

FLOAT SWITCH

The flood control system consist of a switch in series with the water valve. The weight of the float holds the switch contacts closed. If the water level exceeds a normal fill, the float rises and opens switch to cut off power to water valve.

NOTE: Dishwasher will not fill if float is not in place. This system offers protection against electrical failures, such as timer stalls, solenoid malfunction, etc.

SERVICING WATER VALVE

1. Shut off water and disconnect plumbing from water valve inlet and rubber hose from valve outlet.
2. Remove water valve from dishwasher.
3. Remove screen and clean.

NOTE: Remainder of valve may be disassembled and cleaned if necessary. If flow washer is removed, the three pads must face "down stream" (direction water flows into dishwasher).

The screen and gasket are the only parts available as replacements.

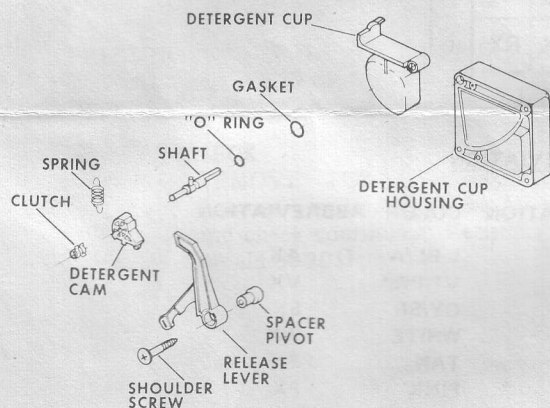
SUMP

Rust in sump area may be repaired by using Sump Repair Kit WD35X170. If the rust has progressed more than 1/8 inch along tub bottom, epoxy patch repair is required in addition to kit. Instructions are included with kit.

The screen and gasket are the only parts available as replacements.

DETERGENT CUP

The cup must open and close freely. If cup opens sluggishly, make sure the shaft is properly seated in housing. If cup appears to bind, use a pen knife and shave that area to relieve interference.

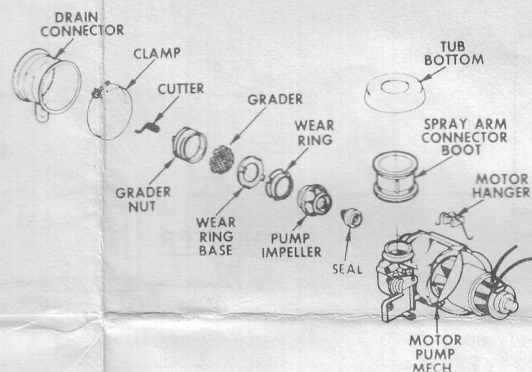


MOTOR PUMP MECHANISM

The motor is a shaded pole type. It is protected against heat and high current by a thermal overload protector nestled in the coil winding. The overload is not replaceable as a separate part.

MOTOR STALLED - HUMS: Attempt to turn motor shaft by turning fan blade. If motor can not be turned, something may be blocking spring cutter. To retrieve this item, remove sump cover from inside dishwasher. Reach down inside sump to locate and remove this item. Be very careful-there may be broken glass or sharp objects lodged in this area. If motor shaft cannot be relieved, remove mechanism.

MOTOR DOES NOT RUN - NO HUM: The motor may be direct tested. Disconnect at plug - check with ohmmeter, the resistance reading should be 2 ohms, or check with a 115 volt external source. If motor checks "good", the trouble is probably in wire harness or timer control. See Schematic page for diagnostic procedure.

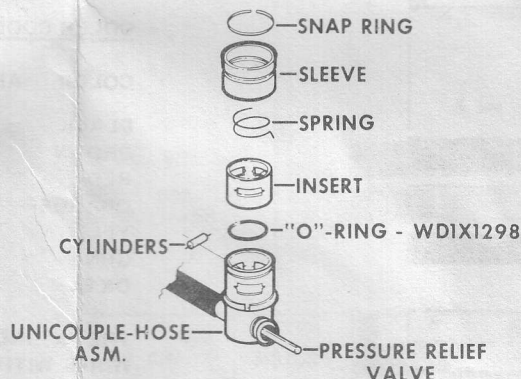


SERVICING PUMP SOLENOID

1. Check continuity of solenoid coil. Resistance is 40 ohms.
2. Check armature for binding. The armature should "bottom" before gate is completely closed. Mounting plate must not be bent.
3. When replacing solenoid coil be sure both springs are in place.

UNICOUPLE (Convertible Models)

Leaks around uncouple to faucet connection can usually be corrected by installing WD35X141 Repair Kit.



IMPORTANT SAFETY INFORMATION: THIS INFORMATION IS INTENDED FOR INDIVIDUALS POSSESSING BASIC ELECTRICAL AND MECHANICAL EXPERIENCE. IT IS NOT A SUBSTITUTE FOR REPAIR A MAJOR APPLIANCE. THE MANUFACTURER OR SERVICE PERSONNEL ARE RESPONSIBLE FOR THE CORRECT USE OF THIS INFORMATION, NOT THE USER. LIABILITY IN CONNECTION WITH THIS INFORMATION IS LIMITED TO THE EXTENT OF THE WARRANTY.

DISCONNECT POWER BEFORE REPAIRING. IMPORTANT - RECONNECT POWER AFTER REPAIRING.

ALL PARTS OF THIS APPLIANCE ARE TO BE KEPT IN THE ORIGINAL PACKAGING. ELECTRICAL CORDS, GROUNDING WIRES, SCREWS, OR WASHERS USED TO CARRY OUT REPAIRS ARE TO BE RETURNED TO THEIR ORIGINAL LOCATION. PROPERLY FASTENED.

REPLACEMENT PARTS

ELECTRICAL PARTS

Timer
Pushbutton Switch
Extender Switch
Heater
Interlock Switch
Float Switch & Bracket

MOTOR - PUMP MECHANISM

Complete Motor - Pump Mechanism
Drain Solenoid
Grader & Seal Kit

WASH SYSTEM

Spray Arm
Power Tower Kit
Water Seal & Nut Kit

DOOR ASSEMBLY

Latch
Door Gasket
Detergent Cup Asm

WATER SYSTEM

Water Valve (SD Built - In)
Water Valve (SC Mobile)
Complete Uncouple & Hose Assembly
Uncouple Repair Kit (Mobile)

HEATING ELEMENT

When complaint is "no heat":
1. The energy saver switch is set to "OFF" to have a heated cycle.
2. Remove wire leads from heater. Reconnect to continuity of heater. Reconnect to heater.

RINSE INJECTOR BI-METAL

1. DO NOT DIRECT TEST.
2. Remove wire leads and

SAFETY NOTICE
 INTENDED FOR USE BY
 ADEQUATE BACK-
 L, ELECTRONIC AND
 E. ANY ATTEMPT TO
 NCE MAY RESULT IN
 PROPERTY DAMAGE.
 SELLER CANNOT BE
 INTERPRETATION OF
 CAN IT ASSUME ANY
 ION WITH ITS USE.

BEFORE SERVICING
 ALL GROUNDING

ANCE CAPABLE OF CON-
 ENT ARE GROUNDED. IF
 , STRAPS, CLIPS, NUTS
 COMPLETE A PATH TO
 R SERVICE, THEY MUST
 ORIGINAL POSITION AND

WD21X470
 WD21X471
 WD21X457
 WD5X59
 WD6X183
 WD21X349

WD26X74
 WD21X374
 WD17X57

WD22X5056
 WD22X99
 WD19X44

WD13X6
 WD8X202
 WD16X252

WD15X5093
 WD15X54
 WD24X172
 WD35X141

heat" check following:
 n must be set to "HEAT"
 ry.
 n heater and check con-
 sistence should be 20

L
 T.
 test for continuity only.

SPRAY ARM – WASH SYSTEM

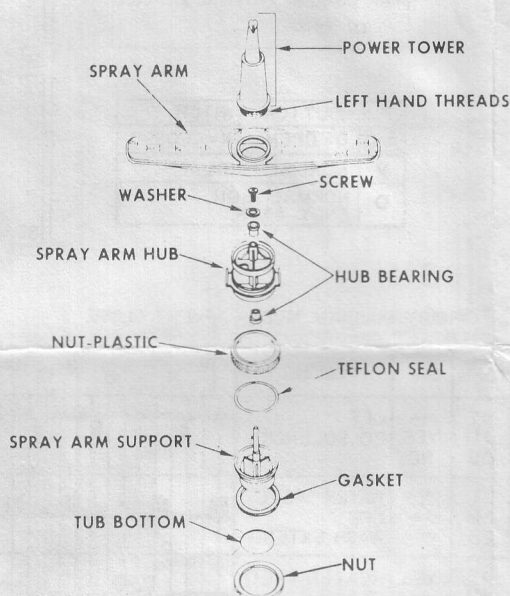
The spray arm must rotate freely. If it binds, remove power tower (left hand threads) and lift off spray arm. Remove screw and textoilite washer holding hub and bearings. Lift off hub and inspect bearings to insure they are seated in keyed slots. Careful, DO NOT drop lower bearing in pump.

Inspect teflon seal, it should extend inside circumference of hub. If it is cut, torn, shows signs of abrasion, or damaged in any way, replace it.

Inspect spray arm for seeds, bits of china, etc. that may be clogging the holes – also for slits or cracks along sides of arm.

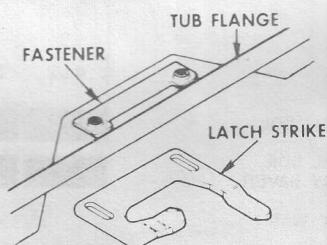
Reassemble and test operation.

The spray arm speed should be between 10 and 32 RPM.



LATCH MECHANISM

The latch strike may be adjusted by loosening two mounting screws and sliding strike toward rear of tub to increase latching force and reduce the possibility of leaks around door gasket. If latch closes too hard – slide strike "out" slightly. Keep in mind the importance of a tightly closed door.



WASHABILITY

When washability is a complaint, check the following:

HOT WATER – The water temperature must be between 140° F - 150° F. To help insure an ample supply of hot water, dishwasher should not be used while other hot water needs are heavy – such as clothes washing and bath time. See Schematic for fill quantities.

PROPER LOADING – Place items so soiled surfaces face the spray of water and so water will drain off for best drying. Be careful not to block spray arm, wash tower, or detergent cup operation. Consult Use & Care booklet for details.

DETERGENTS – Use fresh dry DISHWASHER DETERGENT only. Old detergent that is caked or lumpy may have lost its strength.

Use the proper amount of detergent for the particular water hardness and soil conditions. Follow instructions in Use and Care book and markings in detergent cup. Some moisture in the cup is normal. Detergent must not be soaking wet and oozing out and down inner door panel. See section on Detergent Cup if cup is leaking.

HOUSE DRAIN PLUMBING – Check for blocked or partially blocked drain line and air gap. All water should be evacuated and pump-out diverter valve released well before the next fill begins, otherwise this water will be pumped out also.

The drain line should be free of kinks and sharp turns. The dishwasher should not be installed more than 10 feet from sink for proper drainage.

WATER SPOTS – Water spots can usually be controlled by use of a rinse agent solution. If the dishwasher is equipped with a rinse agent dispenser, make sure it is full. If dishwasher has no dispenser, solid rinse agent, available at most supermarkets, may be used.

SPOTS AND FILMS – (CALCIUM DEPOSITS)
 Calcium tripolyphosphate films are normally caused by (1) Not using enough detergent for customer's particular water condition. (2) A leaking detergent cup. See section on Detergent Cups if cup is leaking. To remove the calcium build-up on glasses and dishes, use a citric acid wash. Citric acid crystals WD35X151 are stocked for this purpose. **IMPORTANT** – Remove all metal items – utensils, etc. from dishwasher and follow instructions included with kit.

ETCHING – Etching is the removal of metal ions from soft glass. Once the ions are removed they cannot be replaced or original appearance restored. When the customer has a water softener or a naturally soft water supply, the amount of detergent should be greatly reduced.

TEFLON SEAL – The teflon seal under the spray arm hub must be in place and free of cracks, tears, etc. Careful, DO NOT drop lower bearing in pump as hub is removed.

FLOAT SWITCH – If faulty, water valve cannot receive power. See section on float system.

WATER VALVE – Check valve for intermittent operation. It may be direct tested. Allow valve coil to heat normally if it opens prematurely, replace valve.

PRESSURE TEST – Pressure of the water distribution system may be checked by using a test gauge – Robinair No. 14611. Instructions for use and trouble guide are included with gauge.

ELECTRICAL COMPONENT CHECKS

CAUTION: POWER MUST BE DISCONNECTED BEFORE ATTEMPTING TO MEASURE ELECTRICAL RESISTANCE. Actual measurement may show $\pm 10\%$ variation from the resistance values given below.

MOTOR CHECK

Turn dishwasher on and attempt to run motor. If motor does not run - No hum

Check:

1. House fuse or circuit breaker.
2. Door switch.
3. Timer plug and harness connections at timer, be sure they are fully seated-especially BLACK to 10M and Blue to 6M.
4. Remove Power - check motor winding resistance - should be 2Ω .

If motor does not run - hums

Check:

1. Mechanical lock-up or frozen bearings.
2. Pump seal stuck.
3. Items in sump blocking impeller or cutter.

TIMER CONTROL CHECK

PRESS NORMAL SOIL button a pushbutton switch.

1. Close door and start dishwasher. Turn control dial slowly through cycle. Listen for operation of water valve, pump solenoid, pump motor.
2. If a component fails to operate, REMOVE POWER from dishwasher and check continuity of component, if OK, restore power and check to see if voltage is being delivered to component from timer control.
3. Start dishwasher. Check control dial to see if it rotates. If it doesn't, REMOVE POWER and check continuity of timer drive motor.

PUSHBUTTON SWITCH CHECK

REMOVE POWER from dishwasher. Remove all wire leads from switch terminals before making check. Use ohmmeter, check continuity between terminals.

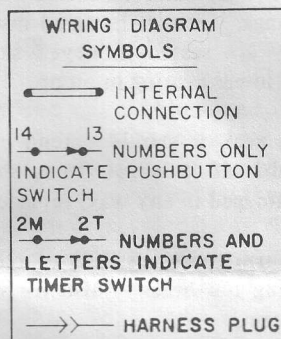
	TERMINALS	SWITCH
PRESS NORMAL SOIL	YRD 3-4 PUR	CLOSED
PRESS NORMAL SOIL ENERGY SAVER	YRD 3-4 PUR	OPEN

HEATER CHECK

1. REMOVE POWER from dishwasher. Remove wire leads from heater terminals and check continuity. Resistance reading should be 20Ω .

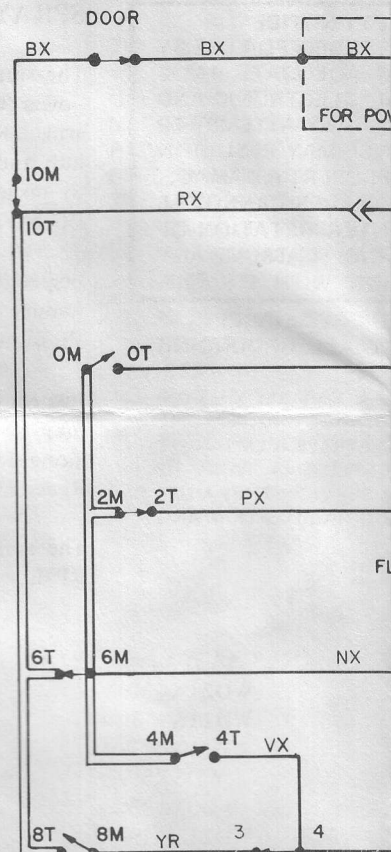
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CIRCUIT DIAGRAM MODE IS SHOWN AT ONE (1) MINUTE WITH NORMAL WASH CYCLE SELECTED.



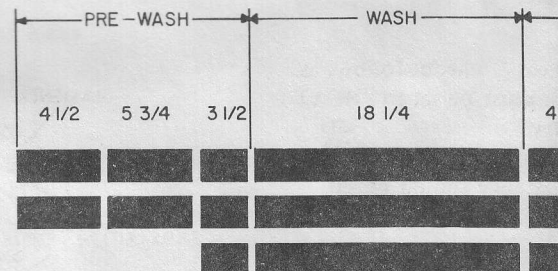
MAXIMUM CURRENT LEAKAGE
0.75 MA
MAX. GROUND PATH RESISTANCE
Q1 OHM

PUSHBUTTON SWITCH	
3-4	O = OPEN X = CLOSED
X	NORMAL SOIL
O	NORMAL SOIL ENGY. SAVER



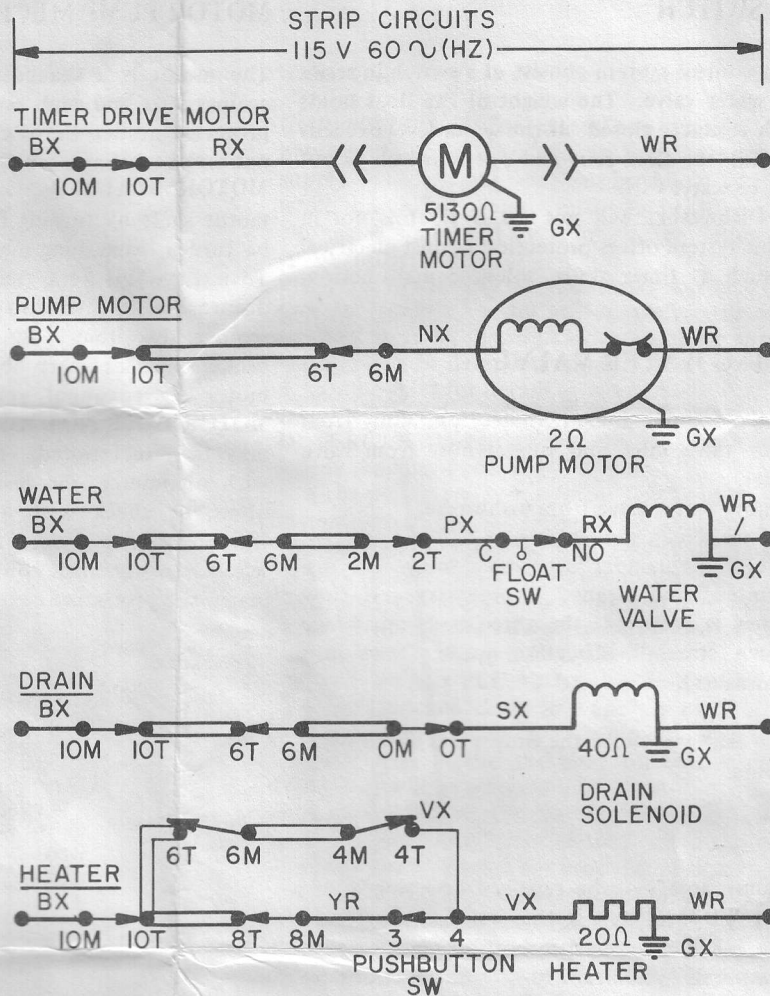
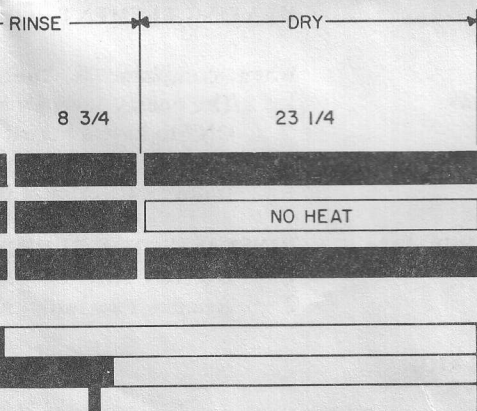
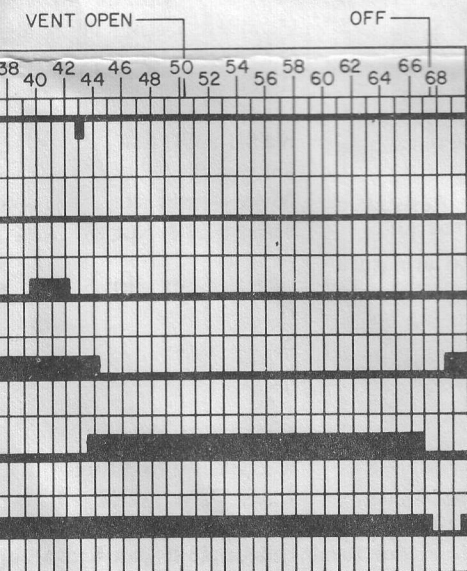
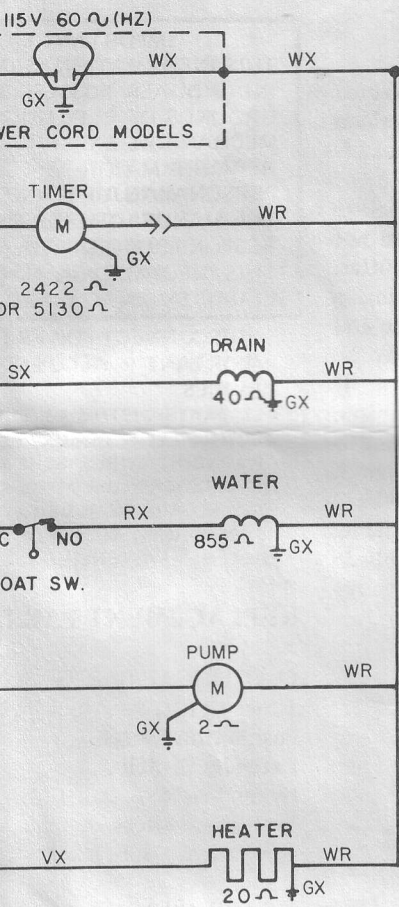
CIRCUIT DIAGRAM MODE: VENT CLOSE DETERGENT TRIP

TERM.	SW.	CIRCUIT	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
OT	—	OFF																		
OM	YES	P.O. SOLENOID																		
OB	NO																			
2T	YES	WATER VALVE																		
2M	—	OFF																		
2B	YES	WASH EXTEND																		
4T	YES	HEATER (WET)																		
4M	—	OFF																		
4B	NO																			
6T	YES	MOTOR																		
6M	—	OFF																		
6B	NO																			
8T	YES	HEATER (DRY)																		
8M	—	OFF																		
8B	NO																			
IOT	YES	TIMER																		
IOM	—	OFF																		
IOB	NO																			



NORMAL SOIL
NORMAL SOIL ENERGY SAVER
SHORT WASH

BAR CHART	WATER	MOTOR	DRAIN



TERMINAL LOCATIONS

B	M	T
	1	SX
	1	PX
	1	VX
	NX	1
	YR	1
	BX	RX

TERMINAL LOCATIONS

COLOR CODE ABBREVIATION

COLOR	ABBREVIATION	COLOR	ABBREVIATION
BLACK	BX	L BL/A	AX
BROWN	CX	VT/PR	VX
RED	RX	GY/SR	SX
ORANGE	OX	WHITE	WX
YELLOW	YX	TAN	TX
GRN	GX	PINK	PX
DK BL	NX		

THE "X" INDICATES ONE SOLID COLOR - NO TRACER.
WIRES WITH TRACER SHOW BOTH COLORS.
EXAMPLE - WR IS WHITE WITH RED TRACER.