

PETSTIBLE 453135EY6VTW4968K240Y43KY6

PETSTIBLE 12V/24V Diesel Heater Control Board User Manual

Model: 453135EY6VTW4968K240Y43KY6

1. INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of the PETSTIBLE 12V/24V Diesel Heater Control Board. This control board is designed for compatibility with 3KW, 5KW, and 8KW air diesel parking heaters, making it suitable for various vehicles such as cars, trucks, and RVs. It features an LCD display for easy control and a remote for convenient operation.

2. PACKAGE CONTENTS

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

- 1x LCD Switch Control Panel
- 1x Remote Control
- 1x Mother Board (Control Unit)



Image 2.1: Complete package contents including LCD switch, remote, and motherboard.

3. SPECIFICATIONS

Voltage Compatibility	12V / 24V
Heater Power Compatibility	3KW, 5KW, 8KW Air Diesel Heaters
Remote Control Distance	Up to 10 meters
LCD Connector Pin	3 Pins Triangle
Remote Control Buttons	4 Buttons
Product Dimensions	5.51 x 4.72 x 1.97 inches
Item Weight	8.3 ounces

4. SAFETY INFORMATION

Read all instructions before installation and use. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Ensure the power supply to the diesel heater is disconnected before attempting any installation or maintenance.
- Verify that the voltage of your heater system (12V or 24V) matches the control board's compatibility.
- Do not expose the control board or remote control to water or excessive moisture.
- Avoid installing the unit in areas with extreme temperatures or direct sunlight.
- All electrical connections should be secure and properly insulated to prevent short circuits.

5. SETUP AND INSTALLATION

The control board is designed for straightforward installation. It comes with a comprehensive wiring harness and sensor, including connectors for the switch, oil pump, and motherboard. This full harness setup ensures easy replacement and installation.

5.1 Identifying Components

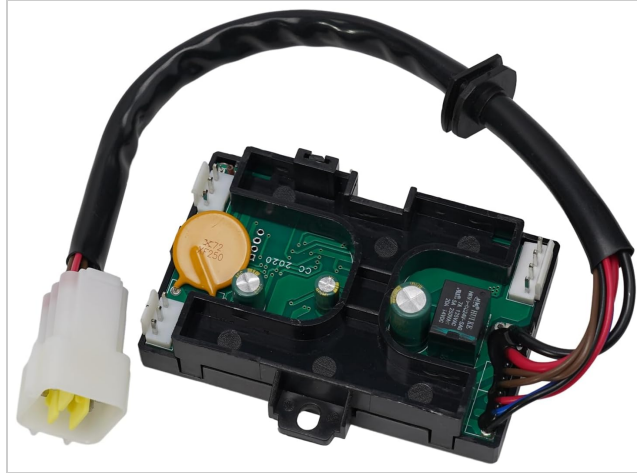


Image 5.1: The main control motherboard.



Image 5.2: The LCD switch control panel with buttons.



5.2 Connection Steps

1. **Mount the Mother Board:** Securely mount the main control board in a protected location near your diesel heater.
2. **Connect the LCD Switch:** Connect the 3-pin triangle connector from the LCD switch control panel to the corresponding port on the motherboard.
3. **Connect Power and Heater Components:** Connect the main power supply, fuel pump, and other heater components (e.g., fan, glow plug) to the appropriate connectors on the motherboard. Refer to your specific diesel heater's wiring diagram for exact connections.
4. **Secure all Connections:** Ensure all connectors are firmly seated and locked to prevent accidental disconnections or poor contact.
5. **Test Functionality:** After all connections are made, restore power to the heater system and test the functionality of the control board and heater.

6. OPERATING INSTRUCTIONS

The LCD controller allows for easy setting of fuel, electricity, and temperature. It also supports manual fuel filling mode and timing start/stop functions.

6.1 LCD Control Panel Functions



Image 6.1: Front view of the LCD control panel with buttons.

- **Power Button (⏻):** Press to turn the heater ON or OFF.
- **Up Button (▲):** Used to increase values (e.g., temperature, power) or navigate menu options upwards.
- **Down Button (▼):** Used to decrease values or navigate menu options downwards.
- **Settings Button (⚙️):** Accesses the settings menu to adjust parameters like fuel rate, fan speed, and timing.
- **OK Button:** Confirms selections or enters sub-menus.

6.2 Basic Operation

1. **Power On/Off:** Press the Power button to start or stop the heater.
2. **Adjust Temperature/Power:** Use the Up and Down buttons to set the desired temperature or heating power level.
3. **Access Settings:** Press the Settings button to enter the configuration menu. Use Up/Down to navigate and OK to select.
4. **Manual Fuel Filling:** This mode can typically be accessed via the settings menu to prime the fuel system.

5. **Timing Start/Stop:** Set specific times for the heater to turn on or off automatically through the settings menu.

7. REMOTE CONTROL OPERATION

The included remote control allows for convenient operation from up to 10 meters away.



Image 7.1: The 4-button remote control for the diesel heater.

7.1 Pairing the Remote Control (General Guidance)

While specific pairing instructions may vary slightly, a common procedure for these types of remotes involves:

1. Ensure the heater is powered off.
2. Press and hold a specific button on the LCD control panel (often the 'OK' or 'Settings' button) while powering on the heater.
3. The LCD display may show a pairing indicator (e.g., 'HFA' or 'REM').
4. While the indicator is active, press any button on the remote control.
5. The display should confirm successful pairing.

Refer to the specific instructions provided with your diesel heater for precise remote control pairing procedures.

8. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your control board.

- **Cleaning:** Keep the LCD display and control panel clean and free of dust and debris. Use a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Connections:** Periodically check all wiring connections to ensure they are secure and free from corrosion.
- **Environmental Protection:** Ensure the control board is protected from extreme temperatures, moisture, and direct impacts.

9. TROUBLESHOOTING

If you encounter issues with your control board, refer to the following common troubleshooting steps:

- **No Power to LCD:** Check all power connections to the motherboard and the connection between the motherboard and the LCD switch. Ensure the vehicle's battery has sufficient charge.
- **Heater Not Starting:** Verify that the control board is receiving power and that all heater components (fuel pump, glow plug, fan) are correctly connected to the motherboard. Check for error codes on the LCD display.
- **Remote Control Not Working:** Ensure the remote control's battery is functional. Attempt to re-pair the remote control with the main unit as described in Section 7.1.
- **Incorrect Readings/Behavior:** Disconnect power, wait a few minutes, and reconnect to perform a soft reset. Check all sensor connections.

For persistent issues, consult a qualified technician or contact customer support.

10. WARRANTY AND SUPPORT

Specific warranty details for this product are not provided in this manual. Please refer to the purchase documentation or contact the seller directly for information regarding warranty coverage and customer support.