

PART NO. 8269519

NOTE: This sheet contains important Technical Service Data

**FOR SERVICE TECHNICIAN ONLY
DO NOT REMOVE OR DESTROY**

PRECAUTIONS TO BE OBSERVED BEFORE AND DURING SERVICING OF DISHWASHER

- A.** Even with the door open, there is line voltage at several points in the console and below the tub. Therefore, be sure to disconnect the power supply at the fuse box before replacing a component.
- B.** Always check wiring harness and connectors before any test procedures.
- C.** Disconnect power supply before touching the circuit board or re-seating control connectors.
- D.** Voltage checks are made by inserting probes beside wires on the connector with the AC power source applied and the connector blocks plugged in.
- E.** Resistance checks are made on components with the wiring harness disconnected.

SPECIFICATIONS

Electrical Supply:
(Under load) 60 HZ, 120 VAC.

Supply Water Flow Rate:
To fill 1.9 liters (2 quarts) in 27 seconds, 120 PSI maximum, 20 PSI minimum.

Supply Water Temperature:
49° to 71° C (120° to 160° F)
(Before starting a cycle, run water from sink faucet until hot.)

Water Charge:
6.8 liters (1.8 gallons) / first fill approx.
6.5 liters (1.7 gallons) / all other fills.

Lower Spray Arm Rotation: 25 to 40 rpm.
Upper Spray Arm Rotation: 25 to 35 rpm.

REPAIR KITS

- Vinyl Plack Patch Kit No. 676453
- Tine Tip Kit No. 675679

MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING UNITED STATES PATENTS:			
4,559,959	4,927,033	5,165,435	5,881,906
4,873,441	5,018,250	5,202,382	5,882,739
4,893,526	5,039,828	5,474,378	5,900,070
4,758,057	5,069,360	5,760,493	5,909,743
4,776,620	5,165,433	5,903,100	5,924,433

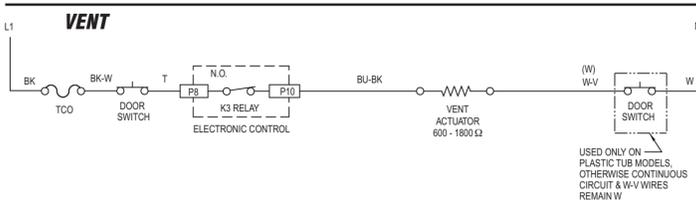
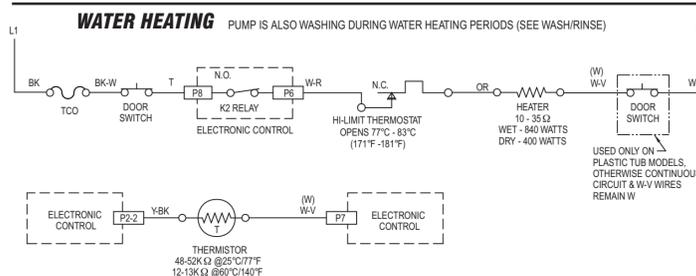
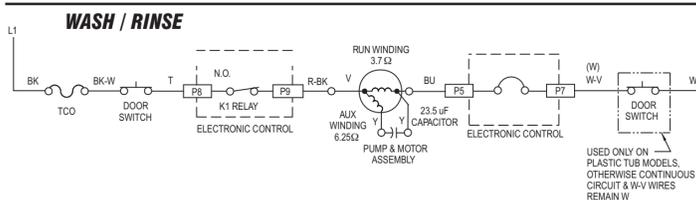
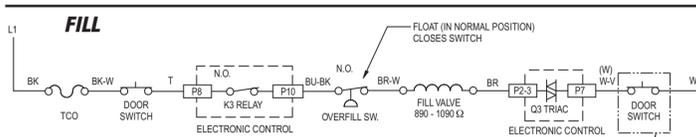
MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING CANADIAN PATENTS:			
2,001,863	2,049,828	2,075,251	
2,022,831	2,053,752		

OTHER PATENTS PENDING			
DES314,256	DES398,333		

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DISHWASHER CIRCUITS

The following individual circuits are for use in diagnosis. Before starting diagnosis, check the line voltage and check for blown fuses.



⚠ WARNING

Electrical Shock Hazard

Disconnect power before servicing.
Replace all panels before operating.
Failure to do so can result in death or electrical shock.

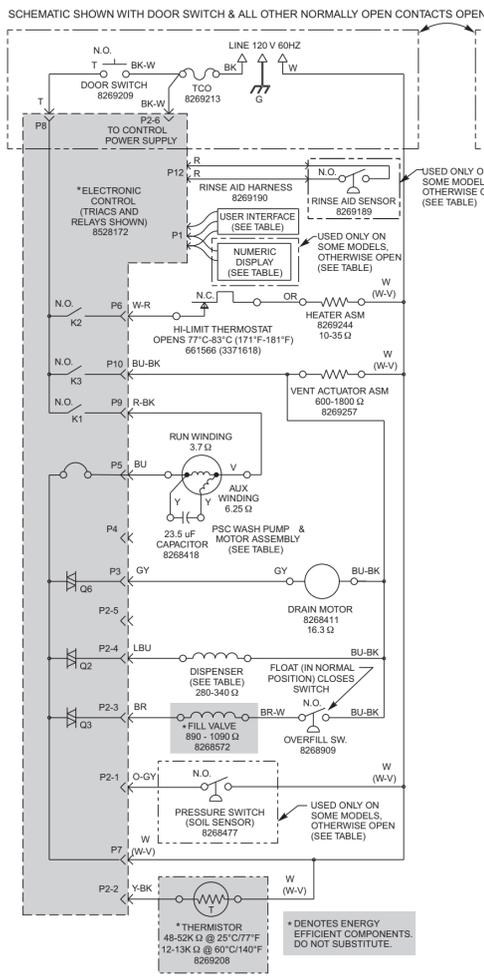
Electrostatic Discharge (ESD) Sensitive Electronics

ESD problems are present everywhere. ESD may damage or weaken the electronic board. The new board may appear to work well after repair is finished, but failure may occur at a later date due to ESD stress.

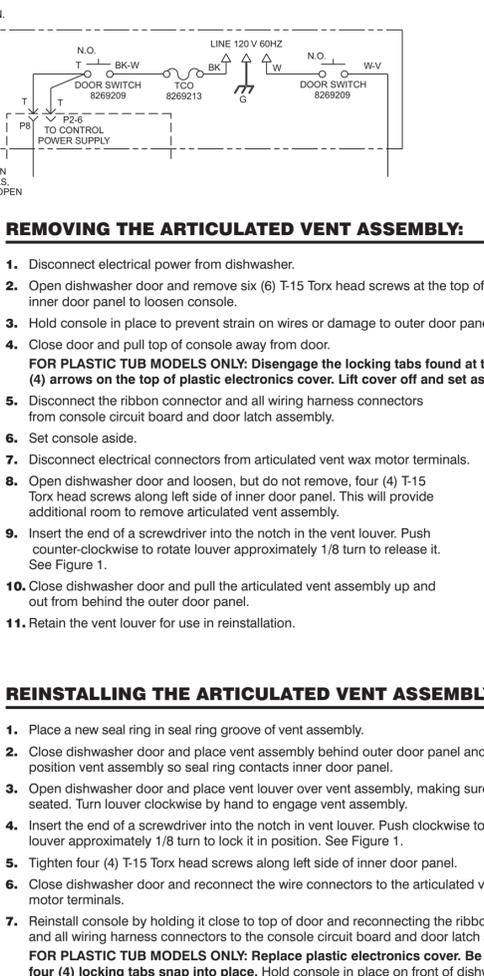
- Use an anti-static wrist strap. Connect wrist strap to green ground connection point or unpainted metal in the appliance.
- Before removing the part from its package, touch the anti-static bag to a green ground connection point or unpainted metal in the appliance.
- Avoid touching electronic parts or terminal contacts; handle electronic board by edges only.
- When repackaging failed electronic board in anti-static bag, observe above instructions.

PIN NUMBER	DESCRIPTION	WIRE COLOR
P1	Ribbon Cable to User Interface	—
P2-1	Pressure Switch (Soil Sense)	O-GY
P2-2	Thermistor	Y-BK
P2-3	Fill Valve	BR
P2-4	Dispenser	LBU
P2-5	Open	—
P2-6	L1 to Control Power Supply	T or BK/W
P3	Drain Motor	GY
P4	Open	—
P5	Motor Run Winding	BU
P6	Switched L1 to Heater	W-R
P7	AC Neutral	W-V
P8	Switched L1 from TCO for Loads	T
P9	Switched L1 to Motor Common	R-BK
P10	Switched L1 to Vent, Fill Valve, Dispenser, & Pressure Switch	BU-BK
P12	Optional Rinse Aid Sensor	RED

STAINLESS STEEL TUB PLATFORM WIRING DIAGRAM

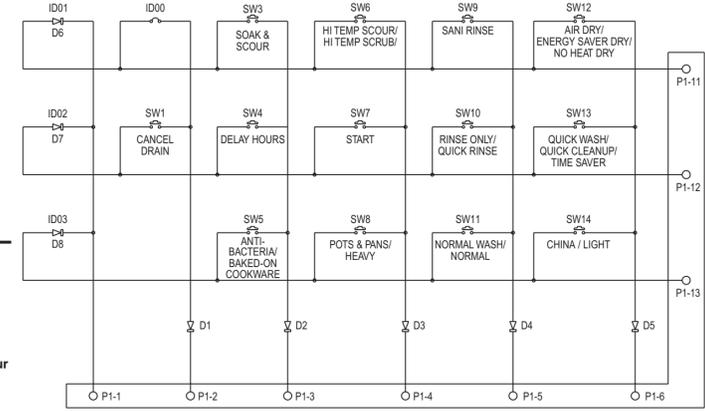


PLASTIC TUB PLATFORM WIRING DIAGRAM



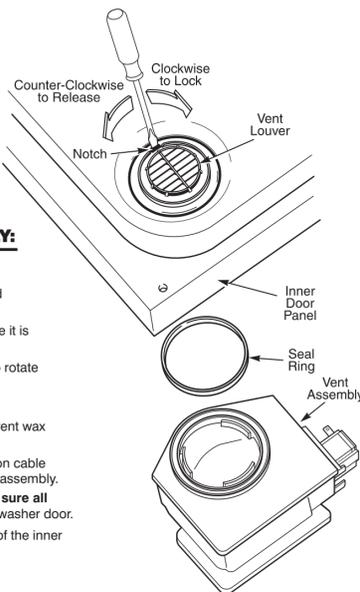
* DENOTES ENERGY EFFICIENT COMPONENTS. DO NOT SUBSTITUTE.

USER INTERFACE SWITCH MATRIX
(Note: Switches may not appear on all models, ID's vary by model.)



REMOVING THE ARTICULATED VENT ASSEMBLY:

1. Disconnect electrical power from dishwasher.
2. Open dishwasher door and remove six (6) T-15 Torx head screws at the top of inner door panel to loosen console.
3. Hold console in place to prevent strain on wires or damage to outer door panel.
4. Close door and pull top of console away from door.
5. Disconnect the ribbon connector and all wiring harness connectors from console circuit board and door latch assembly.
6. Set console aside.
7. Disconnect electrical connectors from articulated vent wax motor terminals.
8. Open dishwasher door and loosen, but do not remove, four (4) T-15 Torx head screws along left side of inner door panel. This will provide additional room to remove articulated vent assembly.
9. Insert the end of a screwdriver into the notch in the vent louver. Push counter-clockwise to rotate louver approximately 1/8 turn to release it. See Figure 1.
10. Close dishwasher door and pull the articulated vent assembly up and out from behind the outer door panel.
11. Retain the vent louver for use in reinstallation.



REINSTALLING THE ARTICULATED VENT ASSEMBLY:

1. Place a new seal ring in seal ring groove of vent assembly.
2. Close dishwasher door and place vent assembly behind outer door panel and position vent assembly so seal ring contacts inner door panel.
3. Open dishwasher door and place vent louver over vent assembly, making sure it is seated. Turn louver clockwise by hand to engage vent assembly.
4. Insert the end of a screwdriver into the notch in vent louver. Push clockwise to rotate louver approximately 1/8 turn to lock it in position. See Figure 1.
5. Tighten four (4) T-15 Torx head screws along left side of inner door panel.
6. Close dishwasher door and reconnect the wire connectors to the articulated vent wax motor terminals.
7. Reinstall console by holding it close to top of door and reconnecting the ribbon cable and all wiring harness connectors to the console circuit board and door latch assembly.
8. Open dishwasher door and reinstall six (6) T-15 Torx head screws at top of the inner door panel.
9. Reconnect electrical power to dishwasher.

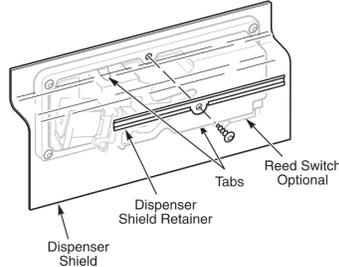


Figure 2 — Stainless Steel Models

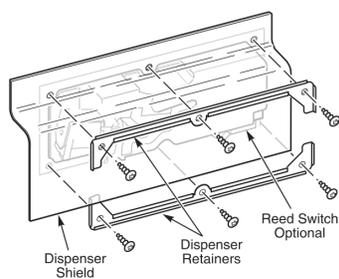


Figure 3 — Plastic Models

Figure 1 — Articulated Vent Assembly

REMOVING THE DETERGENT AND RINSE AID DISPENSER:

1. Disconnect electrical power from dishwasher.
2. Open dishwasher door and remove eight (8) T-15 Torx head screws from inner door panel.
3. Hold outer door panel in place and close dishwasher door. Remove outer door panel by pulling top out approximately 1 inch and then pulling up.
4. Disconnect electrical connections to the detergent dispenser solenoid and rinse aid dispenser switch.
5. **Stainless Steel Tub Models Only:**
 - a) Remove the top center hex head screw from the dispenser assembly and remove dispenser shield. Set dispenser shield aside. See Figure 2.
 - b) Remove remaining five (5) hex head screws from dispenser assembly.
 - c) Lift two (2) locking tabs away from dispenser assembly to free it for removal.
6. **Plastic Tub Models Only:**
 - a) Remove the six screws. See Figure 3.
 - b) Remove the two dispenser retainers and dispenser shield if present.
7. Open dishwasher door approximately 1/3 of the way and remove the dispenser assembly from inside the door.

REINSTALLING THE DETERGENT AND RINSE AID DISPENSER:

1. Open the dishwasher door and insert the dispenser assembly into the cutout in inner door panel.
2. **Stainless Steel Tub Models Only:**
 - a) Reinstall five (5) hex head screws to secure dispenser assembly to inner door panel.
 - b) Place dispenser shield in position over dispenser assembly and secure it with the remaining hex head screw in the top center position. See Figure 2.
3. **Plastic Tub Models Only:**
 - a) Install the bottom retainer and the three screws.
 - b) Install the dispenser shield dispenser (if used), top retainer and screws. See Figure 3.
4. Reconnect electrical connectors to the detergent dispenser solenoid and rinse aid dispenser switch.
5. Place outer door panel in position on door frame by sliding panel down into key slots in door frame and pushing top of panel into place.
6. Hold outer door panel in position and open dishwasher door.
7. Reinstall the eight (8) T-15 Torx head screws in the inner door panel.
8. Reconnect electrical supply to dishwasher.

MODEL NUMBER	REFERENCE		USER INTERFACE	JUMPER TAILS	INTERCONNECT CARD	NUMERIC DISPLAY	PUMP & MOTOR ASSEMBLY	PRESSURE SWITCH	DISPENSER	RINSE AID SENSOR	RINSE AID HARNESS	WIRING HARNESS
	ENERGY STAR	SPINNING CLOCK										
1x95x (DW3)	NO		8269737 (TOP) 8269738 (FRONT)	8269739	8269207							
1x93x (DW2)			8269629				8268422		8269121	8269189	8269190	8269191
1x92x (DW1.5)	YES	NO	8269628			8269205		8268477				
1x91x (DW1)			8269627	N/A	N/A							
1x88x (DF9V)	NO		8269626									
1x87x (DF8V)			8269625									
KUDS01FK		N/A	8270168	8524447	N/A	N/A						
KUDS01DJ		YES	8269200 or 8524431 (TOP) 8269201 (FRONT)	8269202	8269207	8269206		8268477				
KUDS01IJ			8269199									
KUDR01TJ	YES		8269198	N/A			8268422		8269996			8269191
KUDM01FK			8270169	8524447	N/A							
KUDM01TJ		N/A	8269197			N/A						
KUDJ01TJ			8270258					N/A				
KUDI01TJ			8269196									
GU1500	NO	YES	8269330		N/A	8269206						
GU1200		N/A	8269332		N/A	N/A	8268413	8268477	8270034	8269189	8269190	8269734

COMMON CYCLE TIME CHART NOTES

NOTE 1 – CYCLE MODIFICATIONS BASED ON SENSOR INPUTS

The control monitors food soil and temperature sensors during the first four intervals of the cycle (intervals 45-42) to determine what sensor based cycle modifications are appropriate. The modifications made to the cycle depend on the cycle and options selected as well as the sensor inputs. Note the interval skip arrows and thermal hold temperature changes on the time chart for each version of the cycle.

In addition to being able to modify the cycle itself based on soil sensor input, the APF (Automatic Purge Filtration) wash system allows the control to continuously filter and flush food soil out of the pump during "APF enabled" intervals scattered throughout each cycle and do it without interrupting the cycle (see note 2 on APF).

(a) Antibacteria/Cookware, Pots and Pans/Heavy, Normal, and China/Light Cycles

The control assumes that the worst case cycle (the high soil version) is going to be required until the true soil level is determined. The soil level is determined by counting the number of pressure switch (soil sensor) trips that occur in the first APF interval of the cycle (interval 42). If no trips are detected in interval 42, the control modifies the remainder of the cycle to match the low soil/non-sensor version of the cycle. If one or more trips are detected in interval 42, the control continues with the high soil version of the cycle.

Note: Energy Star models have a different low soil/non-sensor version of the Normal cycle than other models (see Model Specifics table to identify Energy Star models).

Note: Models without pressure switches (soil sensors) never get sensor trips and thus always default to the low soil/non-sensor version of the cycle and never execute APF purges. (See Model Specifics Table to identify models without pressure switches).

Note: The H.T. Scour/H.T. Scrub option and/or Soak&Scour option can override or alter the soil-based cycle modifications (see notes 14 and 17).

(B) Quick Wash/Quick CleanUp/Time Saver Cycles

The control does NOT modify the Q.Wash/Q.CleanUp/Time Saver cycle based on soil level. Instead, it modifies the cycle based on incoming water temperature detected during the first fill interval of the cycle (interval 45). The control assumes the worst case cycle (Cool First Fill version) will be required until the end of interval 42. At the end of interval 42, it modifies the remainder of the cycle based on the inlet water temperature it actually detected in the first fill. If the water was > 135°F/57°C it changes to the "Hot First Fill" version of the cycle. If the water was less than 135°F, it will continue with the "Cool First Fill" version of the cycle. The "Cool First Fill" version of the cycle basically contains an extra drain and fill prior to the main wash to increase the initial water temperature for the main wash and reduce the time needed to heat the water.

Like other cycles, the Q.Wash/Q.CleanUp/Time Saver cycle does allow APF purges to occur (in APF intervals) if pressure switch trips occur but the Q.Wash/Q.CleanUp/Time Saver cycle timing itself is not modified based on pressure switch trips or soil level.

(c) Rinse Only/Quick Rinse Cycle

The control does NOT modify the Rinse Only/Quick Rinse cycle based on sensor inputs. Like other cycles, it does allow APF purges to occur (in APF intervals) if pressure switch trips occur but the Rinse Only/Quick Rinse cycle timing itself is not modified based on any sensor inputs.

NOTE 2 – APF ENABLED INTERVALS

The APF (Automatic Purge Filtration) wash system allows the control to continuously filter and flush food soil out of the pump during "APF enabled" intervals scattered throughout each cycle and do it without interrupting the cycle. The control monitors the pressure switch (soil sensor) input during each of the APF enabled intervals in the cycle (see time chart). Whenever a pressure switch trip is detected in one of these APF intervals, the control executes a 10-second "APF purge" to clear the pump of soil.

These APF purges occur in parallel with the cycle and do not interrupt or affect the timing of other functions (like washing) that are called for in the interval. Each APF purge consists of 5 seconds of Fill and Drain followed immediately by 5 seconds of fill by itself. If an APF purge is executed during a heated wash interval, the heater must be turned off during the first 5-second Fill and Drain portion of each purge, but cycle timing is not affected and the heater turns back on mid-way through the purge.

Multiple APF purges can occur within each APF interval of the cycle but are limited by certain frequency and quantity limits:

- APF purges must be spaced at least 60 seconds apart within any given APF interval (the pressure switch will be ignored prior to 60 seconds).

- The maximum number of APF purges allowed within a given APF interval is specified on the time chart in that interval (the pressure switch will be ignored for the duration of an APF interval once the maximum APF limit for that interval has been exceeded). In interval 33, the limit is "1" for 120°F thermal holds and "3" for all other thermal hold setpoint temperatures.

Note: Models without pressure switches (soil sensors) never get sensor trips and thus never execute APF purges. (See Model Specifics Table to identify models without pressure switches).

NOTE 3 – WATER HEATING THERMAL HOLD INTERVALS

During water heating thermal holds (intervals 40, 33, & 15), cycle timing is interrupted and the dishwasher continues washing while it heats the water to the setpoint temperatures specified on the time chart for each version of the cycle. The Water Heating and Sensing indicators are turned on and the cycle time displayed by models with numeric displays is frozen during thermal hold intervals (see notes 5, 6, & 7). The dishwasher will hold in this suspended, water heating mode until the water reaches the temperature specified for the thermal hold or a maximum default time limit for the thermal hold (below) expires. At the conclusion of the thermal hold, the control resumes normal operation and timing and proceeds to the next interval.

The default maximum time limits for all the thermal hold intervals are as follows (in minutes):

	Pre-Wash	Main Wash	Final Rinse	Final Rinse with Sani/Rinse
Anti-bacteria/Cookware	30	35	50	(50)
Pots & Pans/Heavy	30	35	30	(50)
Normal	-	45	40	(60)
China/Light	-	45	30	-

(Q.Wash/Q.CleanUp/Time Saver and Quick Rinse/Rinse Only cycles have no thermal hold intervals.)

NOTE 4 – THERMALLY CAPPED INTERVALS

Interval 34 is a heated wash interval thermally capped at 150°F/66°C. Interval 10 is only heated for the Q.Wash/Q.CleanUp/Time Saver cycle and is thermally capped in that situation at 150°F/66°C. Anytime the thermal cap temperature is exceeded during one of these intervals, the heater will turn off, but the dishwasher will continue washing for the duration of the interval.

NOTE 5 – NUMERIC CYCLE TIME DISPLAY

Some models with numeric cycle time displays show an animated spinning clock pattern during the first four intervals of the cycle (intervals 45-42) while sensor based cycle modifications (and true time remaining) are being determined. Other models simply display the worst case cycle time remaining (in minutes) until the end of interval 42. See the Model Specifics Table to identify models with numeric displays and which models exhibit the animated clock pattern. At the end of interval 42, all models with numeric displays will begin displaying a corrected cycle time (in minutes). From here on, the display clocks down normally, minute by minute, through the rest of the cycle.

Note: Cycle time does not include time spent in thermal holds; the time on the display at the start of the thermal hold is frozen until the end of the thermal hold (see notes 3 & 6).

NOTE 6 – WATER HEATING (THERMAL HOLD) STATUS INDICATOR

The Water Heating Indicator is turned on during all thermal hold intervals to signal that cycle timing, display sequencing, and numeric cycle time display countdown operations have been suspended or frozen while the water is heated to the proper temperature (see note 3).

NOTE 7 – SOAKING/SENSING & SOAKING STATUS INDICATORS

In general, the Soaking/Sensing indicator is primarily a "sensing" indicator and is turned on during cycles whenever the control is monitoring sensors or still making decisions based on sensor inputs. Specifically this includes all APF intervals, all thermal hold intervals, and the first four intervals of each cycle (see notes 1, 2, and 3).

The Soaking/Sensing indicator also turns on during "soaking" events like the "soaking/pause" intervals in the Energy Star low soil/non-sensor version of the Normal cycle (see note 9) and the 4-hour pre-soak invoked by the Soak&Scour option (see note 17). A dedicated Soaking indicator is available

COMMON CYCLE TIME CHART

INTERVAL	NOTES 1A,14A,15,16,17											
ANTI-BACTERIA / BAKED-ON COOKWARE	NOTES 1A,14A,15,16,17											
INTERVAL TIME (min:sec)												
WITH SOAK&SCOUR OPTION (or "SOAK&SCOUR and H.T. SCOUR/H.T. SCRUB" options) – ANY SOIL LEVEL	NOTE 17 4hr + 99:00 w/o Th.Holds											
NUMERIC DISPLAY CYCLE TIME (spinning "CLOCK" pattern in INTERVALS 45-42 for some models, see NOTE 5)												
WITH H.T. SCOUR / H.T. SCRUB OPTION – ANY SOIL LEVEL	NOTE 14A 99:00 w/o Th.Holds											
NUMERIC DISPLAY CYCLE TIME (spinning "CLOCK" pattern in INTERVALS 45-42 for some models, see NOTE 5)												
HIGH SOIL [Soil sensed in Interval 42]	NOTE 1A 99:00 w/o Th.Holds											
NUMERIC DISPLAY CYCLE TIME (spinning "CLOCK" pattern in INTERVALS 45-42 for some models, see NOTE 5)												
LOW SOIL (or Non-Sensor Model) [No soil sensed in Interval 42]	NOTE 1A 91:25 w/o Th.Holds											
NUMERIC DISPLAY CYCLE TIME (spinning "CLOCK" pattern in INTERVALS 45-42 for some models, see NOTE 5)												
POTS & PANS / HEAVY	NOTES 1A,14A,15,16,17											
INTERVAL TIME (min:sec)												
WITH SOAK&SCOUR OPTION (or "SOAK&SCOUR and H.T. SCOUR/H.T. SCRUB" options) – ANY SOIL LEVEL	NOTE 17 4hr + 87:00 w/o Th.Holds											
NUMERIC DISPLAY CYCLE TIME (spinning "CLOCK" pattern in INTERVALS 45-42 for some models, see NOTE 5)												
WITH H.T. SCOUR / H.T. SCRUB OPTION – ANY SOIL LEVEL	NOTE 14A 97:00 w/o Th.Holds											
NUMERIC DISPLAY CYCLE TIME (spinning "CLOCK" pattern in INTERVALS 45-42 for some models, see NOTE 5)												
HIGH SOIL [Soil sensed in Interval 42]	NOTE 1A 97:00 w/o Th.Holds											
NUMERIC DISPLAY CYCLE TIME (spinning "CLOCK" pattern in INTERVALS 45-42 for some models, see NOTE 5)												
LOW SOIL (or Non-Sensor Model) [No soil sensed in Interval 42]	NOTE 1A 89:25 w/o Th.Holds											
NUMERIC DISPLAY CYCLE TIME (spinning "CLOCK" pattern in INTERVALS 45-42 for some models, see NOTE 5)												
NORMAL	NOTES 1A, 9, 14B, 15, 16											
INTERVAL TIME (min:sec)												
HIGH SOIL WITH H.T. SCOUR / H.T. SCRUB OPTION [Soil sensed in Interval 42]	NOTE 14B 95:00 w/o Th.Holds											
NUMERIC DISPLAY CYCLE TIME (spinning "CLOCK" pattern in INTERVALS 45-42 for some models, see NOTE 5)												
HIGH SOIL [Soil sensed in Interval 42]	NOTE 1A 95:00 w/o Th.Holds											
NUMERIC DISPLAY CYCLE TIME (spinning "CLOCK" pattern in INTERVALS 45-42 for some models, see NOTE 5)												
LOW SOIL (or Non-Sensor Model) WITH H.T. SCOUR / H.T. SCRUB OPTION [No soil sensed in Interval 42]	NOTE 14B 87:25 w/o Th.Holds											
NUMERIC DISPLAY CYCLE TIME (spinning "CLOCK" pattern in INTERVALS 45-42 for some models, see NOTE 5)												
LOW SOIL (or Non-Sensor Model) [No soil sensed in Interval 42]	NOTE 1A 87:25 w/o Th.Holds											
NUMERIC DISPLAY CYCLE TIME (spinning "CLOCK" pattern in INTERVALS 45-42 for some models, see NOTE 5)												
ENERGY STAR MODELS	NOTE 1A 78:20 w/o Th.Holds											
NUMERIC DISPLAY CYCLE TIME (spinning "CLOCK" pattern in INTERVALS 45-42 for some models, see NOTE 5)												
CHINA/LIGHT	NOTES 1A,10,16											
INTERVAL TIME (min:sec)												
HIGH SOIL [Soil sensed in Interval 42]	NOTE 1A 78:25 w/o Th.Holds											
NUMERIC DISPLAY CYCLE TIME (spinning "CLOCK" pattern in INTERVALS 45-42 for some models, see NOTE 5)												
LOW SOIL (or Non-Sensor Model) [No soil sensed in Interval 42]	NOTE 1A 70:20 w/o Th.Holds											
NUMERIC DISPLAY CYCLE TIME (spinning "CLOCK" pattern in INTERVALS 45-42 for some models, see NOTE 5)												
QUICK WASH / QUICK CLEANUP / TIME SAVER	NOTES 1B,11,16											
INTERVAL TIME (min:sec)												
COOL FIRST FILL [Sensed inlet water <135°F in Interval 45]	NOTE 1B 47:35											
NUMERIC DISPLAY CYCLE TIME (spinning "CLOCK" pattern in INTERVALS 45-42 for some models, see NOTE 5)												
HOT FIRST FILL [Sensed inlet water >135°F in Interval 45]	NOTE 1B 43:55											
NUMERIC DISPLAY CYCLE TIME (spinning "CLOCK" pattern in INTERVALS 45-42 for some models, see NOTE 5)												
RINSE ONLY/QUICK RINSE	NOTE 1C											
INTERVAL TIME (min:sec)												
ALL MODELS & CONDITIONS (No cycle changes based on sensor inputs)	NOTE 1C 9:45											
NUMERIC DISPLAY CYCLE TIME (spinning "CLOCK" pattern in INTERVALS 45-42 for some models, see NOTE 5)												
"RINSE ONLY/QUICK RINSE" CYCLE PROGRESSION & STATUS INDICATORS [All other prog./status LED's off]	NOTE 7											
SOAKING/SENSING												
WASHING/RINSING (PROG BAR R2) [This LED will be used on models with no Rinsing LED and will be labeled as "WASHING"]												
RINSING												
CYCLE PROGRESSION & STATUS INDICATORS												
PROG BAR W1												
PROG BAR W2												
WASHING (PROG BAR W3)												
PROG BAR R1												
WASHING/RINSING (PROG BAR R2) [This LED will be used on models with no Rinsing LED and will be labeled as "WASHING"]												
RINSING												
DRYING												
SOAKING	NOTE 7											
SOAKING/SENSING	NOTE 7											
ADD-A-DISH												
WATER HEATING (THERMAL HOLD INDICATOR)	NOTE 6											
SANITIZED	NOTES 3,15											
CLEAN	NOTE 8											
OUTPUT LOADS												
WASH MOTOR (MAIN WINDING)												
DRAIN MOTOR	NOTE 2											
FILL	NOTE 2											
APF ENABLED INTERVALS – Max # of APF Purges (Spec Fill & Drain, then Spec Fill) allowed in Interval	max 3											
DETERGENT / RINSE AID DISPENSER	NOTE 2											
VENT												
HEATER	NOTES 4,10,11,16											

4-HOUR PRE-SOAK (WITH SOAK&SCOUR OPTION ONLY)														
1:35	0:05	0:05	8:00	8:00	1:30	1:00	1:00	1:35	0:05	0:05	4:00	2:00	1:00	1:00
4H	4H	4H	4H	4H	1H	1H	1H	4H	4H	4H	4H	1H	1H	1H
1:35	0:05	0:05	8:00	8:00	1:30	1:00	1:00	1:35	0:05	0:05	4:00	2:00	1:00	1:00
4H	4H	4H	4H	4H	1H	1H	1H	4H	4H	4H	4H	1H	1H	1H
17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
14	11	14												
2	2	2	2	2										
NOTES														

PERIOD 1 PRE-WASH																	
45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28
1:35	0:05	0:05	4:00	2:00	1:00	1:00	1:00	1:35	0:05	0:05	4:00	2:00	1:00	1:00	1:00	1:00	1:00
99	98	98	98	94	92	92	91	90	88	88	87	87	67	63	62		
135°F/57°C																	
99	98	98	98	94	92	92	91	90	88	88	87	87	67	63	62		
130°F/54°C																	
99	98	98	98	94	92	92	91	90	88	88	87	87	67	63	62		
130°F/54°C																	
99	98	98	98	86	84	84	83	82	81	80	80	60	56	55			
145°F/63°C																	
97	96	96	96	92	90	90	89	88	86	86	85	85	67	63	62		
135°F/57°C																	
97	96	96	96	92	90	90	89	88	86	86	85	85	67	63	62		
130°F/54°C																	
97	96	96	96	92	90	90	89	88	86	86	85	85	67	63	62		
130°F/54°C																	
97	96	96	96	84	82	82	81	80	79	78	78	78	60	56	55		
140°F/60°C																	
1:35	0:05	0:05	4:00	2:00	1:00	1:00	1:00	1:35	0:05	0:05	4:00	2:00	1:00	1:00	1:00	1:00	1:00
145°F/63°C																	
195	94	94	94	90	88	87	86	84	84	84	83	83	67	63	62		
145°F/63°C																	
195	94	94	94	90	88	87	86	84	84	84	83	83	67	63	62		
140°F/60°C																	
195	94	94	94	82	80	79	78	77	77	76	76	76	60	56	55		
145°F/63°C																	
195	94	94	94	82	80	79	78	77	77	76	76	76	60	56	55		
130°F/54°C																	
195	94	94	94	82	80	79	78	77	77	76	76	76	60	56	55		
120°F/49°C																	
1:35	0:05	0:05	4:00	2:00	1:00	1:00	1:00	1:35	0:05	0:05	4:00	2:00	1:00	1:00	1:00	1:00	1:00
145°F/63°C																	
179	77	77	77	73	71	70	69	68	67	67	60	60	56	55			
120°F/49°C																	
179	77	77	77	65	63	62	61	59	59	59	52	52	48	47			
120°F/49°C																	
1:35	0:05	0:05	0:35	0:35	1:00	1:00	1:00	1:35	0:05	0:05	4:00	2:00	1:00	1:00	1:00	1:00	1:00
145°F/63°C																	
148	46	46	46	46	45	44	43	42	41	41	41	41	34	33			
140°F/60°C																	
148	46	46	46	42	41	41	41	41	41	41	41	41	34	33			
140°F/60°C																	
110	9	9	9	4	2	1											
120°F/49°C																	
1	3	14	17														
NOTES																	

PERIOD 2 MAIN WASH												
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