

W117637

Instruction Manual

Control Unit Assembly, Machine and Motor Replacement

Model: W117637 | Brand: Generic

INTRODUCTION

This manual provides essential information for the installation, function, and maintenance of the Control Unit Assembly, Machine, and Motor replacement part for Amana Washers, specifically compatible with model NTW4519JW2. This component is designed to restore the proper operation of your washing machine's control system.

SAFETY INFORMATION

Always prioritize safety when working with electrical appliances. Failure to follow these safety guidelines may result in electric shock, fire, or personal injury.

- **Disconnect Power:** Before beginning any installation or maintenance, ensure the washing machine is completely disconnected from its power source. Unplug the appliance or turn off the circuit breaker.
- **Qualified Personnel:** Installation and repair should ideally be performed by a qualified technician. If you are not confident in your abilities, seek professional assistance.
- **Proper Tools:** Use appropriate insulated tools for electrical work.
- **Inspect Components:** Before installation, visually inspect the new control unit for any signs of damage. Do not install damaged parts.
- **Static Discharge:** Electronic components are sensitive to static electricity. Handle the control unit by its edges and consider using an anti-static wrist strap.

PRODUCT OVERVIEW

The control unit assembly is the central electronic component responsible for managing the washing machine's cycles, motor operations, and various functions. This replacement part includes the necessary circuitry and connections to integrate seamlessly with compatible Amana washer models.

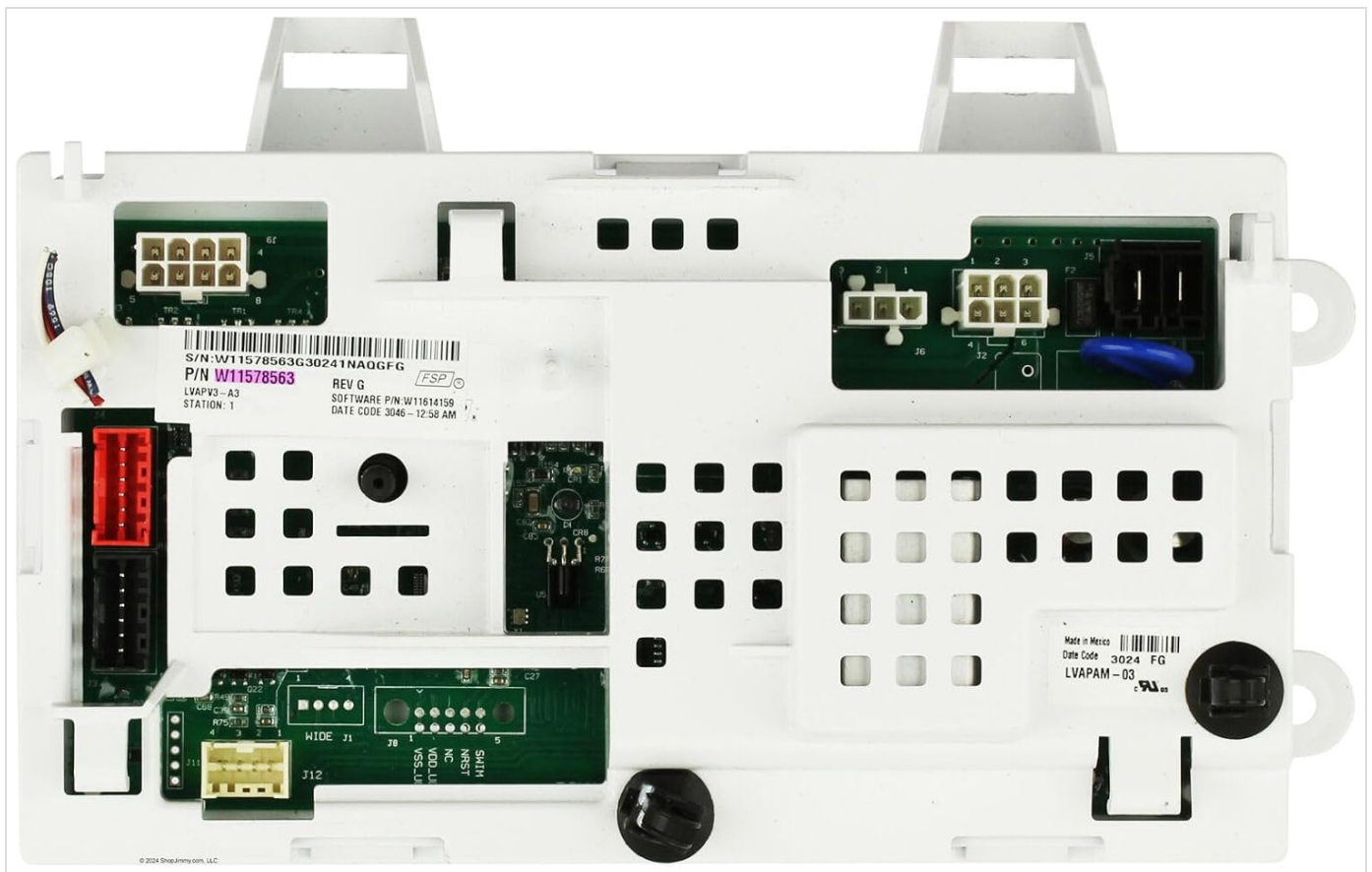


Figure 1: Top-down view of the Control Unit Assembly, showing various connectors and circuit board components. This unit is a direct replacement for the original part in compatible Amana washing machines.

The unit features multiple connection points (J1, J6, J11, J12, etc.) for various sensors, actuators, and power inputs within the washing machine. It also displays a Part Number (P/N W11578563) and a Serial Number (S/N:W11578563630241NAQGFG) for identification. The "Made in Mexico" and "LVAPAM-03" markings indicate manufacturing origin and specific model variant.

SETUP AND INSTALLATION

This section outlines the general steps for replacing the control unit assembly. Specific disassembly and reassembly procedures may vary slightly depending on your exact washing machine model. Always refer to your appliance's service manual for detailed instructions.

Required Tools:

- Screwdrivers (Phillips and Flathead)
- Nut drivers or socket set (if applicable)
- Needle-nose pliers
- Digital camera (for documenting connections)

Installation Steps:

1. Prepare the Appliance:

- Unplug the washing machine from the wall outlet.
- Turn off the water supply to the washer.
- Move the washer away from the wall to allow access.

2. Access the Control Unit:

- Depending on your model, you may need to remove the top panel, back panel, or control console. Refer to your washer's service manual for specific access points.
- Carefully disconnect any wiring harnesses or hoses that obstruct access. Take photos of all connections before disconnecting them.

3. Remove the Old Control Unit:

- Locate the existing control unit assembly.
- Disconnect all electrical connectors from the old unit. Note their positions or take photos.
- Unscrew or unclip any mounting hardware securing the old unit.
- Carefully remove the old control unit.

4. Install the New Control Unit:

- Position the new control unit assembly (Model W117637) in the same location as the old one.
- Secure it with the appropriate screws or clips.
- Reconnect all electrical connectors to their corresponding terminals on the new unit. Use your photos as a guide. Ensure all connections are firm and secure.

5. Reassemble and Test:

- Carefully reassemble any panels or components that were removed.
- Reconnect the washing machine to the power supply and turn on the water supply.
- Perform a test cycle to ensure the new control unit is functioning correctly and the washer operates as expected.

OPERATING PRINCIPLES

Once installed, the control unit assembly operates by receiving inputs from various sensors (e.g., water level, temperature, lid switch) and user selections (e.g., wash cycle, spin speed). It then processes this information and sends commands to the washing machine's motor, water valves, drain pump, and other components to execute the selected wash program. Its primary function is to ensure the correct sequence and timing of operations for efficient and effective laundry cycles.

MAINTENANCE

The control unit assembly is a sealed electronic component and generally requires no routine maintenance. However, to ensure its longevity and proper function:

- **Keep Dry:** Prevent water or excessive moisture from coming into contact with the control unit.
- **Clean Connections:** If accessible, periodically check electrical connections for corrosion or looseness. Ensure they are clean and secure.
- **Ventilation:** Ensure the area around the control unit within the appliance has adequate ventilation to prevent overheating.

TROUBLESHOOTING

If your washing machine exhibits issues after replacing the control unit, consider the following common troubleshooting steps:

Symptom	Possible Cause	Solution
Washer does not power on.	Loose power connection, faulty outlet, tripped breaker.	Check power cord, test outlet, reset breaker. Verify all internal power connections to the control unit are secure.
Specific functions not working (e.g., no spin, no fill).	Incorrect wiring, faulty sensor/actuator, software issue.	Double-check all electrical connections to the control unit. Inspect associated sensors or actuators for damage.
Error codes displayed.	Indicates a specific fault detected by the control unit.	Consult your washing machine's user manual or service manual for the meaning of the error code and recommended troubleshooting steps.
Intermittent operation.	Loose connections, power fluctuations.	Ensure all connectors are firmly seated. Check household electrical supply.

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

SPECIFICATIONS

Feature	Detail
Product Type	Control Unit Assembly, Machine and Motor
Brand	Generic
Model Number	W117637
Compatible Washer Model	Amana NTW4519JW2
Part Number (P/N)	W11578563 (as seen on unit)
Software P/N	W11614159 (as seen on unit)
Certification	UL Listed (as indicated by UL mark on unit)

WARRANTY AND SUPPORT

This replacement part is typically covered by a limited warranty from the seller or manufacturer. Please refer to your purchase documentation for specific warranty terms and conditions. For technical support or further assistance, contact the seller or the manufacturer of the replacement part. When contacting support, please have your product model number (W117637) and the washer model (NTW4519JW2) readily available.

For general inquiries or to find more information about Generic brand products, you may visit a general appliance parts support website or contact your retailer.

