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JEABONG JB-018

JEABONG Diesel Parking Heater JB-018 User Manual

Comprehensive instructions for the 12V/8KW Diesel Air Heater with 10L Fuel Tank and Muffler

1. Introduction

This manual provides essential information for the safe and efficient operation of your JEABONG Diesel Parking Heater, Model JB-018. This 12V/8KW diesel air heater is designed to provide warmth in various applications, including RVs, trucks, trailers, and boats. It features a smart LCD display and remote control for convenient operation.

The heater is engineered for rapid heating, capable of increasing interior temperatures within 10 minutes, and can also assist in engine warming and window defrosting. Its advanced control system includes an altitude module for automatic parameter adjustment at high altitudes (up to 5,000 meters) and comprehensive protection features, such as automatic disconnection in case of relay failure, to ensure safety.

2. Product Overview and Components

The JEABONG Diesel Parking Heater system includes the main heating unit, a fuel tank, control panel, remote, and various installation accessories. Understanding each component is crucial for proper setup and operation.



Figure 1: All components included with the JEABONG Diesel Parking Heater. This image displays the main heater unit, LCD control panel, remote control, 10L fuel tank, muffler, wiring harness, intake pipe, exhaust pipe, fuel filter, air filter, fuel pump, tubing, mounting plate, fuel pump clamp, and various installation hardware.

The heater operates by drawing in cold air, heating it through a combustion process using diesel fuel, and then expelling hot air. Fumes are safely vented through the exhaust system.

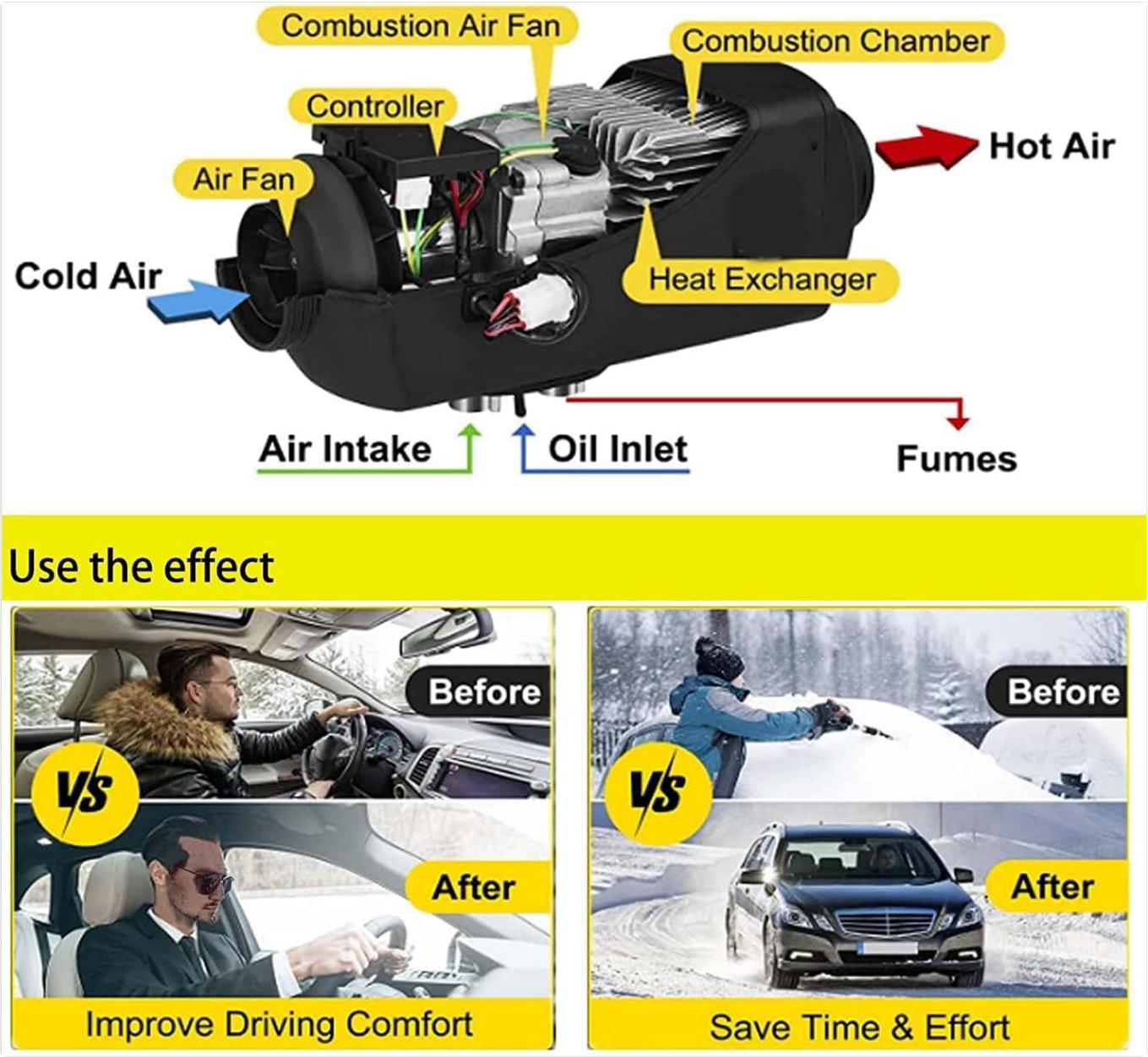


Figure 2: Internal diagram illustrating the operational flow of the diesel parking heater. This diagram shows the cold air intake, hot air output, air fan, combustion air fan, controller, combustion chamber, heat exchanger, oil inlet, and fume exhaust path.

3. Package Contents

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

- 1x LCD Switch
- 1x Remote Control
- 1x 10L Fuel Tank
- 1x Muffler
- 1x Wiring Harness
- 1x Intake Pipe
- 1x Exhaust Pipe
- 1x Oil Filter
- 1x Air Filter
- 1x Oil Pump
- 1x Tubing

- 1x Mounting Plate
- 1x Oil Pump Clamp
- 1x Installation Kit (various clamps, screws, nuts)
- 1x English Manual

4. Safety Information

Read and understand all safety warnings and instructions before installing or operating the heater. Failure to follow these instructions may result in fire, explosion, electric shock, or other hazards, causing property damage, personal injury, or death.

- Ensure adequate ventilation during operation to prevent carbon monoxide buildup.
- Do not operate the heater in enclosed spaces without proper exhaust ventilation.
- Keep flammable materials at a safe distance from the heater and exhaust components.
- Ensure all fuel connections are secure and leak-free.
- Use only diesel fuel as specified.
- Disconnect power before performing any maintenance or inspection.
- Do not modify the heater or its components.
- Keep children and pets away from the operating heater.

5. Setup and Installation

Proper installation is critical for the safe and efficient operation of your diesel parking heater. If you are unsure about any step, it is recommended to seek professional assistance.

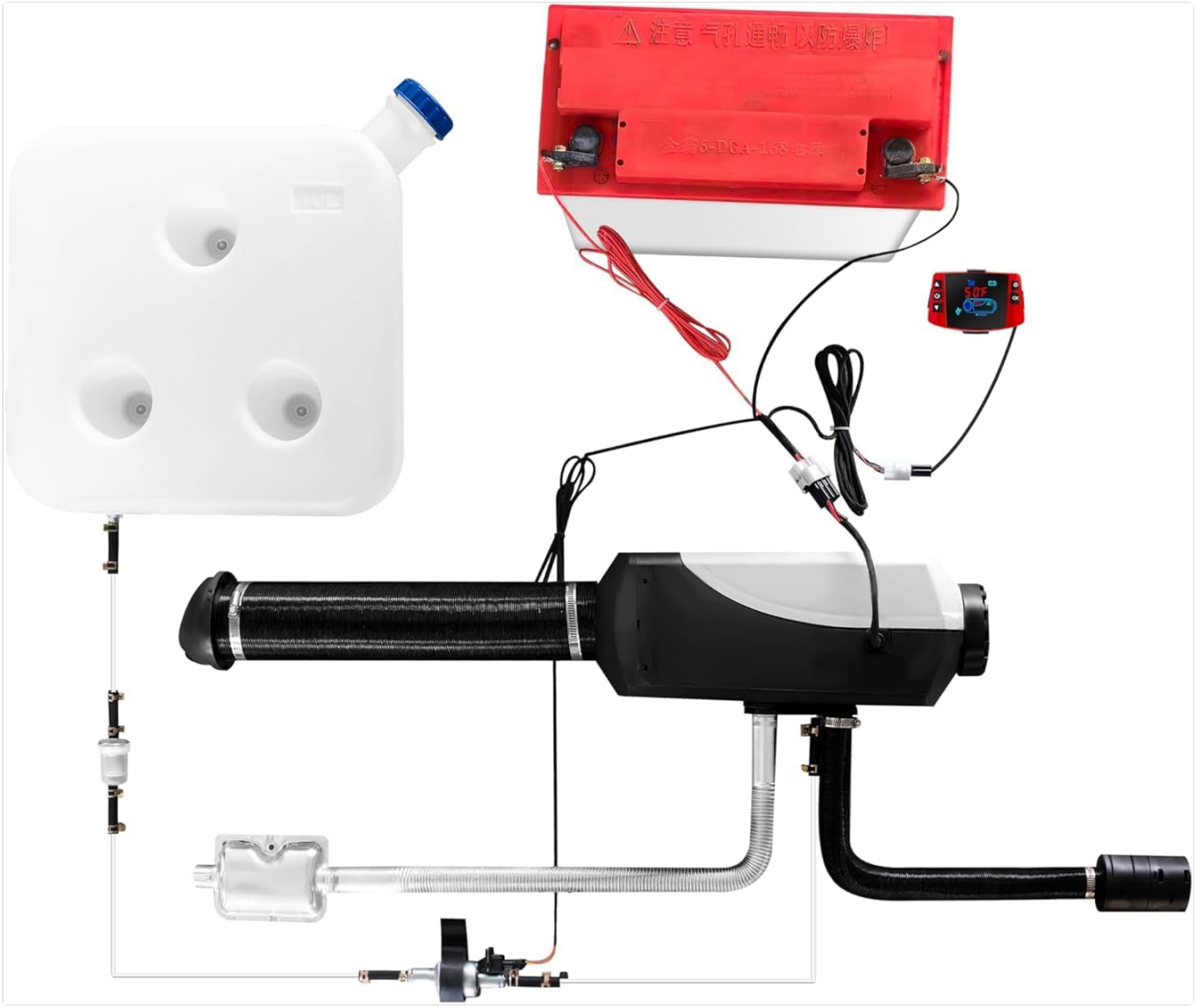


Figure 3: General installation diagram for the diesel parking heater system. This diagram illustrates the connections for the fuel tank, fuel pump, main heater unit, exhaust, intake, battery, and control panel.

5.1 Mounting the Heater

- Select a suitable, stable, and heat-resistant location for the main heater unit.
- Use the provided mounting plate and hardware to secure the heater firmly.
- Ensure there is sufficient clearance around the heater for air circulation and maintenance.

5.2 Fuel System Connection

- Install the 10L fuel tank in a secure location, ensuring it is easily accessible for refueling.
- Connect the fuel line from the tank, through the fuel filter, to the fuel pump.
- Connect the fuel pump to the heater's oil inlet using the provided tubing and clamps.
- Ensure all fuel connections are tight and free from leaks.

5.3 Electrical Connection

- Connect the main wiring harness to a 12V power source (e.g., vehicle battery).
- Ensure correct polarity (+ to + and - to -).
- Connect the LCD control panel and remote control receiver to the wiring harness as per the diagram.

5.4 Exhaust and Intake System

- Attach the intake pipe to the heater's air intake and secure it with a clamp. Position the intake to draw in clean, fresh air.
- Connect the exhaust pipe to the heater's exhaust outlet and secure it. Route the exhaust pipe away from the vehicle or structure, ensuring fumes are safely expelled into the open air and cannot re-enter.
- Install the muffler on the exhaust pipe to reduce noise.

6. Operation

6.1 Control Panel (LCD Display)

The LCD display provides real-time status, temperature, and fault information. It allows for precise control over the heater's settings.



Figure 4: The LCD control panel and remote control for the JEABONG Diesel Parking Heater. The LCD displays operational parameters and fault codes, while the remote offers convenient wireless control.

6.2 Remote Control

The remote control allows for convenient wireless operation of the heater, including power on/off and temperature adjustments.

6.3 Starting the Heater

1. Ensure the fuel tank contains sufficient diesel fuel.
2. Power on the heater using the LCD panel or remote control.
3. The heater will initiate a startup sequence, including fuel priming and glow plug activation. This process may take a few minutes.
4. Once started, the heater will begin to produce hot air.

6.4 Adjusting Settings

- Use the buttons on the LCD panel or remote control to adjust the desired temperature or heating power.
- The LCD display will show the current settings and operational status.
- The heater features an altitude module that automatically adjusts parameters for optimal performance at elevations up to 5,000 meters.

6.5 Shutting Down the Heater

To turn off the heater, press the power button on the LCD panel or remote control. The heater will enter a cool-down cycle to prevent overheating and ensure component longevity. Do not disconnect power during the cool-down cycle.

7. Maintenance

Regular maintenance ensures the longevity and efficient operation of your heater.

- **Fuel Filter:** Periodically inspect and replace the fuel filter to ensure clean fuel delivery.
- **Air Filter:** Check and clean or replace the air filter as needed to maintain proper airflow.
- **Glow Plug Atomization Net:** The heater is equipped with a tool for disassembling and assembling the glow plug atomization net, facilitating easy maintenance. Inspect and clean this component to ensure efficient combustion.
- **Exhaust System:** Regularly check the exhaust pipe and muffler for blockages or damage.
- **General Cleaning:** Keep the exterior of the heater clean and free from dust and debris.

8. Troubleshooting

The LCD display can show fault information, aiding in quick troubleshooting. Refer to the specific fault codes in the included manual for detailed solutions.

- **Heater Not Starting:**
  - Check fuel level in the tank.
  - Ensure all electrical connections are secure and the battery has sufficient charge.
  - **Fuel Priming:** If the heater is new or has run out of fuel, the fuel line may need priming. This can often be initiated via the control panel. Alternatively, some users find it effective to disconnect the fuel line at the combustion chamber and allow gravity to purge air before reconnecting.
  - Check for blockages in the fuel line or filter.
- **Reduced Heat Output:**
  - Inspect air intake and exhaust for obstructions.
  - Clean or replace the air filter.
  - Check the glow plug atomization net for soot buildup.
- **Excessive Smoke:**
  - This can indicate incomplete combustion. Check fuel quality, fuel pump operation, and glow plug condition.
  - Ensure proper air intake and exhaust.
- **Unusual Noises:**
  - A ticking sound from the fuel pump is normal.
  - Investigate any grinding or scraping noises, which may indicate an issue with the fan or motor.
- **Overheating:**
  - The heater automatically reduces speed if the internal temperature is too high. Ensure adequate airflow around the unit.

9. Product Specifications

Key technical specifications for the JEABONG Diesel Parking Heater JB-018:

Feature	Specification

Feature	Specification
Brand	JEABONG
Model	JB-018
Heating Power	8KW
Rated Voltage	12V
Operating Temperature (Heater & Oil Pump)	-40°C to +50°C
Fuel Tank Capacity	10 Liters
Item Weight	15.45 pounds
Product Dimensions	15.35 x 5.51 x 5.51 inches
Exterior Material	Plastics
Altitude Compensation	Up to 5,000 meters



Figure 5: Product dimensions and typical applications. The image shows the heater's dimensions (approximately 15.2 inches long, 5.7 inches wide/high) and examples of use in trucks, excavators, RVs, and warehouses.

10. Warranty and Support

For warranty information, please refer to the documentation included with your purchase or contact the seller directly. If you encounter any issues or require technical assistance, please reach out to JEABONG customer support through the platform where the product was purchased. Provide your model number (JB-018) and a detailed description of the issue for efficient support.

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