater must be in accordance with this Standard and in compliance with all governing state and local codes. Storage and handling of propane gas and propane cylinders must be in accordance with NFPA 58 and all local governing codes.

We cannot anticipate every use which may be made for our heaters. CHECK WITH YOUR LOCAL FIRE SAFETY AUTHORITY IF YOU HAVE QUESTIONS ABOUT LOCAL REGULATIONS.

Other standards govern the use of fuel gases and heat producing products in specific applications. Your local authority can advise you about these.

FOR YOUR SAFETY

DO NOT USE THIS HEATER IN A SPACE WHERE GASOLINE OR OTHER LIQ-UIDS HAVING FLAMMABLE VAPORS ARE STORED OR USED.

CONSTRUCTION HEATER GENERAL HAZARD WARNING:

Failure to comply with the precautions and instructions provided with this heater, can result in death, serious bodily injury and property loss or damage from hazards of fire, explosion, burn, asphyxiation, carbon monoxide poisoning, and/or electrical shock.

Only persons who can understand and follow the instructions should use or service this heater.

If you need assistance or heater information such as an instruction manual, labels, etc. Contact your local Heat Wagon dealer or the manufacturer.

WARNING

Fire, burn, inhalation, and explosion hazard. Keep solid combustibles, such as building materials, paper or cardboard, a safe distance away from the heater as recommended by the instructions. Never use the heater in spaces which do or may contain volatile or airborne combustibles, or products such as gasoline, solvents, paint thinner, dust particles or unknown chemicals.

Not for home or recreational vehicle use! If you have read this entire manual and you still have questions, please call us at 888-heatwagon

Installation and Maintenance Manual Model 1800(L) Construction Heater

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WARRANTY

All new Heat Wagon and Sure Flame heaters and fans are guaranteed against defective materials and work-manship for one (1) year from invoice date.

Warranty repairs may be made only by an authorized, trained and certified Heat Wagon dealer. Warranty repairs by other entities will not be considered. Warranty claims must include model number and serial number.

LIMITATIONS

Warrant claims for service parts (wear parts) such as spark plugs, igniters, flame rods will not be allowed. Diagnostic parts such as voltage meters and pressure gauges are not warrantable.

Evidence of improper fuel usage, fuel pressures outside of manufacturer's specification, poor fuel quality, and improper electric power, misapplication or evidence of abuse may be cause for rejection of warranty claims.

Travel time, mileage and shipping charges will not be allowed. Minor adjustments of heaters are dealers' responsibility. Defective parts must be tagged and held for possible return to the factory for 60 days from date of repair. The factory will provide a return goods authorization, (RGA) for defective parts to be returned.

No warranty will be allowed for parts not purchased from Heat Wagon.



342 N. Co. Rd. 400 East • Valparaiso, IN 46383 219-464-8818 • 888-432-8924 • Fax 800-255-7985 www.heatwagon.com

DESIGN RELATED SAFETY FEATURES

1) FLAME FAILURE

The electronic ignition control shuts off the gas supply in .8 seconds if flame is lost to prevent raw gas from leaving the heater.

2) OVERHEATING

The totally enclosed motor is protected by thermal overload. A manual reset high temperature limit switch is mounted in the heated air stream.

3) LOW SUPPLY VOLTAGE

A panel mounted voltmeter indicates supply voltage before heater start up and also during heater operation.

4) BLOCKED AIR SUPPLY

An airflow switch detects the differential pressure in the combustion chamber and shuts off the gas flow when airflow is insufficient.

5) LOCKING GAS SELECTOR LEVER

To avoid over firing of the heater and damage to property, make sure the lever is locked in position when using propane.

6) LOW SHELL TEMPERATURE

The Model 1800(SL) is designed with a burner heat shield to keep the outside shell cool for added safety in the work place.

7) DURABLE CONSTRUCTION

The Model 1800(SL) uses a heavy gauge steel housing and a stainless steel burner for long life and consistent performance.

NOTE: In order to maintain the highly efficient combustion of the heater, the combustion chamber must remain as manufactured. Any change or distortion could alter the fuel/air mixture and create excessive products of combustion.

SPECIFICATIONS

Model No. 1800 & 1800SL

Designed to ANSI Z83.7-1990 Standard Construction Heater

Gases: Natural or Propane

Capacity: 750,000 Btu/h maximum

Orifice Size: 36DMS (X18) Blower: 4,200 CFM

Electrical Rating: 115V 60Hz 15 amps, single phase

Minimum Temperature Rating: Minus 20 degrees F

Gas Supply: Inlet Pressure Manifold Pressure

 Max PSI
 Min PSI
 W.C.

 Propane
 60 lbs.
 5 PSI
 7.0"

 Natural Gas
 60 lbs.
 5 PSI
 7.0"

(Minimum inlet pressure as low as 9.5" W.C. can be achieved by removing 2nd stage 40SV06 regulator)

Inlet Connection: Weight (approximate): 200 lbs.

Model 1800SL 1/4" FNPT **Duct Part#:** WD2010UTH

Model 1800 3/4" FNPT Maximum Duct Length Straight: 50 Ft. @ 18" Diameter

See page 20 for duct and other

accessories.



INSTALLATION

The Heat Wagon Model 1800(SL) is a direct fired gas heater intended to be used primarily for the temporary heating of building under construction, alteration, or repair. Since all the products of combustion are released into the area being heated, it is imperative that adequate ventilation is provided. The flow of supply air and combustion gases must not be obstructed in any way.

1. The heater is designed for indoor or outdoor installation in a horizontal position. Allow the following clearances from any combustible material or fuel containers.

Front Outlet: 10 feet Sides: 2 feet Intake: 1.5 feet Top: 4 feet

Also make sure that no flammable vapors are present in the space where the heaters is being used.

- 2. The heater should be inspected before each use, and at least annually by a qualified service person.
- 3. The hose assembly must be inspected prior to each use of the heater. If it is evident that there is excessive abrasion or wear, or the hose is cut, it must be replaced prior to the heater being put into operation. The replacement hose assembly shall be that specified by the manufacturer. See parts list.
- 4. When connecting the heater to a natural gas or propane supply line ensure that the pressure at the heater inlet is within the specified range. Excessive pressure (over 50 psig) will damage the controls and void the warranty.
- 5. Connect the hose assembly to the heater gas inlet elbow. The 1800 elbow has 3/4" Female NPT thread, 1800SL elbow has a 1/4" Female NPT thread. The hose assembly is supplied with a swivel connector to avoid kinking or twisting the hose. Use a minimum inside diameter of 1/2" on LP or 3/4" on natural gas installations. Ensure that the hose assembly is protected from traffic, building materials, and contact with hot surfaces.
- 6. After installation, check hose assembly for gas leaks by applying a soap and water solution to each connection.
- 7. Connect the heater to an adequate 115 volt electrical supply as specified on the rating plate. For protection against shock hazard the supply cord should be plugged directly into a properly grounded three-prong receptacle.

EXTENSION CORDS:

Properly Wired and Grounded Use #14 wire up to 100' Use #12 wire up to 200' Use #10 wire up to 300'

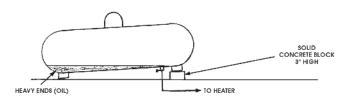
8. Replacement parts are available from any Heat Wagon distributor or by calling 1-888-432-8924 for parts information.



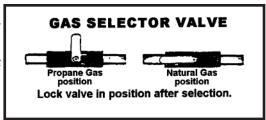
MODEL 1800 & 1800SL

PROPER SET UP:

Model 1800SL is a liquid withdrawal unit. This unit will use 8.25 gal of LP per hour. Use at least (1) 200 gal. withdrawal tank. This will insure 20 hours of continuous operation. Since the 1800(L) is a Liquid Propane unit, it must be set up outside of the building. Use 3/8" or 1/2" LPG approved hose or copper tube.



Model 1800S is a Vapor Propane or Natural Gas unit. When using Propane (liquid or vapor) turn the fuel selector valve (located on the lower manifold) to the **Propane** position. When using **Natural Gas** turn the selector valve to the **Natural Gas** position. This unit can be set up indoors or out.



VAPOR PROPANE QUICK REFERENCE HOSE CHART

	Hose	BI	U
	Length	750,0	000
	in Feet	1/2PSI	10PSI
(10 25 35 50 75 100 125 150 175	1-1/4 1-1/4 1-1/2 1-1/2 1-1/2 2 2 2 2 2 2	3/4 3/4 3/4 3/4 3/4 3/4
	200 225	2 2	3/4 3/4

NATURAL GAS QUICK REFERENCE HOSE CHART

Hose		D	IU	
Length		750,0	000	
in Feet	<1PSI	1PSI	2PSI	5PSI
10 25 35 50 75 100 125 150 175 200 225	1-1/2 1-1/2 1-1/2 2 2 2 2 2 2 2 2-1/2 2-1/2	1 1 1 1-1/4 1-1/4 1-1/4 1-1/4 1-1/4 1-1/4	3/4 3/4 3/4 1 1 1-1/4 1-1/4 1-1/4 1-1/4	3/4 3/4 3/4 3/4 3/4 3/4 3/4 3/4 3/4

	VAPORIZATION RATES IN BTUH @ 0 DEG. F						
TANK SIZE	NUMBER OF TANKS MANIFOLDED		PER	CENTAGE (OF TANK FII	LLED	
		<u>10%</u>	20%	30%	40%	50%	60%
250							
	1	12,690	169,200	197,400	225,600	253,800	282,000
	2	279,180	372,240	434,280	496,320	558,360	620,400
	3	486,027	648,036	756,042	864,048	972,054	1,080,060
500		·	·		·	·	
	1	198,135	264,180	308,212	352,240	396,270	440,300
	2	435,897	581,196	687,066	774,928	871,794	968,660
	3	758,857	1,011,809	1,180,451	1,349,079	1,517,714	1,686,349
1000							
	1	354,240	472,320	551,040	629,760	708,480	787,200
	2	779,328	1,039,104	1,212,288	1,385,472	1,558,656	1,731,840
	3	1,356,739	1,808,985	2,110,483	2,411,980	2,713,478	3,014,976

NOTE: USE FOLLOWING MULTIPLIERS FOR OTHER AIR TEMPERATURES

For -10° F multiply x 0.50

For $+ 10^{\circ}$ F multiply x 1.5

For +20°F multiply x 2.0

For +40°F multiply x 3.0

For $+50^{\circ}$ F multiply x 3.5

For +60°F multiply x 4.0



INSTALLATION USING A PROPANE SUPPLY TANK(S)

- 1) When installing the heater for use with propane gas, set the gas selector to "Propane" and lock in position.
- 2) The propane supply system must be set up for vapor withdrawal from the operating tank(s). Liquid Propane can cause the heater to overfire and will damage valve train components.
- 3) The heater must be located at least 6 ft from any LP-Gas container, and not directed toward any LP-Gas container within 20 ft.

4) Minimum Tank Size Outdoor Temperature
500 Gal. Above +25°F

1000 Gal. +25°F to + 10° F 2 x 1000 Gal. Below +10°F

- 5) The installation must conform with local codes, or in the absence of local codes, with the Standard for Storage and Handling of Liquefied Petroleum Gasses ANSI/NFPA 58.
- 6) Turn off the propane supply valve at the tank(s) when the heater is not in use.
- 7) When the heater is to be stored indoors the propane tank(s) must be disconnected from the heater and the tank(s) stored in accordance with Chapter 5 of the above National Standard.

COMMON INSTALLATION AND OPERATIONAL PROBLEMS

1) LOW VOLTAGE AT THE HEATER

This is one of the most common problems and is usually the result of the supply cord having too small a wire gauge for its length, or low voltage at the power source. Low voltage results in the motor overheating, burnt relay contacts, or a relay that will not make contact. Check voltmeter on heater before start-up.

- 2) SUPPLY LINE TOO SMALL See reference hose chart on page 6.
- 3) INSUFFICIENT VAPORIZATION AT SUPPLY Normally caused by undersized supply tank.
- 4) IMPROPER GAS SUPPLY PRESSURE

Usually a result of propane supply pressure being too high because of improper or lack of regulation or too low of natural gas pressure at meter.

5) DIRTY GAS SUPPLY

Dirty gas can cause strainers to plug or form a build-up in the burner orifice.

- 6) LACK OF PREVENTIVE MAINTENANCE
 - Heaters must be cleaned as required, especially when used in a dirty environment.
- 7) IMPROPER SUPPLY OF FRESH AIR

It is strongly recommended that the intake air of the heater be taken from outside the enclosed area. This provides a slight pressurization and prevents any problems associated with recirculation of products of combustion.



ON-SITE SAFETY PROBLEMS

- 1) SHORTING OUT OF DEFECTIVE COMPONENTS
 - This is a very common problem which saves short term expense at the risk of a large future cost. Any heaters found in this condition should be removed immediately.
- 2) IMPROPER ENCLOSURES
 - When heaters are installed partially to the outside for fresh air intake, strict adherence must be made to the minimum clearance to combustibles given on the instruction plate. Wood framing around a heater can cause a safety hazard.
- 3) SUPPLYING LIQUID PROPANE TO HEATER NOT EQUIPPED WITH A BUILT IN VAPORIZER This problem has occurred upon initial start-up. To minimize the damage, shut off the gas supply and let the heater run until all of the liquid in the lines had been consumed.

OPERATING INSTRUCTIONS

- 1) Set the **gas selector valve** for fuel being used. Check for proper gas pressure.
- 2) Open manual shut-off valve on heater.
- 3) Connect power supply (115 volt). Check voltmeter to confirm full voltage.
- 4) Slowly open shut-off valve at gas meter or propane tank. Check for leaks. Bleed air from hose at heater.
- 5) Set **fan** and **burner switches** to "on" position.
- 6) Set **thermostat** for desired room temperature.
- 7) To stop, turn **thermostat** down or turn **fan switch** "off". (Burner will turn off; after 5 seconds fan will turn off.)
- 8) Close manual shut-off valve on heater.

NOTE: If the heater will be shut down over night, close valve at fuel supply first and burn all gas out of line.

The appliance area should be kept clear and free from combustible materials, gasoline, and other flammable vapors and liquids.

Ensure that the flow of supply air and combustion gases is not obstructed.

The installation and operation of the heater shall comply with the code requirements specified by the authorities having jurisdiction.

General criteria for the use of construction heaters may be found in the applicable sections of American National Standard A-10.10-1987, Safety Requirements for Temporary and Portable Space Heating Devises and Equipment Used in the construction industry.

THE INSTALLATION AND MAINTENANCE OF THE HEATER MUST BE ACCOMPLISHED BY A QUALIFIED SERVICE PERSON.



MODEL 1800 & 1800 SL SEQUENCE OF COMPONENT OPERATION

1) POWER SUPPLY

Plug the heater into a 120 Volt grounded receptacle. Power is now at the 20 amp fuse and the 3 amp circuit breaker.

2) 20 AMP FUSE & 3 AMP BREAKER

If the circuit breaker and fuse are good there will be power at the thermostat and at the motor relay (normally open).

3) THERMOSTAT

When the thermostat calls for heat there will be power at the fan switch.

4) FAN SWITCH

With the fan switch ON it sends power to the burner switch and the control relay.

5) BURNER SWITCH

This sends power to the airflow switch.

6) CONTROL RELAY

After receiving power from the fan switch it closes, sending power to the fan delay timer.

7) FAN DELAY TIMER

Receives power from the control relay and closes. Energizes the motor relays holding coil.

8) MOTOR RELAY

With its coil energized it closes its contacts, sending power to the fan motor.

9) FAN MOTOR

Turns the fan blade causing the air flow switch to close.

10) AIR FLOW SWITCH

Received its power from the burner switch and sends the power to the indicator light and the flame safeguard control.

11) FLAME SAFEGUARD CONTROL

This sends power to transformer and the igniter and sends power out to the high temperature limit switch.

12) HI TEMPERATURE LIMIT SWITCH

This switch has normally closed contacts, it sends power to the gas solenoid valve.

13) GAS SOLENOID VALVE

With its coil energized, the valve opens, gas passes through to the burner and ignites.

14) FLAME SAFEGUARD CONTROL

This is now sensing flame through the flame rod and the spark stops. The heater is operating.

15) THERMOSTAT

When it is satisfied, the contacts open taking power away from the ignition control, the gas valve closes, and the fan delay timer is activated.

16) FAN DELAY TIMER

This will operate the fan motor for approximately 10 seconds and turns the fan off.



PREVENTIVE MAINTENANCE

Heat Wagon Construction Heaters are built to withstand the rigors of operating on construction sites, for mining applications, and a multitude of other locations where heaters are used. To maintain the reliable performance required it is necessary to do a certain amount of regular maintenance.

1) CHECK POWER CORD

- A. Insulation not frayed or cracked.
- B. Ground peg is there on male end.
- C. Polarity is correct (Black wire on fuse, white wire on motor relay).

2) CHECK ALL WIRING FOR TIGHT AND CORRECT CONNECTIONS

3) CHECK MOTOR RELAY

- A. If it buzzes, clean contacts or replace.
- B. Check for voltage drop through L1 to T1 contacts if its more than 2 volts replace.

4) CHECK AIR FLOW SWITCH

- A. Blow out the inlet tube and negative pressure fitting.
- B. Adjust the switch, light on control panel stays on if the heater is bumped and shuts off if fan inlet is blocked off.

5) CLEAN THE BURNER

- A. Clean out port holes (Gas outlet).
- B. Clean air mixture holes.

6) CHECK IGNITER/SENSOR

- A. Move sensor probe; if rubbery, replace.
- B. If stiff; clean and re-gap at 1/8"

7) CHECK FOR GAS LEAKS

A. Operate the heater, (with leak detector or soapy water) check all pipe connections for leaks.

8) TIGHTEN ALL BOLTS

- A. Motor mounts
- B. Fan blade
- C. Burner mount
- D. Pipe train mounts



TROUBLE SHOOTING

DIRECTIONS: Find the specific symptom. Refer to the Sequence of Component Operation on page 9. Check the components listed with a voltmeter for proper operation as described. Replace any components not operating correctly.

Fan will not start when fan switch & thermostat are ON.

• Check sequences 1-4, 6-9 (Page 9)

Fan runs, no spark for ignition.

- Check sequences 5, 10 and 11 (Page 9)
- Check continuity of igniter leads. Replace if shorted or broken.
- Check igniter for carbon buildup, gap spacing (1/8"), secure mounting.
- Replace igniter if porcelain is cracked or if electrodes are rubbery

Have spark but no flame.

- Check sequences 11,12 and 14 (Page 9)
- Check for gas pressure on the manifold gauge, if gas is present clean the port holes in the burner

Flame occurs but burner locks out after a few seconds.

- Check for proper fuel pressures and volumes
- Check for proper polarity of incoming voltage
 - A) Place one lead of voltmeter on ground and the other lead on the 20 amp fuse
 - B) Place one lead of voltmeter on ground and the other lead on the neutral or white wire from power cord. Reading should be "0" volts.
- Check the igniter sensor electrodes, if the porcelain is cracked or the electrodes are rubbery replace them
- If the 1st 4 steps check, replace the ignition control

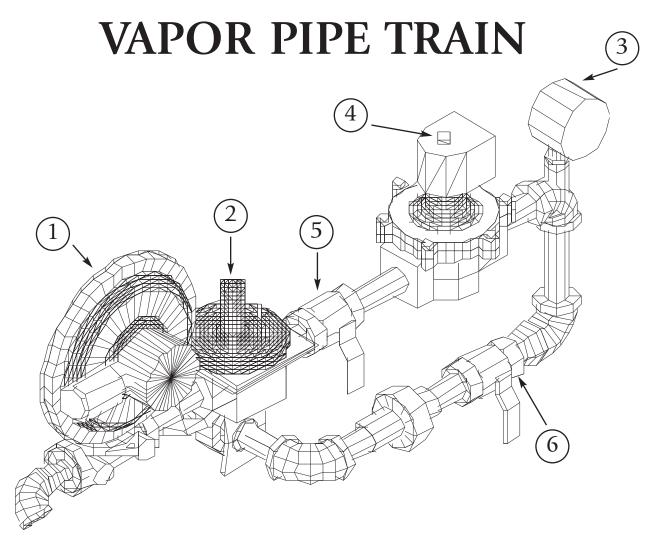
Flame occurs but small.

- Check proper pressure at manifold gauge. If yes:
 - A) Clean port holes in burner
 - B) Check proper position of gas selector valve (For Natural Gas)
- Not enough pressure
 - A) Check fuel supply
 - B) Check liquid strainer for restriction (1800L)
 - C) Check for restriction at Hi pressure regulator
 - D) Check for restriction at solenoid valve

Fan does not shut off when thermostat turns off burner.

- Check for proper wiring on fan delay timer
- Fan should run for 5 to 7 seconds after burner shuts off. Replace fan delay timer if fan runs over 10 seconds.





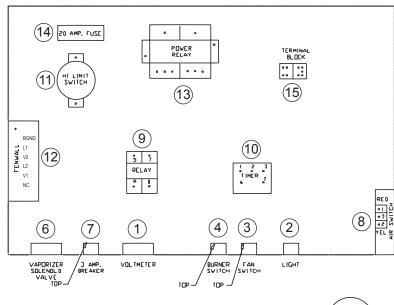
Item#	Part #	Description
*1	HWP 40SV06	1ST STAGE REGULATOR 3/4" x 1"
2	HWP HV1162	1" LOW PRESSURE REGULATOR
3	HWP HV1169	15" W.C. LOW PRESSURE GAUGE
4	HWP HV1032	115V. GAS SOLENOID VALVE 1" DIAMETER
5	HWP HV1035	1" BALL VALVE
6	HWP HV1160	1" LOCKING GAS SELECTOR VALVE

^{*}If you have an 1800L (Liquid Propane Heater) use part #HR1053 1st stage regulator



CONTROLS BREAKDOWN







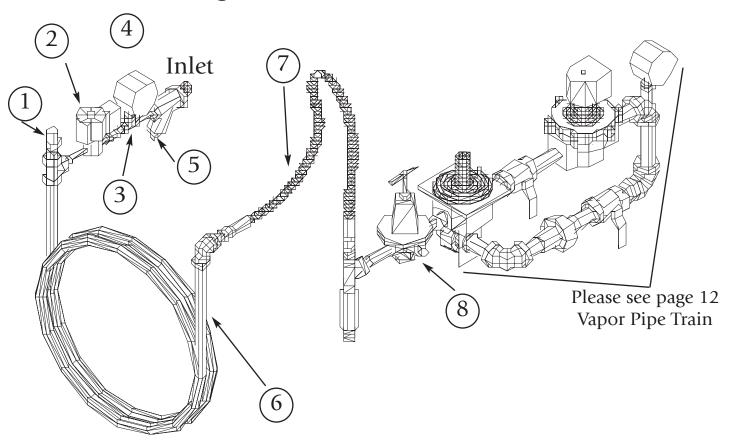
Item#	Part #	Description
1	SFP 5989	SUPPLY VOLTAGE METER (0-150)
2	SFP 2505	INDICATOR LIGHT
3	HWP HC1011	FAN ON/OFF SWITCH
4	HWP HC1011	BURNER ON/OFF SWITCH
5	SFP 2453	REMOTE THERMOSTAT
6	HWP HC1016	VAPORIZER RECEPTACLE
7	HWP HC1019B	3 AMP. CIRCUIT BREAKER
8	HWP HC1010	AIRFLOW SWITCH
9	SFP 4512	CONTROL RELAY
10	HWP HC1003A	FAN DELAY TIMER - 5 WIRE
	SFP 5988	fan delay timer - 4 wire
11	SFP 2446	HIGH-LIMIT CONTROL
12	HWP HC1001C	IGNITOR CONTROL BOARD
13	SFP 2436	MOTOR RELAY
14	HWP HC1115	20 AMP. FUSE (SC-20)
15	HWP HC1123	TERMINAL BLOCK

Parts Not Shown

HWP HC1122 FUSE BLOCK
HWP HC1020 POWER CORD
HWP HC1004B ELECTRODE ASSEMBLY
HWP HC1005 IGNITION WIRE ASSY. W/FITTINGS
HWP HC1006 FLAME DETECTION WIRE W/FITTING



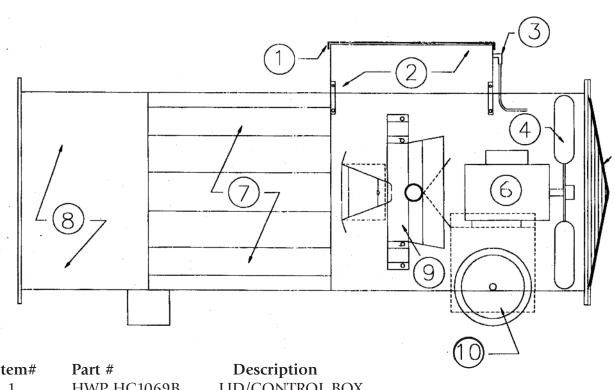
1800 LIQUID PIPE TRAIN



Item#	Part #	Description
1	HWP HV1039	SAFETY RELIEF VALVE
2	HWP HV1137	LIQUID PROPANE SOLENOID VALVE
3	HWP HV1123	MANUAL SHUT-OFF VALVE
4	HWP HV1060	LIQUID PRESSURE GAUGE
5	HWP HV1129	LIQUID STRAINER
6	HWP HV1140	COIL
7	HWP HV1042B	HOSE
8	HWP HR1053	HIGH PRESSURE REGULATOR



Model 1800(SL) Series

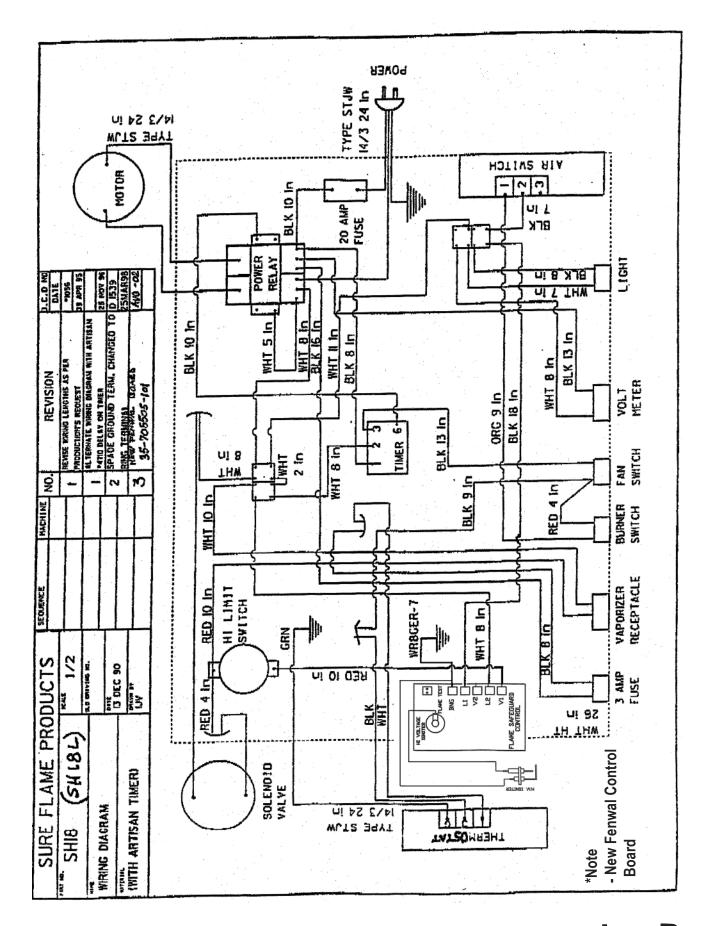


Item#	Part #	Description
1	HWP HC1069B	LID/CONTROL BOX
2	HWP HC1069A	CONTROL BOX W/LID
3	N/S	COPPER TUBE/AIR SWITCH
4	HWP HP1161	FAN BLADE
5	HWP HG1167	FAN GUARD
6	HWP HM1166	MOTOR 1 HP
7	HWP HB1177B	HEAT SHIELD
8	HWP HB1800	BODY
9	HWP HB1171	BURNER
10	HWP HW1164	WHEEL 8"x 1.75" x 1/2" HUB
	HWP HW1164B	AXLE FOR 1800
	SFP 40SC42	AXLE CAP

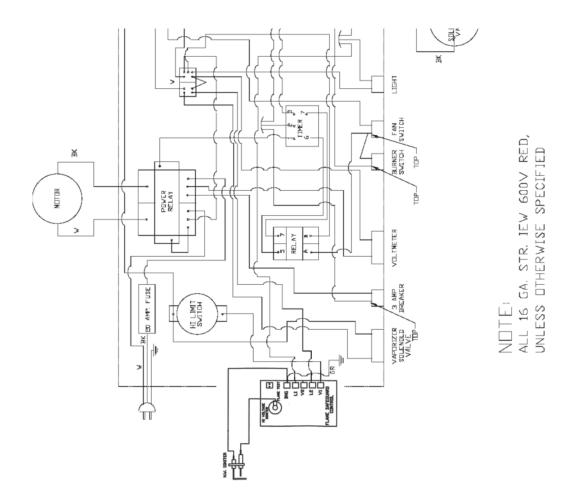
Parts Not Shown

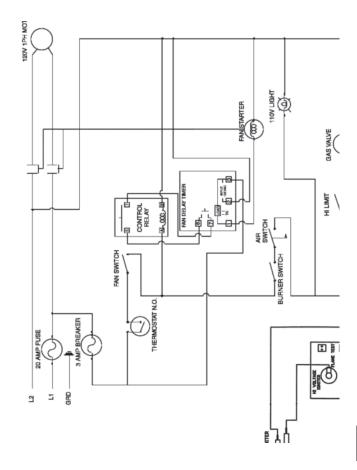
HWP HC1122	FUSE BLOCK
HWP HC1020	POWER CORD
HWP HC1004B	ELECTRODE ASSEMBLY
HWP HC1005	IGNITION WIRE ASSY. W/FITTINGS
HWP HC1006	FLAME DETECTION WIRE W/FITTING



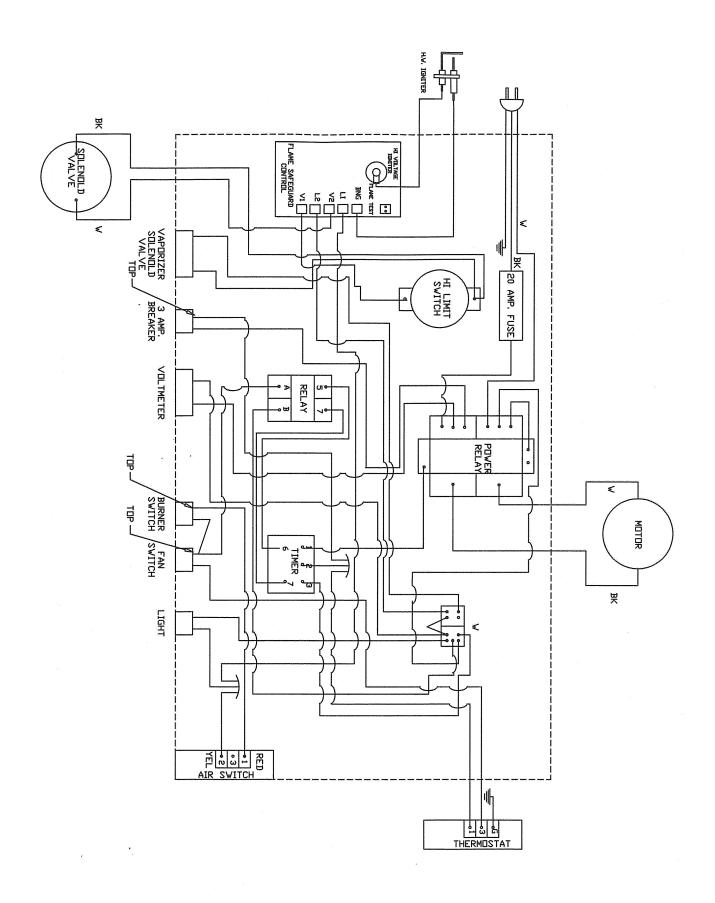




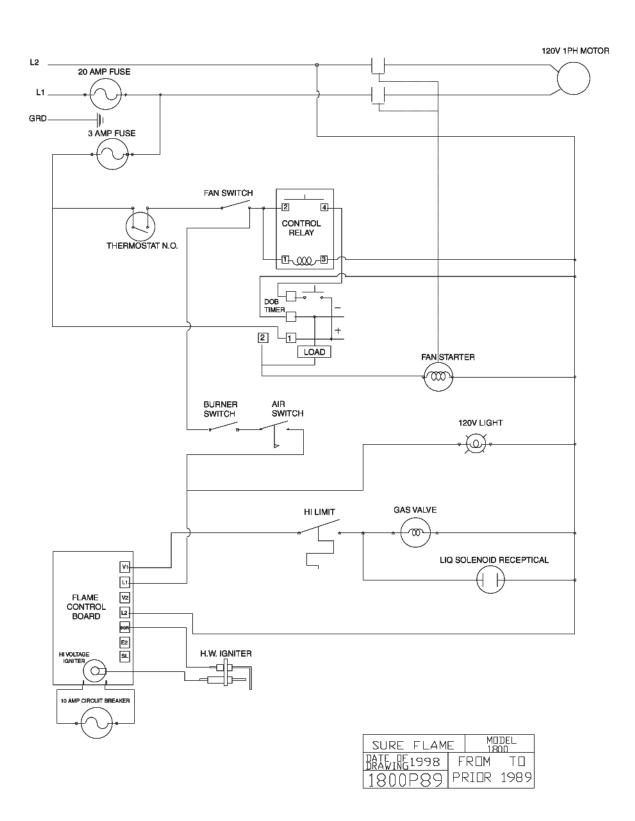














Accessories



REGULATOR #HWP-HR1053



0-30 PSI PRESSURE GAUGE #HWP-HV1027

P-O-L FITTING TO

CONNECT TO

PROPANE SUPPLY

#ACC-G1680



HIGH TEMPERATURE DUCT 950H #ACC-WD2425HT

1800B #ACC-WD2010UHT



<u>GAS HOSE</u> #ACC-7525 - 3/4" x 25' #ACC-7550 - 3/4" x 50' #ACC-1025 - 1" x 25'

#ACC-1050 - 1" x 50'

CSA certified for NG and Propane

Female Swivel Union Included

