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› Seneca River Trading GE Dishwasher Pre-Programmed Service Machine Control WD21X24901 User Manual

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Model: WD21X24901 | Part Number: AP6974215

1. IMPORTANT SAFETY INFORMATION

Before attempting any installation or repair, please read and understand all safety precautions. Failure to follow these instructions may result in electric shock, fire, property damage, or personal injury.

- **Disconnect Power:** Always disconnect the dishwasher from its power source (unplug or turn off circuit breaker) before beginning any service or installation.
- **Professional Installation Recommended:** Installation of this part may require specialized tools and knowledge. If you are unsure about any step, consult a qualified appliance technician.
- **Wear Protective Gear:** Use appropriate personal protective equipment, such as gloves and safety glasses, during installation.
- **Handle with Care:** Electronic components are sensitive. Avoid static discharge and handle the control board by its edges.

2. PRODUCT OVERVIEW

This document provides instructions for the Seneca River Trading Pre-Programmed Service Machine Control, model WD21X24901, designed for GE dishwashers. This control board is a direct replacement part, pre-programmed for immediate use upon installation.

Compatible Models:

This control board is compatible with various GE dishwasher models, including but not limited to:

- GDT695SGJ0BB, GDT695SGJ0WW, GDT695SGJ2BB, GDT695SGJ2WW, GDT695SMJ0ES, GDT695SMJ2ES, GDT695SSJ0SS, GDT695SSJ2SS
- GDF650SSJ0SS, GDF650SSJ2SS
- GDT655SGJ0BB, GDT655SGJ0WW, GDT655SGJ2BB, GDT655SGJ2WW, GDT655SMJ0ES, GDT655SMJ2ES, GDT655SSJ0SS, GDT655SSJ2SS

- GDF570SGJ0WW, GDF570SGJ2BB, GDF570SGJ2CC, GDF570SGJ2WW, GDF570SSJ0SS, GDF570SSJ2SS
- GDF650SGJ0BB, GDF650SGJ0WW, GDF650SGJ2BB, GDF650SGJ2WW, GDF650SMJ0ES, GDF650SMJ2ES, GDF650SSJ0SS
- CDT706P2M4S1
- DDT595SGJ0BB, DDT595SGJ0WW, DDT595SMJ0ES, DDT595SMJ2ES, DDT595SSJ0SS, DDT595SSJ2SS

For specific model compatibility, please verify with your appliance's model number.

Replaces Part Numbers:

- AP6974215
- WD21X24799
- WD21X22949
- WD21X23712
- WD21X24118



Figure 1: Front view of the WD21X24901 control board, showing various electronic components and connectors.

3. INSTALLATION INSTRUCTIONS

Follow these steps carefully to replace your dishwasher's control board. Refer to your dishwasher's specific service manual for detailed access procedures.

1. **Disconnect Power:** Ensure the dishwasher is completely disconnected from the electrical supply. This is a critical safety step.
2. **Access the Control Board:** Depending on your dishwasher model, the control board is typically located behind the control panel on the top edge of the dishwasher door or in a lower access panel. You may need to remove screws or clips to access it.
3. **Document Connections:** Before disconnecting any wires, take clear photos or make a diagram of all wire connections to the existing control board. This will aid in correct reassembly.
4. **Disconnect Wires:** Carefully disconnect all wire harnesses and connectors from the old control board. Note that this part does not come with jumpers/switches, so ensure you retain any existing components if necessary.

5. **Remove Old Board:** Unmount the old control board from its housing.
6. **Install New Board:** Position the new WD21X24901 control board into the housing. Ensure it is securely mounted.
7. **Reconnect Wires:** Using your photos or diagrams, carefully reconnect all wire harnesses and connectors to the new control board. Ensure all connections are firm and correctly seated.
8. **Reassemble Dishwasher:** Reattach any panels or components removed to access the control board.
9. **Restore Power:** Once fully reassembled, restore power to the dishwasher.

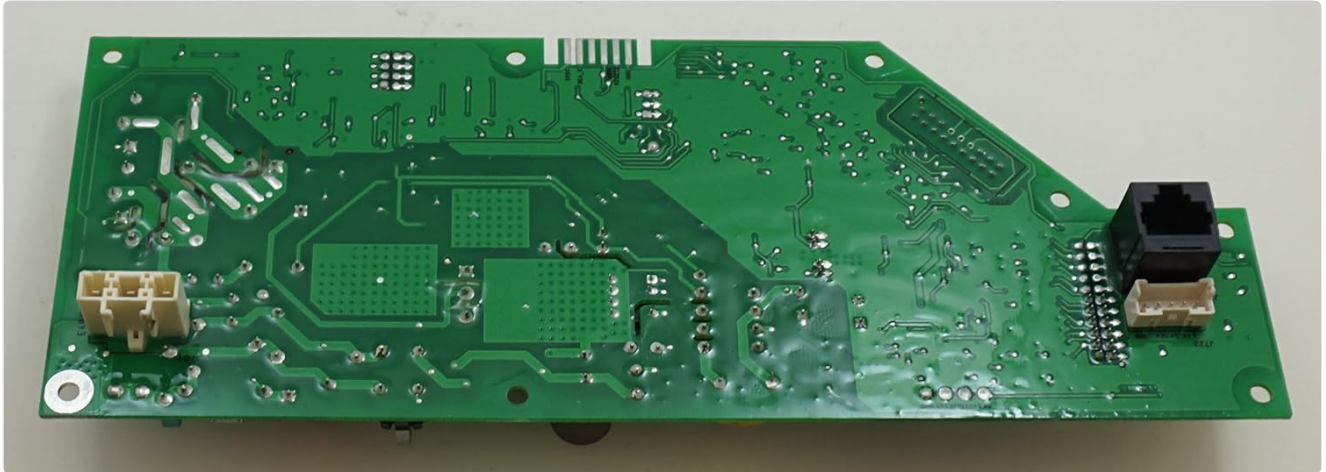


Figure 2: Back view of the WD21X24901 control board, illustrating the solder points and connector layout for reference during installation.

4. OPERATION VERIFICATION

After installation, perform the following steps to verify proper operation of the dishwasher:

- **Initial Power-Up:** Observe the dishwasher's display (if applicable) and listen for any unusual sounds. The dishwasher should power on normally.
- **Run a Test Cycle:** Select a short wash cycle and start the dishwasher. Monitor the cycle to ensure it progresses through all stages (filling, washing, draining, drying) without interruption or error codes.
- **Check for Leaks:** During the test cycle, visually inspect for any water leaks around the dishwasher.
- **Functionality Check:** Verify that all dishwasher functions, such as cycle selection, delay start, and other options, respond correctly.

If the dishwasher does not operate as expected, refer to the Troubleshooting section.

5. MAINTENANCE

The WD21X24901 control board is a sealed electronic component and does not require user maintenance. To ensure the longevity of your dishwasher and its components, consider the following general maintenance tips:

- **Regular Cleaning:** Clean the dishwasher interior, spray arms, and filters regularly to prevent buildup that can strain components.
- **Proper Loading:** Avoid overloading the dishwasher, which can impede water circulation and put stress on the pump and control system.
- **Inspect Door Gasket:** Periodically check the door gasket for cracks or debris that could lead to leaks.
- **Water Hardness:** If you have hard water, consider using a dishwasher cleaner or water softener to prevent

mineral deposits.

6. TROUBLESHOOTING

If your dishwasher exhibits issues after installing the new control board, consider these troubleshooting steps:

- **Dishwasher Not Starting:**
 - Ensure the dishwasher door is fully closed and latched.
 - Verify power supply to the dishwasher (check circuit breaker).
 - Recheck all wire connections to the control board for looseness or incorrect placement.
- **Error Codes Displayed:**
 - Consult your dishwasher's user manual for the meaning of specific error codes.
 - Some error codes may indicate issues with other components, not necessarily the control board.
- **Incomplete Cycles or Malfunctions:**
 - Ensure water supply is adequate and water inlet valve is open.
 - Check for blockages in spray arms or filters.
 - If issues persist, the problem may lie with another component (e.g., pump, heating element, door latch).

If troubleshooting does not resolve the issue, it is recommended to contact a qualified appliance technician.

7. SPECIFICATIONS

Feature	Specification
Brand	Seneca River Trading
Model Number	WD21X24901
Replaces Part Numbers	AP6974215, WD21X24799, WD21X22949, WD21X23712, WD21X24118
Voltage	250 Volts
Current Rating	10A
Item Weight	0.01 ounces
UPC	798506307029

8. WARRANTY AND SUPPORT

For information regarding warranty coverage or technical support for your Seneca River Trading GE Dishwasher Pre-Programmed Service Machine Control WD21X24901, please contact Seneca River Trading directly through their official channels or the retailer from whom the product was purchased.

When contacting support, please have your product model number (WD21X24901) and purchase details readily available.

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