

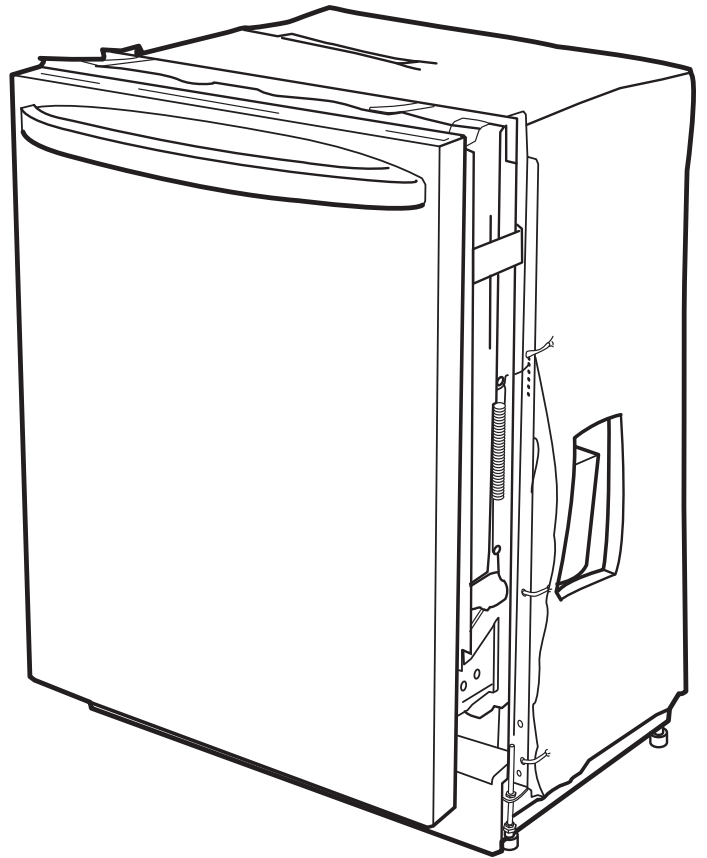
GE Appliances

Technical Service Guide

July 2011

GE Built-In Dishwasher with Top Controls

GLDT690T
GLDT696T



31-9217



GE Appliances
General Electric Company
Louisville, Kentucky 40225



IMPORTANT SAFETY NOTICE

The information in this service guide is intended for use by individuals possessing adequate backgrounds of electrical, electronic, and mechanical experience. Any attempt to repair a major appliance may result in personal injury and property damage. The manufacturer or seller cannot be responsible for the interpretation of this information, nor can it assume any liability in connection with its use.

WARNING

To avoid personal injury, disconnect power before servicing this product. If electrical power is required for diagnosis or test purposes, disconnect the power immediately after performing the necessary checks.

RECONNECT ALL GROUNDING DEVICES

If grounding wires, screws, straps, clips, nuts, or washers used to complete a path to ground are removed for service, they must be returned to their original position and properly fastened.

GE Appliances

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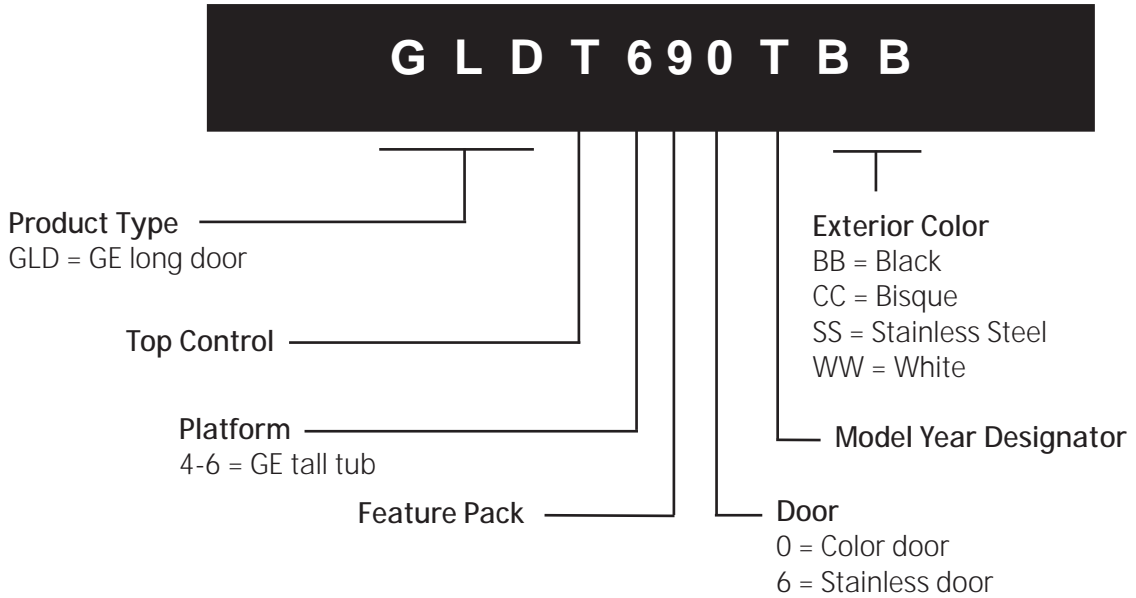
Table of Contents

Bottom Door Seal.....	20
Component Locator Views.....	12
Control Assembly.....	17
Control Board Connector Locator View	15
Control Features.....	7
Control Panel.....	16
Detergent/Rinse Module.....	19
Dishwasher Components.....	16
Door Switch Assembly	18
Drain Pump Assembly	26
Factory Diagnostic Mode.....	31
Fill Funnel.....	23
Heating Element.....	21
Inner Door Panel	20
Introduction.....	6
Motor Pump Assembly.....	27
Nomenclature	5
Outer Door Panel	16
Overview of Cycles	9
Pressure Switch	25
Schematics and Wiring Diagrams.....	33
Service Test Mode.....	32
Specifications	32
Static Dry System.....	16
Sump Assembly.....	29
Thermistor.....	28

Troubleshooting	31
Tub Gasket and Trim	21
Warranty	34
Water Inlet Valve.....	24

Nomenclature

Model Number



The nomenclature plate is located on the left side of the tub wall, inside the door jamb.

The mini-manual is located in a plastic bag taped on the back side of the toe kick.

Serial Number

The first two characters of the serial number identify the month and year of manufacture.

Example: **MV123456S** = May, 2011

M - JUL	2011 - V
R - AUG	2010 - T
S - SEP	2009 - S
T - OCT	2008 - R
V - NOV	2007 - M
Z - DEC	2006 - L
A - JAN	2005 - H
B - FEB	2004 - G
F - MAR	2003 - F
G - APR	2002 - D
H - MAY	2001 - A
L - JUN	2000 - Z

The letter designating the year repeats every 12 years.

Example:
V - 2011
V - 1999
V - 1987

Introduction

GLDT690T/GLDT696T

GE Built-In Dishwasher with Hidden Controls

Features and Benefits

- Bright stainless steel interior
- Low-profile installation capable
- 5 wash levels - Scrub dishes clean
- 2-digit countdown display with 1-24 hour delay start
- 2 utility shelves in upper rack with StemSafe
- Nylon racks - Durable racks are designed to resist rust and secure dishes.
- Audible end-of-cycle signal - The dishwasher makes a sound to tell you when the load is complete and dishes are ready to unload.
- Energy Star® qualified
- ADA-compliant - Dishwasher design allows for simple operation and easy access.
- SanWash Cycle - Special cycle reduces 99.99% of harmful germs and bacteria.
- Model GLDT690TWW - White on white
- Model GLDT690TBB - Black on black
- Model GLDT690TSS - Stainless steel



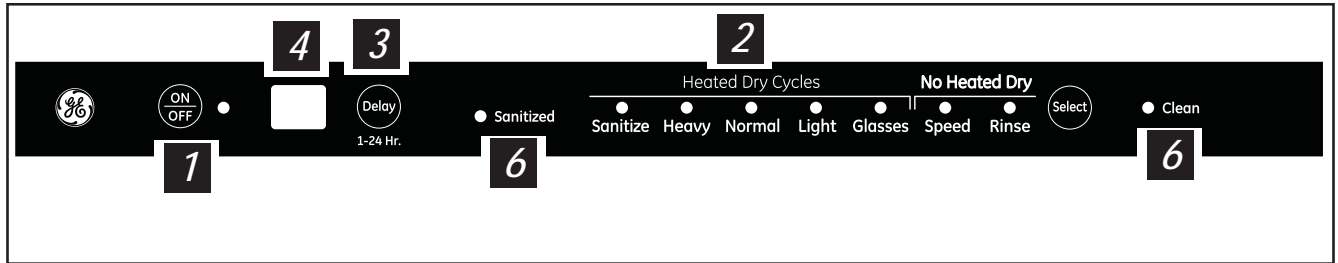
Weights & Dimensions

Approximate Shipping Weight	99 lb
Net Weight.....	82 lb
Overall Height	32 ¹¹ / ₃₂ in.
Height w/Legs Extended.....	34 1/2 in.
Overall Depth	24-in.
Overall Width.....	24-in.

Control Features

Throughout this manual, features and appearance may vary from your model.

About the dishwasher control panel.



Control Settings

1 ON/OFF

With door open, press **ON/OFF** button to turn the unit ON to begin operation and OFF at the end of a wash cycle. The **ON/OFF** light is displayed when the dishwasher is ON.

2 Wash Cycle Selections

Press **SELECT** button to choose wash cycle. The light under the cycle name will display to indicate which cycle has been selected.

NOTE: All cycle times and water usage information contained in this section are approximate values. Actual results will depend on several factors including, but not limited to, inlet water temperature and household water pressure.

SANITIZE 4.82 gal., 130 minutes

This cycle is meant to sanitize dishes and glasses with added heat. If you select sanitize cycle, at the end of this cycle, the sanitized indicator will turn on.

HEAVY 6.74 gal., 125 min.

This cycle is meant for heavily soiled dishes or cookware with dried-on or baked-on soils. This cycle may not remove burned-on foods. Everyday dishes are safe to be used in this cycle.

NORMAL 4.65 gal., 115 min.

This cycle is meant for loads of everyday dishes, glasses and cookware with medium soils that have not been pre-rinsed.

LIGHT 4.82 gal., 78 min.

This cycle is meant for loads of everyday dishes, glasses and cookware with light soils that have been pre-rinsed.

GLASSES 3.89 gal., 76 min.

This cycle is meant for lightly soiled glassware. This cycle has less heating during the wash and rinse to protect your glassware. This cycle also has a lower temperature heated dry.

SPEED 5.75 gal., 78 min.

This cycle is meant for loads of everyday dishes, glasses and cookware with medium soils that have not been pre-rinsed. This cycle features reduced wash times to allow for faster cycle completion. This cycle also has a reduced time heated dry.

RINSE 1.92 gal., 26 min.

For rinsing partial loads that will be washed later. Do not use detergent with this cycle. This cycle does not include heated dry.

3 *Delay Start Option*

This option allows you to delay the start of a wash cycle for up to 24 hours.

With the door open, turn the dishwasher ON by pressing the **ON/OFF** button; then press the **DELAY** button to choose the number of hours you want to delay the start of the wash cycle. The hours will show in the display window.

NOTE: To cancel the **DELAY HOURS** option before the start of the cycle, repeatedly press the **DELAY HOURS** button until the display is blank or reads "00."

4 *2 Digit Display*

This display is used for **DELAY START** and cycle time countdown.

When a cycle is selected, this display is populated with the total number of minutes in the cycle (up to 99 minutes). For cycle times above 99 minutes the display will read "99".

5 *Starting a Cycle*

After selecting the wash cycle (Step 2) and **DELAY START** (Step 3), if desired, close the door of the dishwasher to start the cycle or begin the **DELAY START** countdown. When the door is closed, there will be a 5 second delay followed by a 60 second pump out before the water fill begins.

6 *Status Indicators*

SANITIZED If the **SANITIZE** cycle is selected, the sanitized indicator light will be turned on at the end of the cycle. If the NSF requirements for sanitization are not reached, the light will **not** turn on.

CLEAN The green light will display and a beep will sound to alert you that the wash cycle is complete. If the door is **NOT** opened, the beep will sound 4 times.

Overview of Cycles



- After pressing the **ON/OFF** button, all LEDs will light, the digital display will show **88**, and the buzzer will beep.
- The estimated cycle time will be displayed as a two-digit number. If the cycle time exceeds 99 minutes, the seven segment display will show **2H**. If the cycle time is less than or equal to 99 minutes, the actual estimated cycle time is displayed.
- The control makes an End-of-Cycle Alert for 1 second every 2 minutes (with a maximum of 4 beeps) for any mode (regardless of whether delay was selected or not) after the end of any cycle.
- Cancel/Change cycle: After a cycle has started, open the door and hold the **Select** button down for 3 seconds. After 3 seconds, the machine will beep and the display will select the next cycle to the right. If left on any cycle with the door closed, the machine will drain and start that new cycle automatically.
- Delay start – Select 1 to 24 hours as the amount of time to delay the start of the cycle. This will be displayed as **1H**, **2H**, etc. The delay start display never shows minutes.
- When the door is closed, the display will turn off after 3 minutes regardless of a time delay. Opening the door will turn the display back on. During the cycle run, the selected cycle LED will flash on/off.
- This model does not contain a Demo mode.

Sanitize wash cycle definition:

The **Sanitized** LED will only be turned on at the end of the sanitize wash cycle if the following two conditions are met during the cycle:

1. An internal calculation the board makes based on several heat factors.
2. The water temperature in the final rinse is greater than or equal to 150°F.

The maximum time for the final rinse in the sanitize wash cycle is 60 minutes. If both of the above conditions are met prior to the 60 minute limit, the final rinse will end immediately and both the Sanitized light and Clean LED will turn on. If either condition is not met at the end of the 60 minute limit, the final rinse will end and the Sanitized light will not turn on.

Cycles Chart

No	Stage	Function	Time	Sanitize	HEAV	NORMAL	LIGHT	GLASSES	SPEED	RINSE	Remark
		total wash time		137	136	120	89	87	84	26	
1	Pre-wash	Drain	1'	●	●	●	●	●	●	●	
2		Fill	36"	●	●		●	●	●	●	
3		Fill	34"			●					
4		Wash	3'	●	●						
5		Wash	3'			●	●	●	●		
6		Wash	1'	●	●		●	●	●		
7		Wash	1'	●		●	●	●			
8		Wash	1'		●	●		●			
9		Wash	5'			●					
10		Wash + Drain	15"	●	●	●	●	●	●	●	
11		Drain	1'	●	●	●	●	●	●		
12		Pause	2"	●	●	●	●		●		
13		Fill	32"	●	●		●		●		
14		Fill	30"			●					
15		Wash + Heater	3'	●	●		●		●		
16		Wash	4'			●			●		
17		Wash + Heater	1'		●						
18		Wash + Heater	2'	●							
19		Wash	1'		●	●	●				
20		Wash + Drain	15"		●		●		●		
21		Drain	1'		●		●		●		
22		Pause	2"		●				●		
23		Fill	32"		●				●		
24		Wash + Heater	3'	●	●				●		
25		Wash	5'	●		●					
26		Wash + Heater	1'		●				●		
27		Wash + Drain	15"	●	●	●			●		
28		Drain	1'	●	●	●			●		
29		Pause	2"	●	●	●	●	●	●		
30	Fill + Dispenser	36"	●	●		●	●	●			
31	Fill + Dispenser	34"			●						
32	Wash + Dispenser	26"			●						
33	Wash + Dispenser	24"	●	●		●	●	●			
34	Wash + Heater	8'	●	●	●	●		●			
35	Wash + Heater	14'		●				●			
36	Wash + Heater	6'	●		●						
37	Wash + Heater	4'	●				●				
38	Wash + Heater	5'									
39	Wash + Heater	12'		●							
40	Main Wash	Wash + Heater	T50				●	●	●		(maxtime: 10min)
41		Wash + Heater	T60	●	●						
42		Wash + Heater	T50			●					
43		Wash	2'	●	●	●	●	●	●		
44		Wash	12'			●					
45		Wash + Drain	15"	●	●	●	●	●	●		
46		Drain	1'	●	●	●	●	●	●		
47		Pause	2"		●				●		
48		Fill	34"		●						
49		Wash + Heater	5'		●						
50		Wash + Drain	15"		●						
51		Drain	1'		●						
52		Pause	2"	●	●	●	●	●	●		
53		Fill	30"	●	●	●	●	●	●		

(Continued next page)

Cycles Chart

No	Stage	Function	Time	Sanitize	HEAV	NORMAL	LIGHT	GLASSES	SPEED	RINSE	Remark	
54	Rinse	Wash	8'	●		●		●		●		
55		Wash + Heater	3'	●	●		●		●			
56		Wash + Heater	2'	●	●				●	●		
57		Wash + Drain	15"	●	●	●	●	●	●	●		
58		Drain	1'	●	●	●	●	●	●	●		
59		Pause	2"	●	●	●	●	●	●	●		
60		Fill + Dispense	30"	●	●	●	●	●	●	●		
61		Wash + Dispense	30"	●	●	●	●	●	●	●		
62		Wash + Heater	4'	●	●	●	●	●	●	●		
63		Wash + Heater	3'	●	●	●	●	●	●	●		
64		Wash + Heater	30"	●	●	●	●	●	●	●		
65		Wash + Heater	T50						●		●	(maxtime: 3min)
66		Wash + Heater	T60		●	●						(maxtime: 8min)
67		Wash + Heater	T67	●								(maxtime: 20min)
68		Wash + Heater	7'	●								
69		Wash	1'	●	●	●			●	●	●	
70		Wash	1'	●	●	●			●		●	
71		Wash + Drain	15"	●	●	●	●	●	●	●	●	
72		Drain	90"	●	●	●	●	●	●	●	●	
73		Dry	Pause	2"	●	●	●	●	●	●		
74	Heating Dry		3'	●	●	●	●	●	●			
75	Pause		1'	●	●	●	●	●	●			
76	Heating Dry		3'	●	●	●	●	●	●			
77	Pause		1'	●	●	●	●	●	●			
78	Heating Dry		1'	●	●	●	●	●	●			
79	Pause		1'	●	●	●	●	●	●			
80	Heating Dry		1'	●	●	●	●	●	●			
81	Pause		3'	●	●	●	●	●	●			
82	Heating Dry		1'	●	●	●	●	●	●			
83	Pause		3'	●	●	●	●	●	●			
84	Heating Dry		1'	●	●	●	●	●	●			
85	Pause		3'	●	●	●	●	●	●			
86	Heating Dry		1'	●	●	●	●	●	●			
87	Pause		3'	●	●	●	●	●	●			
88	Heating Dry		1'	●	●	●	●	●	●			
89	Pause		3'	●	●	●	●	●	●			
90	Heating Dry		1'	●	●		●	●				
91	Pause		1'	●	●		●	●				
92	Heating Dry		1'	●	●		●	●				
93	Pause		1'	●	●		●	●				
94	Heating Dry		1'	●	●	●	●	●	●			
95	Pause		8'	●	●	●	●	●	●	●		

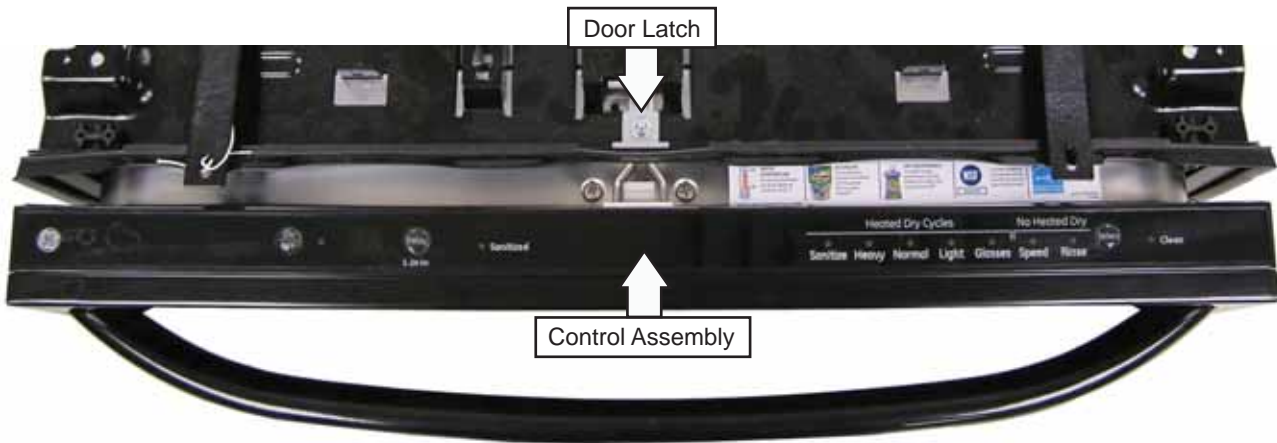
note: 1' means 1 minute, 2" means 2 seconds, T50 means 50degC

Component Locator Views

Front View



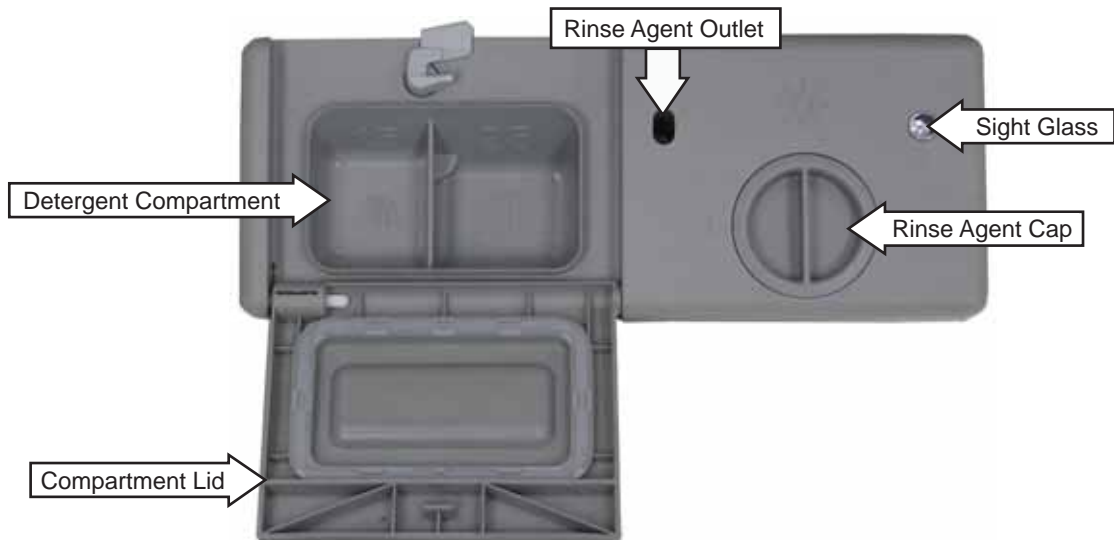
Control Panel View



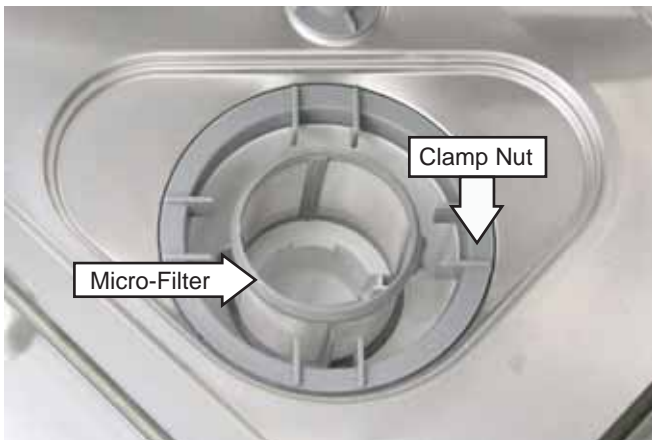
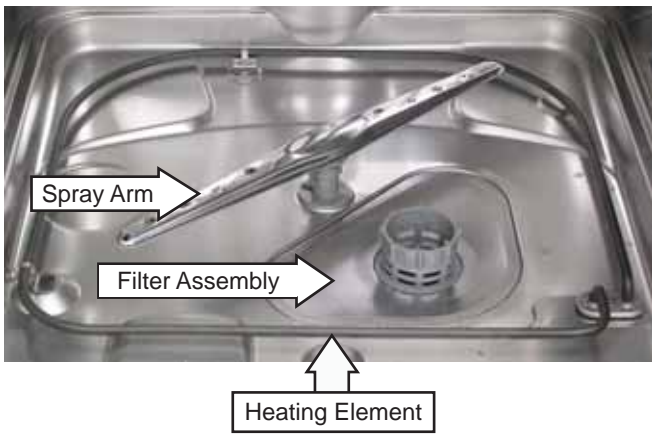
Interior View (Without Racks)



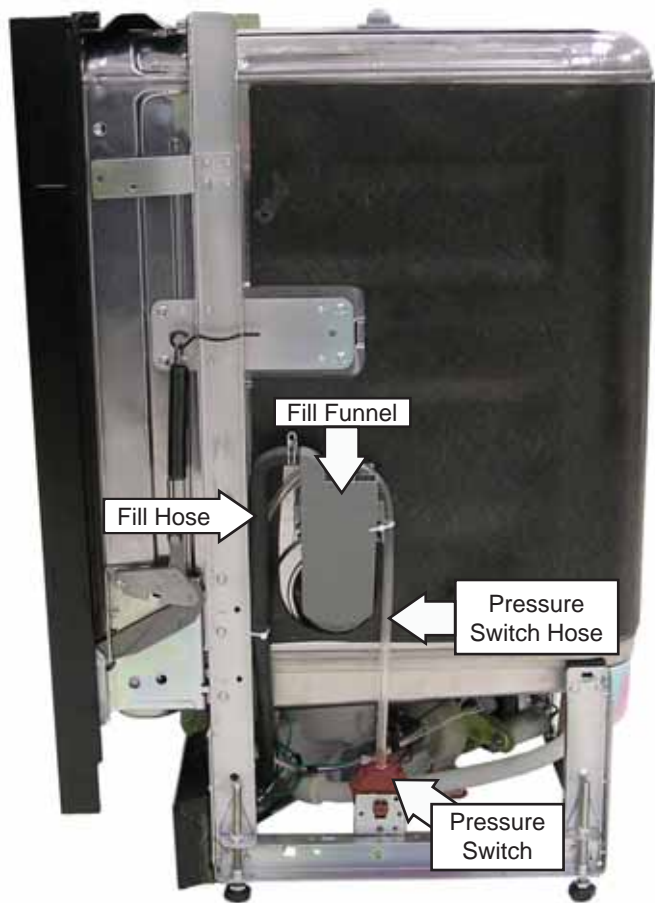
Detergent/Rinse Module Compartment View



Interior View of Basin (With Racks Removed)



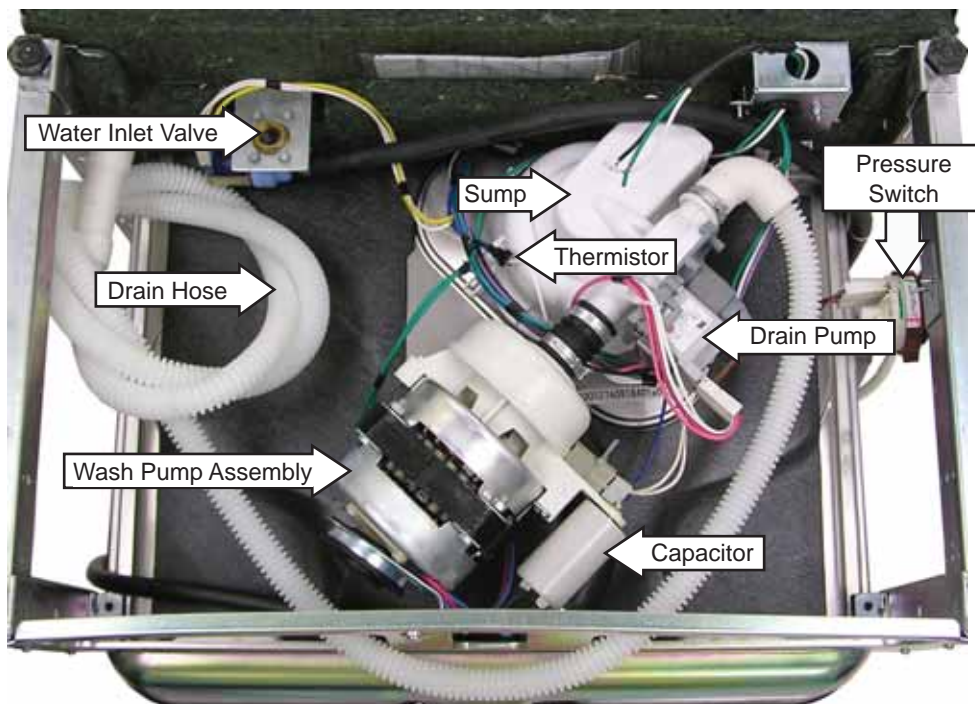
Right Side View (Insulation Removed)



Bottom View (Looking Up)

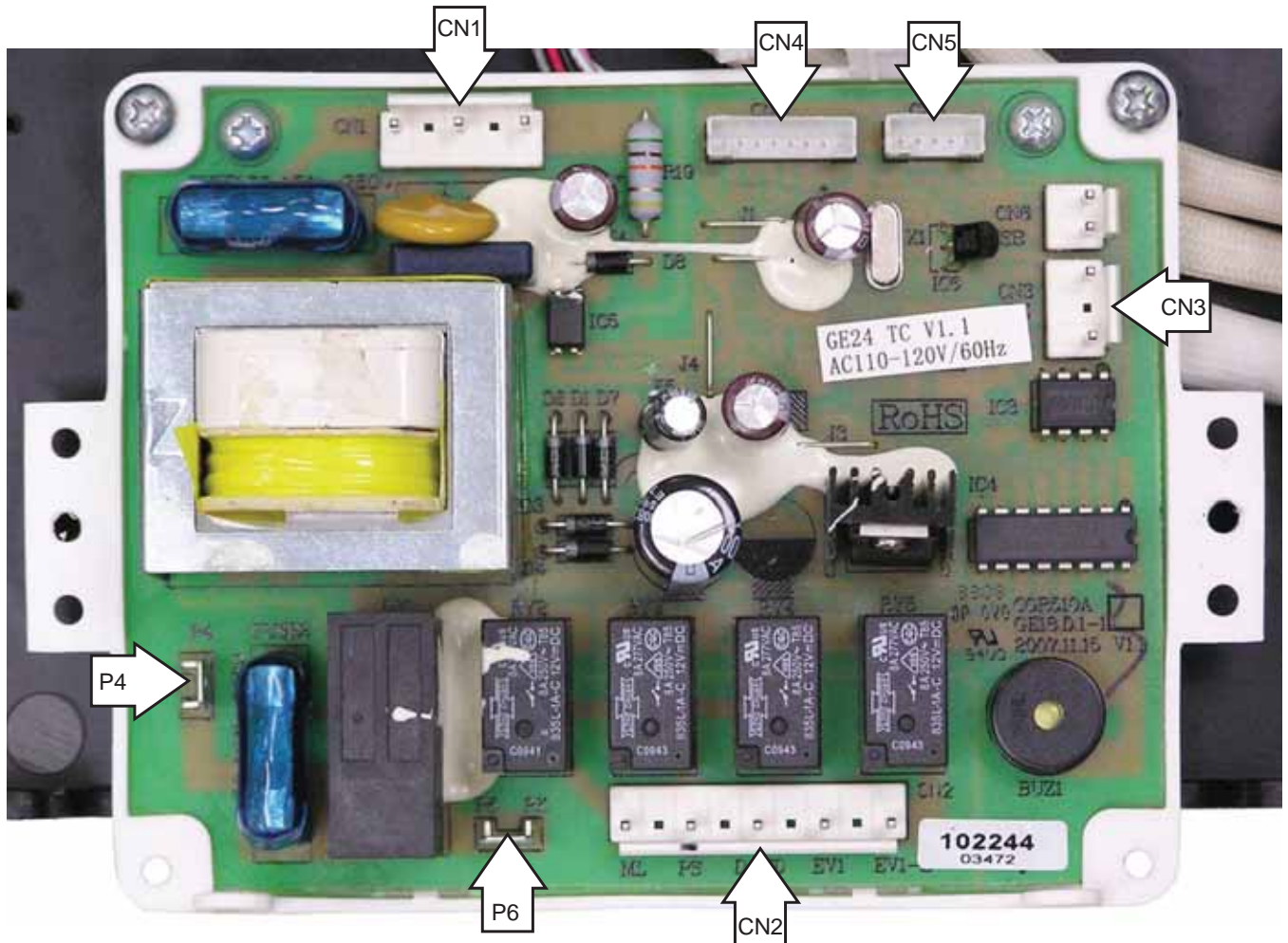
Note: Drain hose is shown in shipping configuration.

Front



Back

Control Board Connector Locator View



CN1 - Door Switch

CN2 - 120 VAC output:

Pin 1 = pressure switch; Pin 3 = water inlet valve;
Pin 5 = detergent/rinse module; Pin 7 = drain
pump; Pin 9 = motor pump.

CN3 - Thermistor

CN4 and CN5 - PCB user interface boards

P4 - L1

P6 - 120 VAC output to heater

Dishwasher Components

Outer Door Panel

The outer door panel covers the door to the dishwasher and must be removed to access the control panel, detergent/rinse module, bottom door seal, and heating element.

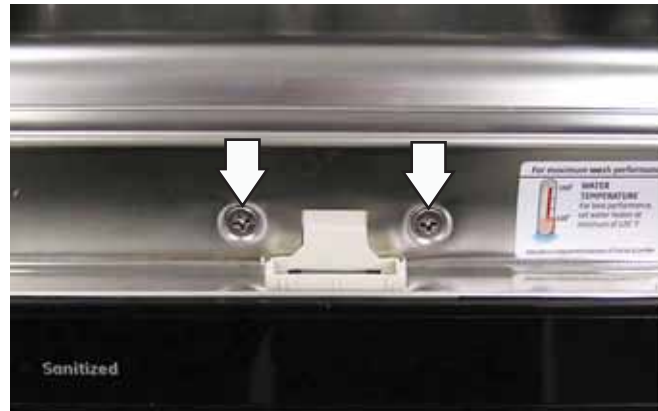
To remove the outer door panel, remove 12 Phillips-head screws, and then lower the door panel from the control panel.



Control Panel

To remove the control panel:

1. Remove the outer door panel. (See *Outer Door Panel*.)
2. Remove 2 Phillips-head screws from door latch.



3. Tilt the control panel out to clear lip and remove.

Note: The escutcheon console cover or top trim with lettering is replaced using adhesive.

Static Dry System

The static dry system operates through a vent located behind the left side door panel. The vent allows hot air to exit the dishwasher tub and gradually remove moisture that runs through the tube and back into the tub.

To remove the static dry system:

1. Remove the control panel. (See *Control Panel*.)
2. Turn the static dry vent cover counterclockwise and remove.



3. Pull the top of the vent out while lifting up to clear the bottom of the dishwasher.



Note:

- Inspect the cover for hard water/lime deposits or debris, and clean if necessary.
- If the control panel gasket shows obvious signs of wear or damage, replace the gasket.
- If the vent cover O-ring shows obvious signs of wear or damage, replace the static dry vent.



Control Assembly

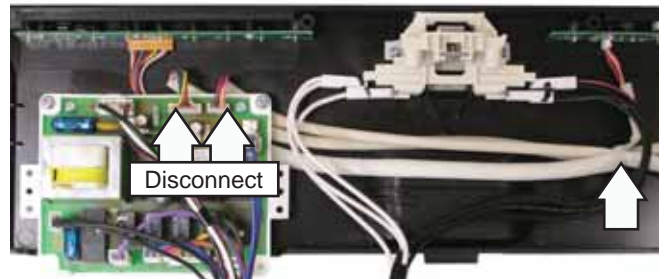
The control assembly consists of 2 PCB user interface boards and a power board.

To remove the PCB user interface assembly:

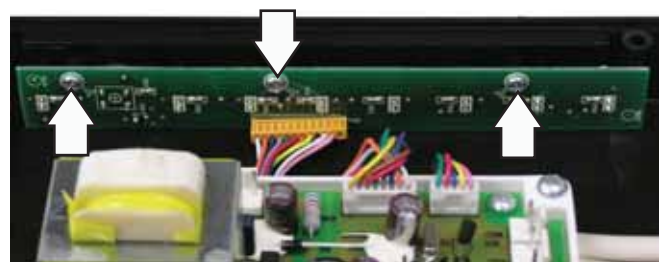
1. Disconnect the power supply to the dishwasher.
2. Remove the control panel. (See *Control Panel*)
3. Remove the 2 Phillips-head screws that attach the power board cover to the power board.



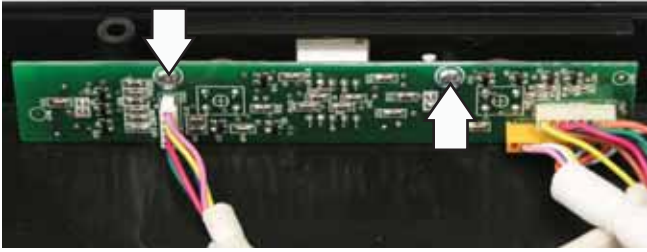
4. Disconnect 2 wire harnesses from the power board.
5. Cut the plastic tie that holds the wires to the control panel.



6. Remove 3 Phillips-head screws from the cycle select PCB user interface board.



- Remove 2 Phillips-head screws from the display PCB user interface board.

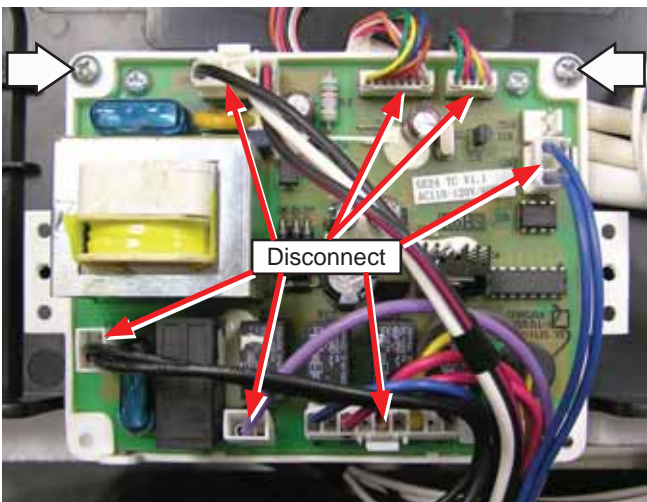


To remove the power board assembly:

- Disconnect the power supply to the dishwasher.
- Remove the control panel. (See *Control Panel*.)
- Remove the 2 Phillips-head screws that attach the power board cover to the power board.



- Disconnect the wire harnesses from the power board.
- Remove the 2 Phillips-head screws that attach the power board assembly to the housing.



Door Switch Assembly

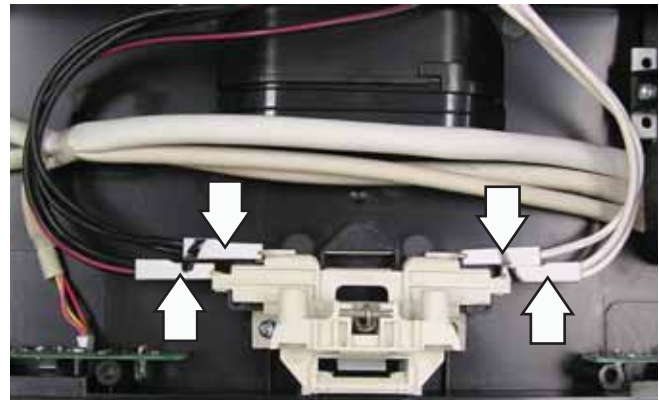
The door switch assembly consists of 2 switches activated by a spring-loaded plunger. One door switch connects or disconnects the line (hot) side of 120 VAC. The other switch connects or disconnects the neutral side of 120 VAC.

WARNING: Power remains applied to the controller location at CN1, Pin 1 to 3, while the door is open (unlatched).

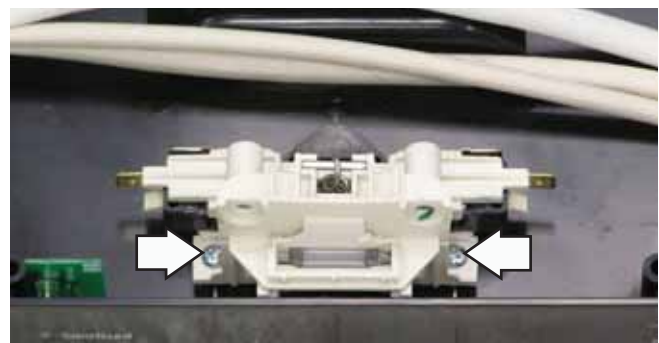
When the door is in the closed position, the door latch presses and holds down the switch plunger on the door switch assembly. This action holds the door firmly against the seal, and the normally open contacts of the door switches are closed.

To remove the door switch assembly:

- Disconnect the power supply to the dishwasher.
- Remove the control panel. (See *Control Panel*.)
- Disconnect the 4 wiring harnesses from the door switch.



- Remove the 2 Phillips-head screws that hold the door switch assembly to the control panel.

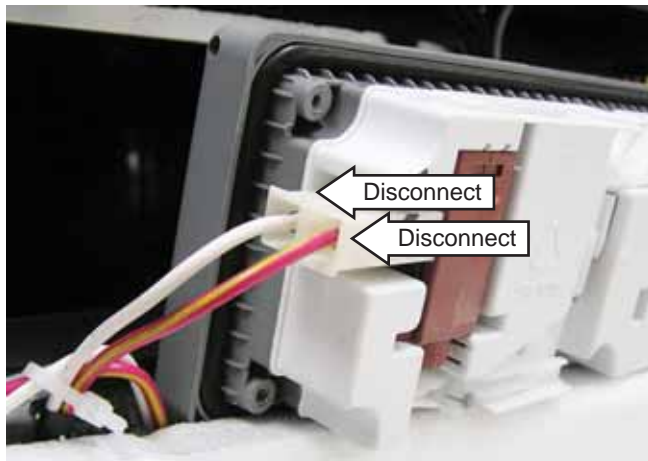
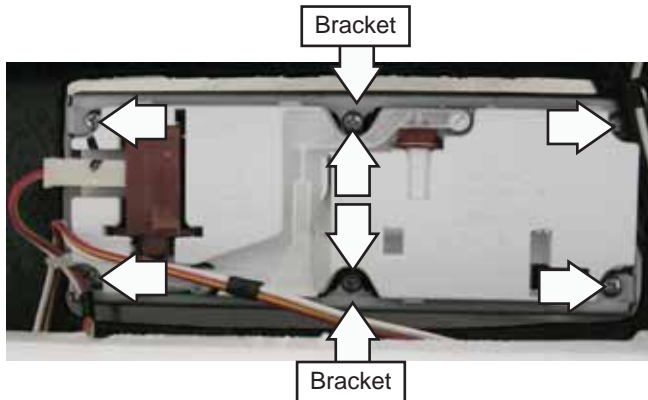


Detergent/Rinse Module

The control panel must be removed to access the detergent/rinse module. (See *Control Panel*.)

The detergent/rinse module is connected by 2 wires and held in place by 6 Phillips-head screws and 2 brackets.

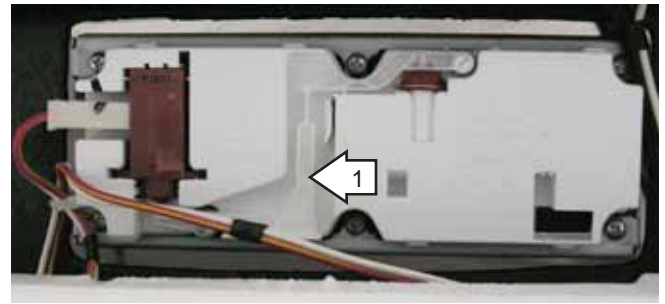
The detergent/rinse module operates on 120 VAC and has an approximate resistance value of 2 K Ω .



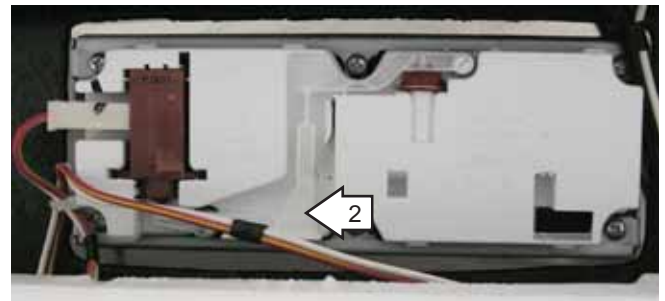
The detergent/rinse module automatically dispenses both the detergent and the rinse agent at the appropriate times. The module is activated twice during a wash cycle. Detergent is dispensed at the beginning of the main wash cycle and rinse agent at the beginning of the final rinse.

Operation of the detergent/rinse module can be checked by using the service test mode. (See *Service Test Mode*.)

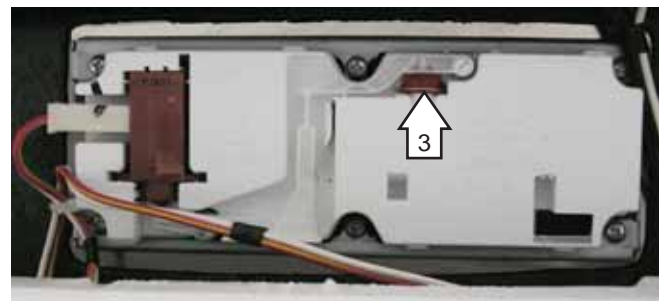
The first time the module is activated, the lever slides up the right-hand path of the connecting rod (1). This action releases the detergent cover.



When deactivated, the lever returns down the left-hand path and comes to rest under the notch (2) in the center of the connecting rod.



At the second activation, the lever lifts the connecting rod by the notch. This action lifts the rinse dispenser plunger (3) and releases the rinse agent. When deactivated, the lever returns to its original starting position.



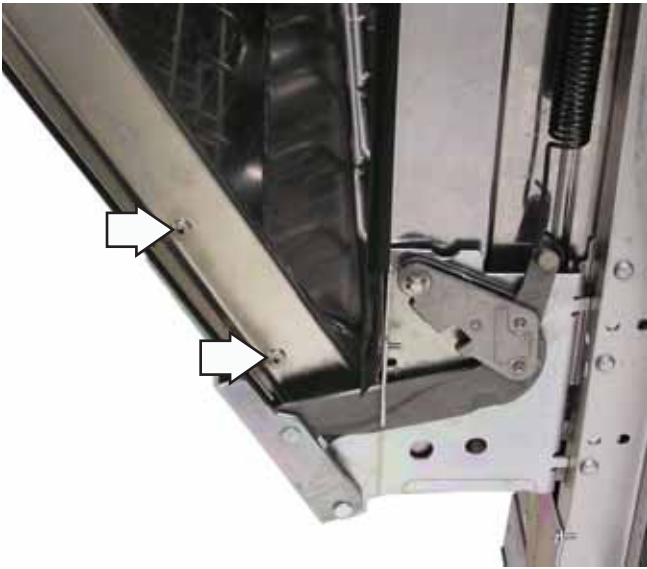
Note: Make sure the rubber seal is retained in the recessed groove before reinstalling the module to the door assembly.



Inner Door Panel

To remove the inner door panel:

1. Disconnect power.
2. Remove the control panel. (See *Control Panel*.)
3. Remove the detergent/rinse module. (See *Detergent/Rinse Module*.)
4. Remove the 4 Phillips-head screws (2 on each side) that attach the inner door panel to the bottom door bracket.



Note: When installing the inner door, place a pair of pliers into the bottom door bracket to prevent it from closing.



Bottom Door Seal

The bottom door seal prevents water leakage by sealing between the bottom of the door and the tub. It is not replaced as a separate part on this dishwasher. It is replaced as part of the inner door panel. (See *Inner Door Panel*.)

Tub Gasket and Trim

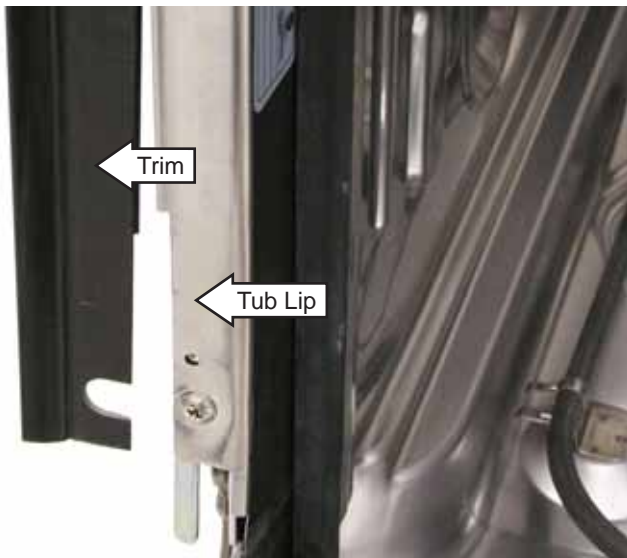
The dishwasher tub seal prevents water leakage. The seal is fitted in a seal channel that lines the rim of the dishwasher tub.

To remove the tub seal or trim:

1. Open the dishwasher door.
2. Remove the dishwasher tub seal by grasping one end of the seal to peel it away from the seal channel.



3. Remove the dishwasher trim by pulling the trim straight off the lip of the tub.



4. Reverse the above procedures to install.

Note: When installing the tub seal, make sure it is seated properly in the seal channel. Run your finger over the seal to make sure it is smooth and even for a proper seal. A correctly installed gasket will have both ends of the gasket equally distant from the bottom of the tub.

Heating Element

The heating element maintains water temperature during the wash and rinse cycles and heats the air during the static dry cycle.

The heater has an approximate resistance value of 21 Ω .

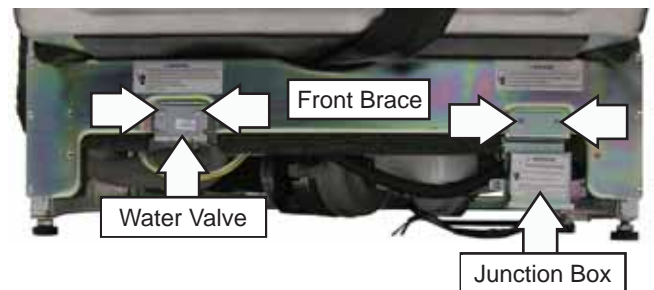
Operation of the heating element can be checked by using the service test mode. (See *Service Test Mode*.) Allow one or two minutes before opening the dishwasher door and note if heat is present.

To remove the heating element:

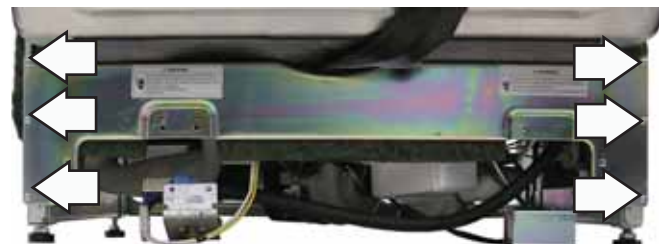
1. Remove the outer door panel. (See *Outer Door Panel*.)
2. Remove the bottom rack.
3. Remove the 2 Phillips-head screws, washers, and the access panel.



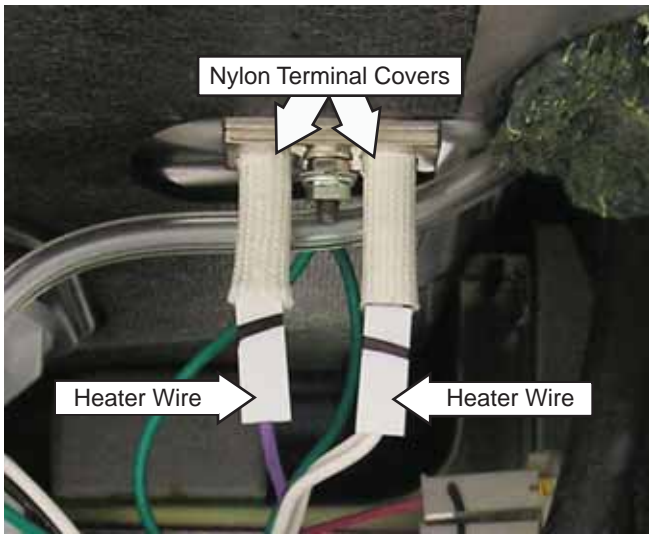
4. Remove the 2 Phillips-head screws and lower the water valve from the front brace.
5. Remove the 2 Phillips-head screws and lower the junction box from the front brace.



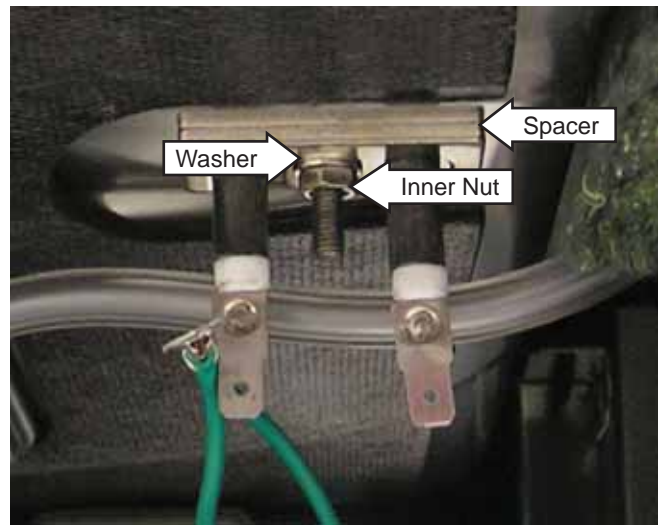
6. Remove the 6 Phillips-head screws and the front brace from the dishwasher.



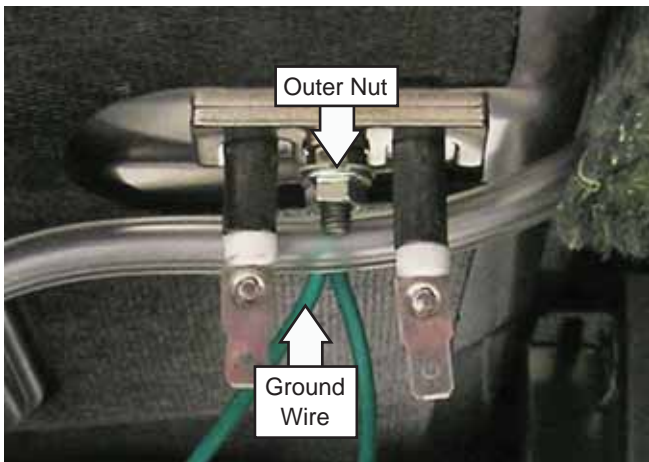
7. Locate the wires leading to the heating element terminals and pull down the 2 nylon terminal covers.
8. Disconnect the 2 wires from the heating element.



10. Remove the inner 8-mm nut, washer, and spacer that attaches the element to the bottom of the tub.



9. Remove the outer 8-mm nut that attaches the ground wire to the element mounting bolt.



11. Lift the right side of the element and release it from the 2 retainers.



Fill Funnel

The fill funnel is mounted on the right side of the tub. Its purpose is to provide a method of supplying water for the wash and rinse cycles. The air gap prevents the siphoning of wash water from flowing back into the water supply system, should the water pressure drop to less than atmospheric pressure. The fill funnel also allows air into the tub to permit airflow for drying dishware.

To remove the fill funnel:

1. Disconnect power.
2. Access the fill funnel by carefully pulling the dishwasher out from its installation.
3. Open the dishwasher door.
4. Rotate the fill funnel cap counterclockwise and remove it from the fill funnel.



5. Loosen the clamp and disconnect the fill funnel hose from the fill funnel.



Note: Upon assembly, ensure the fill funnel gasket is placed over the fill funnel threads.



Water Inlet Valve

The water inlet valve is electronically controlled and solenoid-operated. The flow of water is controlled by a rubber flow washer capable of maintaining a flow rate of $1.8 \pm 14\%$ gallons per minute ($6.81 \pm 14\%$ liters per minute) with incoming water pressure of 20 to 120 PSI. The water valve is mounted on a bracket located on the left side of the front brace.

The water valve has an approximate resistance value of $1\text{ K}\Omega$ and is energized for approximately 36 seconds during each fill.

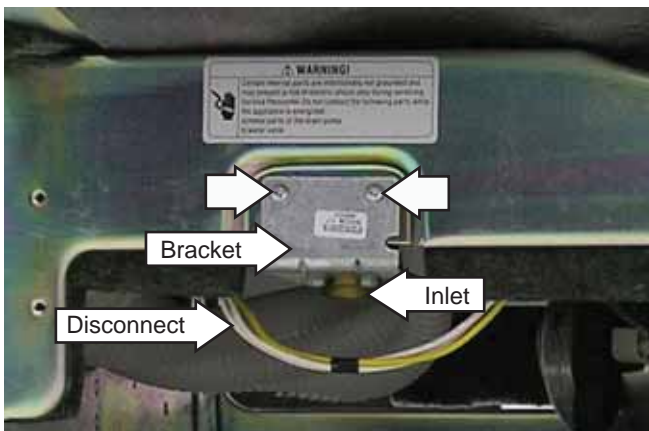
Operation of the water valve can be checked by using the service test mode. (See *Service Test Mode*.)

To remove the water valve:

1. Disconnect power.
2. Remove the outer door panel. (See *Outer Door Panel*.)
3. Remove the 2 Phillips-head screws, washers, and the access panel.

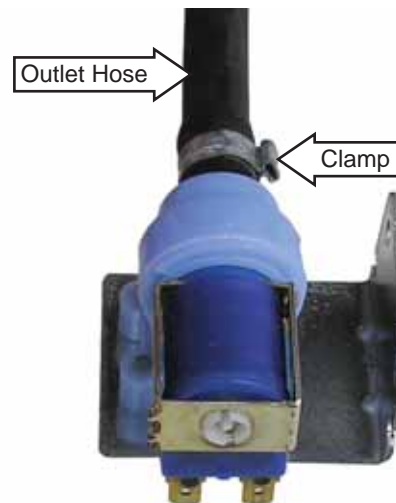


4. Disconnect the water supply line from the fill valve inlet.
5. Remove the 2 Phillips-head screws that hold the bracket to the front brace.
6. Disconnect the 2 wires from the solenoid.



Caution: The clamp is easily damaged during removal and should not be reused. Use the screw-type hose clamp provided with the new valve.

7. Remove the clamp and the outlet hose from the valve.



8. Remove the four 1/4-in. hex-head screws and the fill valve from the bracket.



Note: Ensure the O-ring is retained in the valve upon reassembly.



Pressure Switch

The pressure switch is an overflow safety device mounted on a bracket located under the tub near the right front corner. A clear plastic tube (the pressure switch hose) runs from the pressure switch, around the fill funnel, and to the sump.

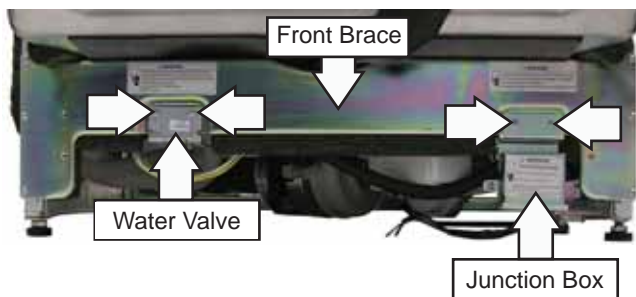
As the dishwasher basin fills with water, the air pressure in the pressure switch hose increases. Normally, the electronic control regulates the amount of time the water fill valve remains open. If the water fill valve remains energized, the overfilling of the basin increases the air pressure in the pressure switch hose causing the pressure switch to open the circuit to the water valve and energize the drain pump.

To remove the pressure switch:

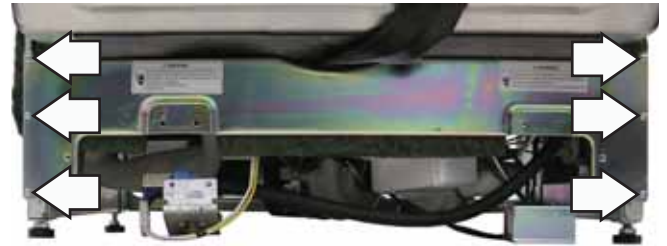
1. Disconnect power.
2. Remove the outer door panel. (See *Outer Door Panel*.)
3. Remove the 2 Phillips-head screws, washers, and the access panel.



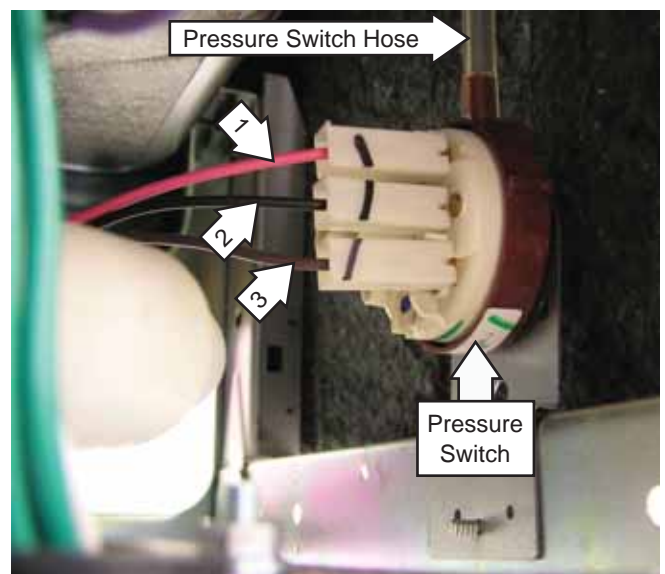
4. Remove the 2 Phillips-head screws that attach the water valve and the junction box to the front brace and lower each towards the floor.



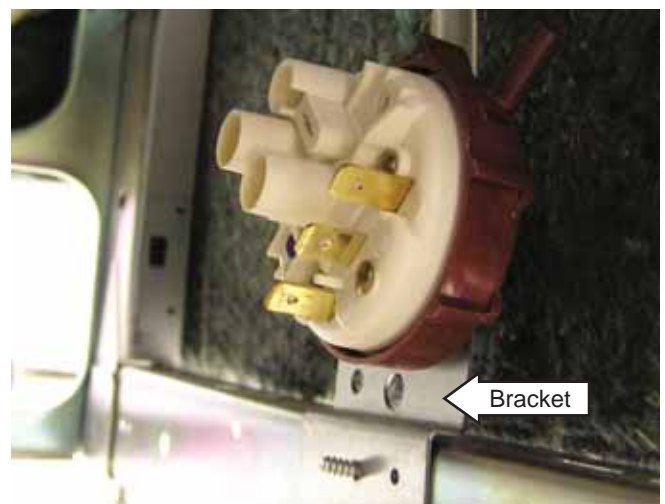
5. Remove the 6 Phillips-head screws and the front brace from the dishwasher.



6. Disconnect the pink wire from terminal 1, the black wire from terminal 2, and the brown wire from terminal 3.
7. Remove the pressure switch hose from the pressure switch.



8. Raise the pressure switch to the top of the bracket, rotate the switch 1/4 turn, and remove it.



Note: When installing the pressure switch, ensure the switch is fully seated in the bottom of the bracket.

Drain Pump Assembly

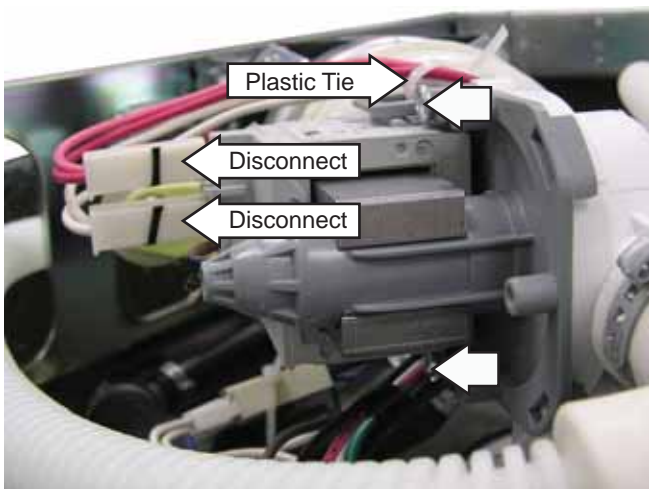
The drain pump assembly is located under the tub and operates on 120 VAC. It is energized for the first 60 seconds of a new cycle and 90 seconds after the wash pump shuts down to remove any water in the dishwasher sump. The drain pump forces water out of the drain line. A check valve flapper on the drain pump prevents the dirty water from reentering the sump.

The drain pump has an approximate resistance value of 24 Ω .

Operation of the drain pump assembly can be checked by using the service test mode. (See *Service Test Mode*.)

To remove the drain pump:

1. Disconnect power.
2. Open the dishwasher door and remove the bottom rack.
3. Remove the dishwasher from its installation.
4. Lay the dishwasher on its back.
5. Cut off the plastic tie and disconnect the 2 wires from the drain pump.
6. Remove the 2 Phillips-head screws that hold the drain pump to the sump.
7. Rotate the pump 1/4-turn counterclockwise to remove.



Note: Ensure the O-ring is retained in the pump seal before reassembly.



Motor Pump Assembly

The motor pump assembly is located under the tub behind the sump assembly. The motor utilizes a start capacitor rated at 10 μ fd. The motor rotates clockwise (as viewed from the terminal end) and draws approximately 1 amp at 120 VAC.

The motor pump assembly has an approximate resistance value of 17 Ω .

Operation of the motor pump assembly can be checked by using the service test mode. (See *Service Test Mode*.)

To remove the motor pump assembly:

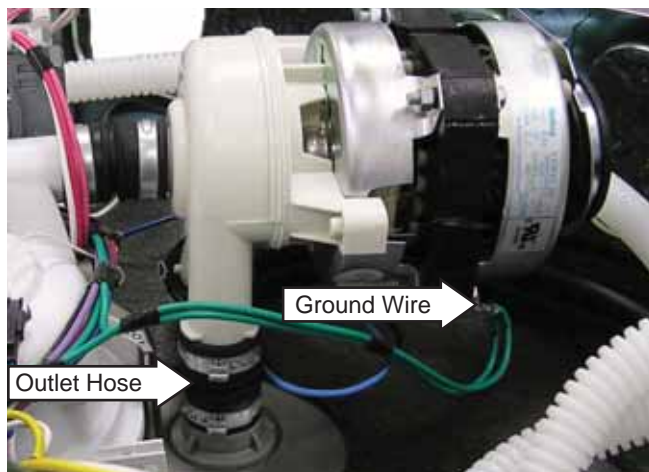
1. Disconnect power.
2. Open the dishwasher door and remove the bottom rack.
3. Remove the dishwasher from its installation.
4. Lay the dishwasher on its back.

Caution: The clamps are easily damaged during removal and should not be reused.

5. Disconnect the motor ground wire.

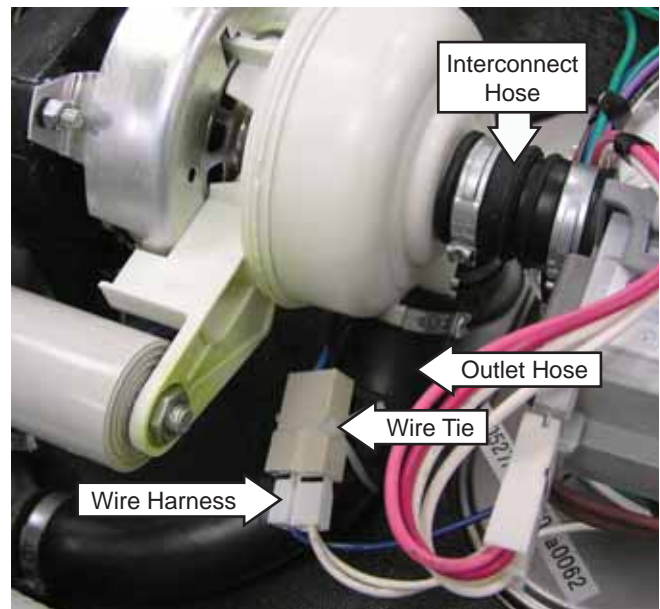
Note: Factory-installed hose clamps are not reusable. When installing a water inlet valve, drain pump assembly, motor pump assembly, or sump assembly, replace the old clamps with new screw-type hose clamps provided. The screw-type hose clamps are available separately.

6. Remove clamp and outlet hose.

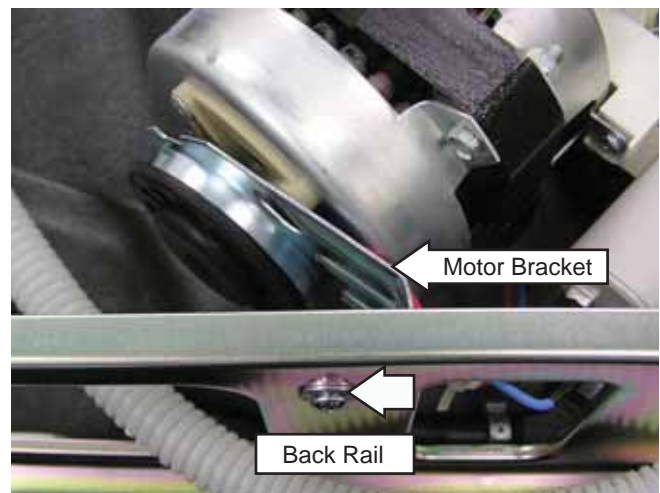


7. Cut off the wire tie and disconnect the motor wire harness.
8. Remove 2 clamps, pump interconnect hose, and outlet hose.

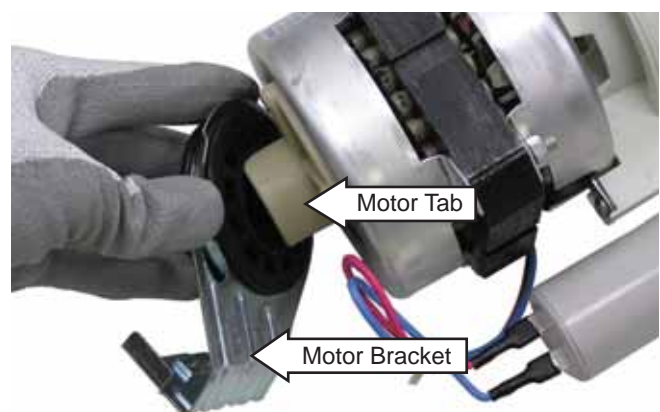
Clamp Part Number	Size
WD01X10322	15/16" to 1-1/2"



9. Remove the Phillips-head screw, lock washer, and washer that attach the motor bracket to the back rail.

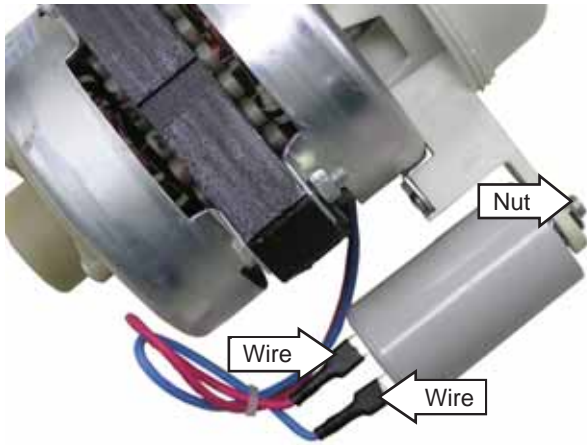


10. Pull the motor bracket off the motor tab.



To remove the motor pump capacitor:

Follow steps 1 through 4. (See *To remove the motor pump assembly*.) The capacitor is connected to the motor with 2 wires and held in place with a 13-mm nut.



Thermistor

The thermistor is located under the tub and is attached to the back side of the sump with two Phillips-head screws (5mm hex-head).

During the hot wash cycle, the thermistor senses the water temperature and turns the heating element on.

Note: If the thermistor is not operating, the hot wash cycle will default to a set time for the heating element to cycle.

The thermistor has a negative coefficient. As the temperature at the contact point on the tub increases, the thermistor's resistance decreases. The thermistor has an approximate resistance value of 50 K Ω at room temperature.

To remove the thermistor:

1. Disconnect power.
2. Remove the outer door panel. (See *Outer Door Panel*.)
3. Remove the 2 Phillips head screws, washers, and the access panel.



4. Remove the 6 Phillips-head screws and the front brace from the dishwasher.



5. Disconnect the thermistor wire harness.
6. Using either an offset Phillips-head screwdriver or 5-mm box-end wrench, remove the two Phillips-head screws (5-mm hex-head) and the thermistor from the sump.



Note: Ensure the O-ring is retained in the thermistor before reassembly.

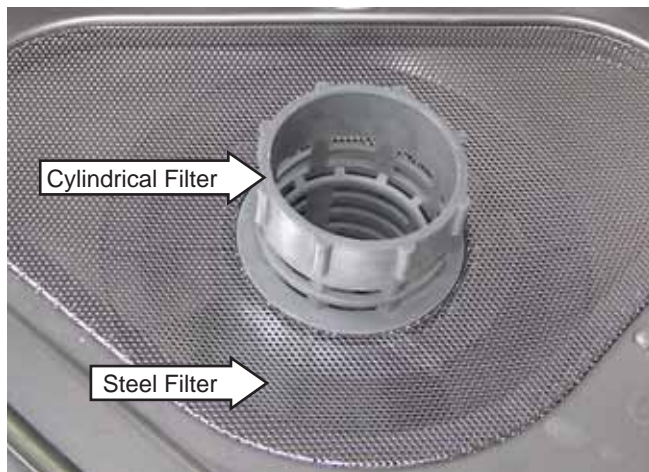


Sump Assembly

The sump assembly consists of the filter assembly, micro-filter, sump clamping nut, sump gasket, and sump. The filter assembly prevents large particles from reaching the micro-filter and the micro-filter prevents small particles from reaching the sump. The filter assembly rests above the sump and the micro-filter sits above the sump basin. The clamping nut holds the sump gasket and sump to the bottom of the dishwasher. The filter assembly, micro-filter, and sump clamping nut are accessed from inside the dishwasher. The gasket and sump are located under the tub in front of the motor pump assembly.

To remove the sump assembly:

1. Disconnect power.
2. Open the dishwasher door and remove the bottom rack.
3. Rotate cylindrical filter 1/4-turn counterclockwise to remove.
4. Lift steel filter out of tub.

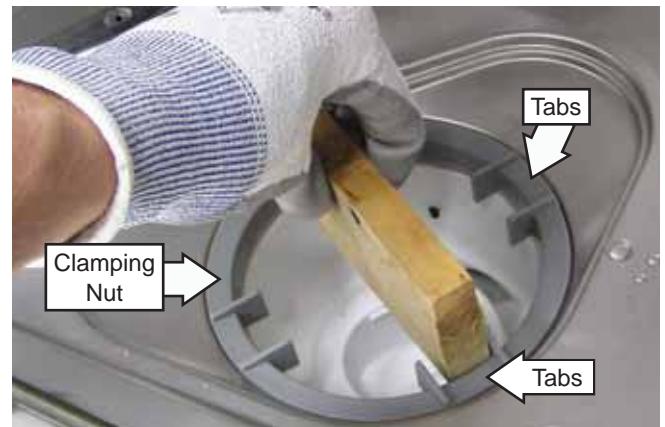


5. Lift micro-filter out of tub.

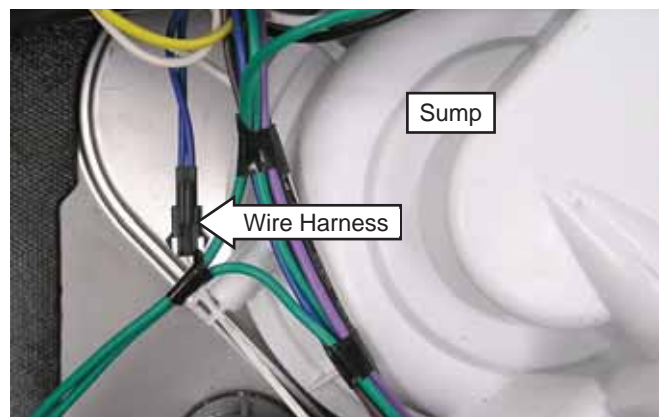


Note: The sump clamping nut turns counterclockwise and may be difficult to remove. It may be helpful to insert a 3/4-in. wide x 4 1/2-in. long piece of wood between the clamping nut tabs to enable you to apply sufficient torque to break the factory seal.

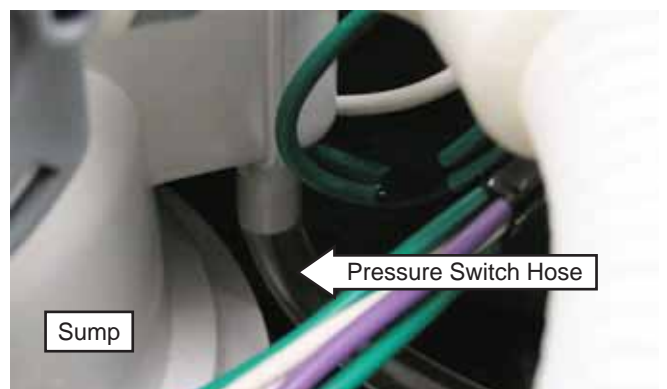
6. Remove the sump clamping nut.
7. Remove the sump gasket (not shown) and sump.



8. Remove the dishwasher from its installation.
9. Lay the dishwasher on its back.
10. Disconnect the thermistor wire harness.



11. Remove the pressure switch hose from the sump.

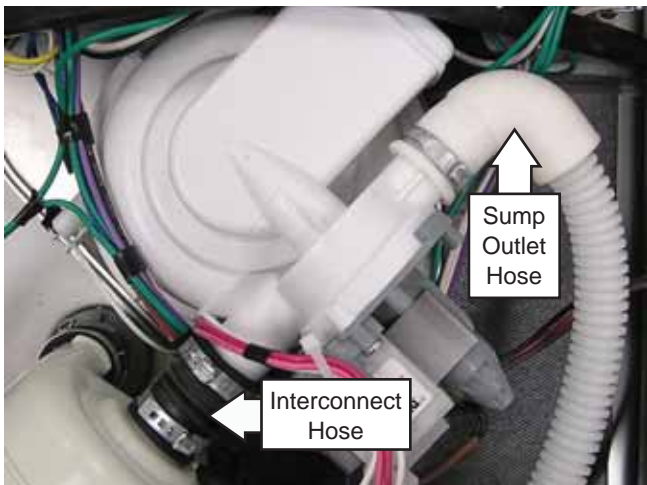


Caution: The clamps are easily damaged during removal and should not be reused.

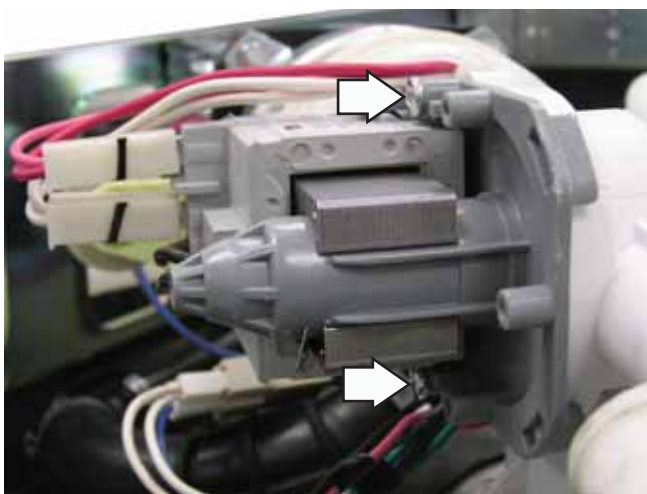
12. Remove the 2 clamps, sump outlet hose, and interconnect hose from the sump.

Note: Factory installed hose clamps are not reusable. When installing a water inlet valve, drain pump assembly, wash pump assembly, or sump assembly, replace the old clamps with new screw-type hose clamps provided. The screw-type hose clamps are available separately.

Clamp Part Number	Size
WD01X10322	15/16" to 1-1/2"



13. Remove the 2 Phillips-head screws that hold the drain pump to the sump.
14. Rotate the pump 1/4-turn counterclockwise to remove.



Troubleshooting

Factory Diagnostic Mode

To enter the factory diagnostic mode:

- Turn the dishwasher off and make sure no LEDs are lit.
- Disconnect power to the dishwasher.
- Reapply power with the door open and quickly press and hold both the *Select* and *ON/OFF* pads within 60 seconds from connecting power.
- Close door.

If performed correctly, all LEDs and the SSD will flash every second until the next step is selected. Scroll forward by pressing the *Select* button. To exit the factory diagnostic mode, either press the *ON/OFF* button or disconnect power.

Step	Component	SSD	Time or Temperature
1	Fill Valve	09	38s
2	Wash Pump	08	3m
3	Dispenser	07	60s
4	Wash Pump and Heater	06	60m
5	Drain Pump	05	60s
6	All Load Off	04	15s
7	Fill Valve	03	38s
8	Wash Pump	02	180s
9	Drain	01	60s
10	End	F0	Software Version

Service Test Mode

To enter the service test mode:

- Turn the dishwasher off and make sure no LEDs are lit.
- Disconnect power to the dishwasher.
- Reapply power with the door open and quickly press and hold both the *Delay* and *ON/OFF* pads within 3 minutes from connecting power.

If performed correctly, all LEDs and the SSD will flash every second until the next step is selected. To exit the factory diagnostic mode, either press the *ON/OFF* button or wait for all steps to finish.

Steps 1-5 of the service test mode can be performed with the door in either an open and closed state. Steps 6-11 will only progress if the door is closed. If the door is open during steps 6-11, the AC Load will turn off immediately while the respective LED/SSD displays remain on. Pressing *Select* during a step will force the control to skip to the next step.

Service Mode Test Matrix *				
Step	Action	Display/LED Indicator	Duration	Door Position
1	Turn ON all LEDs and Beeper	88	3s for LEDs	Door may be open or closed for these steps
2	Turn OFF all LEDs	Blank	3s	
3	Display SW Version	0A - FF	5s	
4	Display Error code	E0 or E1 or 00	5s	
5	Display Error code	E0 or E1 or 00	5s	
6	Turn on Water Valve	15/Sanitize LED	30s	Door must be closed for these steps
7	Turn on Main Pump	14/Heavy LED	60s	
8	Turn on Dispenser	13/Normal LED	60s	
9	Turn on Main Pump + Heater	12/Light LED	60s	
10	Turn on Drain Pump	11/Glasses LED	60s	
11	Display machine type	C5	5s	Door may be open or closed for these steps
12	Turn OFF all Components and LEDs	Blank	Beeper 300 ms	

Error Codes: E0 - Thermal Sensor Cut E1 - Thermal Sensor Short

* NOTE: Service mode will automatically turn off after progressing through all steps

Specifications

Electrical Supply (Under Load)	60 Hz - 120VAC \pm 10%
Supply Water Flow Rate	Must fill 0.85 gallon container in 30 seconds
Supply Water Temperature*	120 to 150°F (49 to 66°C)
Water Charge	0.85 gallons (3.2 liters). This water level can be measured at 0.4" below the top surface of the manual filter.
Spray Arm Rotation	20 to 60 RPM

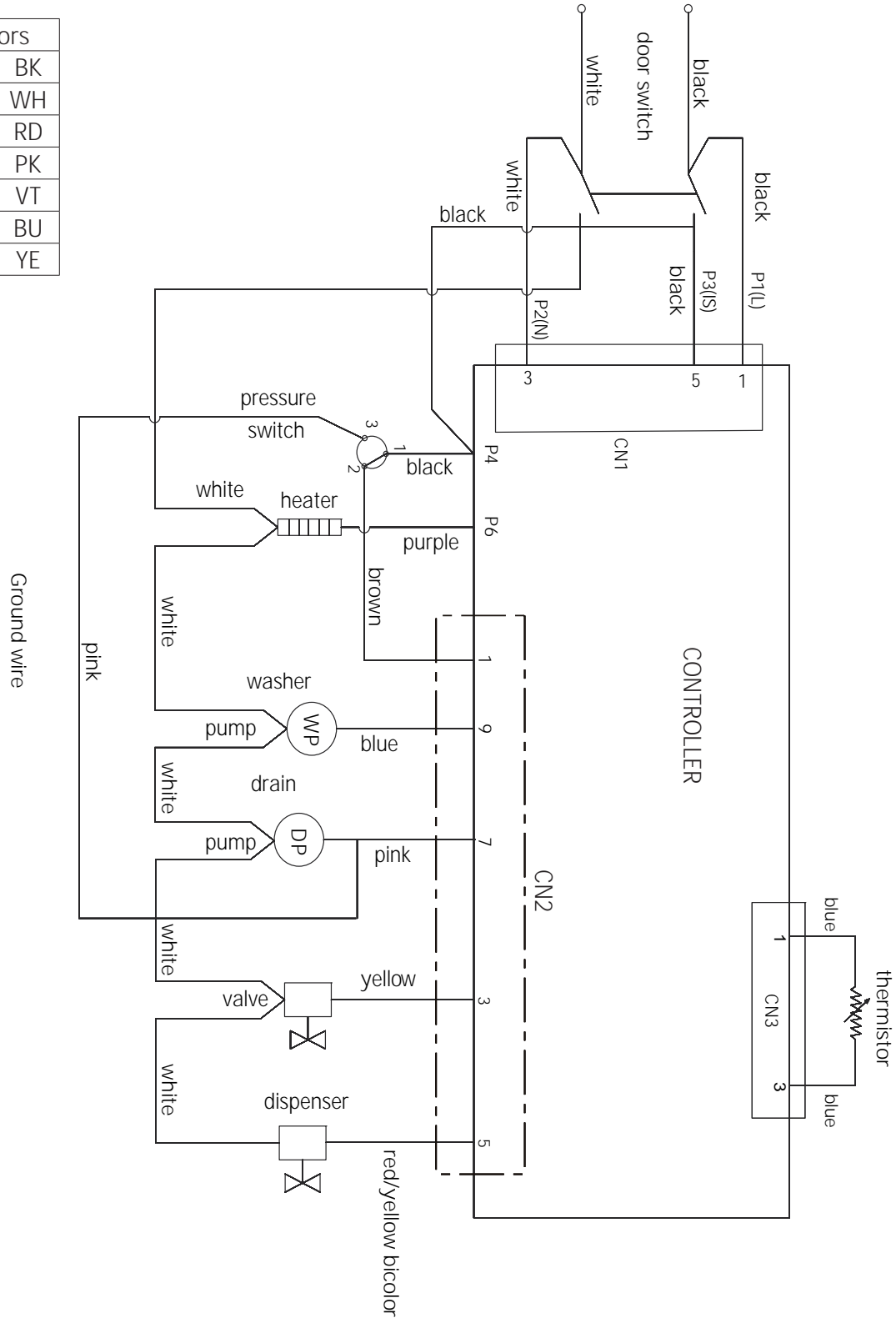
*Before starting dishwasher, run the water at the sink faucet until hot.

Schematics and Wiring Diagrams

WARNING: Disconnect electrical power before servicing.

Caution: Label all wires prior to disconnection. Wiring errors can cause improper and dangerous operation. Verify operation after servicing.

Wire Colors	
BLACK	BK
WHITE	WH
RED	RD
PINK	PK
VIOLET	VT
BLUE	BU
YELLOW	YE



Warranty

GE Dishwasher Warranty.



All warranty service provided by our Factory Service Centers, or an authorized Customer Care® technician. To schedule service, on-line, visit us at GEAppliances.com, or call 800.GE.CARES (800.432.2737). Please have serial number and model number available when calling for service.

Staple your receipt here. Proof of the original purchase date is needed to obtain service under the warranty.

For The Period Of: GE Will Replace:

One Year

From the date of the original purchase

Any part of the dishwasher which fails due to a defect in materials or workmanship. During this **limited one-year warranty**, GE will also provide, **free of charge**, all labor and in-home service to replace the defective part.

What GE Will Not Cover:

- Service trips to your home to teach you how to use the product.
- Improper installation, delivery or maintenance.
- Failure of the product if it is abused, misused, or used for other than the intended purpose or used commercially.
- Replacement of house fuses or resetting of circuit breakers.
- Damage to the product caused by accident, fire, floods or acts of God.
- Incidental or consequential damage caused by possible defects with this appliance.
- Cleaning or servicing of the air gap device in the drain line.
- Damage caused after delivery.
- Product not accessible to provide required service.

EXCLUSION OF IMPLIED WARRANTIES—Your sole and exclusive remedy is product repair as provided in this Limited Warranty. Any implied warranties, including the implied warranties of merchantability or fitness for a particular purpose, are limited to one year or the shortest period allowed by law.

This warranty is extended to the original purchaser and any succeeding owner for products purchased for home use within the USA. If the product is located in an area where service by a GE Authorized Servicer is not available, you may be responsible for a trip charge or you may be required to bring the product to an Authorized GE Service location for service. In Alaska, the warranty excludes the cost of shipping or service calls to your home.

Some states do not allow the exclusion or limitation of incidental or consequential damages. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. To know what your legal rights are, consult your local or state consumer affairs office or your state's Attorney General.

Warrantor: General Electric Company, Louisville, KY 40225