

START-UP PROCEDURE

HPL 600 D7

MOBILE DIESEL FIRED
HEAT POWER LIGHT PLANT



hermannelson.com

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**AEROTECH
HERMAN
NELSON**
INTERNATIONAL INC.

HPL Series
Heat/Power/Light

GENERATOR START-UP

The steps below highlight the general procedures for starting up and shutting down your HPL600 D7 unit. For specific procedures on each component, please refer to manufacturers manual.

GENERATOR START UP

1. Open rear generator access door and panel. Check fluid levels if you have not already done so. Turn fuel cock to the "ON" position. Replace rear panel and close rear doors.
2. Open side access panels insert the key into the starter switch and turn it to the "RUN" position. Ensure the oil pressure lamp and battery lights on the "Warning lamp unit" are lit.
3. Turn the key to the PRE-HEAT position. The preheat light should illuminate on the "Warning lamp unit". When the light goes out, turn the key to the "START" position. As soon as the engine starts, release the key. The key will return to the "RUN" position. If the engine does not start within 10 seconds wait for about 30 seconds then repeat step 3 above. Do not crank engine for extended periods. Once the engine starts, the oil pressure and charge light will go out.
4. If the lights stay on, immediately stop the engine and refer to the engine operation manual.
5. Close generator access door when AC volt meter reads 110 volts.



Fuel Cock ("ON" position)



Key Position



Voltage Meter



Warning lamp unit

- 1 Oil Pressure Lamp
- 2 Battery Lamp
- 3 Preheat Lamp

HEATER START-UP

HEATER START UP

1. Open Heater outlet door and install ducts (**Heater Outlet doors must be open at all times when operating the heater**).
2. Open heater inlet door where control panel is located. Install recirculating ducts.
3. Turn "Selector Switch" to "ON" position this will initiate burner startup. When heat rise is to approximately 90°F degrees fahrenheit, or in 1 minute the fan will engage.

Heater Control Panel



OPTIONAL REMOTE THERMOSTAT

An optional remote thermostat "STAT" is available for temperature control for the space being heated. To connect the stat, simply plug the stat cord into the outlet marked "Remote Stat". Make sure selector is in the "STAT ON" position. Place the stat into the space that is being heated. The unit will now shut down at the stat temperature setting.

IF HEATER FAILS TO START

1. Press and hold the red button on the Honeywell controller located on the control panel for 3 seconds to reset.
2. Check fuel level, filter, nozzle and suction tubing.
3. Ensure proper power supply and wire gauge is being used.
4. If heater fails to ignite after 3 attempts, call your supplier for service.
5. Refer to heater manual trouble shooting guide.



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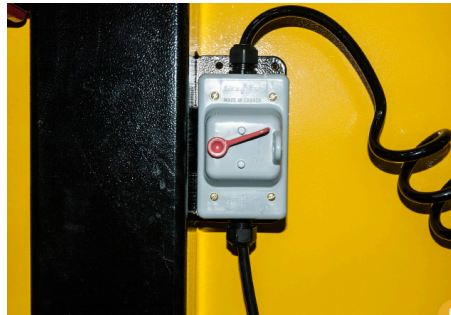
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LED LIGHT START-UP

LED LIGHT TOWER The HPL 600 D7 is equipped with up to 4 LED panels.

Follow the steps below to ensure the light tower of your HPL 600 D7 is safely set to operate.



1. Starting from the travel position.
2. Tilt the LED's to your desired position.
3. Turn on LED's to ensure all connections are secured.
4. Extend the LED retractable light stand by turning the crank. Locking will occur automatically.
5. Turn on the LED's by moving the lever to the "ON" position
6. The HPL 600 D7 LED's are now ready to be used.
7. Do not position light tower under electrical power lines
8. Do not move unit with lights extended or heater generator operating.
9. Do not extend tower past yellow line.



Please refer to towing instructions prior to moving.



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HPL START-UP CHECKLIST

	1. Ensure trailer is on level ground.
	2. Check and refill oil, fuel and coolant levels.
	3. Make sure the battery is fully charged and the terminals are tight.
	4. Check unit has been properly shut down from last use. <ul style="list-style-type: none">• Heater selector switch in "OFF" position.• LED Light switch is in "OFF" position.
	5. Ensure area is clear of electrical power lines before raising light tower.
	6. Wear approved ear protection equipment within 10ft (3.05 m) of operating heater.
	7. Disconnect fuel filter warmer when the ambient temperature is about 0°C (32°F)



IMPORTANT NOTE

If outside temperatures are below 0 °C (32 °F) Block Heater MUST be plugged in for at least 2 hours prior to starting generator.

When operating in extreme cold conditions without heater operating, the Block Heater supply cord can be plugged directly into a generator outlet to add load and help engine maintain proper operating temperatures.

If engine fails to start refer to engine manual trouble shooting guide. If generator fails to operate refer to generator trouble shooting guide.

BATTERY WARNING

The generator set requires a 12V DC-35Ah battery. Battery strength and performance will diminish in low temperatures. Use a battery blanket in conjunction with your block heater to ensure trouble free start up.



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HPL SHUT-DOWN CHECKLIST

- | | |
|--|---|
| | 1. Flip Heater selector switch to "OFF" position. The supply fan will continue to operate until the heat exchanger has sufficiently cooled to 80°F. (Remove ducting and store in storage area). |
| | 2. When heater fan has stopped, turn off LED panels and any auxilliary loads from the generator, then place both the main and GFCI circuit breakers to the "OFF" position. |
| | 3. Run the engine with no load and idle switch in the "ON" position for three to five minutes. |
| | 4. Turn the key to the "STOP" position. Idle switch to "OFF" position. |
| | 5. Lower light tower after use and before transport. |
| | 6. Close all doors and lock. |



IMPORTANT NOTICE

Failure to allow the fan to cool the heat exchanger after use can damage the heat exchanger. Do not shut "OFF" generator until supply fan has stopped running.

Proper Travel Position



Remove LED heads, secure and protect all wiring for extended transportation or extreme terrain

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SERVICE RECORD

Oil Change - FIRST OIL CHANGE DUE AT 50 HOURS OF OPERATION

Every 100 hours: Always check the crankcase oil level prior to each use, or when the fuel tank is filled. Insufficient oil may cause severe damage to the engine. Make sure the generator is level when checking the oil level. The oil level must be between the two notches on the dipstick.

Oil Cartridge

Every 200 hours: Replace the engine oil filter cartridge after every 200 hours of operation.

Recommended Motor Oil

Below 32°F (0 °C)

SAE10 or SAE10W~30/
SAE10W-40

Contact Us With Any Questions

1 (800) 486-4328

Date	Hours of Service	Oil Level	Coolant Level	Date	Hours of Service	Oil Level	Coolant Level

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CONTACT AEROTECH HERMAN NELSON

HOW TO GET HELP

Please have the model and serial number on-hand when calling
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WARNING

Before operation carefully read this operator's manual to familiarize yourself with the HPL 600D7 unit

For your own safety and longer product life, follow the instruction notices in this manual.

Keep this Operator Manual and the following manuals in the unit at all times

- Multiquip Parts and Operation Manual
- Kubota Diesel Engine Operation Manual
- Kubota Illustrated Parts Breakdown
- Blaze 600D - Oil Fired Space Heater Installation Instructions Manual Maintenance - Part List

Please visit www.heatpowerlight.com or www.hermannelson.com for training videos specifically designed to help you better understand how to use your HPL 600 D7 unit.



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