

American Dish Service 291-9003

Instruction Manual

AMERICAN DISH SERVICE 291-9003 ELEMENT RINSE TANK

For ADC-44 and ADC-66 Commercial Dishwashers

1. Introduction

This instruction manual provides essential information for the proper installation, operation, maintenance, and troubleshooting of the American Dish Service 291-9003 Element Rinse Tank. This component is a genuine OEM replacement part designed for use in American Dish Service ADC-44 and ADC-66 commercial dishwashing machines. Adherence to these instructions will ensure optimal performance and longevity of the part.

2. Safety Information

WARNING: Electrical shock hazard. Disconnect power before servicing. Installation and maintenance should only be performed by qualified service personnel.

- Always disconnect the main power supply to the dishwasher before attempting any installation, maintenance, or repair procedures.
- This element operates at high temperatures. Allow the unit to cool completely before handling to prevent burns.
- Ensure all electrical connections are secure and properly insulated to prevent short circuits or electrical hazards.
- Wear appropriate personal protective equipment (PPE), such as insulated gloves and safety glasses, during installation and maintenance.
- Refer to the main dishwasher's service manual for specific safety protocols and wiring diagrams.

3. Product Overview

The American Dish Service 291-9003 Element Rinse Tank is a critical component responsible for heating the rinse water within compatible commercial dishwashers. Its robust design ensures efficient heat transfer and durability in demanding commercial environments. This genuine OEM part guarantees compatibility and performance matching original specifications.



Figure 1: American Dish Service 291-9003 Element Rinse Tank. This image displays the U-shaped heating element with its rectangular mounting flange. Visible on the flange are the electrical terminals, secured with nuts and washers, which serve as the connection points for the power supply. The element is specifically designed to heat water within the rinse tanks of commercial dishwashers.

4. Installation

Installation of the 291-9003 Element Rinse Tank should only be performed by a certified technician or qualified service personnel.

1. **Preparation:** Ensure the dishwasher is completely powered off and disconnected from the electrical supply. Drain the rinse tank completely.
2. **Access:** Locate and access the existing heating element in the rinse tank. This may require removing access panels or draining other sections of the machine.
3. **Disconnect Old Element:** Carefully disconnect the electrical wiring from the terminals of the old heating element. Note the wiring configuration for correct re-connection.
4. **Remove Old Element:** Unfasten any mounting nuts or bolts securing the old element to the tank. Carefully remove the old element, being mindful of any gaskets or seals.
5. **Install New Element:** Insert the new 291-9003 Element Rinse Tank into the opening, ensuring proper alignment of the mounting flange. Use a new gasket or O-ring if required to ensure a watertight seal. Secure the element with the appropriate fasteners.
6. **Connect Wiring:** Reconnect the electrical wiring to the terminals of the new element, ensuring all connections are tight and secure. Refer to the dishwasher's wiring diagram if necessary.
7. **Test:** Once installed, refill the rinse tank and check for leaks. Restore power to the dishwasher and test the

heating function to ensure the element is operating correctly.

5. Operation

The 291-9003 Element Rinse Tank operates automatically as part of the dishwasher's rinse cycle. Once installed and connected, it will receive power from the dishwasher's control system to heat the water in the rinse tank to the specified temperature. There are no user-adjustable settings directly on the element itself. Its function is integral to the dishwasher's overall operation, ensuring hot water for effective sanitization during the final rinse.

6. Maintenance

Regular maintenance helps prolong the life of the heating element and ensures efficient operation of the dishwasher.

- Descaling:** Over time, mineral deposits (scale) can build up on the heating element, reducing its efficiency. Regular descaling of the dishwasher's rinse tank, as recommended by the dishwasher manufacturer, is crucial.
- Inspection:** Periodically inspect the heating element for signs of corrosion, pitting, or excessive scale buildup. Check the electrical terminals for any signs of overheating or loose connections.
- Cleaning:** If accessible and safe to do so (with power disconnected), gently clean any visible debris from around the element.
- Replacement:** If the element shows signs of significant wear, damage, or fails to heat properly, it should be replaced promptly by qualified personnel.

7. Troubleshooting

If the dishwasher is experiencing issues related to rinse water temperature, the heating element may be a contributing factor. Always consult a qualified technician for diagnosis and repair.

- No Hot Rinse Water:** This could indicate a failed heating element, a tripped circuit breaker, a faulty thermostat, or a problem with the dishwasher's control board.
- Slow Heating:** Excessive scale buildup on the element can reduce its heating efficiency, leading to longer heating times. This also increases energy consumption.
- Error Codes:** Refer to your dishwasher's main instruction manual for specific error codes related to heating element failures or temperature issues.

Note: Do not attempt to repair a faulty heating element. Replacement is the only recommended solution for a malfunctioning element.

8. Specifications

Attribute	Value
Model Number	291-9003
Brand	American Dish Service
Part Type	Element Rinse Tank
Compatibility	ADC-44 and ADC-66 Commercial Dishwashers

Attribute	Value
Package Dimensions	13.0 H x 7.0 L x 11.0 W (inches)
Item Weight	1.2 Pounds
Country of Origin	United States
UPC	046850015924
ASIN	B009M5027A

9. Warranty Information

As a genuine OEM replacement part, the American Dish Service 291-9003 Element Rinse Tank typically carries a manufacturer's warranty against defects in materials and workmanship. Specific warranty terms and duration may vary. Please retain your proof of purchase and refer to the warranty documentation provided by American Dish Service or the authorized seller at the time of purchase for detailed information. For warranty claims, contact the original point of purchase or American Dish Service directly.

10. Support

For technical assistance, parts inquiries, or service, please contact American Dish Service or an authorized service provider. When contacting support, please have your product model number (291-9003) and the serial number of your dishwasher readily available.

American Dish Service Contact Information:

(Please refer to the official American Dish Service website or your product documentation for the most current contact details.)