

Dometic 3316348.900

Dometic 3316348.900 Power Module Board Instruction Manual

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1. PRODUCT OVERVIEW

This manual provides instructions for the Dometic 3316348.900 Power Module Board, a replacement component designed for Dometic refrigeration systems. This board manages power distribution and control functions within the appliance, ensuring proper operation of various components.

1.1 What's in the Box

- Dometic 3316348.900 Power/Control Module
- Instruction Manual (this document)

2. SAFETY INFORMATION

WARNING: Electrical shock hazard. Disconnect all power sources before installation or servicing. Failure to do so can result in serious injury or death.

- Always ensure the appliance is completely disconnected from all power sources (AC and DC) before attempting any installation, removal, or maintenance.
- Installation should only be performed by a qualified technician or individuals with experience in electrical systems and appliance repair.
- Wear appropriate personal protective equipment (PPE), such as safety glasses and insulated gloves.
- Verify all connections are secure and correctly wired according to the appliance's wiring diagram.
- Do not operate the appliance with damaged wiring or components.

3. INSTALLATION

This section outlines the general procedure for replacing the Dometic 3316348.900 Power Module Board. Specific steps

may vary depending on your Dometic appliance model. Refer to your appliance's service manual for detailed wiring diagrams and component locations.

3.1 Tools Required

- Screwdriver set (Phillips and flathead)
- Wire cutters/strippers (if necessary)
- Multimeter (for testing connections)
- Digital camera (for documenting existing connections)

3.2 Removal of Old Board

1. **Disconnect Power:** Ensure the Dometic appliance is completely disconnected from all AC (shore power) and DC (battery) power sources.
2. **Access Panel:** Locate and remove the access panel for the control board, typically found at the rear or bottom of the appliance.
3. **Document Connections:** Before disconnecting any wires, take clear photographs of all existing wire connections to the old power module board. Note the color and position of each wire.
4. **Disconnect Wires:** Carefully disconnect all wires and connectors from the old board. Pay attention to any locking tabs on connectors.
5. **Remove Mounting Screws:** Unscrew any mounting screws securing the old board in place and carefully remove it.

3.3 Installation of New Board

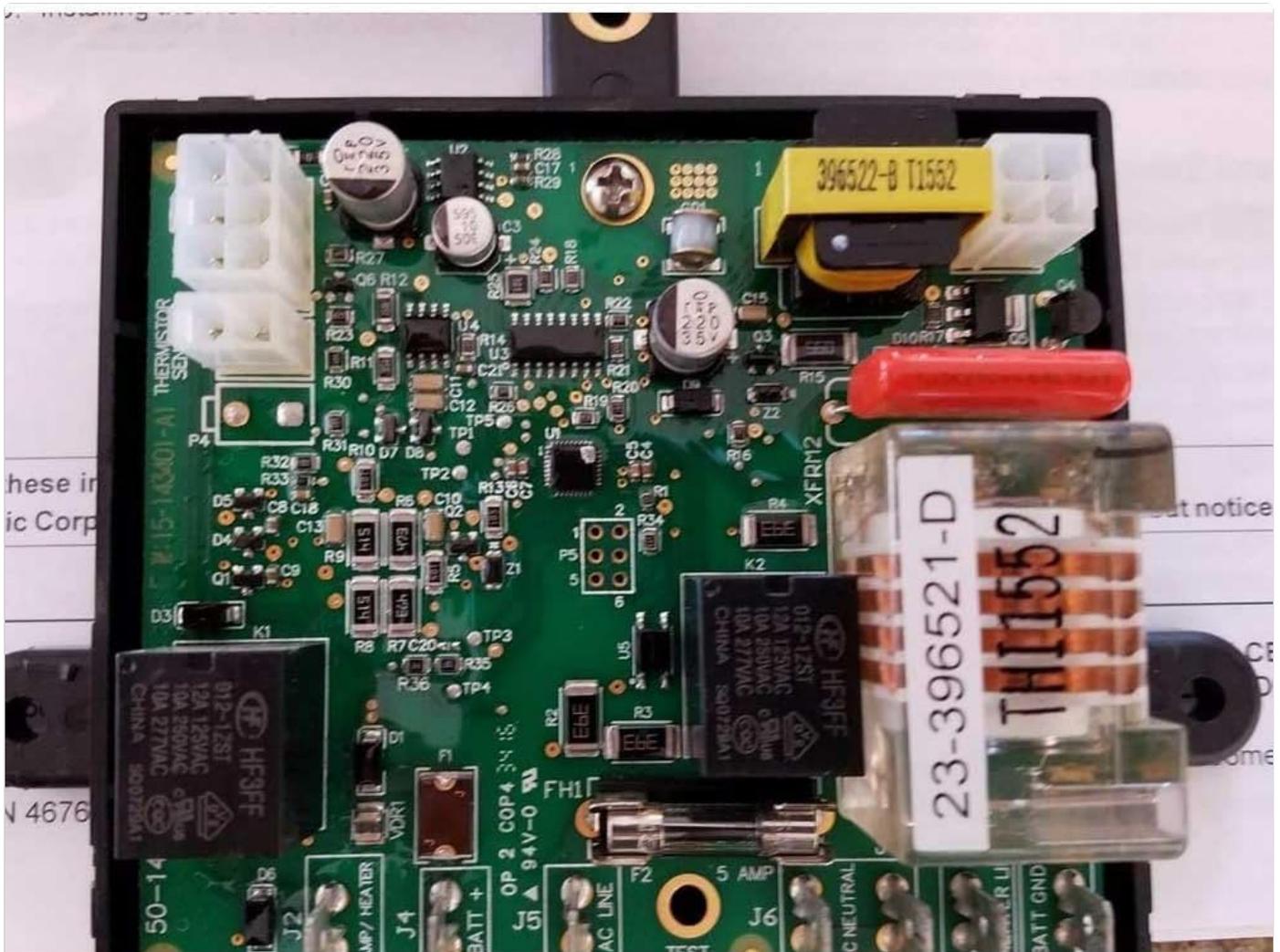


Image 1: Dometic 3316348.900 Power Module Board. This image shows the circuit board with various connectors, relays, and components. Key connection points for power, thermistor, and other functions are visible.

1. **Position New Board:** Carefully place the new Dometic 3316348.900 Power Module Board into the mounting location.
2. **Secure Board:** Secure the new board using the appropriate mounting screws. Ensure it is firmly in place. Note: Some older models may have a ground screw in a different location than the new board. The new board's ground is typically on a mounting screw. Do not attempt to ground test holes.
3. **Reconnect Wires:** Refer to the photographs taken during removal and the appliance's wiring diagram. Connect all wires and connectors to their corresponding terminals on the new board. Ensure all connections are snug and correctly seated.
4. **Double-Check Connections:** Visually inspect all connections to confirm they are correct and secure. Tug gently on each wire to ensure it is properly seated.
5. **Replace Access Panel:** Once all connections are verified, replace the access panel.
6. **Restore Power:** Reconnect AC and DC power sources to the appliance.

4. OPERATION

The Dometic 3316348.900 Power Module Board is an internal control component. Its proper function is indicated by the correct operation of your Dometic refrigeration unit. After installation, the appliance should power on and function as expected, controlling cooling, heating, and other features based on user input from the main control panel.

- Monitor the appliance for normal operation, including cooling performance and proper mode switching (e.g., AC to Gas).
- Ensure all display indicators on the main control panel are functioning correctly.

5. MAINTENANCE

The Dometic 3316348.900 Power Module Board itself requires no routine maintenance. However, ensuring the overall cleanliness and proper functioning of the refrigeration system will contribute to the longevity of all components, including the power module board.

- Periodically inspect wiring connections for looseness or corrosion.
- Keep the area around the power module board free from dust, debris, and moisture.
- Ensure proper ventilation for the refrigeration unit to prevent overheating of components.

6. TROUBLESHOOTING

If your Dometic appliance is not functioning correctly after replacing the power module board, consider the following troubleshooting steps:

- **No Power/Appliance Not Turning On:**
 - Verify all power sources (AC and DC) are connected and supplying power.
 - Check all fuses, both on the power module board and within the appliance's electrical system.
 - Ensure all wire connections to the new board are secure and correctly seated.
- **Appliance Not Cooling on AC Power:**
 - Confirm AC power is present at the appliance.

- Inspect the heating element for continuity (if applicable to your model).
- Check for a failed thermal fuse, which can prevent AC operation.
- Consider if the upper control board (eyebrow board) might be the issue, as it communicates with the power module board for AC operation.

- **Appliance Not Working on Gas Mode (No Spark/No Gas Smell):**

- Ensure gas supply is open and propane tanks are not empty.
- Check for proper ignition system function (spark electrode, igniter).
- Verify gas valve operation.

- **Intermittent Operation or Error Codes:**

- Consult your appliance's specific service manual for error code definitions.
- Re-check all connections for looseness or corrosion.
- Ensure the thermistor sensor is properly connected and functioning.

If troubleshooting steps do not resolve the issue, it is recommended to contact a qualified Dometic service technician.

7. SPECIFICATIONS

Model Number	3316348.900
Brand	Dometic
Item Weight	12 ounces
Product Dimensions	6 x 6 x 6 inches
Manufacturer Part Number	3316348.900
ASIN	B00BURPLEW
Date First Available	March 15, 2013

8. WARRANTY & SUPPORT

For warranty information regarding your Dometic 3316348.900 Power Module Board, please refer to the documentation provided with your original Dometic appliance or visit the official Dometic website. Dometic offers customer support for product inquiries, technical assistance, and service needs.

Contact Dometic Support:

- Visit the official Dometic website for contact details and support resources.
- Consult your appliance's user manual for specific service center information.

