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JEENDA TPS151GT10-000 Engine Block Heater User Manual

Model: **TPS151GT10-000** | Part Numbers: 590-893, 590893, 084918G

1. INTRODUCTION AND PRODUCT OVERVIEW

This manual provides essential information for the safe and effective installation, operation, and maintenance of your JEENDA TPS151GT10-000 Engine Block Heater. This 1500W, 120V coolant pre-heater is designed to warm the engine's coolant, facilitating easier cold starts and reducing engine wear in low-temperature conditions. The heater operates within a temperature range of 100°F (on) to 120°F (off), automatically maintaining optimal coolant temperature. It is suitable for a wide range of applications, including generators, heavy-duty mobile equipment, marine engines, industrial machinery, trucks, and certain passenger vehicles.



Figure 1: JEENDA TPS151GT10-000 Engine Block Heater with included accessories.

2. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions may result in electric shock, fire, serious injury, or property damage.

- Always disconnect power before installation or maintenance.
- Installation should be performed by a qualified professional to ensure proper electrical and coolant system integration.
- Ensure the electrical supply is 120V and properly grounded. Do not use extension cords that are not rated for the heater's wattage.
- Handle engine coolant with care. Refer to your vehicle or equipment manual for proper coolant type and disposal procedures.
- Do not operate the heater if the power cord or unit shows any signs of damage.
- Ensure all hose connections are secure and leak-free after installation.
- Keep children and pets away from the operating heater.

3. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- 1x JEENDA TPS151GT10-000 Engine Block Heater Unit
- 4x Hose Clamps
- 4x Mounting Bolts
- 4x Nuts



Figure 2: Included mounting hardware and hose clamps.

4. SPECIFICATIONS

| Feature | Specification |
|----------------------------|----------------------------------|
| Model Number | TPS151GT10-000 |
| Part Numbers | 590-893, 590893, 084918G |
| Power Output | 1500 Watts |
| Voltage | 120V |
| Temperature Range (On/Off) | 100°F - 120°F |
| Inlet & Outlet Size | 16mm (0.629 inches) |
| Power Cord Length | 155 cm (approximately 61 inches) |
| Item Weight | 1.59 pounds |
| Package Dimensions | 9.29 x 5.79 x 5.16 inches |

5. SETUP AND INSTALLATION

Proper installation is crucial for the performance and safety of the engine block heater. It is highly recommended that installation be performed by a certified mechanic or experienced professional.

5.1 Choosing an Installation Location

- The heater must be installed at the **lowest point** of the engine's cooling system to ensure proper coolant circulation and prevent air pockets.
- Ensure there is sufficient space for the unit and its hoses, avoiding contact with hot engine components or moving parts.
- The unit should be mounted vertically or at a slight angle to facilitate natural convection flow of coolant.

5.2 Coolant System Preparation

- Drain a sufficient amount of coolant from the engine's cooling system to allow for hose cutting and heater installation without excessive spillage.
- Identify suitable coolant hoses for cutting and integrating the heater. The heater has a designated inlet and outlet.



Figure 3: Heater unit showing inlet and outlet ports (16mm / 0.629 inches).

5.3 Mounting the Heater

- Using the provided mounting bolts and nuts, securely attach the heater unit to a stable surface in the chosen location.
- Ensure the mounting is firm and the heater will not vibrate or shift during vehicle/equipment operation.

5.4 Connecting Coolant Hoses

- Cut the selected coolant hose(s) to the appropriate length to accommodate the heater.
- Connect the coolant hoses to the heater's inlet and outlet ports.
- Securely fasten the hoses using the provided hose clamps. Double-check for tightness to prevent leaks.

5.5 Refilling and Bleeding the Cooling System

- Refill the cooling system with the appropriate coolant mixture according to the manufacturer's specifications.
- Bleed any air from the cooling system. Air pockets can severely impair heater performance and engine cooling.

5.6 Electrical Connection

- The heater operates on 120V. Ensure the electrical circuit can handle 1500W.
- Some units may not come with a pre-installed plug. If so, a suitable 120V plug must be professionally installed and wired correctly.
- Route the power cord safely, away from hot or moving parts, and secure it to prevent damage.

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Video 1: Overview of the JEENDA Engine Block Heater, showing its components and dimensions. This video demonstrates the physical aspects of the product, including the power cord length and plumbing sizes, which are relevant for installation planning.

6. OPERATING INSTRUCTIONS

The JEENDA Engine Block Heater is designed for simple operation once correctly installed.

- **Power Connection:** Plug the heater's power cord into a grounded 120V electrical outlet.
- **Automatic Operation:** The heater features an internal thermostat that automatically activates when the coolant temperature drops to approximately 100°F and deactivates when it reaches approximately 120°F. No manual adjustment is required.
- **Pre-heating Duration:** For optimal cold starting, allow the heater to operate for several hours (typically 2-4 hours, depending on ambient temperature and engine size) before starting the engine.
- **Disconnection:** Unplug the heater from the electrical outlet before starting the engine or when the heater is not needed.

7. MAINTENANCE

Regular inspection and basic maintenance will help ensure the longevity and efficient operation of your engine block heater.

- **Visual Inspection:** Periodically inspect the heater unit, power cord, and coolant hoses for any signs of wear, cracks, leaks, or damage. Replace any damaged components immediately.
- **Coolant Level:** Regularly check the engine's coolant level. Low coolant levels can cause the heater to overheat or operate inefficiently.
- **Cleanliness:** Keep the exterior of the heater unit clean and free from debris.
- **No User-Serviceable Parts:** The internal components of the heater are not user-serviceable. Do not attempt to open or repair the unit. If the heater malfunctions, consult a professional or contact customer support.

8. TROUBLESHOOTING

If you encounter issues with your JEENDA Engine Block Heater, refer to the following troubleshooting guide:

| Problem | Possible Cause | Solution |
|--------------------------------------|---|---|
| Heater does not turn on or heat | No power to the outlet Damaged power cord or plug Internal thermostat malfunction Heater element failure | Check the electrical outlet with another device. Inspect power cord and plug for damage; replace if necessary. Contact customer support or a professional for diagnosis. |
| Insufficient heating or slow heating | Low coolant level Air in the cooling system Improper installation location (not at lowest point) Restricted coolant flow | Check and top up coolant to proper level. Bleed air from the cooling system. Verify heater is installed at the lowest point of the cooling system. Inspect hoses for kinks or blockages. |
| Coolant leak | Loose hose clamps Damaged hose Cracked heater housing | Tighten hose clamps. Replace damaged hoses. If heater housing is cracked, replace the unit. |
| Heater runs continuously | Thermostat malfunction | Contact customer support or a professional for diagnosis. |

For issues not covered in this guide or if troubleshooting steps do not resolve the problem, please contact JEENDA customer support or a qualified service technician.

9. WARRANTY AND SUPPORT

JEENDA products are manufactured to high-quality standards and are backed by a manufacturer's warranty. Please refer to the warranty information provided at the time of purchase or contact JEENDA customer service for details regarding warranty coverage, terms, and conditions.

For technical assistance, replacement parts, or warranty claims, please contact your retailer or JEENDA customer support directly. When contacting support, please have your product model number (TPS151GT10-000) and purchase information readily available.

JEENDA Customer Support:

- Refer to your purchase documentation for specific contact details.
- Visit the official JEENDA website for support resources.