

Service and Disassembly Procedures



WARNING

To avoid risk of electrical shock, personal injury, or death, disconnect electrical power source to unit and discharge capacitor through a 10,000 ohm resistor before attempting to service, unless test procedures require power to be connected. Ensure all ground wires are connected before certifying unit as repaired and/or operational.

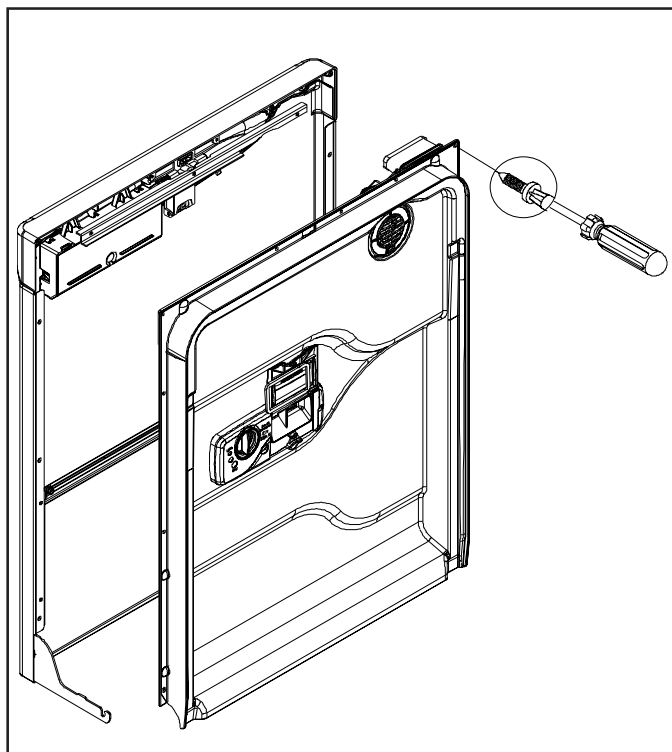
Inner Door Panel

Removal of the Inner Door Panel will allow access to the Microprocessor Board, Door Switches, Detergent / Rinse Aid Dispenser, and Vent Assembly.

Removal

1. **Disconnect power to the machine.**
2. Open the Dishwasher door.
3. Remove the 11 Torx™ screws along the sides and top of the Inner Door Panel.
4. Separate the Inner Door Panel from the Outer Door.
5. Disconnect wires from the Vent and Dispenser Wax Motors before pulling the Inner Door Panel away from the Dishwasher.

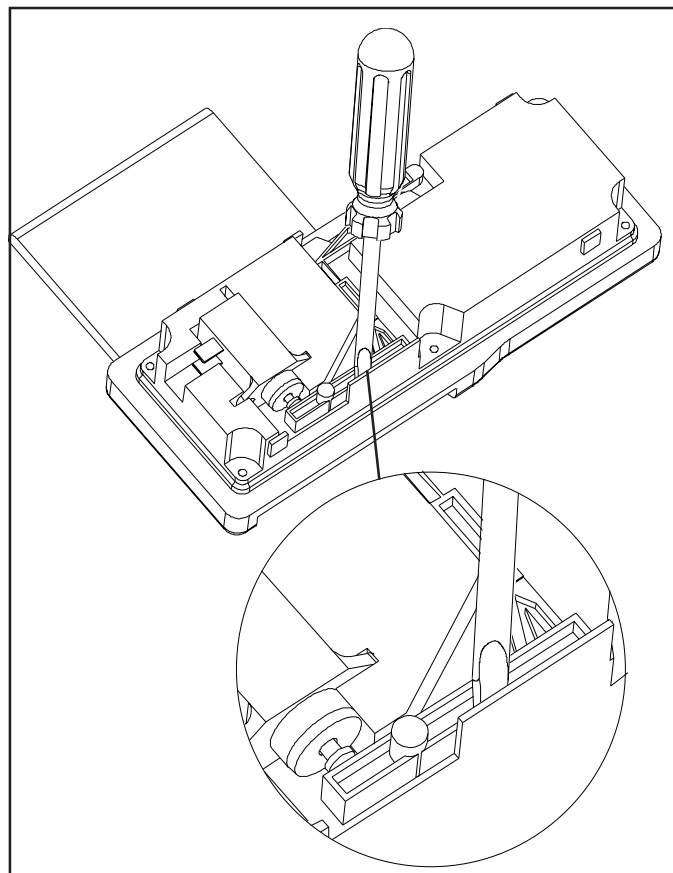
IMPORTANT: When replacing Inner Door Panel, remove Inner Door reinforcement, Bottom Seal and install on new panel.



Detergent / Rinse Dispenser Mechanism and Reservoir

Checking Operation

1. **Disconnect power to the machine.**
2. Remove the Inner Door Panel. (See paragraph Inner Door Panel removal).
3. Snap the Detergent Door shut.
4. Gently lift the lever of the dispenser mechanism until a click is heard. The Detergent Door releases. Release the lever.
5. Lift the lever again. Now the actuator will lift the Rinse Aid Plunger.



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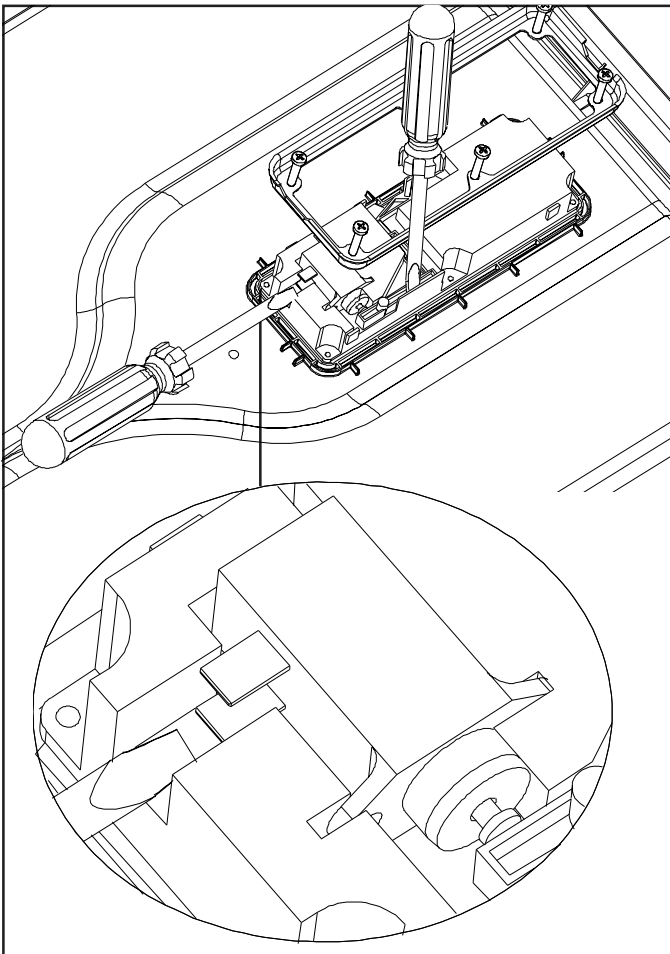
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Wax Motor Detergent / Rinse Dispenser

Removal

1. **Disconnect power to the machine.**
2. Remove the Inner Door Panel. (See paragraph Inner Door Panel removal).
3. Remove the 6 mounting screws securing the Detergent Dispenser mounting bracket.
4. To remove the Wax Motor, pry out of retainer.
NOTE: It is not necessary to remove Detergent Dispenser before removing Wax Motor.

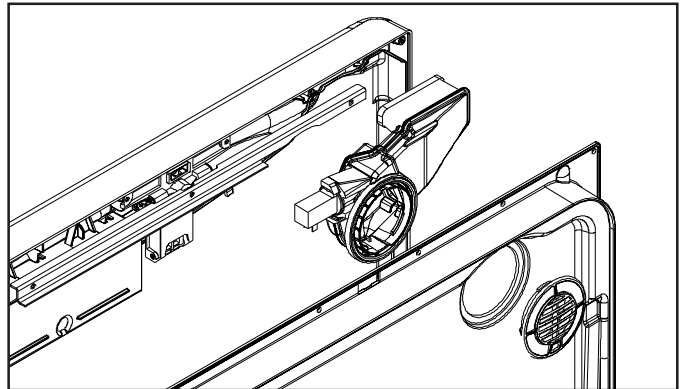


Vent

The Vent is located on the Inner Door Panel to allow moisture to be vented outside of the Dishwasher during the dry cycle.

Removal

1. **Disconnect power to the machine.**
2. Remove the Inner Door Panel. (See paragraph Inner Door Panel removal).
3. Rotate Vent Cover counter clockwise 1/4 turn and lift off.



Wire Cover

The Wire Cover retains the Wire Harness to the bottom of the Tub. It is located on the bottom side of the Tub.

Removal

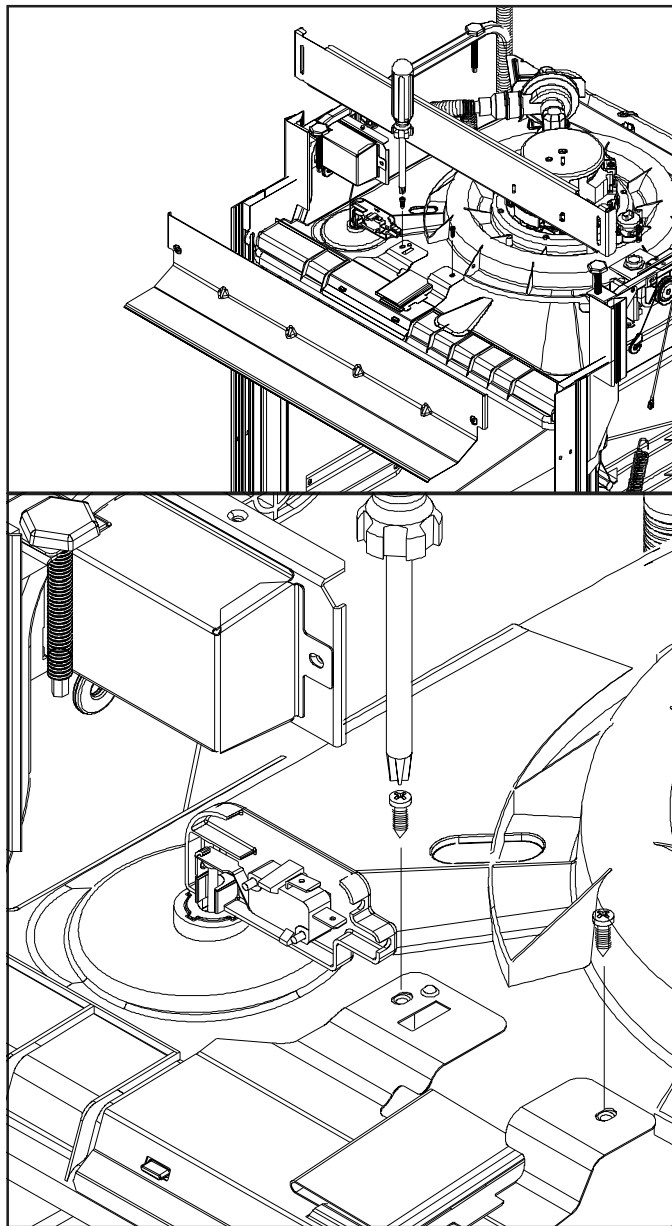
1. **Disconnect power to the machine.**
2. Remove Front Support and Toe Panel. (See paragraph Front Support and Toe Panel removal).
3. Remove 2 screws securing Wire Cover to bottom of Tub.
4. Feed Wire Harness out of bracket.

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Door Latch & Switch Holder Assembly

Two Door Switches are used in the Latch Assembly. Both switches are normally CLOSED and will open only when engaged by the Door Latch mechanism. Each switch is in series with respect to L1 and neutral line operations. Failure of either or both switches will result in rendering the Dishwasher inoperative.

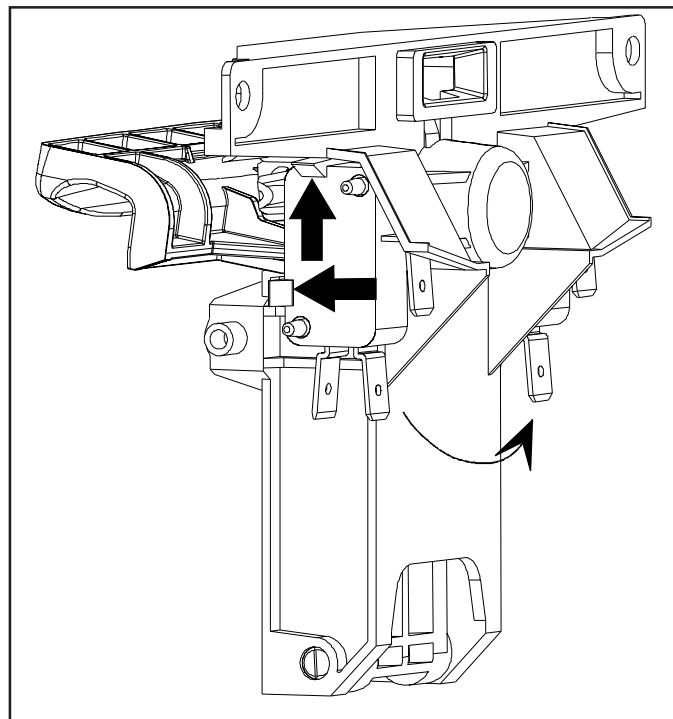
NOTE: Door Switches require no field adjustment.

Removal

1. Disconnect power to the machine.
2. Remove the Inner Door Panel. (See paragraph Inner Door Panel removal).
3. Lift Door Latch Assembly out.

Switch Removal

1. Disconnect power to the machine.
2. Remove the Inner Door Panel. (See paragraph Inner Door Panel removal).
3. Remove Door Latch and Switch Holder Assembly.
4. Depress locking tabs and lift switch from holder.



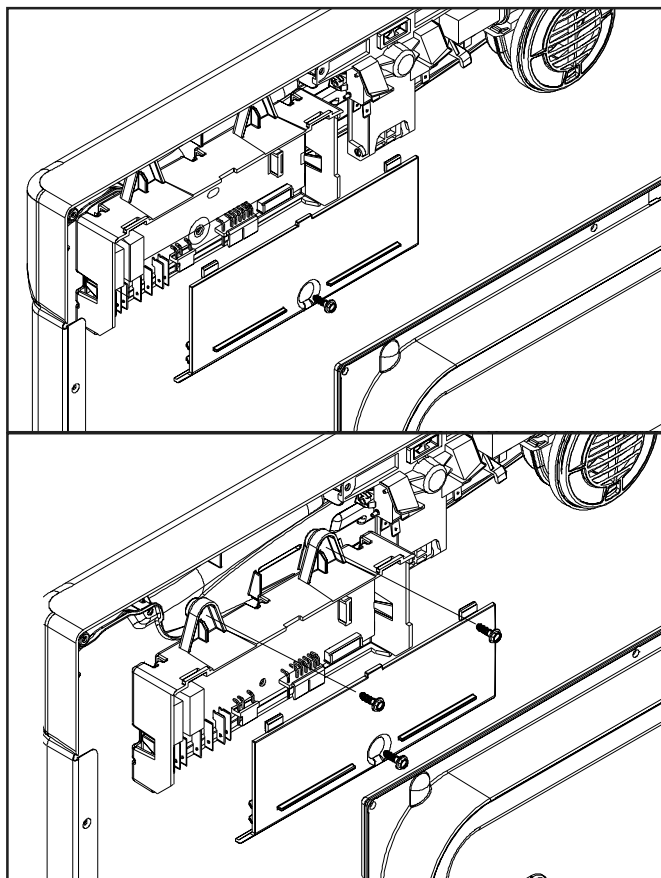
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PC Board

Removal

1. **Disconnect power to the machine.**
2. Remove the Inner Door Panel. (See paragraph Inner Door Panel removal).
3. To access PC Board, remove 1/4" screw on PC Board Housing Cover.
4. To remove PC Board, loosen (2) 1/4" screws securing PC Board Base to Control Panel.
5. Remove pin and ribbon connectors from PC Board.
6. Depress tabs on PC Board Housing to remove PC Board.



Technical Sheet

The Dishwasher Technical Sheet is located behind the Toe Panel. The Schematic Diagram is unique to each model and contains the following:

- Timing Sequence Chart
- Load Readings
- Component Specifications
- Manual Function Test
- Field Service Test
- Electrical Schematic

Control Panel

The Membrane/Facia on the Control Console is not replaceable.

Removal

1. **Disconnect power to the machine.**
2. Remove the Inner Door Panel. (See paragraph Inner Door Panel removal).
3. Remove PC Board Housing Cover. (See paragraph PC Board removal).
4. Disconnect Membrane Switch from PC Board.
5. Remove PC Board Base.
6. Lift out Latch Assembly.
7. Remove 4 screws securing Control Panel to Outer Door.

NOTE: Facia is susceptible to damage during reinstallation.

DOOR LATCH STRIKE

The Door Latch serves as a mechanical actuator for Door Switch operation and provides door tension for proper door seal.

Service and Disassembly Procedures

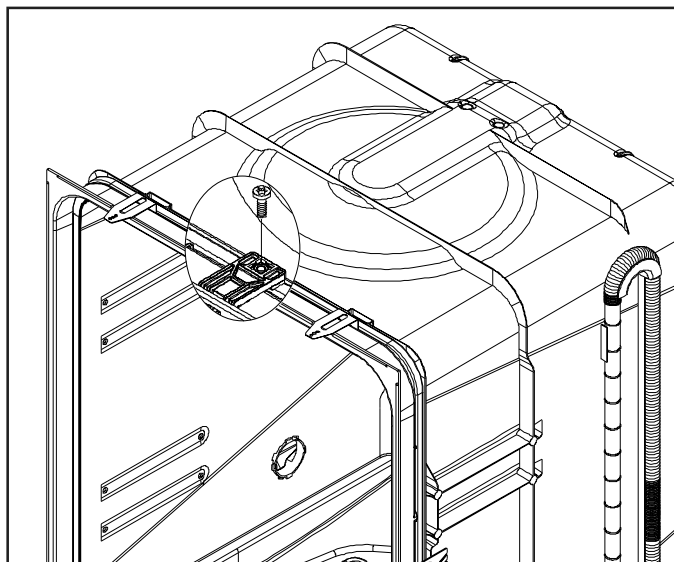


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Removal

1. **Disconnect power to the machine.**
2. Remove Torx™ screw securing Strike to Tub.

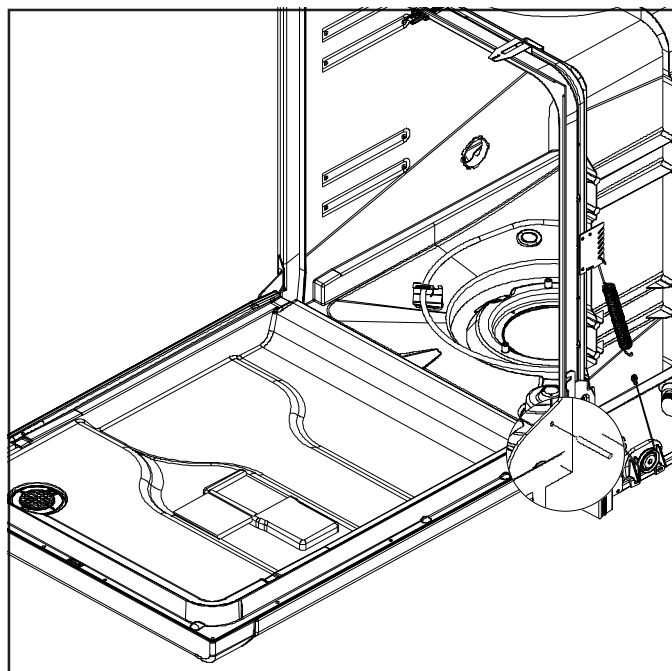


5. Check for proper Door Latch adjustment to ensure proper door sealing.

Outer Door

Removal

1. **Disconnect power to the machine.**
2. Remove the Inner Door Panel. (See paragraph Inner Door Panel removal).
3. Remove 2 screws securing PC Board Base to Inner Door Panel.
4. Lift off Latch Assembly.
5. Lay Outer Door to it's fully open position.
6. Prop door open, by inserting an object into the 1/8" dia. hole in hinge bracket.



DOOR GASKET

The Door Gasket provides a seal between the Door and the Tub.

Removal

1. Open Door.
2. From either corner, pull gasket up and out of tub recess.

Replacement

1. To ease installation, wet gasket with water.
2. Starting in the lower right corner, Gently work gasket into the recess of Tub up the right side.
3. With other end, place gasket flush with the Tub in lower left corner.
4. Gently work gasket in to the recess of the Tub, up the left side, and across the top.

Service and Disassembly Procedures



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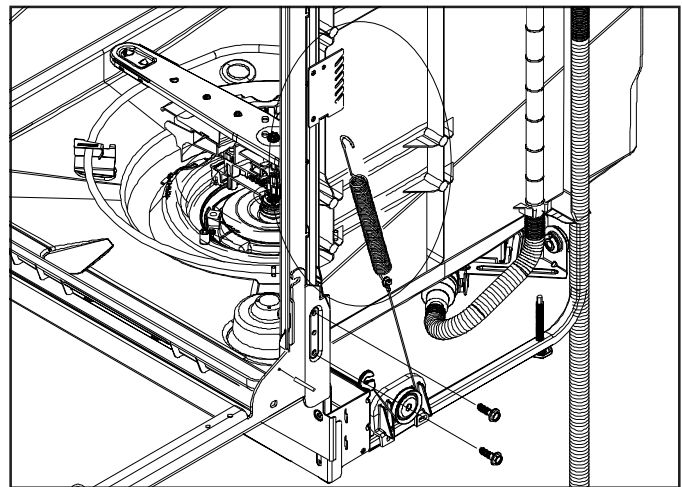
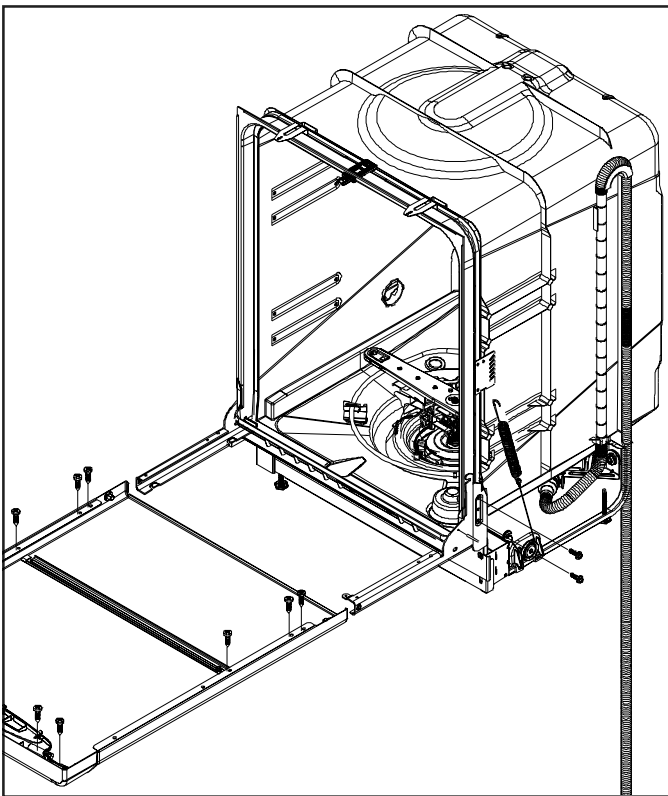
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7. Remove 4 screws securing Control Panel to Outer Door.
8. Remove 4 screws securing Outer Door to Door Hinges. (2 each side).
9. Slide Outer Door off of Door Hinges.



WARNING

Do not remove Door Prop until tension is relieved from door spring.



4. Disconnect Cable Link from Hinge. (See warning above).
5. Lift Hinge out of Hinge Support.
6. Remove 2 attachment screws if replacing hinge support.

Door Hinge and Support

Removal

1. Disconnect power to the machine.
2. Remove the Outer Door Panel. (See paragraph Outer Door Panel removal).
3. Remove Dishwasher from cabinets.

Door Spring

The Door Springs provide a counter balance to the weight of the door.

The Door Spring position is preset by model at the factory. If possible note the position of the spring. This may be determined by wear marks. Door Spring adjustment Brackets are located on the lower right and left side of the Dishwasher. Spring tension is achieved by positioning the spring in the slots provided. The higher position increases spring tension.

NOTE: Always point spring hooks toward the Dishwasher.

Service and Disassembly Procedures



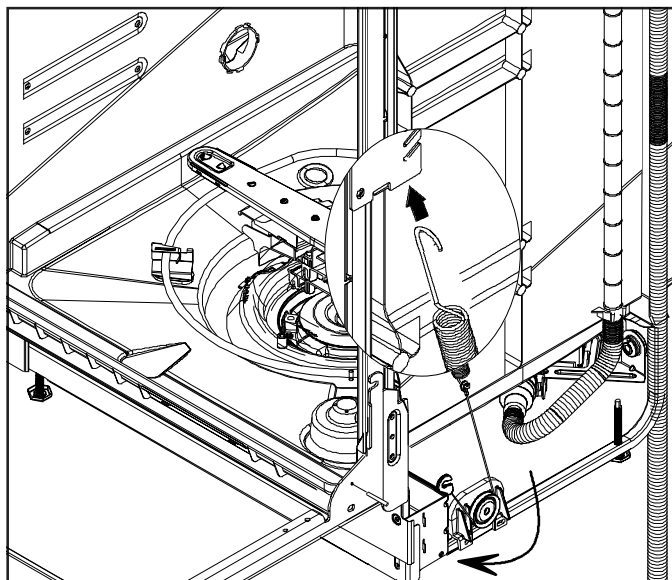
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Door Spring and Component Replacement

NOTE: Always point spring hooks toward the Dishwasher.

1. **Disconnect power to the machine.**
2. Remove Dishwasher from cabinets.
3. Attach Door Cable Link to Door Hinge.
4. Attach Cable to Cable Link.
5. Route Cable under Cable Roller.



6. Attach Cable to short hook of Spring.
7. Place large hook end of Spring into Spring Adjustment Bracket in proper location.

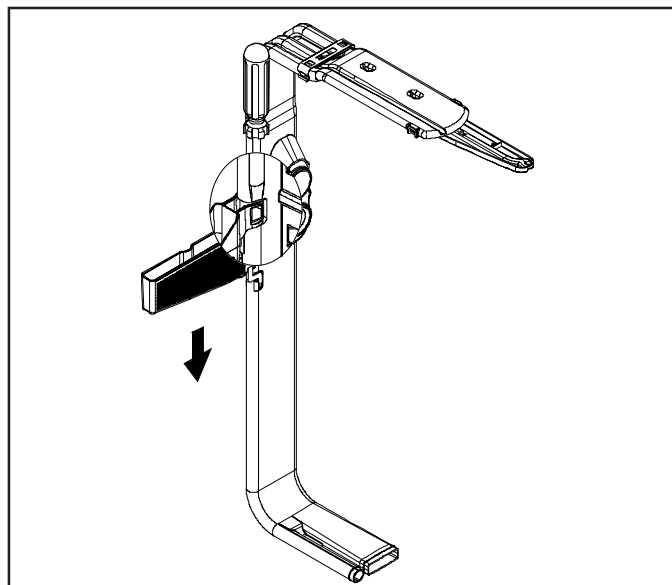
NOTE: To replace Cable Bracket, remove 2 Torx™ screws securing bracket to frame. See procedure above for reassembly of Spring and Cable.

Over Pressure Filter

The purpose of the Over Pressure Filter is to filter sediment missed by the lower filter rather than circulating it back through the wash.

Removal

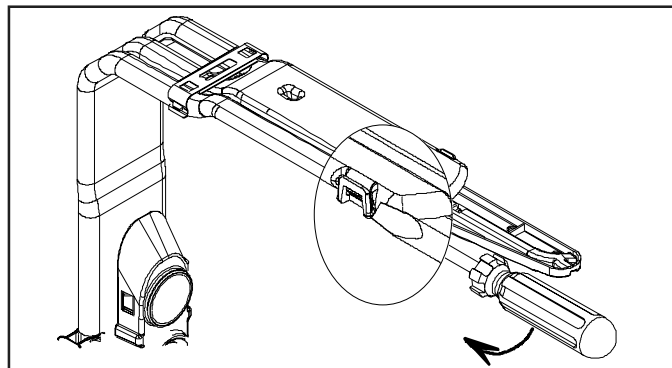
1. Spread locking tabs.
2. Rotate filter down and remove from manifold.



Top Wash Arm

Removal

1. Spread locking tabs and remove Wash Arm Retainer.



Service and Disassembly Procedures



WARNING

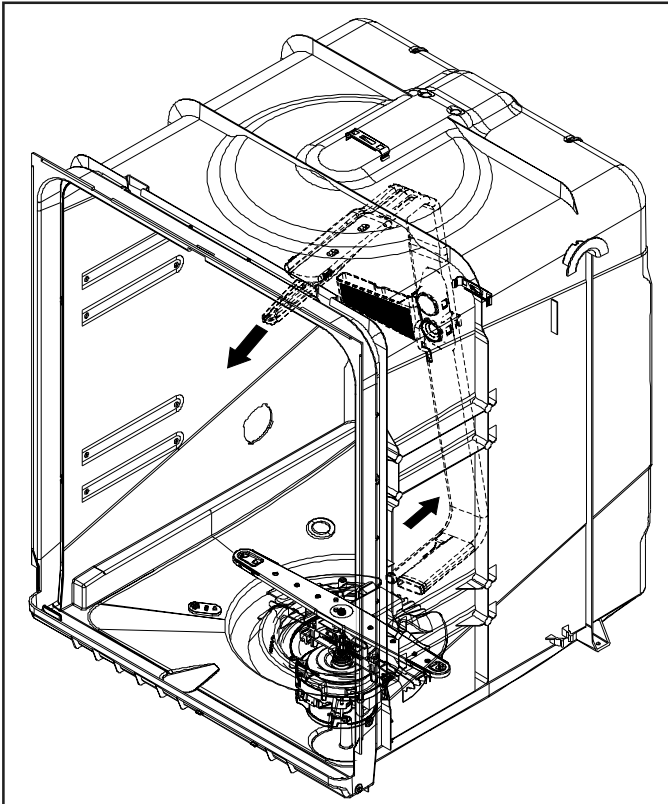
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Manifold

Water is supplied to the Top and Center Wash Arms through this tube via the Pump Assembly. The Manifold attaches to the Pump Assembly and runs vertically up the rear and along the top of the Dishwasher Tub. The Manifold is attached to the Tub with a clip.

Removal

1. **Disconnect power to the machine.**
2. Remove Racks, Stops, and Rack Assemblies.
3. Spread Manifold Clips located on the back and top of Tub.
4. Tip top of Manifold towards door opening slightly. Disengage the snap located on the bottom of the Manifold, locking the Manifold to the Discharge Housing .
5. Slide Manifold back and out of the Pump Assembly.

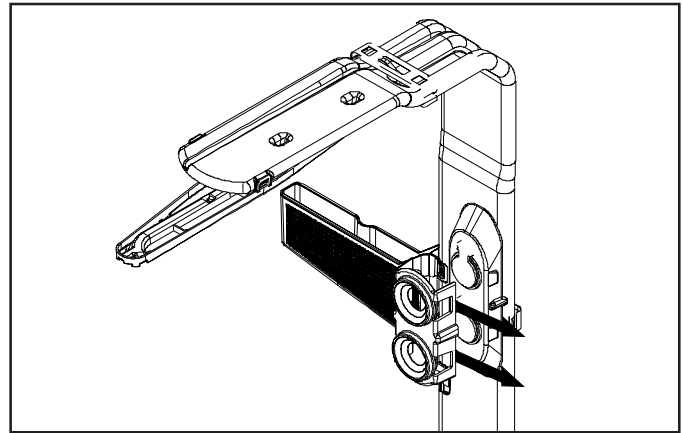


Docking Station

The purpose of the Docking Station is to seal the water flow to the upper rack Wash Arm.

Removal

1. Slide Upper Rack forward to gain access to Docking Station.
2. Spread sides of Docking Station and remove from Manifold.



Lower Wash Arm

Water is supplied to the Lower Wash Arm via the Pump Assembly.

Removal

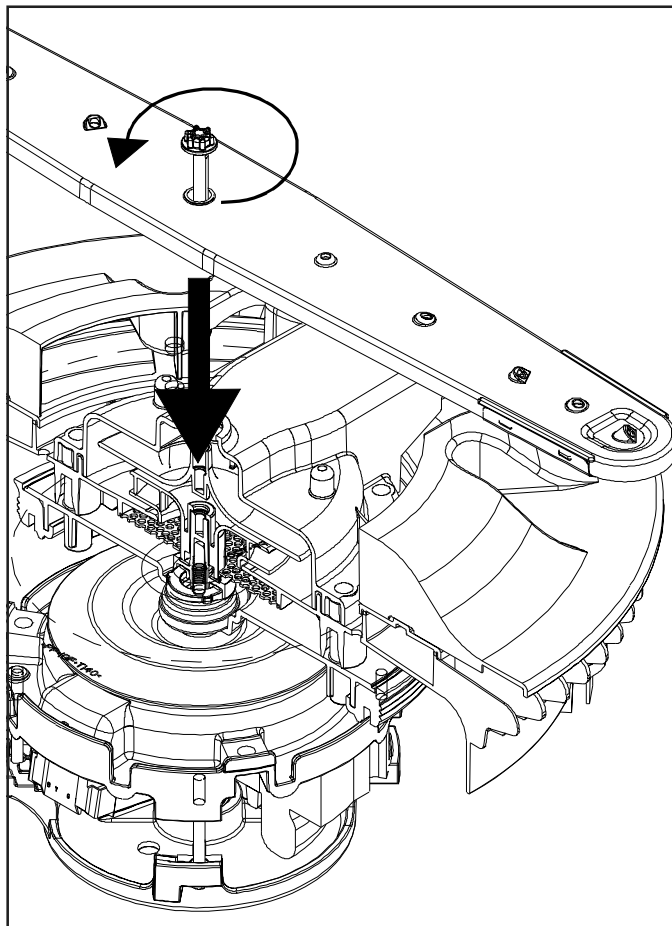
1. **Disconnect power to the machine.**
2. Remove lower Rack Assembly.
3. Loosen Wash Arm Hub and Pivot.
4. Lift Wash Arm out of Dishwasher.

Service and Disassembly Procedures



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Float

The Float Assembly controls the amount of water fill.

The Float Switch is wired in series with the Water Valve. When the Float Switch OPENS, the electrical circuit to the Water Valve is opened, causing the Water Valve to shut off.

A normal fill is when water makes contact with heating element in bottom of dishwasher.

To Check Float Switch

1. Disconnect power to the machine.

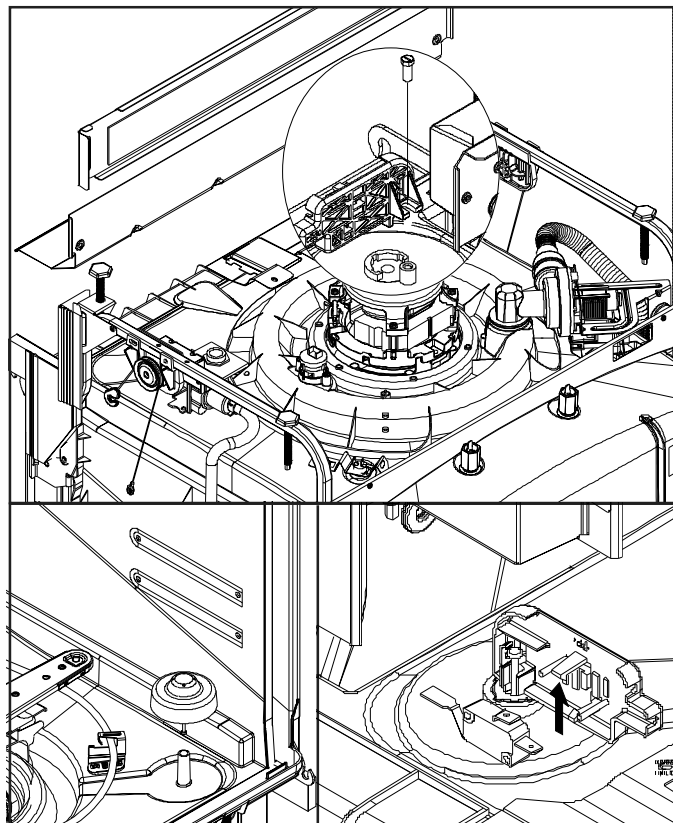
2. Perform continuity check of switch across terminals.

Closed- Actuator of switch depressed.

Open- Actuator of switch released.

Removal

1. Disconnect power to the machine.
2. Lift Float straight up from Float Guide.
3. Remove Front Support and Toe Panel. (See paragraph Front Support and Toe Panel removal).
4. Remove electrical connectors on switch.
5. Float Switch mounting screw is located behind Float Switch mounting plate. Loosen 1/4" screw several turns to remove entire assembly.
6. Spread locking tabs on Float Switch mounting plate to remove switch.



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Heating Element

The purpose of the Heating Element is to provide heat during the dry cycle and increase water temperature during portions of the wash cycle when certain options are selected.

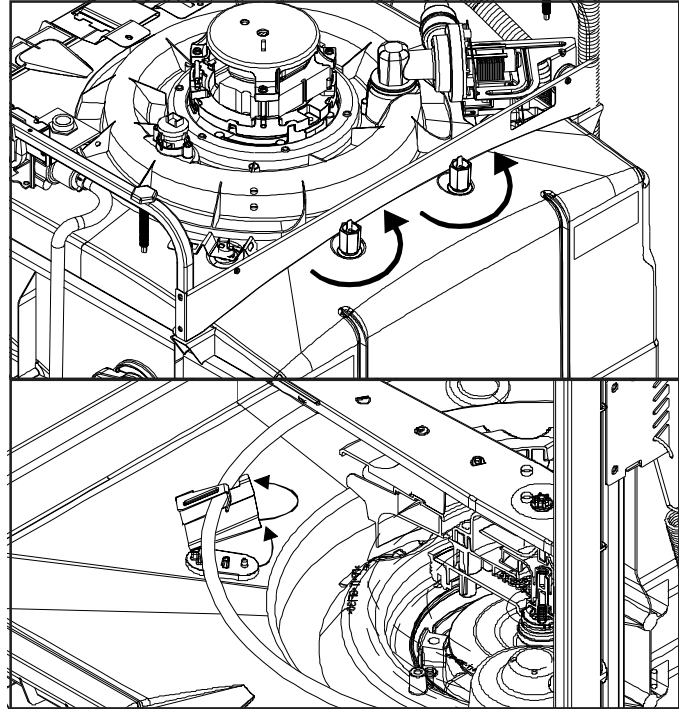
The element is dual wattage. During wash cycles, it is rated at 830 watts. During the dry portion of the cycle, it is rated at 650 watts. Increased wattage is possible because of water flowing across the element sheath.

To Check Heating Element

1. **Disconnect power to the machine.**
2. Remove Front Support and Toe Panel. (See paragraph Front Support and Toe Panel removal).
3. Locate element terminals, remove wires, perform continuity check across terminals.
4. The resistance of the element should be approximately 22 ohms. If OPEN, replace element.
5. Perform continuity check from each terminal to the element sheath. NO continuity should be present. If continuity is present, replace the element.

Removal

1. **Disconnect power to the machine.**
2. Remove Front Support and Toe Panel. (See paragraph Front Support and Toe Panel removal).
3. Locate element terminals and remove wires.
4. Remove mounting nuts securing Heating Element to Tub.
5. Release Heating Element by tipping Heater Support Brackets towards the Tub front corners and rotating until bracket unlocks.
6. Lift element out of Tub.



NOTE: Before reinstalling Heating Element, examine condition of O-ring seals that are located between element leads and tub basin. Replace if needed. Failure of seal will result in a water leak and possible floor damage.

Wattage Checks

To verify wattage of the element, take an amperage reading at the blue wire of the Heating Element. Multiply the amperage reading by voltage at the Dishwasher (Amps x Volts = Watts).

Normal element amperage during the dry portion of the cycle is 5.0 to 5.5 amps. When used during a wash cycle, normal amperage is 7.0 to 7.5 amps.

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Thermostats

Two types of thermostats are used in the Dishwasher. A Thermistor and a Limit Thermostat.

The Thermistor is used to sense water temperature when certain cycles or options are selected (Refer to Cycles & Options section). The Thermistor is part of the sensor mounted in the Tub.

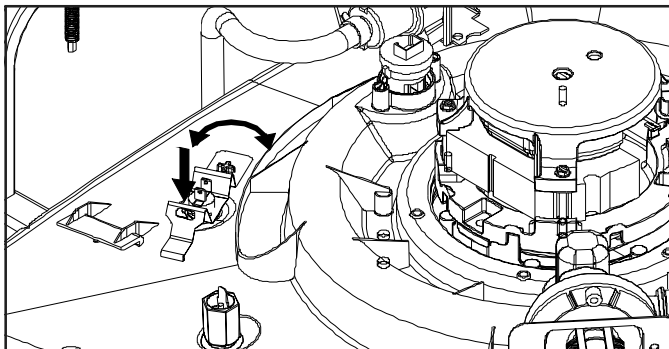
The other thermostat is a Limit Thermostat and is used as a protective device to sense overheating of the Heating Element. It is located behind the Front Support and Toe Panel. The limit is mounted to the tub bottom. This thermostat has 1/4" terminals and has a normally CLOSED position.

NOTE: Refer to section labeled Technical Data for specifications on thermostat.

Removal

1. **Disconnect power to the machine.**
2. Remove Front Support and Toe Panel. (See paragraph Front Support and Toe Panel removal).
3. Press down on spring clip to release from Tub and rotate till clip unlocks.
4. Remove wires from thermostat.

NOTE: When reinstalling, proper location and wiring of thermostat(s) is critical.



Water Valve

The valve is located behind the Support and Toe Panel, mounted to the left side of the Tub Support. Inlet water supply to the valve is directly below the valve.

NOTE: Turn off water supply to the Dishwasher before servicing this component.

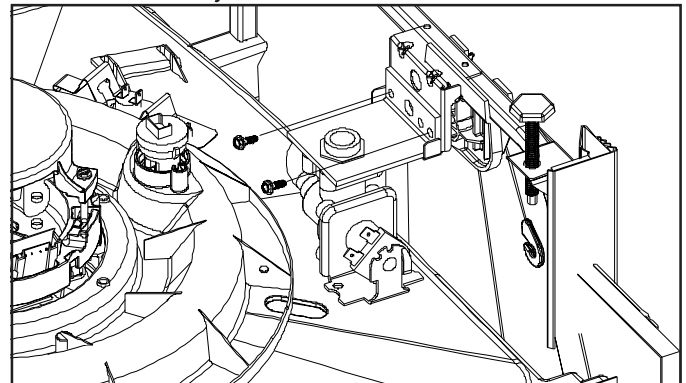
The valve is designed to operate at water pressures of 15 - 120 psi.

NOTE: Low water pressure will affect the ability of the Water Valve to properly fill Tub in the required amount of time.

Incoming water temperature should be a minimum of 120 degrees F. However, a higher water temperature will enhance washing and drying results.

Removal

1. **Disconnect power to the machine.**
2. Turn off water supply to the Dishwasher.
3. Remove Support and Toe Panels. (See paragraph Front Support and Toe Panel removal).
4. Remove wires from Valve Solenoid.
5. Remove 2 1/4" screws securing Water Valve to Water Valve Bracket.
6. Disconnect injector hose at valve outlet.



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Checking Valve Operation

No Fill

1. **Disconnect power to the machine.**
2. Remove Support and Toe Panel. (See paragraph Front Support and Toe Panel removal).
3. Remove wires from Valve Solenoid.
4. Perform continuity check across terminals of Solenoid. If NO continuity is present, replace Water Valve.

Alternate Test: Use Motor Test Cord hooked directly to the Valve Solenoid. Turn water supply on and plug in test cord. If NO water is present, replace Water Valve.

Overfill

If Water Valve allows water to flow without power to Valve Solenoid, replace the Water Valve.

NOTE: The Water Valve is a non-repairable component. The only servicing required is to clean the Inlet Screen if needed.

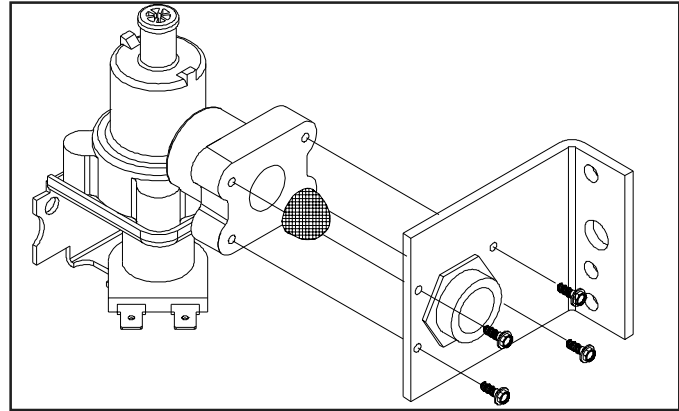
Inlet Screen

Sediment on the Inlet Screen can hinder water flow through the Water Valve.

Cleaning

1. **Disconnect power to the machine.**
2. Remove Water Valve from the Dishwasher (See Water Valve Removal).
3. Remove 4 screws securing valve body to Water Inlet Mounting Bracket.
4. Clean screen.

NOTE: Make sure to reattach the ground wire to the mounting bracket.

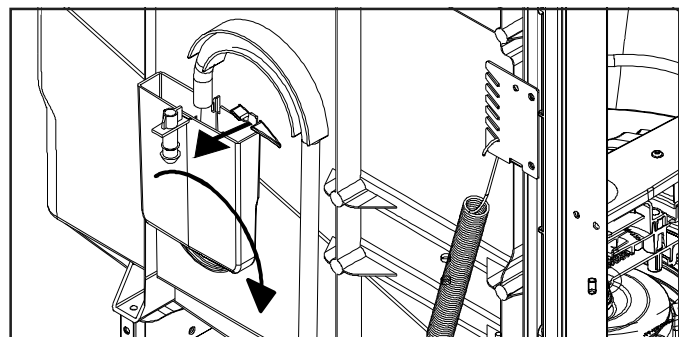


Air Water Inlet

The Air Water Inlet is located on the left side of the Tub, and mounted to the exterior of Tub. Removal of the Air Water Inlet requires the removal of the Dishwasher from under the counter.

Removal

1. **Disconnect power to the machine.**
2. Remove the Air Water Inlet Cover located on the left inside wall of Tub. Pull cover straight out to remove.
3. Carefully pull back insulation from the left side of the Tub.
4. Remove rubber hose from channel in Tub, or slip off of fitting on inlet.
5. Grasp upper portion of the Air/Water Inlet. Pull and rotate the Air/Water Inlet clockwise to release it from the Tub.



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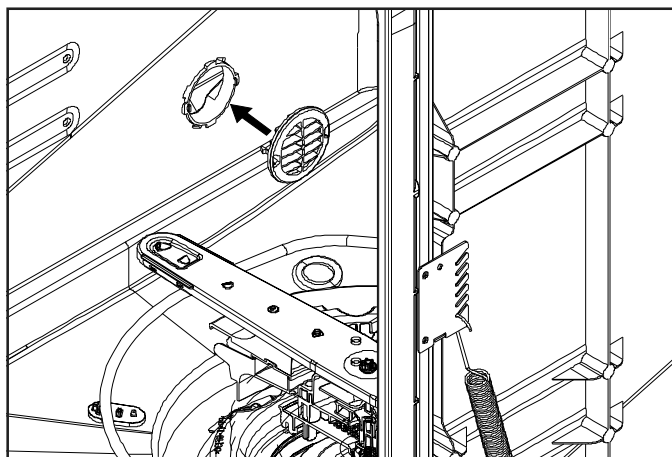


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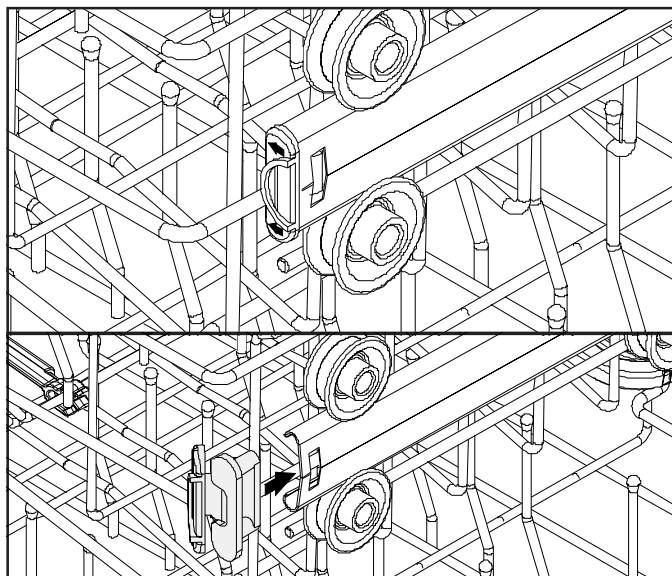
Replacement

1. Examine the Air Water Inlet Seal for damage.
2. Align Air Water Inlet tabs with notches in Tub, and rotate counterclockwise into position.
3. Replace Air Water Inlet Cover inside Tub.



Upper Rack Removal

To remove Upper Rack, remove Rack Stops. Unlatch stop by moving as shown in direction of arrow toward center of Tub.



Tub Wheels

To remove, unlatch rear Rack Stop. Slide track out of Dishwasher. Remove tub wheel shaft with Torx™ driver.

NOTE: Tub wheel shaft contains a small steel washer.

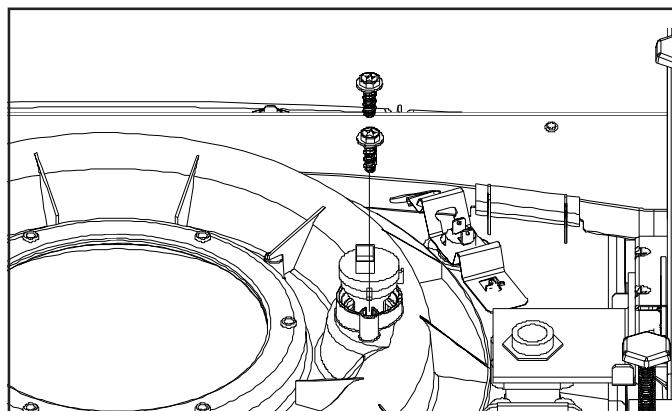
Turbidity Sensor

The Turbidity Sensor is located on the bottom and to the left of the Pump Module Assembly. The sensor measures soil level in the water. Turbidity is determined by a beam of infrared light directed from one probe and read by the other. This information is interpreted as water soil level.

Removal

1. Disconnect power to the machine.
2. Remove Front Support and Toe panel. (See paragraph Front Support and Toe Panel removal).
3. Remove the 2 Torx™ screws securing the sensor to the tub bottom.
4. Pull sensor straight out.

NOTE: When installing sensor, examine the "O" ring seal and replace if necessary. The sensor has alignment ribs to aid in installation.



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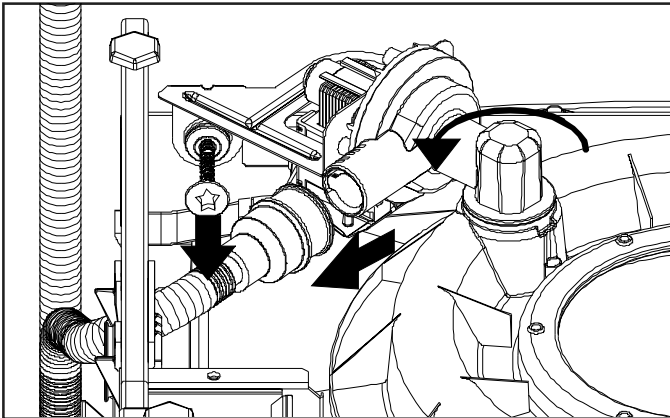
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Drain Pump

The Drain Pump will drain water from the Dishwasher in various cycles. If a failure is suspected, the entire Pump Assembly needs to be replaced.

Removal

1. Disconnect power to the machine.
2. Remove Support and Toe Panel. (See paragraph Front Support and Toe Panel removal).
3. Disconnect lead wire from Pump Assembly.
4. Disconnect drain hose from Pump Assembly.
5. Remove Torx™ screw through bushing in Pump Mounting Plate.
6. Rotate Pump Assembly to unlock from Tub.



3. Remove Wash Manifold
4. Loosen Wash Arm Hub and Pivot.
5. Remove Spray Arm.
6. Remove 3 Torx™ screws securing Filter Guard.
7. Entire Wash Motor Assembly can be lifted from Tub for further disassembly.
8. Remove and replace Pump Gasket if necessary.
9. Disconnect wiring harness from Wash Motor Assembly.
10. Remove 6 Torx™ screws securing Discharge Housing.
11. Remove Torx™ screw securing Wash Impeller . See bottom side of motor for access hole to lock motor rotation while removing Torx™ screw. Insert screw driver tip into access hole while removing screw.

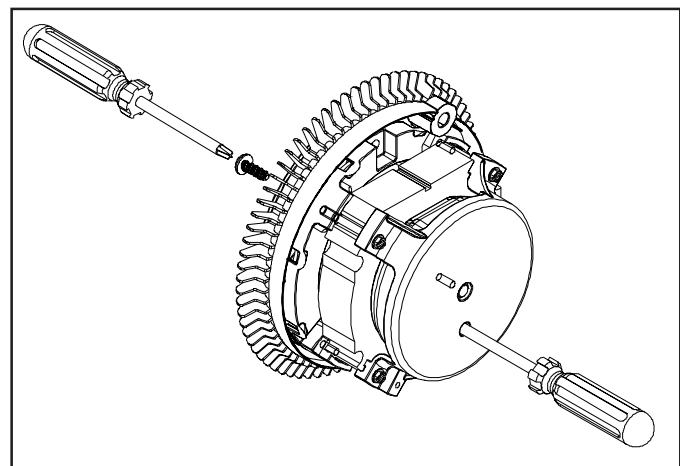
Wash Motor Assembly

The Wash Motor Assembly is designed to provide recirculating, filter, wash and particle chopping functions for the dishwasher cycles.

Removal

1. Disconnect power to the machine.

2. Remove racks.
- 5-34



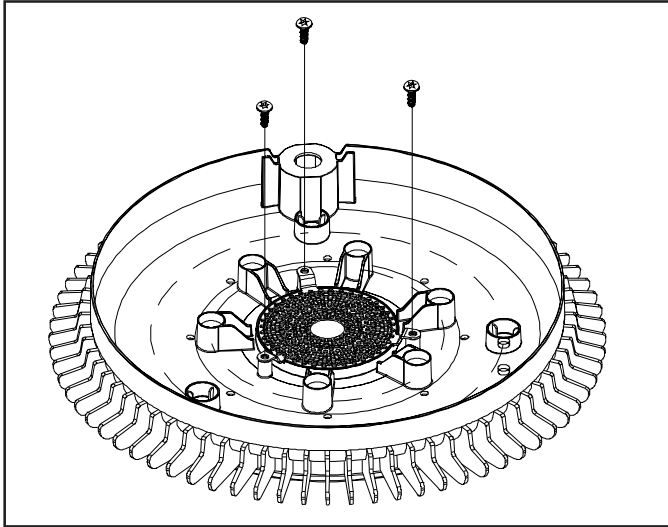
12. Lift off Filter/Flowplate Assembly to access Chopper Plate.
13. Remove 3 Torx™ screws to remove Chopper Plate.
14. Lift off Chopper

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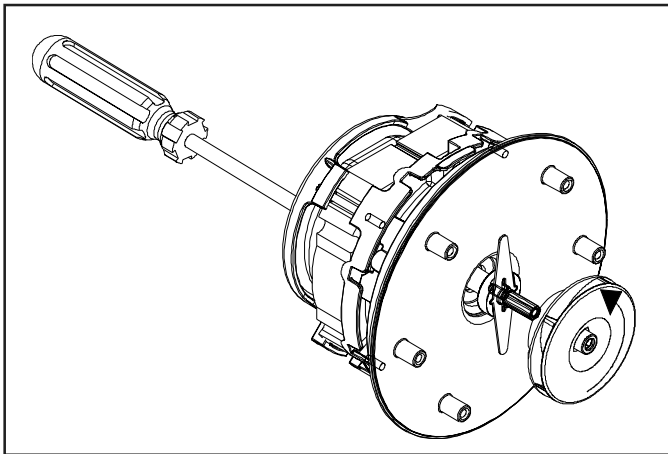


WARNING

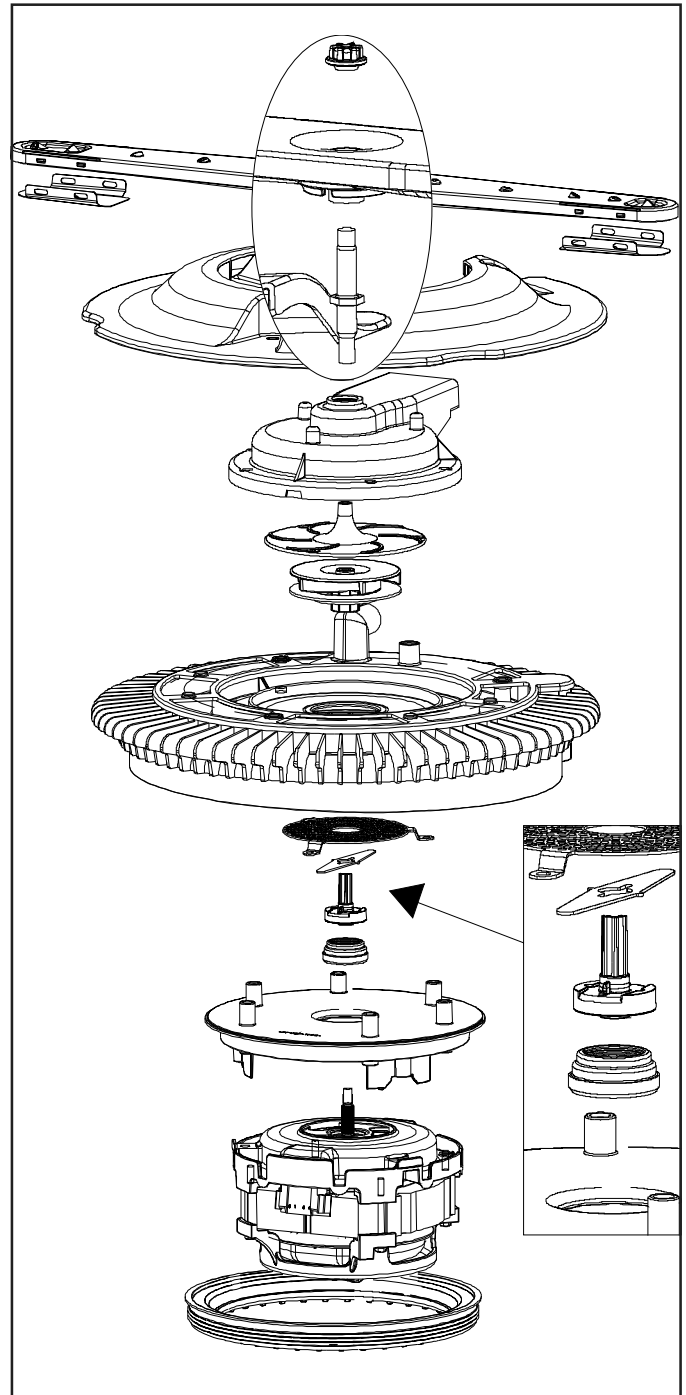
To avoid risk of electrical shock, personal injury, or death, disconnect electrical power source to unit and discharge capacitor through a 10,000 ohm resistor before attempting to service, unless test procedures require power to be connected. Ensure all ground wires are connected before certifying unit as repaired and/or operational.



15. Remove Chopper Sleeve by using Impeller as a wrench. Lock motor rotation using the access hole provided in back of motor.



16. Lift off Seal Seat Assembly.



Appendix A

Built-In Dishwasher

Lavavajillas Empotrado/Lave-vaisselle encastré

Installation Instructions/Instrucciones de Instalación/Instructions d'installation





Built-In Dishwasher

Installation Instructions

Leave Installation Instructions and User's Guide with Owner

CAUTION: Disconnect electrical power before you start!

ALL ELECTRICAL WIRING, GROUNDING AND PLUMBING SHOULD BE DONE IN ACCORDANCE WITH NATIONAL AND LOCAL CODES BY QUALIFIED INDIVIDUALS.

ELECTRICAL REQUIREMENTS

This dishwasher is designed for operation on an individual 120 VAC, 60 Hz grounded electrical circuit. Use required fuse (15 amp) or comparable circuit breaker. Two wire with ground service to the dishwasher is recommended for connection at the terminal box and for grounding.



WARNING

CAUTION: To prevent accidental contact with electrical connections, built-in dishwasher models must not be connected to a power source unless the dishwasher is completely enclosed, with front panels in place. If the back or either side of the dishwasher is exposed, a panel must be used to complete this enclosure. Failure to follow this warning could result in death or serious injury.

GROUNDING INSTRUCTIONS

This appliance must be connected to a grounded metal, permanent wiring system; or an equipment-grounding conductor must be run with the circuit conductors and connected to the equipment-grounding terminal or lead on the appliance.



WARNING

CAUTION: To prevent the possibility of electrical shock, this dishwasher, as other electrical appliances, must be adequately grounded. It is the responsibility of the installer at the point of installation, taking into consideration local conditions and requirements. Failure to follow this warning could result in death or serious injury.

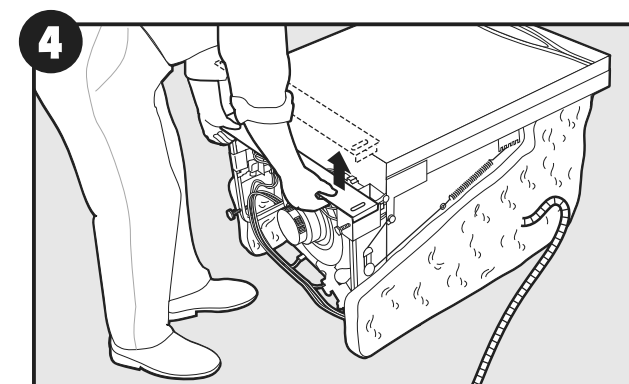
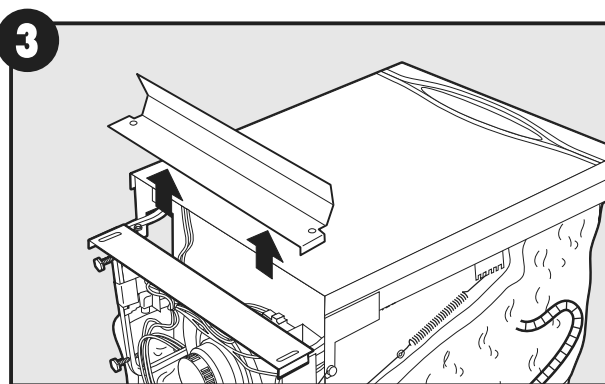
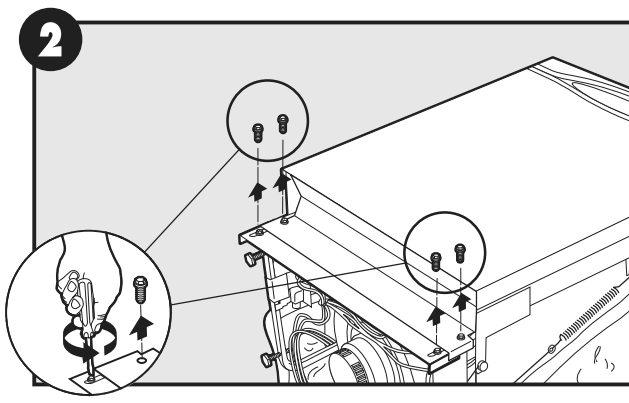
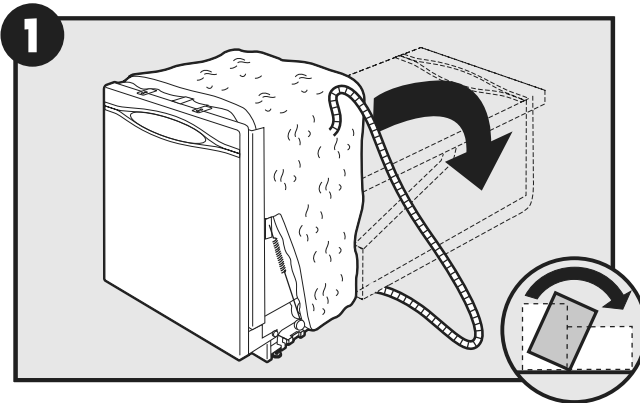
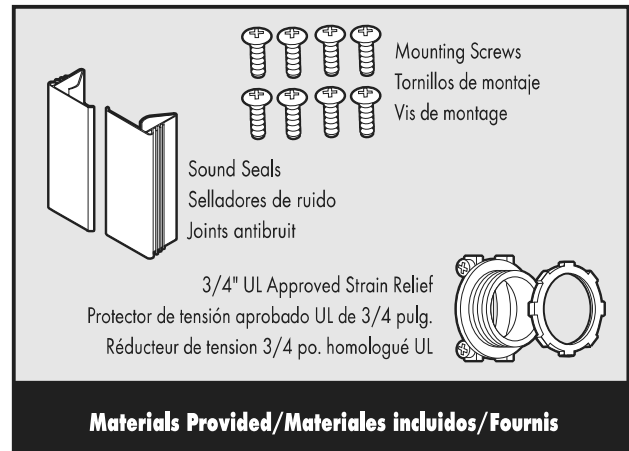
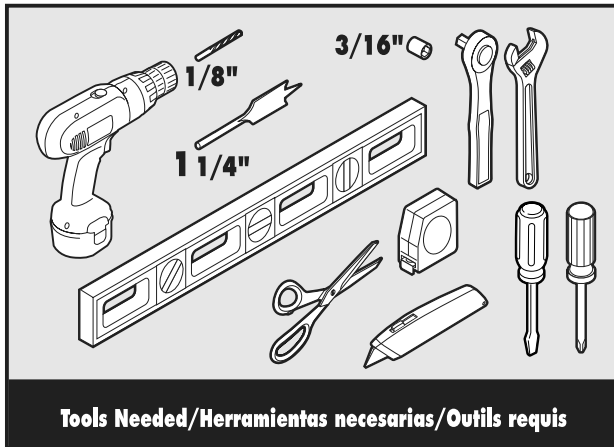
PLUMBING REQUIREMENTS

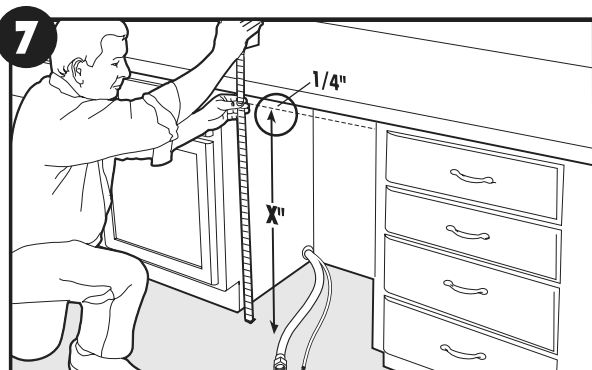
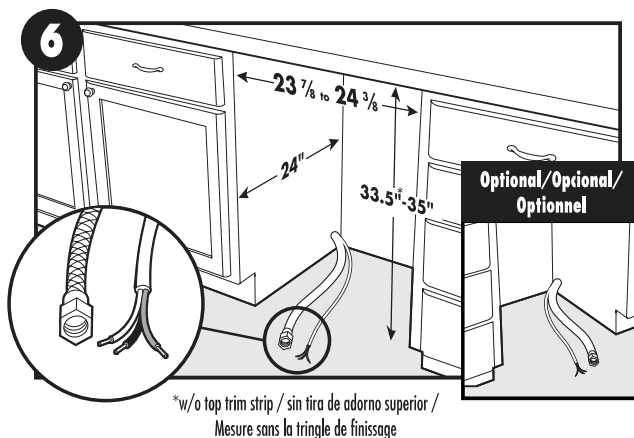
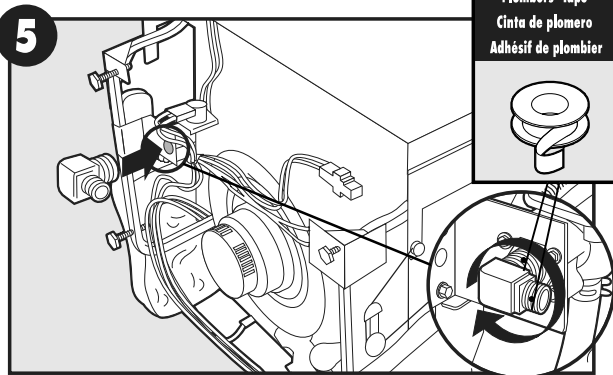
CHECK LOCAL PLUMBING CODES FOR APPROVED PLUMBING PROCEDURES AND ACCESSORIES. ALL PLUMBING SHOULD BE DONE IN ACCORDANCE WITH NATIONAL AND LOCAL CODES.



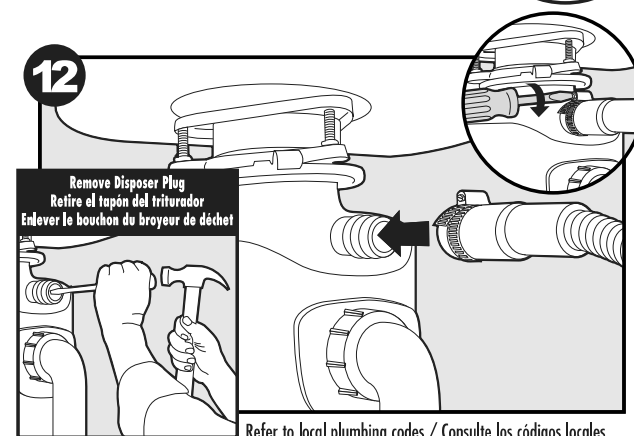
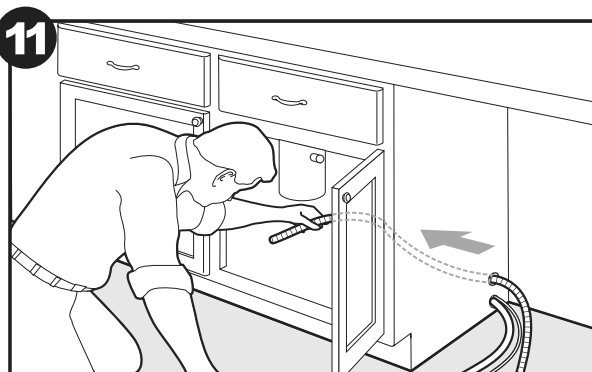
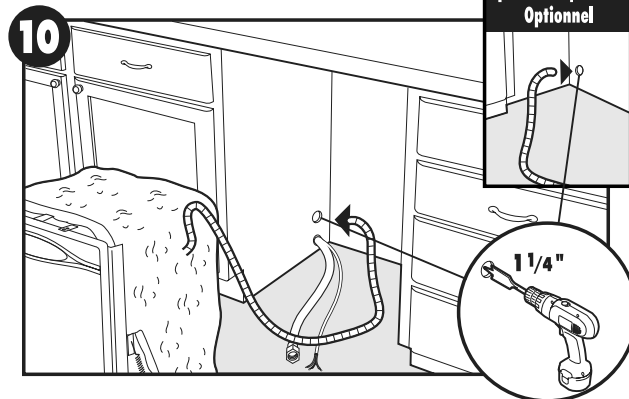
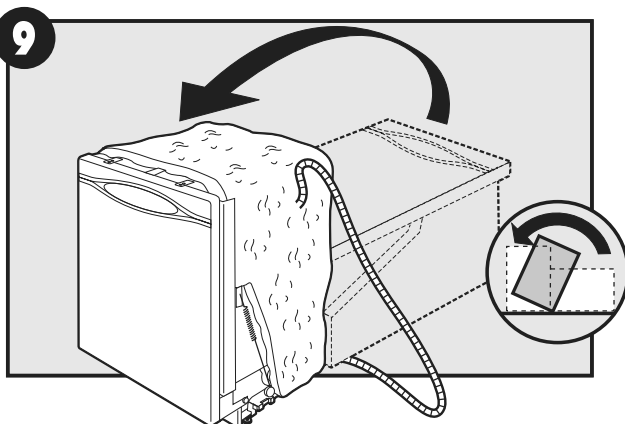
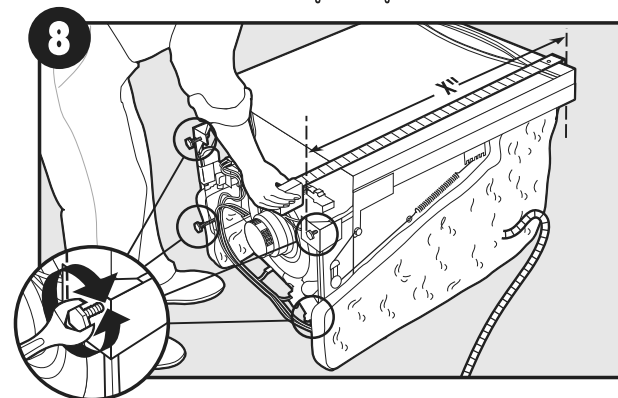
WARNING

CAUTION: Disconnect electrical power to dishwasher before you start! Failure to follow this warning could result in death or serious injury.





X = Opening Height Minus 1/4" / X = Altura de apertura menos 0.6 cm (1/4 pulg.) /
X = Hauteur d'ouverture moins 1/4 po.



Refer to local plumbing codes / Consulte los códigos locales de plomería / Reportez-vous aux codes locaux de la plomberie