



WARNING

Electrical Shock Hazard

Disconnect electric supply from appliance before servicing.
Replace all panels before operating.
Failure to do so can result in death or electrical shock.



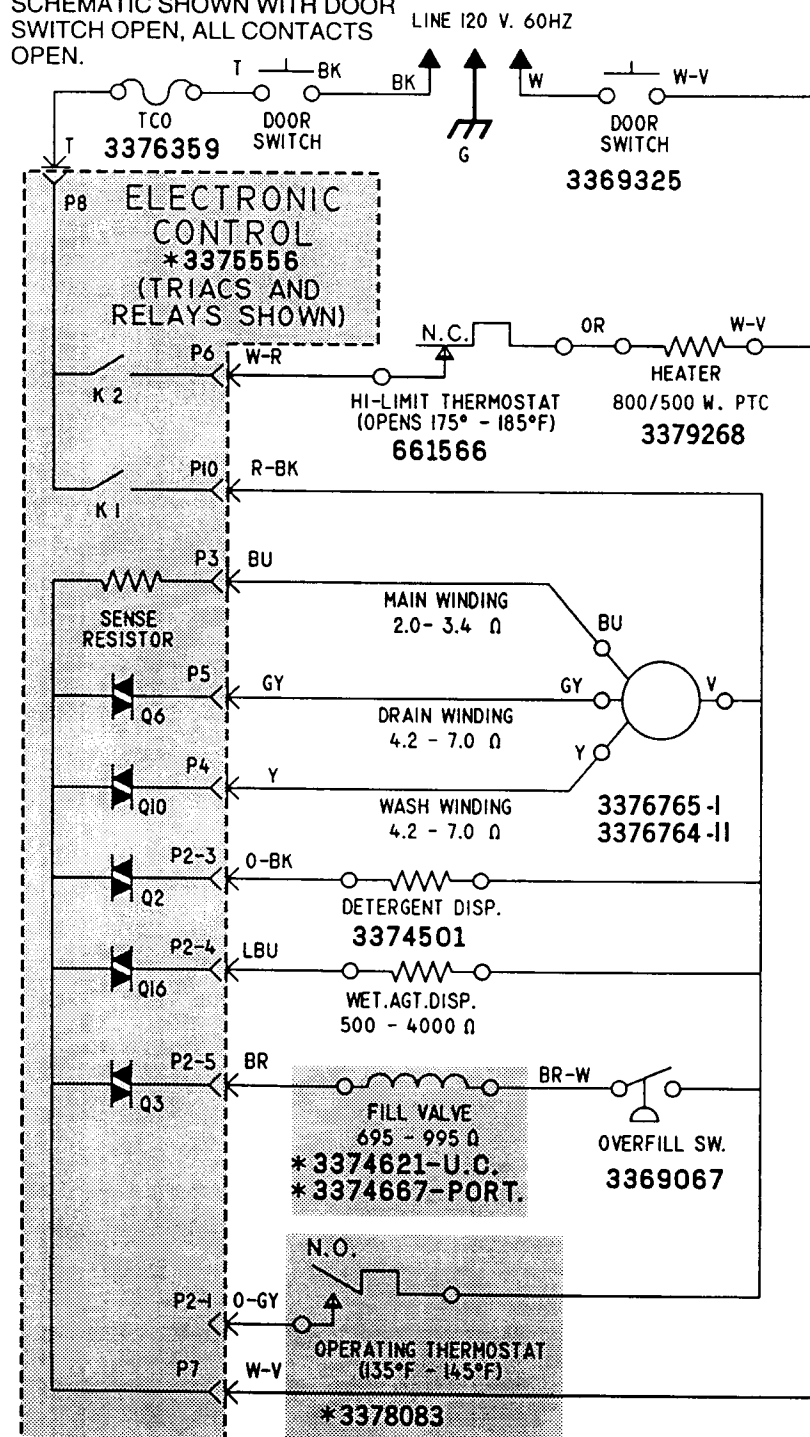
WARNING

Tip Over Hazard

Do not use dishwasher until completely installed.
Do not push down on open door.
Doing so can result in serious injury or cuts.

WIRING DIAGRAM

SCHEMATIC SHOWN WITH DOOR SWITCH OPEN, ALL CONTACTS OPEN.



SPECIFICATIONS

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

Supply Water Flow Rate:
To fill 2 quarts in 27 seconds, 120 PSI maximum, 20 PSI min.

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

Water Charge: 1.8 gal. (approx.)

Spray Arm Rotation: 25 to 50 rpm.

OPTIONS

Water Heat: At specific points in the washing cycle, the thermostat will "hold" or prevent the timer from advancing until the water is heated to a temperature of 135° - 145° F.

Air Dry: Opens the circuit to the heating element during the dry cycle. Items will take longer to dry when this option is used because the heating element is not on.

Cancel/Drain: Cancels any/all options selected and allows for new option selections to be made, if desired.

REPAIR KITS

- Vinyl Rack Patch Kit No. 675579
- Tine Tip Kit No. 675506

Part No. / Electrical Components Key

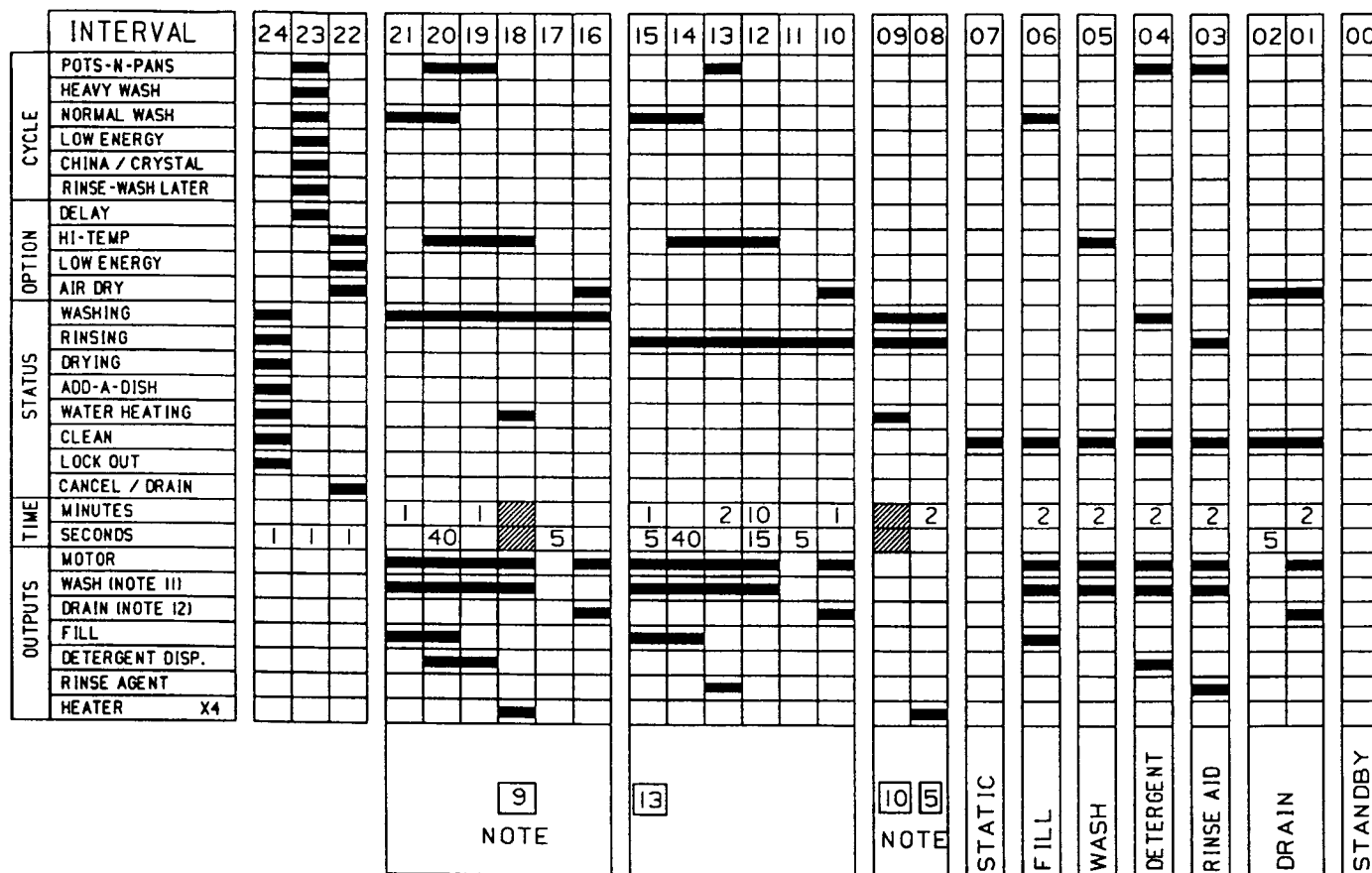
- * 3375556 Electronic Control
- * 3378083 Operating Thermostat
- * 3374621/ Fill Valve
- * 3374667

* DENOTES ENERGY EFFICIENT COMPONENTS
- DO NOT SUBSTITUTE

PRECAUTIONS TO BE OBSERVED BEFORE AND DURING SERVICING OF DISHWASHER

- A.** Static electricity discharge may cause damage to the electronic control. Touch a grounded metal object (cold water faucet, unpainted part of grounded appliance, etc.) to discharge any static electricity in your body before handling the electronic control.
- B.** Always check wiring harnesses and connectors before any test procedures.
- C.** Disconnect power supply before touching the electronic control or re-seating connectors.
- D.** Do not attempt to make any measurements (continuity checks) on the membrane switch ribbon.
- E.** Voltage checks are made by inserting probes beside wires on the connectors, with the AC power source applied and all connectors plugged in.
- F.** Resistance checks are made on components with wiring harnesses or connectors disconnected.

DIAGNOSTIC TEST CYCLE



DIAGNOSTIC TEST

Entering the key sequence **HIGH TEMP WASH, AIR DRY, HIGH TEMP WASH, AIR DRY** within ten (10) seconds will cause the control to enter the diagnostics test at line 24.

Entering the key sequence **HIGH TEMP WASH, AIR DRY, HIGH TEMP WASH, AIR DRY, HIGH TEMP WASH** within ten (10) seconds will cause the control to enter the diagnostics test at line 08.

Intervals 24 through 07 serve as a factory test which proceeds through an abbreviated cycle and terminates when the **CLEAN** light comes on at interval 07.

Intervals 08 through 00, intended to be the service-man's test, allow the individual's outputs to be turned on one at a time.

The **POTS-N-PANS, CANCEL** and **AIR DRY** keys are the only inputs that are recognized while the diagnostics test is running.

The **POTS-N-PANS** key advances the test from one interval to the next.

The **CANCEL** key will initiate a two (2) minute drain and then terminate the test. Upon termination, the control returns to the standby mode. Pressing the **CANCEL** key a second time will terminate the drain and force the control back to the standby mode, immediately.

The **AIR DRY** option key will toggle the heater "ON" and "OFF" during interval 08.

KEY TO NOTE NUMBERS IN TEST CYCLE CHART

5 AIR DRY

The default status to the dry period is heat dry "ON". Selecting the **AIR DRY** option causes the indicator to be "OFF" during this interval.

9 DIAGNOSTIC CYCLE THERMAL HOLD

The default status for this thermal hold is "ON". This thermal hold is thermostatically controlled. If the water temperature fails to reach the thermostat set point within 90 minutes, the thermal hold is terminated and normal cycle timing resumes. The diagnostic test cycle advance function can also be used to terminate this thermal hold.

10 DIAGNOSTIC CYCLE DRY HOLD

The default status for this thermal hold is "ON". The water temperature thermostat does not terminate this thermal hold. It is terminated by the default time out or by the diagnostic test cycle advance function. The default

time is 90 minutes. The heater is not on during this hold.

11 MOTOR WASH PHASE WINDING

This output is only "ON" when the motor is starting in the **WASH** mode. When the control has determined that the motor has started, the **WASH** phase winding will be turned "OFF".

12 MOTOR DRAIN PHASE WINDING

This output is only "ON" when the motor is starting in the **DRAIN** mode. When the control has determined that the motor has started, the **DRAIN** phase winding will be turned "OFF".

13 MOTOR REVERSAL TIME

This interval includes a five (5) second motor pause to allow the motor to be reversed from the drain direction to the wash direction. The fill valve is not "ON" during this pause. Fill valve and motor "ON" time, in the wash direction, will be one minute.

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

LINE 120 V. 60 HZ

T

TCO

DOOR SWITCH

BK

W

DOOR SWITCH

W-V

G

P8

ELECTRONIC CONTROL
(TRIACS AND RELAYS SHOWN)

P6

K2

W-R

N.C.

HI-LIMIT THERMOSTAT
(0PENS 175° - 185°F)

OR

HEATER

800/500 W. PTC

W-V

P7

W-V

LINE 120 V. 60HZ

TCO

T

DOOR SWITCH

BK

W

W-V

DOOR SWITCH

G

ELECTRONIC CONTROL
(TRIACS AND RELAYS SHOWN)

P8

P6

W-R

N.C.

OR

HEATER

W-V

800/500 W. PTC

HI-LIMIT THERMOSTAT
(OPENS 175° - 185°F)

K2

P7

W-V

The diagram illustrates a motor control system. At the top, a power source provides LINE 120 V, 60HZ, with phases W and V, and a ground G. A door switch is connected between W and V. The control circuit includes a thermal cutoff (TCO) and a thermal relay (TR) in series with the main winding (2.0-3.4 Ω) of a motor. A sense resistor is connected in series with the main winding. The drain winding (4.2-7.0 Ω) is connected to the motor. The motor is represented by a circle with two terminals, BU and GY. The control circuit also includes a thermal relay (TR) and a thermal cutoff (TCO) in series with the main winding. A sense resistor is connected in series with the main winding. The drain winding (4.2-7.0 Ω) is connected to the motor. The motor is represented by a circle with two terminals, BU and GY.

LINE 120 V. 60 HZ

Diagram showing the electrical connections for a door switch, electronic control, heater, and motor windings.

Door Switch: The line is connected to a door switch (BK) through a TCO (thermal cut-off) and a T (thermal) switch. The switch is labeled "DOOR SWITCH".

Electronic Control: The line is connected to the electronic control (P8) through a T (thermal) switch. The control is labeled "ELECTRONIC CONTROL (TRIACS AND RELAYS SHOWN)".

Heater: The line is connected to a heater (W-V) through a W-R (wiring resistor) and a N.C. (normally closed) switch. The heater is labeled "HEATER 800/500 W. PTC".

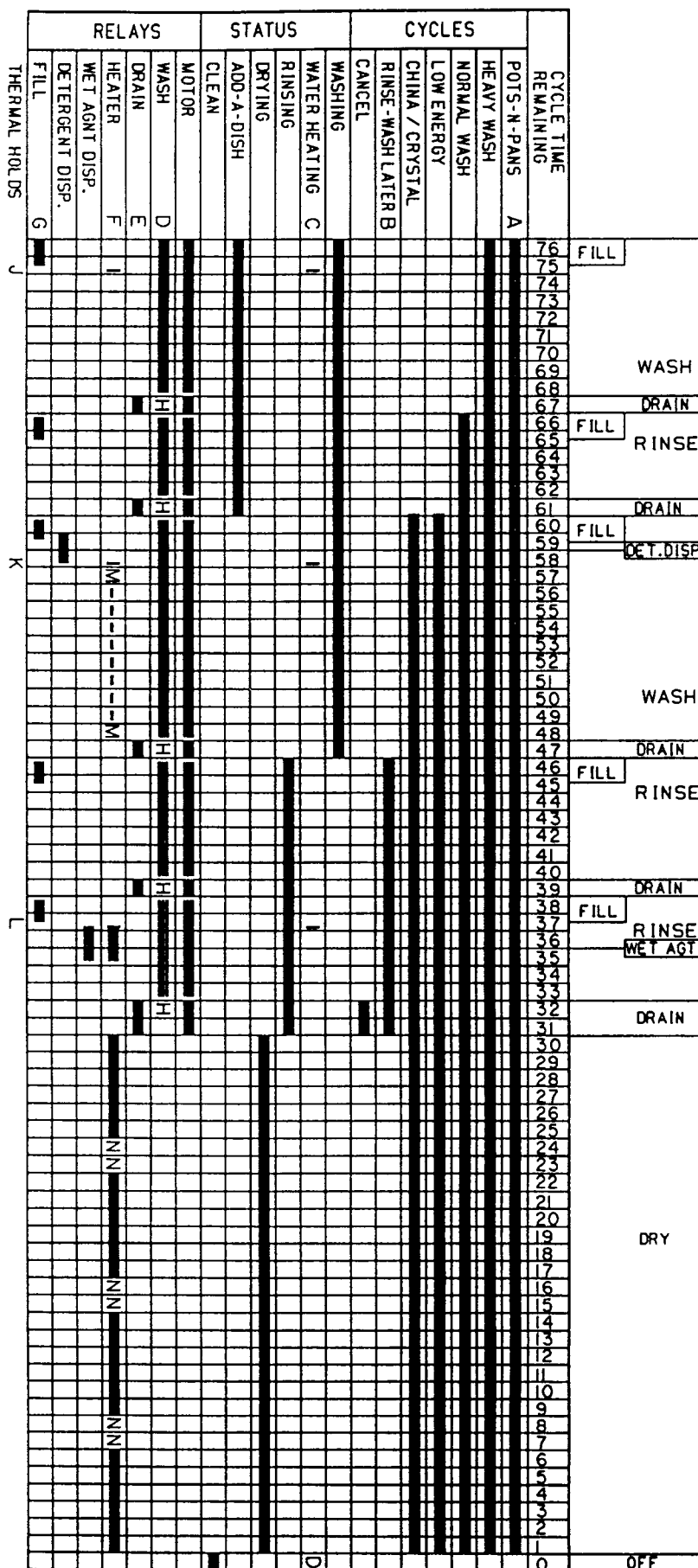
Motor Windings: The line is connected to the motor windings (V) through a W-R (wiring resistor) and a N.C. (normally closed) switch. The motor windings are labeled "MAIN WINDING 2.0 - 3.4 Ω " and "WASH WINDING 4.2 - 7.0 Ω ".

Thermostats: The line is connected to a HI-LIMIT THERMOSTAT (OPENS 175° - 185°F) and an OPERATING THERMOSTAT (135°F - 145°F) through a W-R (wiring resistor) and a N.C. (normally closed) switch.

Other Components: The diagram also shows a SENSE RESISTOR, a Q10 (thermistor), and a P2-1 (10-GY) switch.

FOR SERVICE TECHNICIAN'S USE ONLY

CYCLE CHART



Notes:

- A.** POTS-N-PANS will have all THERMAL HOLDS (J, K & L), except when LOW ENERGY RINSE option is selected. WATER HEATING L.E.D. is "ON" only when the THERMAL HOLDS are active. Selecting the HI TEMP WASH option will not affect the POTS-N-PANS cycle.
- B.** RINSE-WASH LATER does not have OPTIONS, THERMAL HOLDS, WETTING AGENT DISPENSE or HEAT DRY.
- C.** WATER HEATING L.E.D. is "ON" only when the THERMAL HOLD is active.
- D.** The WASH phase winding is "ON" only when the MOTOR is starting in the WASH mode.
- E.** The DRAIN phase winding is "ON" only when the MOTOR is starting in the DRAIN mode.
- F.** HEATER is "OFF" during DRY when AIR DRY option is selected.
- G.** FILL times are 100 seconds in duration.
- H.** The MOTOR will be "OFF" 5 seconds before changing direction. Each 5 second dwell will be added to the cycle time.
- J.** THERMAL HOLD is to 140° F or 20 minutes, and WATER HEATING L.E.D. is "ON". Occurs only in POTS-N-PANS cycle.
- K.** THERMAL HOLD is to 140° F or 20 minutes, and water heating L.E.D. is "ON". Occurs in POTS-N-PANS cycle, or if HI-TEMP WASH is selected.
- L.** THERMAL HOLD is to 140° F or 30 minutes, and WATER HEATING L.E.D. is "ON". Occurs in all cycles except RINSE-WASH LATER, unless LOW ENERGY RINSE is selected.
- M.** For POTS-N-PANS and HEAVY cycles, the HEATER will be "ON" if the thermostat has not been satisfied.
- N.** In the CHINA/CRYSTAL cycle, the HEATER is "OFF" during this interval.

MANUFACTURED UNDER ONE OR MORE OF
THE FOLLOWING UNITED STATES PATENTS:

3,951,683	4,418,868	4,765,697	4,927,033	5,033,659
4,134,003	4,449,765	4,776,620	4,991,611	5,039,828
4,301,882	4,693,526	4,805,647	5,005,740	5,069,360
4,319,598	4,732,323	4,822,241	5,018,550	
4,319,599	4,732,431	4,834,125	5,031,649	
4,350,306	4,746,177	4,848,382	5,031,651	

DES.320,487 DES.320,488 DES.320,489 DES.314,256

OTHER PATENTS PENDING

CONNECTOR PIN OUT:

PIN NO.	DESCRIPTION	WIRE COLOR
P2-1	THERMOSTAT	O-GY
P2-2	OPEN - NO TERMINAL	
P2-3	DETERGENT DISPENSE	O-BK
P2-4	WETTING AGENT DISPENSE	LBU
P2-5	FILL VALVE	BR
P3	MOTOR MAIN	BU
P4	WASH PHASE	Y
P5	DRAIN PHASE	GY
P6	HEATER	W-R
P7	DOOR SWITCH NEUTRAL	W-V
P8	DOOR SWITCH AC	T
P9	OPEN - DUMMY TERMINAL	
P10	SWITCHED AC LINE	R-BK

PART NO. 3379064 REV. A

NOTE: This sheet contains important
Technical Service Data

FOR SERVICE TECHNICIAN ONLY
DO NOT REMOVE OR DESTROY