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AMI PARTS 93866-SET

AMI PARTS RV Water Heater Repair Kit Instruction Manual

Model: 93866-SET

1. Introduction

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of the AMI PARTS 3-in-1 RV Water Heater Repair Kit. This kit is designed to replace critical components in compatible Atwood/Dometic RV water heaters, ensuring reliable hot water supply during your travels. Please read these instructions carefully before proceeding with any installation or repair.

2. Product Overview

The AMI PARTS 3-in-1 RV Water Heater Repair Kit (Model 93866-SET) includes the following components:

- **91365 Control Circuit Board:** Manages the water heater's functions, including ignition and temperature regulation.
- **91447 Thermal Cut-Off & Thermostat Kit:** Provides overheat protection and temperature sensing. Includes thermal cut-offs, ECO thermostat, and TSTAT thermostat.
- **93868 Igniter Electrode:** Responsible for igniting the propane gas to heat the water.

2.1. Compatibility

This kit is compatible with a wide range of Atwood/Dometic RV water heater models, including but not limited to:

- GH6-3E, GH6-4E, GH6-6E, GH6-7E, GH6-8E
- GCH6-3E, GCH6-4E, GCH6-6E, GCH6-7E
- G6A-2E to G6A-8E
- GC6AA-7E to GC6AA-10E
- GC10-1E, GC10-2E
- GC10A-2E to GC10A-4E
- GCH10A-2E to GCH10A-4E
- GH610-3E, XT 6 & 10 Series

2.2. Kit Components Visual



Figure 1: Overview of the AMI PARTS 3-in-1 RV Water Heater Repair Kit components.

This image displays the complete set of parts included in the repair kit, providing a visual reference for each component.



Figure 2: The 91365 RV Water Heater Control Circuit Board.

The 91365 control circuit board features intelligent temperature control, over-voltage protection, and quick start heating capabilities.



Figure 3: The 93866 RV Water Heater Thermal Cutoff Kit.

This kit includes thermal cut-offs, an ECO thermostat (shown 180°F / 82°C), and a TSTAT thermostat (shown 140°F / 60°C) for safety and temperature regulation.

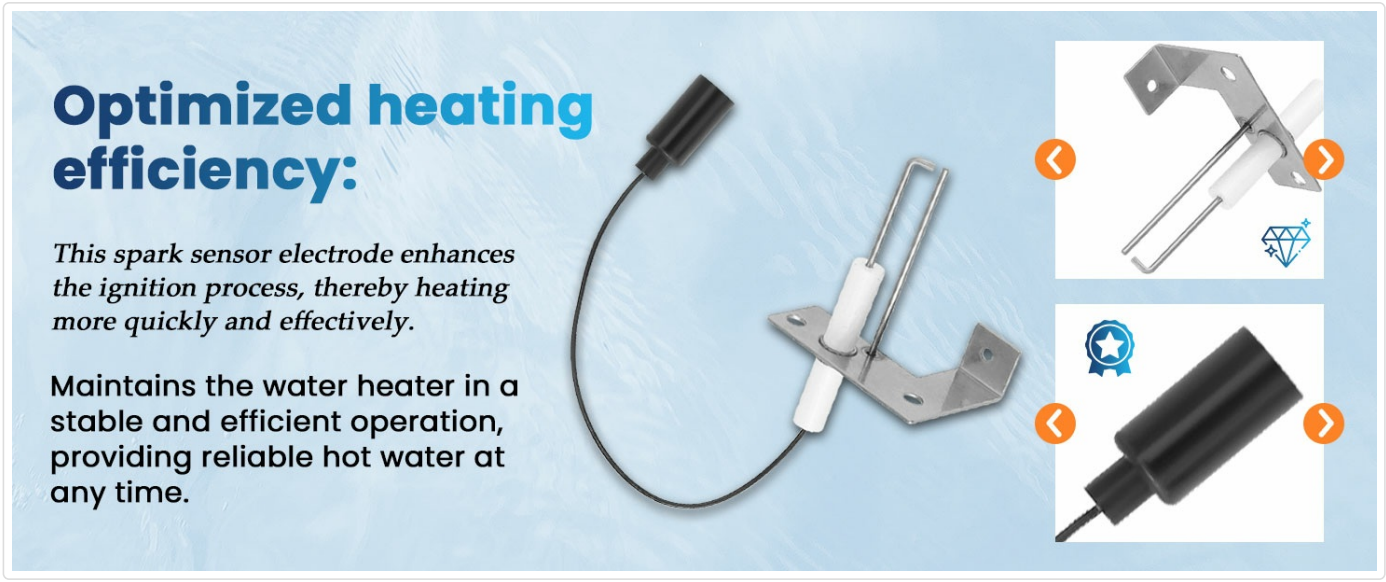


Figure 4: The 93868 Water Heater Igniter Electrode.

The 93868 igniter electrode is designed to enhance the ignition process for quicker and more effective heating, maintaining stable water heater operation.

3. Safety Information

WARNING: Before attempting any installation or repair, ensure the RV's power supply (both 12V DC and 120V AC) and propane supply are completely shut off. Failure to do so can result in serious injury, electric shock, fire, or property damage. If you are unsure about any step, consult a qualified RV technician.

- Always wear appropriate personal protective equipment (PPE), such as safety glasses and gloves.
- Ensure proper ventilation when working with propane systems.
- Verify all connections are secure and correct before restoring power or propane.
- Do not modify any components. Use only genuine replacement parts.

4. Installation

Replacing RV water heater components requires careful attention to detail. While this kit is designed for compatibility, specific installation steps can vary slightly depending on your exact Atwood/Dometic water heater model.

4.1. General Installation Steps (Consult Specific Model Manual)

1. **Disconnect Power and Propane:** Turn off all power to the RV and shut off the propane supply at the tank.
2. **Drain Water Heater:** Ensure the water heater is completely drained and cooled before beginning work.
3. **Access Components:** Locate and access the specific component (circuit board, thermal cut-off, igniter electrode) that needs replacement. This usually involves removing the exterior access panel of the water heater.
4. **Document Connections:** Take photos or make diagrams of existing wiring connections before disconnecting any wires.
5. **Remove Old Component:** Carefully disconnect wires and mounting hardware to remove the faulty component.
6. **Install New Component:** Install the new AMI PARTS component, ensuring all connections are secure and correctly matched to your documentation.
7. **Test for Leaks (if applicable):** If water lines were disturbed, refill the water heater and check for leaks before restoring power.
8. **Restore Power and Propane:** Once installation is complete and verified, slowly restore propane and then electrical power.

9. **Test Operation:** Test the water heater's function to ensure proper operation.

4.2. Video Installation Guide

For detailed, step-by-step visual instructions, it is highly recommended to search for video tutorials specific to your RV brand and water heater model on platforms like YouTube. Professional repair technicians often provide comprehensive guides.
Example search terms: *"Your RV brand + Your RV water heater model + circuit board replacement"*or *"Atwood GC6AA-10E igniter replacement"*.

Your browser does not support the video tag.

Video 1: An overview of the AMI PARTS RV Water Heater Repair Kit and its benefits. This video provides a general introduction to the product and its application in RV water heater maintenance.

This video provides a general overview of the RV water heater parts and their function. For specific installation, always refer to your water heater's original manual or model-specific online tutorials.

5. Operation

The AMI PARTS repair kit components restore the functionality of your RV water heater. The operation of the water heater itself is governed by its original manufacturer's design. Typically, RV water heaters operate as follows:

- **Power On:** Activate the water heater from your RV's control panel. Select between electric and/or propane operation, if applicable.
- **Ignition (Propane Mode):** The 93868 igniter electrode, controlled by the 91365 circuit board, will spark to ignite the propane burner.
- **Temperature Regulation:** The 91447 thermal cut-off and thermostat kit, along with the 91365 circuit board, monitors water temperature and cycles the heating element or burner to maintain the set temperature.
- **Safety Shut-off:** In case of overheating, the thermal cut-off will interrupt power to prevent damage.

Refer to your RV water heater's original owner's manual for specific operating instructions and temperature settings.

6. Maintenance

Regular maintenance of your RV water heater, including the components replaced by this kit, helps ensure longevity and efficient operation.

- **Annual Inspection:** Have your RV water heater inspected annually by a qualified technician.
- **Check for Corrosion:** Periodically inspect the igniter electrode and burner assembly for corrosion or blockages.
- **Wiring Connections:** Ensure all electrical connections to the circuit board and thermostats are clean and tight.
- **Thermal Cut-Off:** The thermal cut-off is a safety device. If it trips repeatedly, investigate the underlying cause rather than simply resetting it.
- **Clean Burner Tube:** Keep the burner tube free of debris and insect nests.

7. Troubleshooting

This section addresses common issues that the AMI PARTS repair kit is designed to resolve. Always ensure safety precautions (Section 3) are followed before troubleshooting.

7.1. No Hot Water / Ignition Failure

- **Check Propane Supply:** Ensure propane tank is open and not empty.

- **Verify 12V DC Power:** The circuit board requires 12V DC to operate.
- **Inspect Igniter Electrode (93868):** Look for damage, corrosion, or improper gap. Replace if faulty.
- **Examine Circuit Board (91365):** A faulty circuit board can prevent ignition. Look for signs of burning or damage.

7.2. Water Temperature Imbalance / Overheating

- **Check Thermostats (91447 Kit):** The ECO and TSTAT thermostats regulate temperature. If water is too hot or not hot enough, these may be faulty.
- **Thermal Cut-Off Tripped (91447 Kit):** If the thermal cut-off has tripped, it indicates an overheat condition. Replace the thermal cut-off and investigate the cause of overheating (e.g., faulty thermostat, blocked flue).
- **Circuit Board (91365):** A malfunctioning circuit board can lead to incorrect temperature regulation.

7.3. Blown Fuse

- **Identify Fuse Location:** Check the fuses on the 91365 circuit board and any inline fuses in the water heater's wiring.
- **Replace Fuse:** Replace with a fuse of the correct amperage.
- **Investigate Cause:** A blown fuse often indicates an electrical short or overload. If fuses blow repeatedly, consult a technician.

8. Specifications

Feature	Detail
Brand	AMI PARTS
Model Number	93866-SET
Included Components	91365 Control Circuit Board, 91447 Thermal Cut Off & Thermostat Kit, 93868 Igniter Electrode
Material	Acrylonitrile Butadiene Styrene, Aluminum, Metal
Item Weight	0.37 Kilograms
Mount Type	Wall (for circuit board)
Is Electric	Yes (operates with 12V DC)

9. Warranty and Support

AMI PARTS provides a 12-month warranty for this RV Water Heater Repair Kit. For any questions regarding your RV water heater replacement needs or to claim warranty support, please contact AMI PARTS customer service.
You can visit the official AMI PARTS Store on Amazon for more information:AMI PARTS Store

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