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
- 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.)

5,018,550 5,039,828

5,069,360 5,165,433

4,673,441 4,693,526

4,758,057 4,776,620

Tine Tip Kit No. 675679 MANUFACTURED UNDER ONE OR MOR OF THE FOLLOWING CANADIAN PATENTS 2,001,663 2,049,828 2,022,831 2,053,752 2,075,25

PIN DESCRIPTION NUMBER 6.8 liters (1.8 gallons) / first fill approx. P1 Ribbon Cable to User Interface P2-1 Pressure Switch (Soil Sense) P2-2 Thermistor P2-3 Fill Valve P2-4 Dispense P2-5 Open P2-6 L1 to Control Power Supply P3 Drain Motor P4 Open P5 Motor Run Winding P6 Switched L1 to Heater P7 AC Neutral P8 Switched L1 from TCO for Loads Switched L1 to Motor Common P9 Switched L1 to Vent, Fill Valve,

Dispenser, & Pressure Switch

Optional Rinse Aid Sensor

or electrical shock.

unpainted metal in the appliance

 $-\Omega R$

Before removing the part from its package,

anti-static bag, observe above instructions.

ESD stress.

appliance.

appliance.

P10

P12

only.

Electrostatic Discharge (ESD)

Sensitive Electronics

WIRING DIAGRAM



DISHWASHER CIRCUITS

OTHER PATENTS PENDING

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









Lower Spray Arm Rotation: 25 to 40 rpm. Upper Spray Arm Rotation: 25 to 35 rpm. **REPAIR KITS** Vinyl Rack Patch Kit No. 676453

6.5 liters (1.7 gallons) / all other fills.

Water Charge:

MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING UNITED STATES PATENTS 4,559,959 4,927,033 5,165,435 5,881,90 5,202,582 5,474,378 5,882,739 5,900,070 5,760,493 5,803,100 5,909,743 5,924,433 OTHER PATENTS PENDING DES314.256 DES393.333

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REMAIN W

PLASTIC TUB MODELS,

CIRCUIT & W-V WIRES

OTHERWISE CONTINUOUS



8269200 or KUDS01DJ 8524431 (TOP) 8269207 3269202 8268477 8269206 8269189 8269190 YES 269201 (FRONT) KUDS01IJ 8269199 N/A KUDR01TJ 8269191 8269198 8268422 8269996 YES KUDM01FK 8270169 8524447 N/A KUDM01TJ N/A 8269197 N/A N/A N/A KUDJ01TJ N/A 8270258 N/A KUDI01TJ 8269196 GU1500 YES 8269330 8269206 8269734 NO N/A N/A 8268413 8268477 8270034 8269189 8269190 GU1200 N/A 8269332 N/A

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 agoing 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 cvcle (interval 45). The control assumes the worst case cvcle (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 cy-. 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 "API 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 econds)
- 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 APE 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
- hermal 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

SANITIZED

(a) Clean

the door is closed again).

(b) Sanitized Comes on at the end of all cycles completed with the Sani Rinse option se-

Comes on at the end of every cycle except Rinse Only/Quick Rinse.

NOTE 8 - 'END-OF-CYCLE' STATUS INDICATORS - CLEAN and

Both end-of-cycle indicators (Clean and Sanitized) turn on at the end of a

cycle and turn off upon pressing any key or opening and closing the door

(note: the indicators stay on as the door is opened but turn off as soon as

lected (see note 15). If the Sani Rinse option is completed successfully, the indicator is turned on steady at the end of the cycle. If the Sani Rinse was unsuccessful (see below), the indicator will flash 1/2 second on, 1/2 second off, repeatedly, at the end of the cycle. The Sani Rinse will be deemed unsuccessful (& flash the indicator) if:

- (1) The thermal hold in the final rinse (interval 15) fails to reach the equired 160°F/71°C before timing out on its default time limit.
- (2) The door is opened and/or power is interrupted between the end of
- the final rinse thermal hold (interval 15) and the end of the cycle.

NOTE 9 – SOAKING/PAUSE INTERVALS – ENERGY STAR NORMAL CYCLE ONLY

Intervals 13 and 32 are mid-cycle soaking/pause intervals and are only used in the Energy Star low soil/non-sensor version of the Normal cycle. The control stops washing and turns all loads off except the vent in these intervals. The intent is to let the wash water that's on the dishes soften and loosen the food soil that's on the dishes, energy free. The Soaking and Soaking/Sensing indicators are turned on during these intervals (see note 7).

NOTE 10 – PULSED DRY – CHINA/LIGHT CYCLE ONLY

The China/Light cycle (on all models) turns the heater off in intervals 1, 3, and 5 of the dry period to create a gentler "pulsed" dry.

NOTE 11 – HEATER ON – QUICK WASH/QUICK CLEANUP/TIME SAVER CYCLE ONLY

To make up for no water heating thermal holds, the heater is turned on in intervals 10-12, 14, and 41-42 of the Q.Wash/Q.CleanUp/Time Saver cycle. The heater in interval 10 of the Q.Wash/Q.CleanUp/Time Saver cycle is thermally capped at 150°F/66°C (see note 4).

NOTE 12 – SPECIAL VENT & PULSED DRY OPERATION – KUDSO1FK AND KUDM01FK MODELS ONLY

For the KUDS01FK and KUDM01FK fully integrated door models only, the vent is on top of the door (and thus directly under the countertop), so the control makes the following special changes:

- Keeps the vent closed for the entire dry period (including intervals 1-6) or
- until the door is opened, whichever comes first. Turns the heater off in dry intervals 1, 2, 3, and 5 for all cycles with Sani
- Rinse selected (see note 15).
- Keeps the vent closed at the end of the cycle for an additional 4 hours or until the door is opened, whichever comes first. Keeping the vent closed after the cycle allows the temperature inside the dishwasher to fall and moisture inside to condense to minimize the steam that exits the vent when the vent opens.

COMMON CYCLE TIME CHART		4-HOUR PRE-SOAK	PERIOD 1	PERIOD 2	PERIOD 3	PERIOD 4	PERIOD 5
NTERVAL	NOTES 1A,14A,15,16,17		45 44 43 42 41 40 39 38	37 36 35 34 33 32 31 30 29 28	27 26 25 24 23 22 21 20 19 18	17 16 15 14 13 12 11 10 9 8	7 6 5 4 3 2 1
NTERVAL TIME (min:sec)		1:35 0:05 8:00 8:00 8:00 1:30 1:00	K K K K K THERMAL HOLD K <thk< th=""> <th< th=""><th>Signature Signature <t< th=""><th>6:00 6:00 1:00 1:00 1:00 1:00 1:00</th><th>13 10<</th><th>6:00 6:00 6:00 6:00 6:00 6:00 2:00</th></t<></th></th<></thk<>	Signature Signature <t< th=""><th>6:00 6:00 1:00 1:00 1:00 1:00 1:00</th><th>13 10<</th><th>6:00 6:00 6:00 6:00 6:00 6:00 2:00</th></t<>	6:00 6:00 1:00 1:00 1:00 1:00 1:00	13 10<	6:00 6:00 6:00 6:00 6:00 6:00 2:00
VITH 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			[145°F / 63°C]		[160°F / 71°C]	
NUMERIC DISPLAY CYCLE TIME (spinning "CLOCK" pattern in INTERVALS 45-42 for some models, see NOTE 5) /ITH H.T. SCOUR / H.T. SCRUB OPTION – ANY SOIL LEVEL	NOTE 14A 99 : 00 w/o Th.Holds	4H 4H 4H 4H 1H 1H	[99] [98] [98] [98] 94 92 92 91 [135°F / 57°C]	90 88 88 87 87 67 63 62 [145°F/63°C]		44 43 42 42 41 40 39 32 32 1 160°F / 71°C 1 1 1 1 1 1 1	30 24 18 16 10 8 2
NUMERIC DISPLAY CYCLE TIME (spinning "CLOCK" pattern in INTERVALS 45-42 for some models, see NOTE 5) IGH SOIL [Soil sensed in Interval 42]	NOTE 1A 99 : 00 w/o Th.Holds		[99] [98] [98] 94 92 92 91	90 88 88 87 87 67 63 62 [145°F / 63°C]	61 60 54 53 52 50 46 45	44 43 42 42 41 40 39 32 32 44 43 42 42 41 40 39 32 32 44 43 42 42 41 40 39 32 32 44 43 42 42 41 40 39 32 32	30 24 18 16 10 8 2
NUMERIC DISPLAY CYCLE TIME (spinning "CLOCK" pattern in INTERVALS 45-42 for some models, see NOTE 5)	NOTE 1A 91 : 25 w/o Th Holds		[99] [98] [98] [98] 94 92 92 91	90 88 88 87 87 67 63 62	<u>61 60 54 53</u> 52 50 46 45	44 43 42 42 41 40 39 32 32 [160°E / 71°C]	30 24 18 16 10 8 2
NUMERIC DISPLAY CYCLE TIME (spinning "CLOCK" pattern in INTERVALS 45-42 for some models, see NOTE 5)			[99] [98] [98] [98] 86 84 84 85	82 81 80 80 80 60 55	54 52 46 45	44 43 42 42 41 40 39 32 32	30 24 18 16 10 8 2
OTS & PANS / HEAVY	NOTES 1A,14A,15,16,17						
NTERVAL TIME (min:sec)		1:35 1:35 0:05 0:05 8:00 8:00 8:00 1:30 1:30	See See <td>1 2 2 2 THERMAL HOLD 8 6 7 7 0 <t< td=""><td>1:35 1:36 1:00 1:35</td><td>1 1</td><td>6:00 6:00 6:00 6:00 6:00</td></t<></td>	1 2 2 2 THERMAL HOLD 8 6 7 7 0 <t< td=""><td>1:35 1:36 1:00 1:35</td><td>1 1</td><td>6:00 6:00 6:00 6:00 6:00</td></t<>	1:35 1:36 1:00 1:35	1 1	6:00 6:00 6:00 6:00 6:00
/ITH SOAK&SCOUR OPTION (or "SOAK&SCOUR and H.T. SCOUR/H.T. SCRUB" options) – ANY SOIL LEVEL	NOTE 17 4hr + 97 : 00 w/o Th.Holds			[145°F / 63°C]		[140°F / 60°C]	
NUMERIC DISPLAY CYCLE TIME (spinning "CLOCK" pattern in INTERVALS 45-42 for some models, see NOTE 5)	NOTE 14A 97 · 00 w/o Th Holds	4H 4H 4H 4H 1H 1H	[97] [96] [96] [96] 92 90 90 86 [135°F / 57°C]	88 86 85 85 67 63 62 [145°E / 63°C] [145°E /	61 60 54 53 52 50 46 45	44 43 42 42 41 40 39 32 32	30 24 18 16 10 8 2
NUMERIC DISPLAY CYCLE TIME (spinning "CLOCK" pattern in INTERVALS 45-42 for some models, see NOTE 5)			[97] [96] [96] [96] 92 90 90 85	88 86 86 86 85 67 63 62	61 60 54 53 52 50 46 45	44 43 42 42 41 40 39 32 32	30 24 18 16 10 8 2
IGH SOIL [Soil sensed in Interval 42] NUMERIC DISPLAY CYCLE TIME (spinning "CLOCK" pattern in INTERVALS 45-42 for some models, see NOTE 5)	NOTE TA 97 : 00 w/o Th.Holds		[97] [96] [96] [96] 92 90 90 88	88 86 86 85 85 67 63 62	61 60 54 53 52 50 46 45	44 43 42 42 41 40 39 32 32	30 24 18 16 10 8 2
OW SOIL (or Non-Sensor Model) [No soil sensed in Interval 42] NUMERIC DISPLAY CYCLE TIME (spinning "CLOCK" pattern in INTERVALS 45-42 for some models, see NOTE 5)	NOTE 1A 89 : 25 w/o Th.Holds		[130°F / 54°C] [97] [96] [96] [96] 84 82 82 81	[140°F / 60°C] 80 79 78 78 78 78 60 56 55	54 52 46 45	44 43 42 42 41 40 39 32 32	30 24 18 16 10 8 2
IORMAL	NOTES 1A, 9, 14B, 15,16						
NTERVAL TIME (min:sec)				1 10 </td <td>):15):15):00):00):00):00):00</td> <td>K: K: THERMAL HOLD S: S: S: S: K: K:</td> <td></td>):15):15):00):00):00):00):00	K: K: THERMAL HOLD S: S: S: S: K: K:	
IIGH SOIL WITH H.T. SCOUR / H.T. SCRUB OPTION [Soil sensed in Interval 42]	NOTE 14B 95 : 00 w/o Th.Holds			[145°F / 63°C] →		[140°F / 60°C]	
NUMERIC DISPLAY CYCLE TIME (spinning "CLOCK" pattern in INTERVALS 45-42 for some models, see NOTE 5)			[95] [94] [94] [94] 90 88 87	86 84 83 83 67 63 62	61 60 54 53 52 50 46 45	44 43 42 42 41 40 39 32 32	30 24 18 16 10 8 2
NUMERIC DISPLAY CYCLE TIME (spinning "CLOCK" pattern in INTERVALS 45-42 for some models, see NOTE 5)	NOTE TA 95:00 W/0 TH.Holds		[95] [94] [94] [94] 90 88 87	Image: Non-State State St	61 60 54 53 52 50 46 45	44 43 42 42 41 40 39 32 32	30 24 18 16 10 8 2
OW SOIL (or Non-Sensor Model) WITH H.T. SCOUR / H.T. SCRUB OPTION [No soil sensed in Interval 42] NUMERIC DISPLAY CYCLE TIME (spinning "CLOCK" pattern in INTERVALS 45-42 for some models, see NOTE 5)	NOTE 14B 87 : 25 w/o Th.Holds		[95] [94] [94] [94] 82 80 75	145°F / 63°C] → 78 77 76 76 76 55	54 52 46 45	[140°F / 60°C] 44 43 42 42 41 40 39 32 32	30 24 18 16 10 8 2
OW SOIL (or Non-Sensor Model) [No soil sensed in Interval 42]	NOTE 1A 87 : 25 w/o Th.Holds		[95] [94] [94] [94] 82 80 79	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	54 52 46 45	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	30 24 18 16 10 8 2
OW SOLL (or Non-Sensor Model) [No soil sensed in Interval 42] - ENERGY STAR MODELS	NOTE 1A 78 : 20 w/o Th.Holds			[120°F / 49°C]			
NUMERIC DISPLAY CYCLE TIME (spinning "CLOCK" pattern in INTERVALS 45-42 for some models, see NOTE 5)	NOTES 1A 10 16			0 69 67 67 67 60 60 56 52 51	50 49 49	48 47 46 46 45 41 40 39 32 32	30 24 18 16 10 8 2
					00 00 12 15 15 15 15 15 15 15 15 15 15 15 15 15		
							66 22 66 66 66 66 66 66 66 66 66 66 66 6
IGH SOIL [Soil sensed in Interval 42] NUMERIC DISPLAY CYCLE TIME (spinning "CLOCK" pattern in INTERVALS 45-42 for some models, see NOTE 5)	NOTE TA 78:25 W/o Th.Holds		[79] [77] [77] [77] 73 71 70	[120°F / 49°C] 69 68 67 60 60 55	54 52 46 45	44 43 42 42 41 40 39 32 32	30 24 18 16 10 8 2
OW SOIL (or Non-Sensor Model) [No soil sensed in Interval 42] NUMERIC DISPLAY CYCLE TIME (spinning "CLOCK" pattern in INTERVALS 45-42 for some models, see NOTE 5)	NOTE 1A 70 : 20 w/o Th.Holds		[79] [77] [77] [77] 65 63 62	[120°F / 49°C] 59 59 52 52 52 48 47	46 45 45	44 43 42 42 41 40 39 32 32	30 24 18 16 10 8 2
QUICK WASH / QUICK CLEANUP / TIME SAVER	NOTES 1B,11,16						
NTERVAL TIME (min:sec)				00		2:00 1:00 1:00 1:00 1:00 1:00 1:00 1:00	0000
COL 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)	NOTE 1D 42 55		[48] [46] [46] 46 45 44	43 42 41 41 34 33	32 30 29 28	27 26 25 24 23 22 10 10	8 2
NUMERIC DISPLAY CYCLE TIME (spinning "CLOCK" pattern in INTERVALS 45-42 for some models, see NOTE 5)	NUTE ID 43.00		[48] [46] [46] [46] 42	41 41 33	32 30 29 28	27 26 25 24 23 22 10 10	8 2
RINSE ONLY/QUICK RINSE	NOTE 1C						
NTERVAL TIME (min:sec)			1:35 0:06 2:00 1:00 1:00				
LL MODELS & CONDITIONS (No cycle changes based on sensor inputs) NUMERIC DISPLAY CYCLE TIME (spinning "CLOCK" pattern in INTERVALS 45-42 for some models, see NOTE 5)	NOTE 1C 9 : 45			┫┠┼┼┼┼	┨┠┼┼┼┼┤┠┼┼┼┨		
RINSE ONLY/QUICK RINSE" CYCLE PROGRESSION & STATUS INDICATORS [All other prog./status LED's	off]				┫┣┿┽┽┿┽┥┣┿┽┿┥		
SOAKING/SENSING WASHING/RINSING (PROG BAR R2) (This LED will be used on models with no Rinsing LED and will be labeled as 'WASHING'.)	NOTE 7						
RINSING							
CYCLE PROGRESSION & STATUS INDICATORS PROG BAR W1				┛┠┼┼┼┼┼	┨┠─┼─┼─┼─┨┠─┼─┼─┨		
PROG BAR W2							
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				1 + + + + + + + + + + + + + + + + + + +			
SOAKING	NOTE 7						
SOAKING/SENSING	NOTE 7						
WATER HEATING (THERMAL HOLD INDICATOR)	NOTE 6						
SANITIZED CLEAN	NOTE 8,15 NOTE 8						
		╽╞┿┿┿┿┿┯┥		┫┠┿┽┽┽┽╌╌┼┼┽┽┽┽	┨┣ ╪╪╪╪╪┥ ┣┿┿┯┛		
WASH MOTOR (MAIN WINDING)				<u>」</u>	▌ ┟╞╡╞╪╡ ┨┠╞╪╧┤		
DRAIN MOTOR	NOTE 2 NOTE 2	APF APF	APF APF APF APF APF APF	APF			
APF ENABLED INTERVALS – Max # of APF Purges (5sec Fill & Drain, then 5sec Fill) allowed in Interval DETERGENT / RINSE AID DISPENSER	NOTE 2	max 3	max 3 max 2 max 2	max 3 120°F max 1, else 3	┨ ╘┼┼┼┼ ┥┠┽┾┯┥		
VENT HEATER	NOTES 4.10.11.16				┥ ┍┽┽┽┿┿┥ ╞ ╧╧┿╡		
			1 3	4 3 9	╽┟ ╴╸╸╸┥ ┥┝╼═┈╌┥	3 9 4	
		17 17 17 17 17 17 17 17	17 14 14	14		15	15 15 16 16 16 16 16 16
		2	11 11 2 2 2	2 2			10 10 10 12 12 12 12 12 12
		NOTES	NOTES	NOTES		NOTES	NOTES
for some non-numeric models that will likewise turn on during these "soak-						AGNOSTICS CYCLE TIME CH/	ART
ing events but <u>not</u> during sensing intervals.			VINER CONTROL FEATU	ΠΕΞ ΠΑΡΙΟ ΑΟΥ	ANUE JERVILE		

OPTION NOTES

NOTE 14 – HI TEMP SCOUR/HI TEMP SCRUB OPTION

The H.T. Scour/H.T. Scrub option is not allowed with China/Light, Q.Wash/Q.CleanUp/Time Saver, or Rinse Only/Quick Rinse cycles. This option does the following:

(a) Anti-Bacteria/Cookware and Pots&Pans/Heavy cycles Forces the control to run no less than a 5-fill (Wash-Wash-Rinse-Rinse-

- Rinse-Dry) version of the cycle, even if no soil is sensed.
- Raises the pre-wash water heating thermal hold (interval 40) to 135°F/57°C
- Raises the main wash water heating thermal hold (interval 33) to 145°F/63°C (except Anti-Bacteria/Cookware cycle, which is already 145°F/63°C).

(b) Normal cycles

- Forces the control to run no less than a 4-fill (Wash-Wash-Rinse-Rinse-Dry) version of the cycle even if no soil is sensed. Note: the standard (non-Energy Star) Normal cycle is already a minimum of 4-fills (Wash-Wash-Rinse-Rinse-Dry) with low/no soil.
- Raises the main wash water heating thermal hold (interval 33) to 145°F/63°C.

NOTE 15 – SANI RINSE OPTION

- The Sani Rinse option is not allowed on China/Light, Q.Wash/Q.CleanUp/ Time Saver, and Rinse Only/Quick Rinse cycles. It is "built in" and treated as an automatic option on the Anti-bacteria/Cookware cycles. This option does the following:
- Raises final rinse water heating thermal hold (interval 15) to 160°F/71°C and adds 20 minutes to its default maximum time limit.
- Turns heater off in the last two intervals of the dry period (intervals 1 and 2) for most models. For KUDM01FK & KUDS01FK models only (see note 12), it turns the heater off in intervals 1, 2, 3, and 5 of the dry period.

Invokes the Sanitized status indicator at the end of the cycle (see note 8). NOTE 16 - AIR DRY/NO HEAT DRY/ENERGY SAVER DRY OPTION

- The Air Dry/No Heat Dry option is not allowed on the Rinse Only/Quick
- Rinse cycle (which has no dry). This option does the following: Turns heater off in the dry period (intervals 1-6).

NOTE 17 - SOAK&SCOUR OPTION

- The Soak&Scour option is only allowed with the Anti-Bacteria/Cookware and
- Pots&Pans cycles. This option does the following: Runs a 4-hour pre-soak period before the cycle (see Time Chart). The pre-soak consists of a standard fill, an initial 8:00 minute wash, then 13 wash "pulses" (each 90 seconds long, spaced 16 minutes apart) to keep the dishes wet and soaking. At the conclusion of this pre-soak period,
- the dishwasher drains and the cycle begins. Forces the control to run no less than a 5-fill (Wash-Wash-Rinse-Rinse-Rinse) version of the cycle following the pre-soak, even if no soil is sensed.
- Skips pre-wash water heating thermal hold (interval 40).
- Raises main wash water heating thermal hold (interval 33) to 145°F/63°C

(except on Anti-Bacteria/Cookware cycle, which is already 145°F/63°C). Note: The Soak option takes precedence over the H.T. Scour/H.T. Scrub option if selected together

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CANCEL/DRAIN: Terminates current active cycle and clears cycle selections. Executes 2-minute drain upon first selection if water is likely to be left in sump. Subsequent selections toggle between 2-minute drains and

going to standby. **CONTROL LOCK:** The Control Lock indicator is turned on and all keys of the keyboard are disabled whenever the Control Lock feature is invoked by the customer. The Control Lock feature (and indicator) can be turned on or off by the customer at any time by holding down the Air Dry/No Heat

Dry/Energy Saver Dry option key for 4 seconds. DELAY START: Allows the customer to delay the start of a cycle. Each press of the Delay key increases the delay to the next available delay time

selection and then back to no delay For models with a Start key, the delay will begin clocking down upon

selecting the Start key For models without a Start key, the delay period will begin upon select-

ing the Cycle key.

The cycle selected will begin automatically upon completing the delay

Note: Models with a numeric cycle time display will display time remaining in the Delay in hours. Delays of 9 hours or less will display an H after the number to denote "hours". Delays of more than 9 hours drop the H due to a lack of digits.

REPEAT LAST CYCLE / ONE BUTTON START MEMORY: All models remember the "last cycle and options ran" so that they may be repeated by simply pressing the Start key. (Note: models without a Start key will remember the last options ran and turn them on upon selecting a Cycle key). Cycle and option selections will not be saved to memory until the cycle completes its final rinse. The Rinse Only/Quick Rinse cycle is never saved to memory.

Models with cycle and option keys on the top of the door instead of the front of the door will automatically bring up the last cycle and options ran from memory and display them as initial cycle selections each time the door is opened. These initial selections can be changed if desired or left as is and then started by closing the door and selecting the Start key. If no Start key is selected, these last ran cycle and option selections will turn back off and the dishwasher will return to standby after 30 seconds.

ERROR MESSAGES

STUCK KEY: If the control detects that a key is stuck in the depressed position, dishwasher operation will be suspended and the control will flash the light for that key until the condition is corrected. If a key without a light is stuck or multiple keys are stuck, the control will flash the light for the Rinse Only/Quick Rinse key.

KAPID ADVANCE SERVICE **FEATURE AND DIAGNOSTICS** CYCLES

Pressing the following option keys in the sequence shown will either start the Diagnostics Cycle or turn on the Rapid Advance feature for stepping through customer selectable

HI TEMP SCRUB, AIR DRY, HI TEMP SCRUB, AIR DRY

Or SANI RINSE, AIR DRY, SANI RINSE, AIR DRY

(Note: HI TEMP SCRUB = HI TEMP SCOUR) (Note: ÀIR DRY = NO HEAT DRY = ENERGY SAVÉR DRY) If the above key sequence is entered after starting a cycle, the Rapid Advance feature is turned on, which allows the operator to manually advance the currently running cycle, interval by interval, by pressing the Pots&Pans/Heavy or Anti-Bacteria/ Cookware or Start key.

If the above key sequence is entered with the dishwasher in Standby, the Diagnostics Cycle is started. The Diagnostics Cycle can be rapid-advanced, interval by interval, by pressing the Pots&Pans/Heavy or Anti-Bacteria/Cookware or Start key. Note: The door must be closed before the Diagnostics cycle will run. Likewise, the door must be closed after each rapid advance selection of the P&P/Heavy, A-Bac/Cookware, or Start key for the control to advance to the next interval of the Diagnostics or currently running cycle.

DIAGNOSTICS CYCLE TIME CHART NOTES

NOTE 1 – R/A SENSOR ASSY CHECK

To help detect a failed or misconnected Rinse Aid level sensor, the control should operate the Rinse Aid Empty LED in Diagnostics as it does during any other cycle.

NOTE 2 – THERMISTOR OPEN/SHORT DETECTION The Diagnostics Test cycle will illuminate the 'CLEAN' LED throughout the operating portion of the cycle that follows the initial display test interval whenever it detects a "short circuit" or "open circuit" on the thermistor input.

Note: Warm water must be in the dishwasher when performing this test. The highest thermistor resistance values the control can detect as its open circuit criteria are close to the normal thermistor resistance at room temperature. Consequently, this indicator is only reliable for "open circuit" detection if warm water is in the dishwasher.

NOTE 3 – STUCK PRESSURE SWITCH DETECTION

The Diagnostics cycle monitors the normally open soil-sensing pressure switch input for a "stuck closed" condition by aborting wash interval 3 and skipping immediately to drain interval 1 if the control detects a closed pressure switch.

INTERVAL		11	10	9	8	7	6	5	4	3	2	1	0
CYCLE LED's	1 [
ANTIBACTERIA / COOKWARE	11												S
POTS&PANS / HEAVY													Т
NORMAL													А
CHINA/LIGHT													Ν
QUICK WASH / QUICK CLEANUP / TIME SAVER													D
RINSE ONLY / QUICK RINSE						_			_				В
CANCEL DRAIN				_								_	Υ
	I	_		_							$ \rightarrow $	_	
OPTION LED'S	11												
H.T. SCOUR / H.T. SCRUB				_								_	_
SOAK&SCOUR				_								_	_
NO HEAT DRY / AIR DRY / E.SVR.DRY												_	
SANI RINSE			_	_								-	_
DELAY - 2 HR			_	_								-	_
DELAY - 4 HR				_								_	
DELAY - 8 HR	1 8		_	_	_							_	_
	łŁ												
				_					_	_			~
2001/001	łF		-	-	_		_			_	-+	-	-
													Т
CYCLE PROG/STATUS LED'S	1 I												Α
W1	1 1			-							\rightarrow		N
W2	16												D
WASHING (W3)	1 6					_							в
R1	16												Y
WASHING/RINSING (R2) [labeled 'WASHING' on models w/o Rinsing LED's]	16												
RINSING	1 6												
DRYING	1 6												_
SOAKING	1 1												S
SOAKING/SENSING	1 1												Т
ADD-A-DISH	16												А
WATER HEATING	1												Ν
	1 [D
SANITIZED													В
CLEAN NOTE 2													Υ
	1 1	~	10	0	9	0	2	10	2	0	_		
INTERVAL TIME (min:sec)		ö	ö	0:0	0:0	0:10	0:0	0:0	0:0	1:0	ö	õ	
		-	-	-	-	-	-	-	-	_			-
DIAG. CTCLE (P.Switch Closed) NOTE 3		-	_	_	_	_	_	_	_				_
DIAG. CYCLE (P.Switch Open) NOTE 3				_	_	_	_	_	_	_			
NUMERIC DISPLAY (DISPLAYS INTERVAL NUMBER)		88	10	9	8	7	6	5	4	3	2	1	0
OUTPUT LOADS													
VENT	11				_	_	_		_				S
WASH MOTOR MAIN	1 I												Т
DRAIN MOTOR	1 T												А
FILL VALVE	1 I												Ν
UNDEFINED EXTRA OUTPUT] [D
DET-R/A DISPENSER	l I												В
HEATER	IĪ												Υ
	וו												
		NOTEO 3											
	NOTES												
	1 L											_	

PART NO. 8269519

NOTE: This sheet contains important Technical Service Data

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