Mod-G88A-2364

Hotstart 120V 1500W Block Heater Replacement Part Instruction Manual

Model: Mod-G88A-2364

For Generac Generators

This manual provides essential instructions for the safe and effective installation, operation, and maintenance of your Hotstart 120V 1500W Block Heater Replacement Part.

1. Introduction

This document serves as a guide for the installation, operation, and maintenance of the Hotstart 120V 1500W Block Heater Replacement Part, Model Mod-G88A-2364. This block heater is designed to preheat engine coolant, facilitating easier engine starts in cold weather and reducing engine wear.

Please read this manual thoroughly before attempting any installation or operation to ensure proper function and safety.

2. Important Safety Information

Failure to follow these safety instructions may result in property damage, serious injury, or death.

- Always disconnect the power source to the generator and the heater before performing any installation, maintenance, or service.
- Ensure proper grounding of the electrical system to prevent electrical shock.
- Use only appropriate tools and equipment for installation.
- Avoid contact with hot surfaces during and after operation. The heater and surrounding components can reach high temperatures.
- Ensure the engine coolant system is properly drained and refilled according to the generator manufacturer's specifications.
- Professional installation by a qualified technician is recommended.
- Do not operate the heater if it is damaged or if any electrical wiring is frayed or exposed.

3. Package Contents

Verify that all items listed below are present in your package:

- 1x Hotstart 120V 1500W Block Heater Unit (Model Mod-G88A-2364)
- Mounting Hardware (Hose Clamps, Bolts, Nuts)

Image showing the Hotstart block heater unit along with included hose clamps, bolts, and nuts for installation.

4. Product Specifications

Specification	Detail
Part Numbers	590-893, 590893, TPS151GT10-000
Model Number	Mod-G88A-2364
Brand	Generic (Replacement for Hotstart)
Heat Power	1500W (1.5KW)
Voltage Range	120V
Heating Fluid	Engine Coolant
Heating Element	Incoloy 800

Enclosure Rating	IP41
Fluid Capacity	0.11 gal (0.013L)
Maximum Pressure	90 psi (620 kPa)
Inlet/Outlet Plumbing	0.625” (15.9mm)
Tank Material	Polyphenylensulfid PPS
Compatibility	Generac Generators (Replacement for Hotstart 084918G), Perkins Engines: 1103, 1104, 1106

5. Installation Instructions

Proper installation is crucial for the safe and efficient operation of the block heater. Refer to your generator's service manual for specific coolant system procedures.

1. **Disconnect Power:** Ensure the generator's battery is disconnected and all power sources are turned off.
2. **Drain Coolant:** Completely drain the engine coolant system according to the generator manufacturer's instructions.
3. **Select Mounting Location:** The heater must be mounted below the lowest level of the engine water jacket. This ensures proper coolant circulation through gravity flow. The heater's outlet port should be positioned higher than its inlet port to facilitate air bleeding and efficient heating.
4. **Mount Heater:** Securely mount the block heater unit using the provided hardware. Ensure the unit is stable and free from vibration.
5. **Connect Hoses:** Connect the heater to the engine's coolant system using appropriate hoses and the provided clamps. Ensure all connections are tight and leak-free.
6. **Refill Coolant:** Refill the engine coolant system with the recommended coolant type and to the correct level, following the generator manufacturer's guidelines.
7. **Bleed Air:** Thoroughly bleed any air from the coolant system. Air pockets can prevent proper heating and may damage the heater or engine.
8. **Inspect for Leaks:** After refilling, visually inspect all connections for any signs of coolant leaks.
9. **Reconnect Power:** Reconnect the generator's battery and power sources.

Diagram showing the block heater installed to allow for proper coolant circulation via gravity. The heater should be positioned below the engine's lowest coolant point, with the outlet higher than the inlet.

6. Operation

Once installed and the coolant system is properly filled and bled, the block heater is ready for operation.

- **Connecting Power:** Plug the heater's power cord into a suitable 120V electrical outlet. Ensure the outlet is rated for the heater's 1500W power consumption.
- **Preheating Time:** Allow sufficient time for the heater to warm the engine coolant. The required preheating time will vary depending on ambient temperature and engine size, typically ranging from 1 to 4 hours for optimal results.
- **Benefits:** Preheating the engine coolant helps to reduce cold start wear, improve fuel efficiency during startup, and ensure quicker engine response in cold conditions.
- **Disconnecting Power:** Unplug the heater from the electrical outlet when preheating is complete or when the generator is not in use.

7. Maintenance

Regular maintenance ensures the longevity and reliable performance of your block heater.

- **Visual Inspection:** Periodically inspect the heater unit, power cord, hoses, and clamps for any signs of wear, damage, or leaks.
- **Coolant Level:** Regularly check the engine coolant level and ensure it is maintained at the manufacturer's recommended level. Low coolant levels can lead to heater malfunction or damage.
- **Electrical Connections:** Ensure all electrical connections are secure and free from corrosion.
- **Cleaning:** Keep the exterior of the heater clean and free from debris. Do not use abrasive cleaners.
- **Hose and Clamp Integrity:** Check hoses for cracks or hardening and ensure clamps are tight to prevent leaks. Replace worn components as necessary.

8. Troubleshooting

Refer to the table below for common issues and their potential solutions.

Problem	Possible Cause	Solution
Heater does not turn on	No power to outlet Faulty power cord Internal heater fault	Check circuit breaker/fuse Inspect power cord for damage Contact support for replacement
Engine not heating sufficiently	Low coolant level Airlock in coolant system Improper heater installation (not below lowest point) Heater element failure	Check and top up coolant Bleed air from coolant system Verify heater mounting position Contact support for replacement
Coolant leaks	Loose hose clamps Damaged hoses Cracked heater housing	Tighten hose clamps Replace damaged hoses Contact support for replacement
Overheating of heater unit	Insufficient coolant flow Airlock in system	Check coolant level and flow Bleed air from coolant system

9. Warranty and Support

For warranty information, technical assistance, or to inquire about replacement parts, please contact your original retailer or the manufacturer directly. Keep your purchase receipt as proof of purchase.