

UNDERCOUNTER DISHWASHER

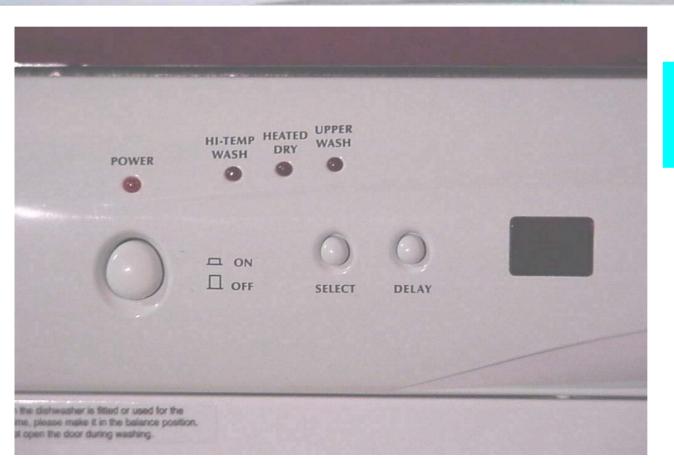
Training Presentation







CONTROL PANEL NO. PERMY HIATED SPPEK WASH DEPT WASH OF D



POWER BUTTON
In to RUN
OUT to STOP



CONTROL PANEL MULTIME HEATED LIPPLE POWER Haier Quiet Clean D on SHIET **POWER** IN – Power ON **OUT – Power OFF** HI-TEMP HEATED WASH WASH (Power Indicator Light will be on) POWER Must be IN to program and start wash cycle D ON OFF. Pushing the POWER SELECT DELAY button during the wash cycle cancels all programs the dishwasher is fitted or used for the me, please make it in the balance position. at open the door during washing.

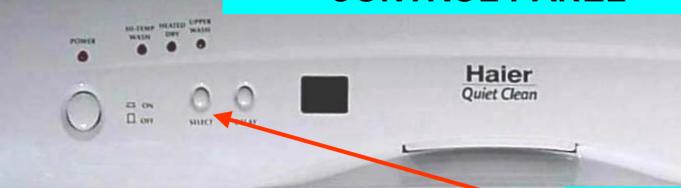
CONTROL PANEL MULTIME HEATTH LPPER POWER Haier Quiet Clean EI ON D on SHIET HI-TEMP HEATED WASH WASH POWER ON ON ☐ OFF SELECT DELAY the dishwasher is fitted or used for the me, please make it in the balance position. at open the door during washing.

UPPER WASH CYCLE

When this cycle is selected, water is diverted to the upper wash arm only.

Dishes must be on the upper rack only.





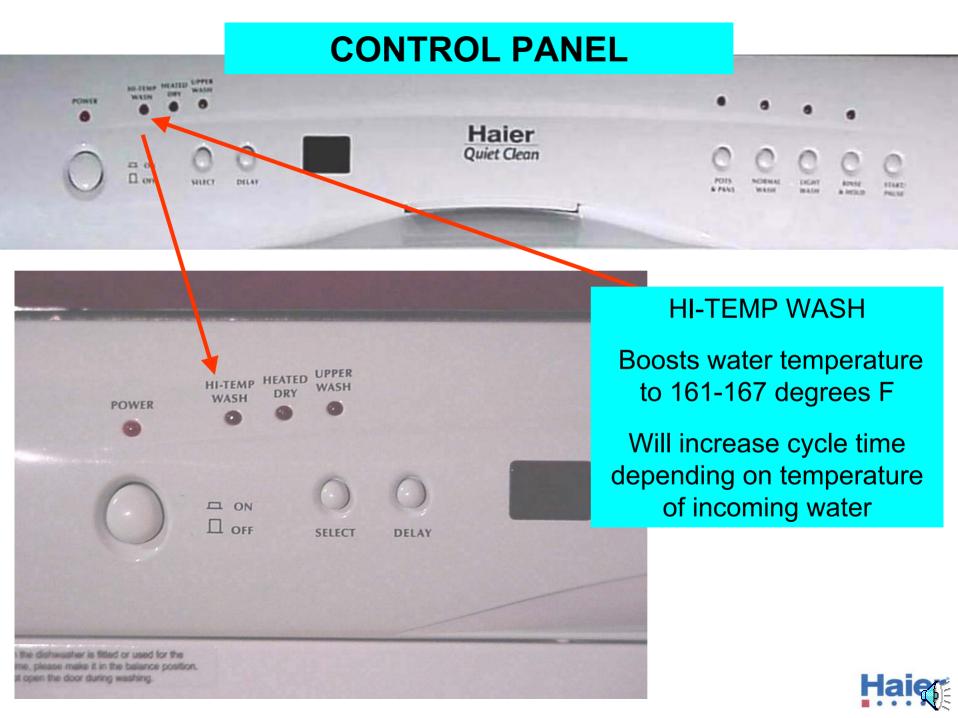


HI-TEMP HEATED UPPER DRY WASH POWER I ON OFF SELECT DELAY the dishwasher is fitted or used for the me, please make it in the balance position.

at open the door during washing.

SELECT
Use to select desired
cycles
Corresponding lights will
light

| To select | Push Select Button |
|--------------------|--------------------|
| Hi-Temp Wash | 1 time |
| Heated dry 2 times | |
| Upper Wash | 3 times |
| Hi-temp wash and | |
| Heated Dry | 4 times |
| Hi-temp wash and | 2 |
| Upper Wash | 5 times |
| Heated Dry and | O films a |
| Upper Wash | 6 times |
| Hi-temp Wash, Heat | |
| Dry & Upper Was | h 7 times Hale |





DELAY

Pressing the delay button sets the delayed start up to 9 hours.

Delay time will be shown in window



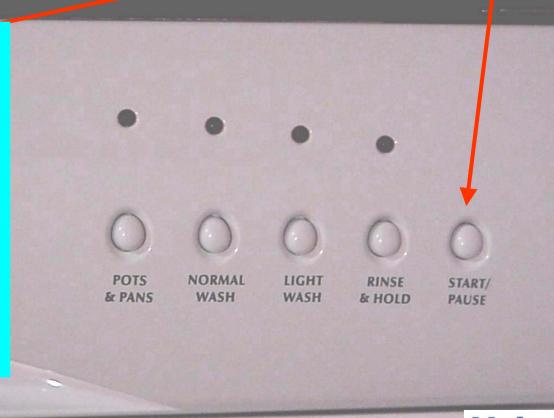


START / PAUSE

Once cycle and options are selected, push
START / PAUSE to begin cycle.

Push again to PAUSE the cycle to open door.

Pressing the POWER button cancels all preset options

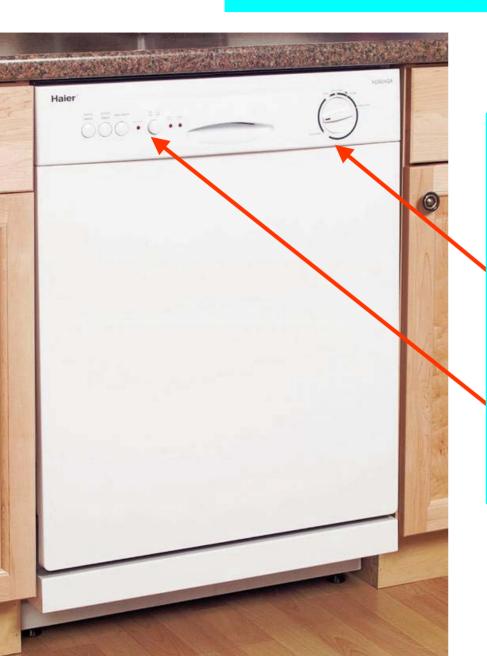




In the event of a water overflow or leak

- the cycle will end
- a drain cycle will be activated to drain tank
 - indicator lamps will flash
 - unit will shut off and not restart until water is removed from base pan





Manual Control Dishwashers

Power Indicator Lamp

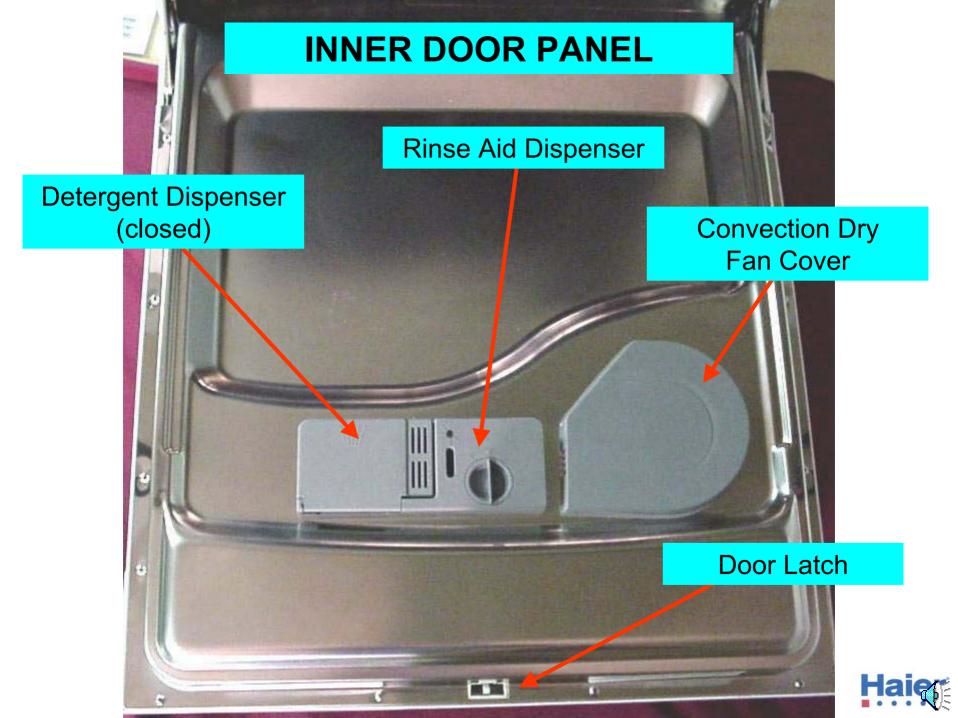
The POWER ON indicator lamp will remain on at the end of the cycle until:

1 – The timer is manually moved to the OFF position

Or

2 – The POWER button on the left side of the control panel is pushed to the OFF position.





DETERGENT CUP

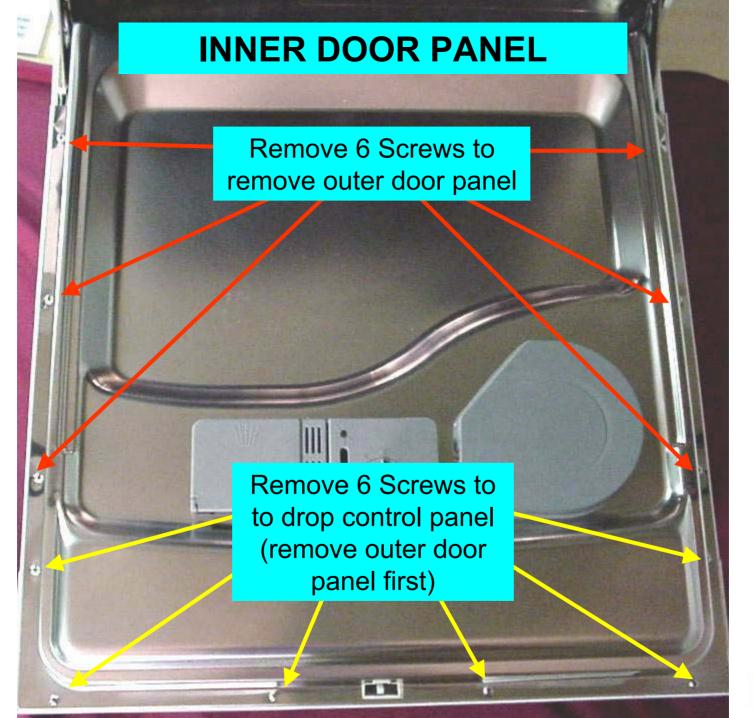
Pre-Wash Cup

Rinse Aid Dispenser (cap off)

Rinse Aid Dispenser setting

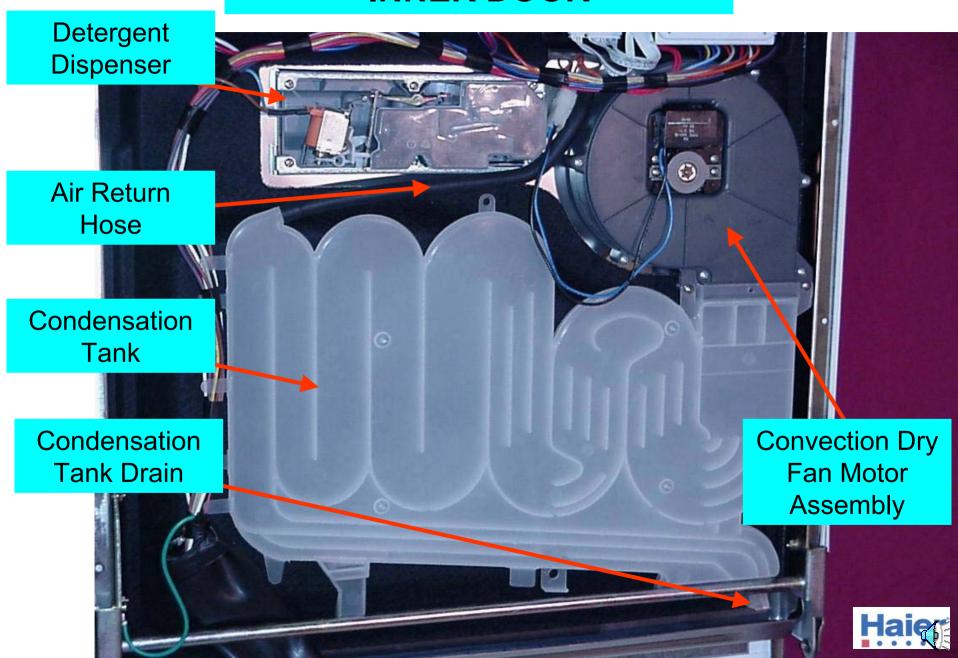
Main Wash
Detergent Cup

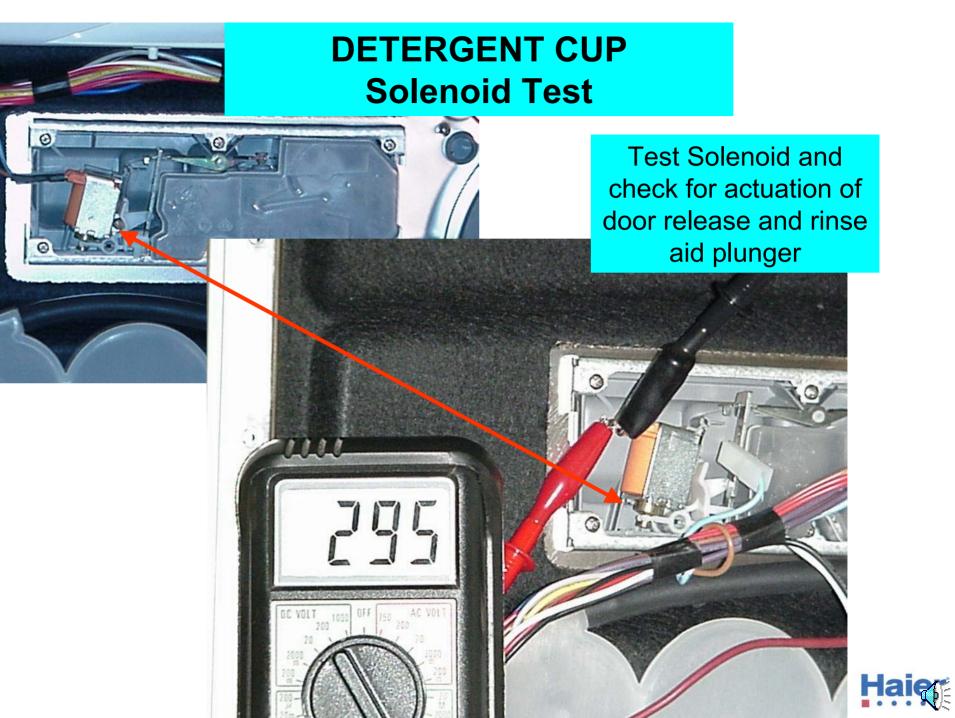






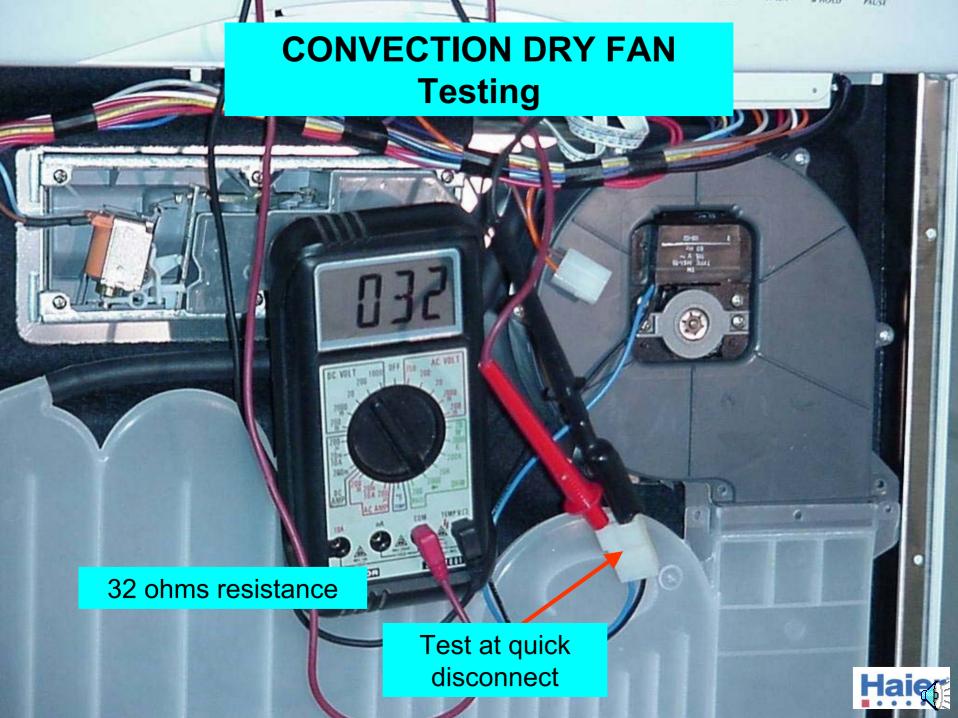
INNER DOOR







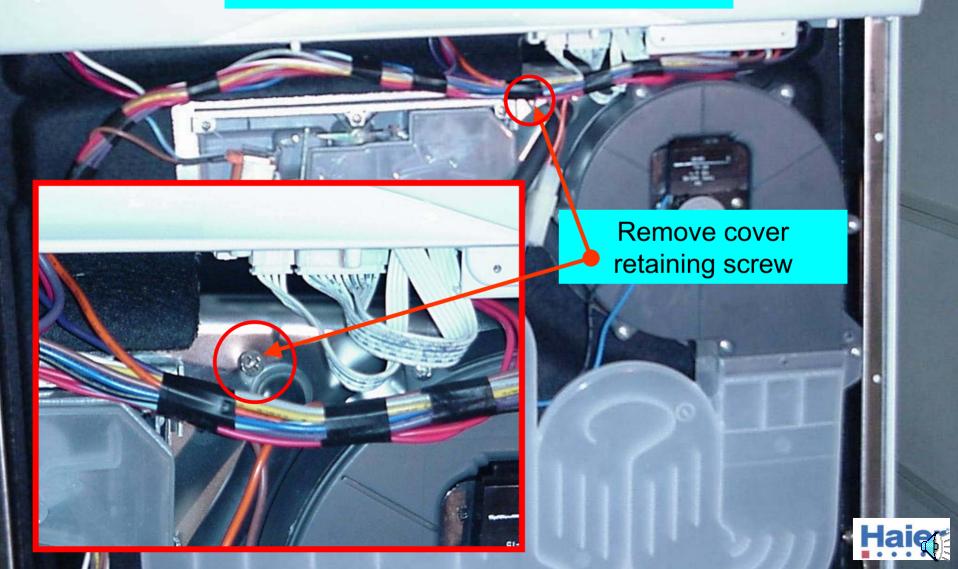
Replace Dispenser unit as an assembly



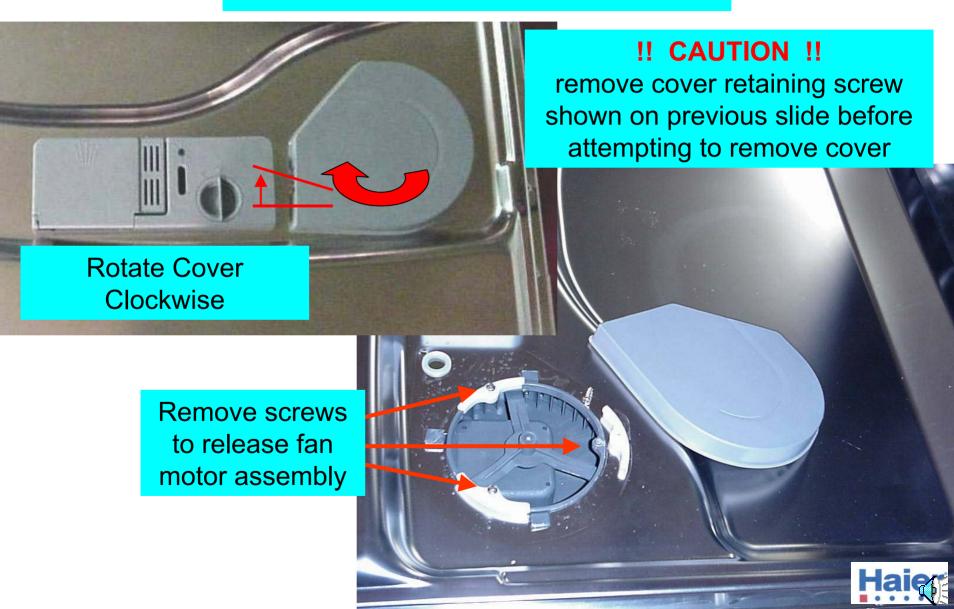


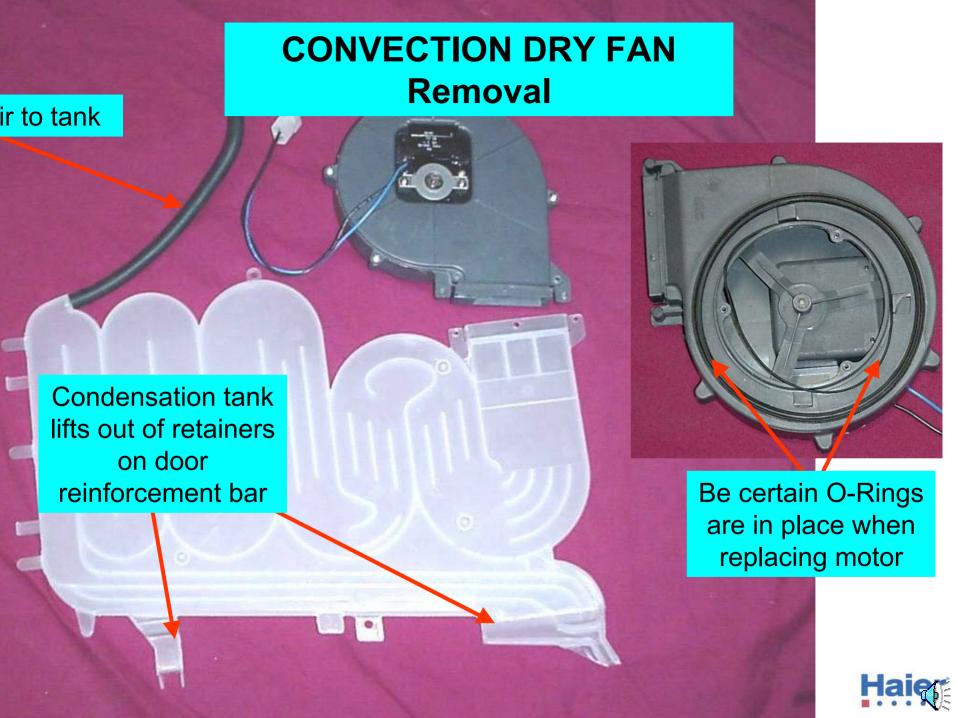
CONVECTION DRY FAN Removal !! IMPORTANT !!





CONVECTION DRY FAN Removal



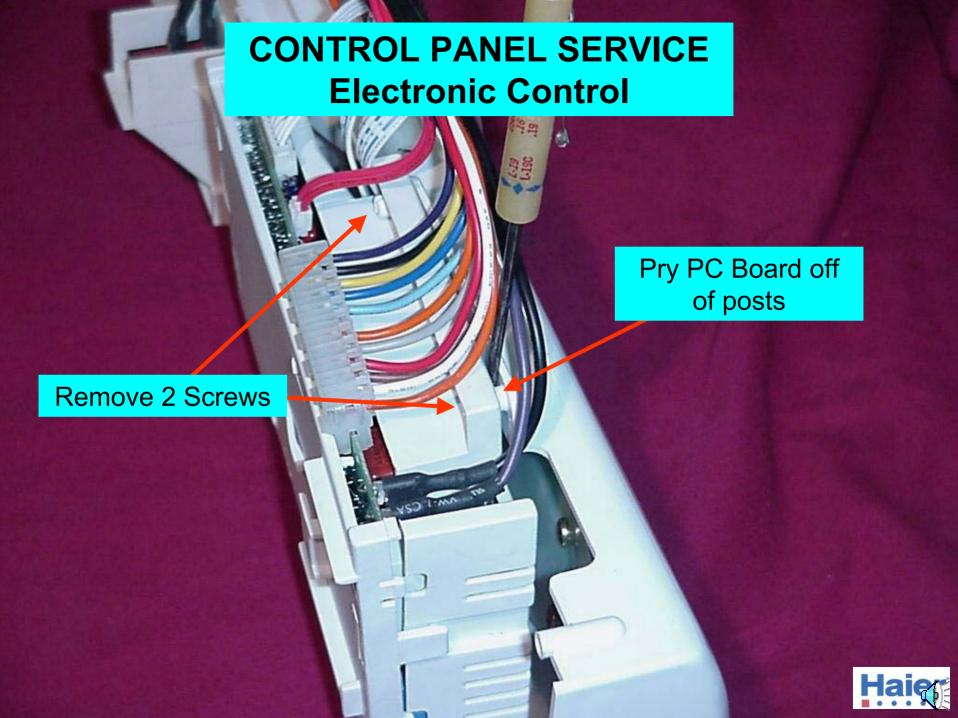


CONTROL PANEL SERVICE



The control can be dropped down for easy service by pulling the wiring harness out of the retainers on the condensation tank.







Temperature Sensing Circuit

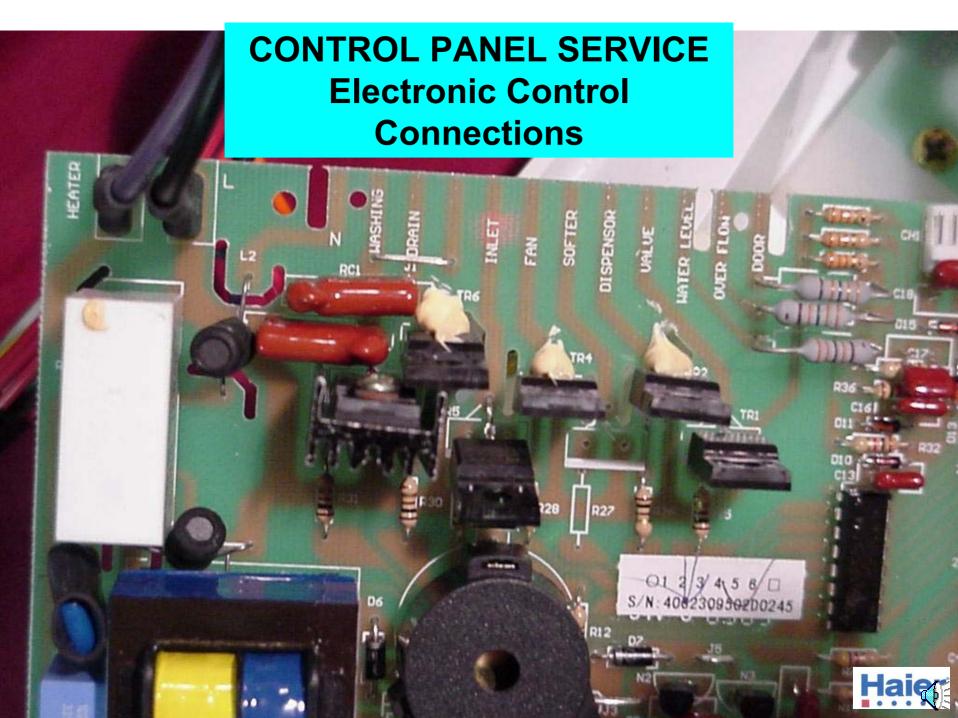
Line In

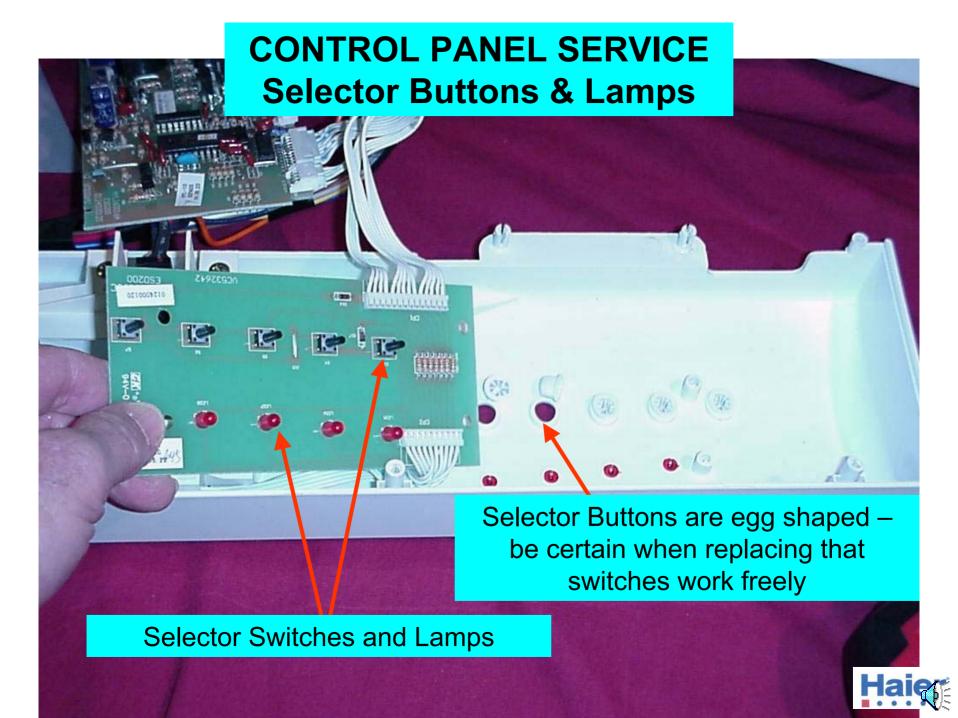
Heater

Control Panel Selector Buttons

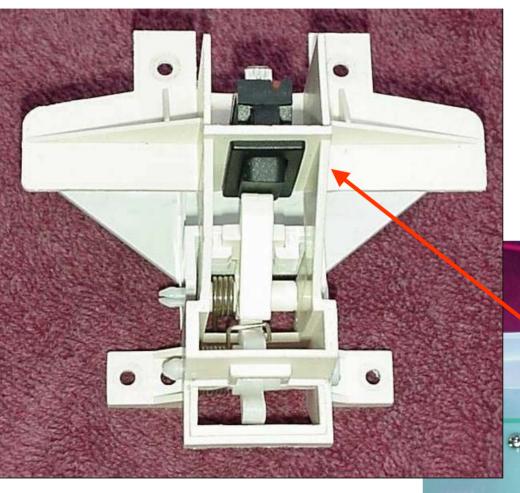
Operational – 120v Connections Valve, Motors, etc except heater





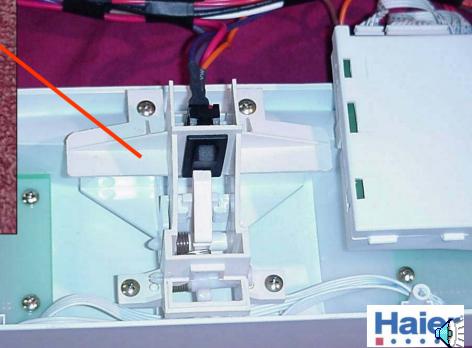


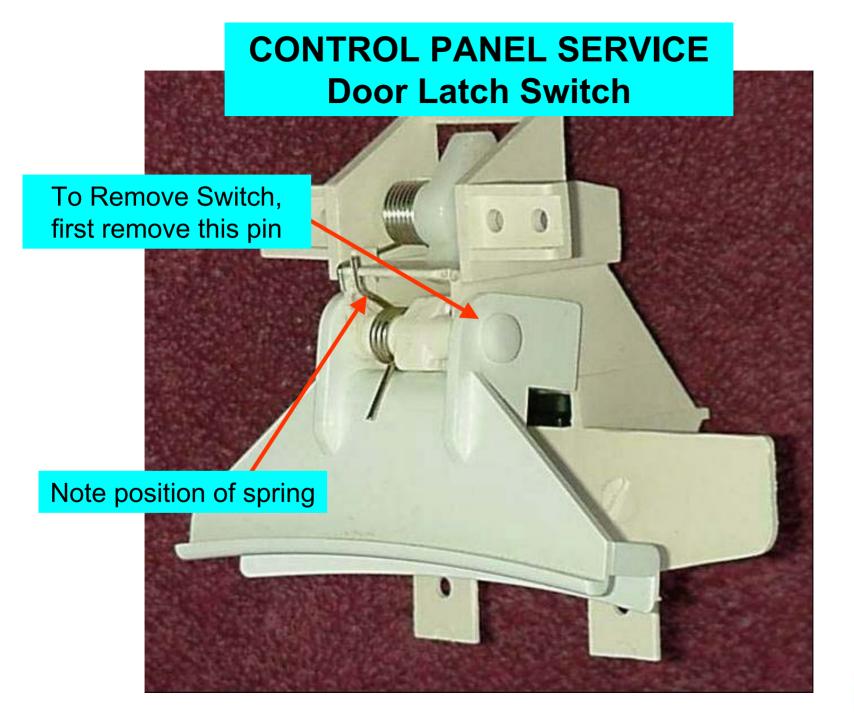
CONTROL PANEL SERVICE Door Latch Assembly



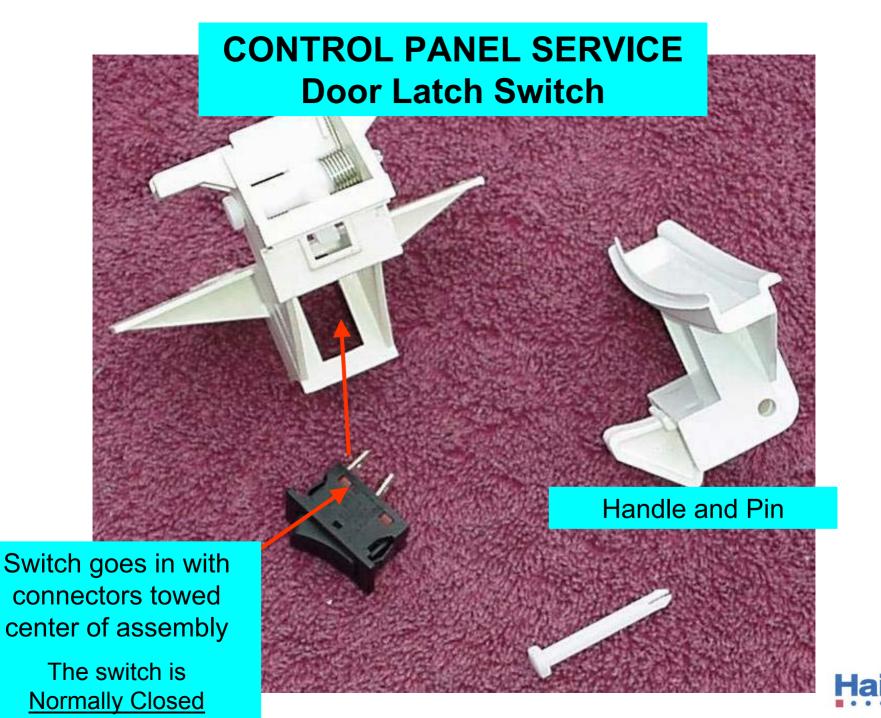
Door Latch Assembly in place

Door Latch Removed for service

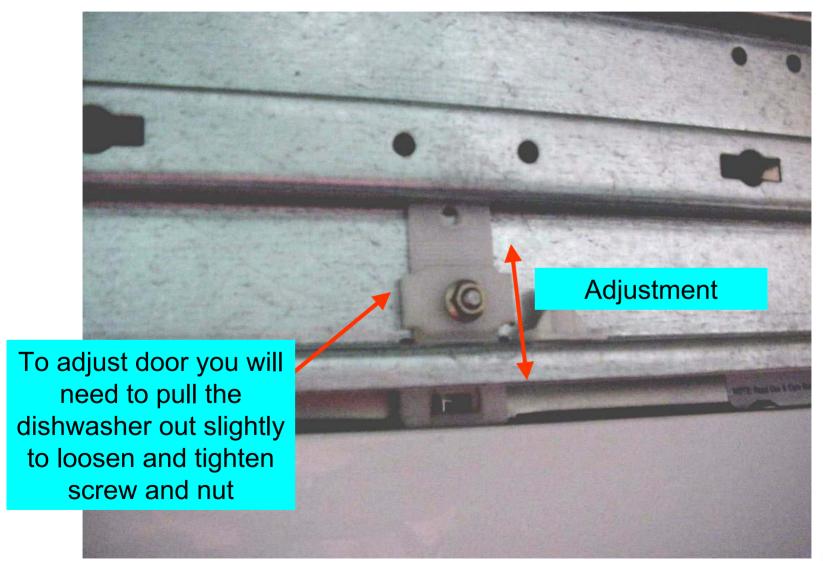








DOOR LATCH STRIKE



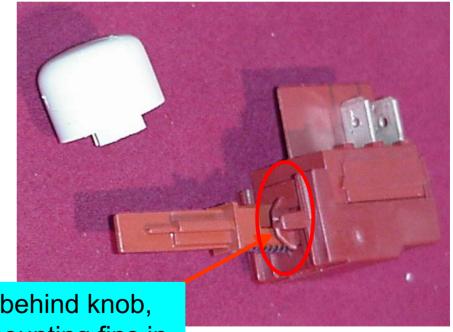


CONTROL PANEL SERVICE Power Switch



Carefully pry knob off of shaft, protecting the face of the control panel with a soft cloth

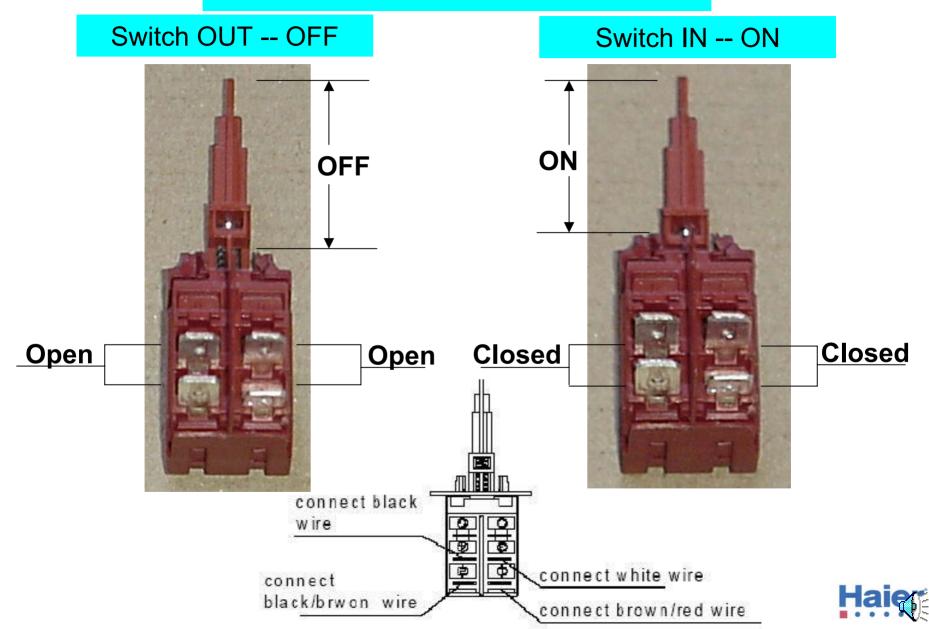




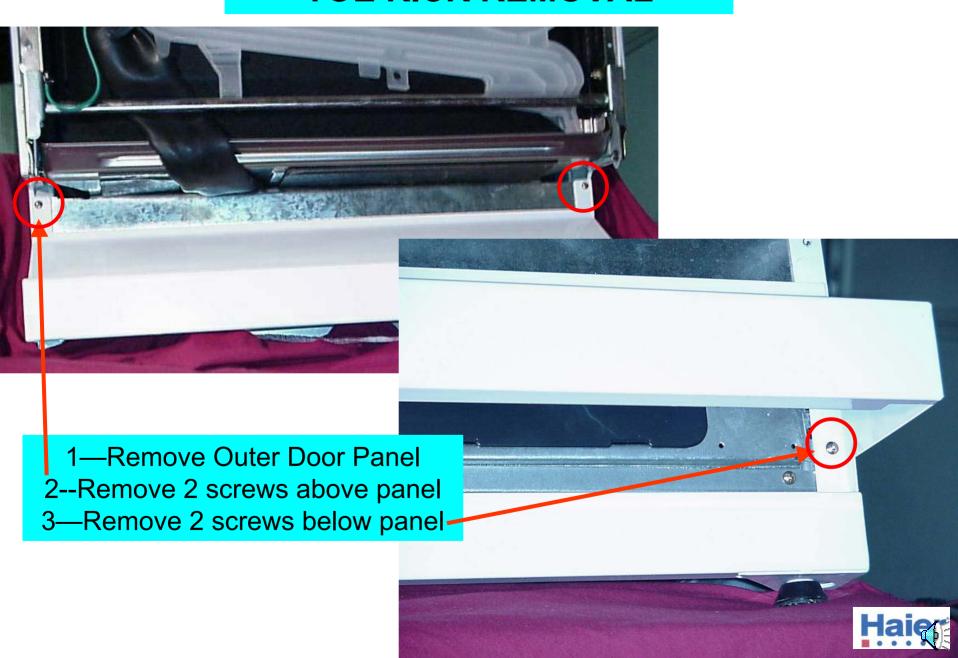
From behind knob, bend mounting fins in and push knob through control panel

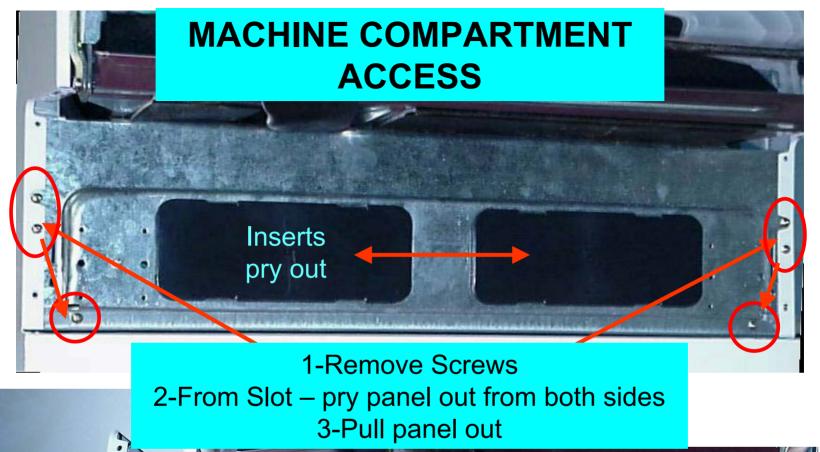


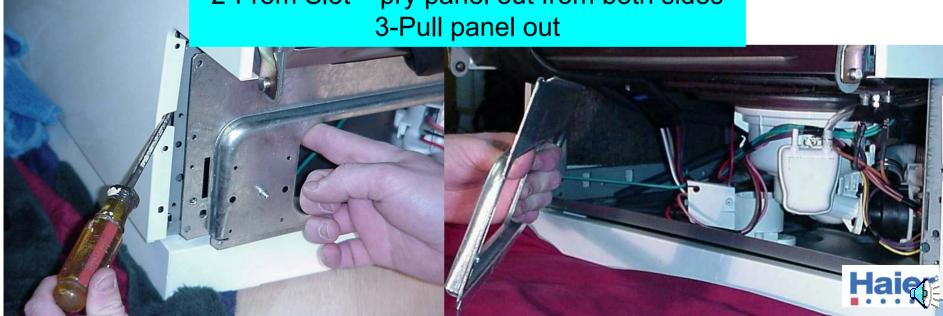
CONTROL PANEL SERVICE Power Switch

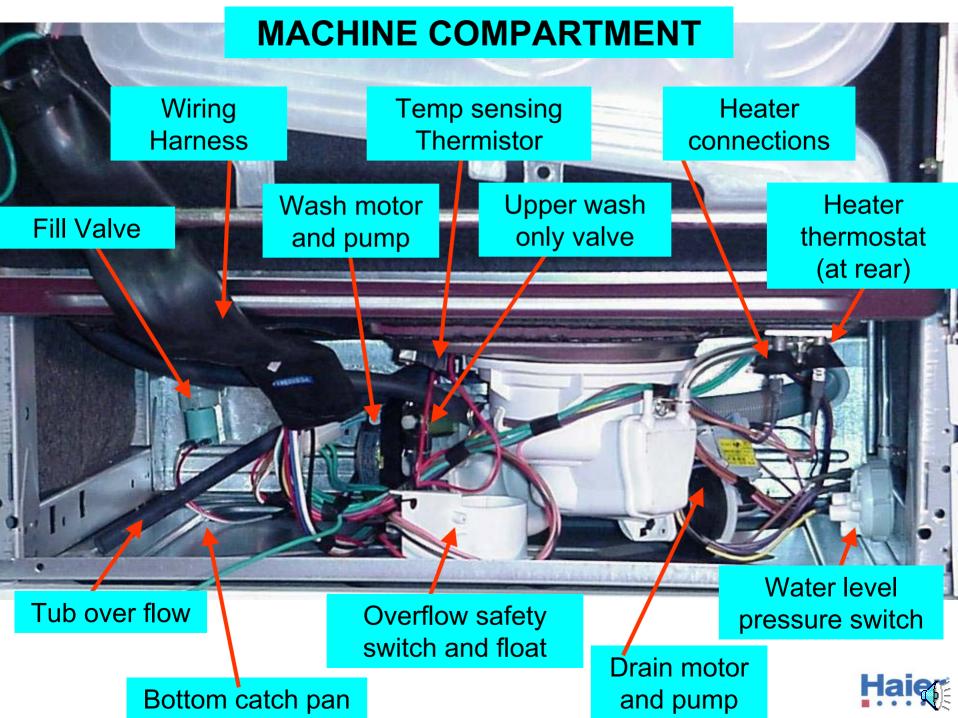


TOE KICK REMOVAL





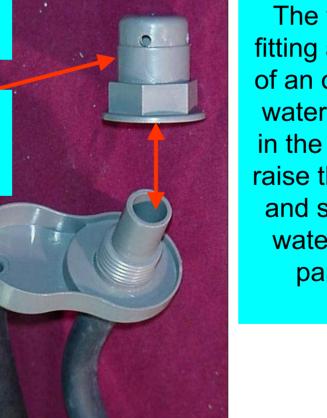






Drain hose from overflow fitting

Cap and standpipe located inside of tank

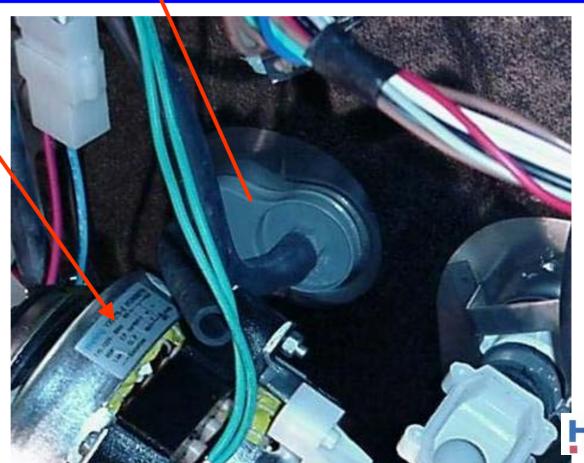


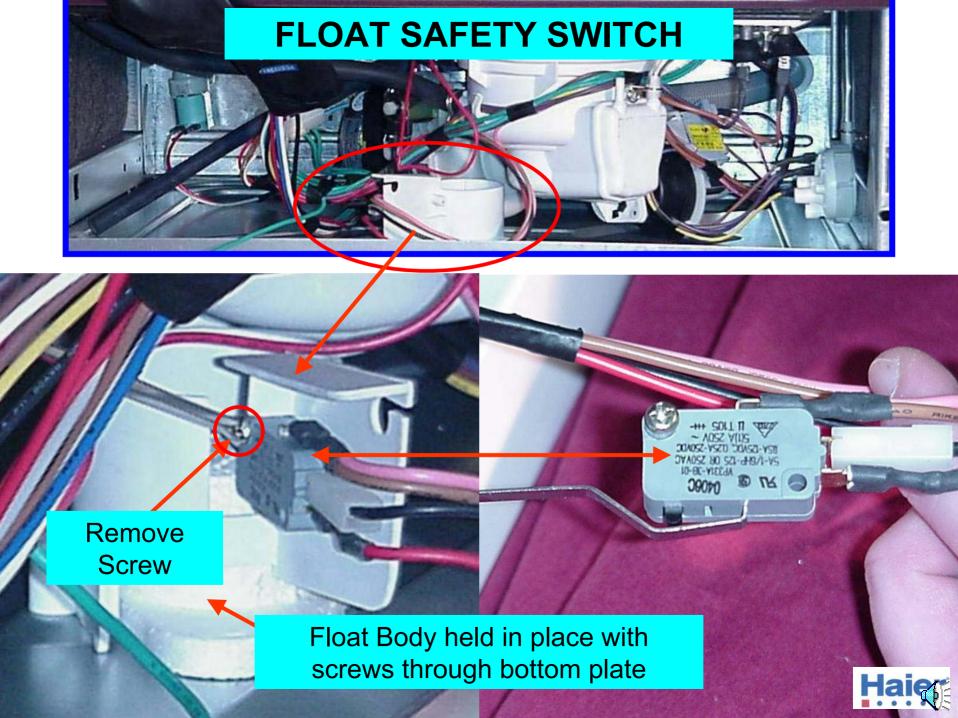
The tank is fitted with an overfill fitting and drain hose. In the event of an overfill or excessive foaming, water will escape through a fitting in the bottom of the tank. This will raise the float and start a pump-out and shut-down procedure. Once water is removed from the base pan, the dishwasher can be restarted.



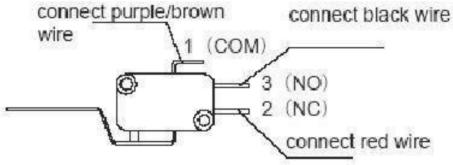


Pump Motor









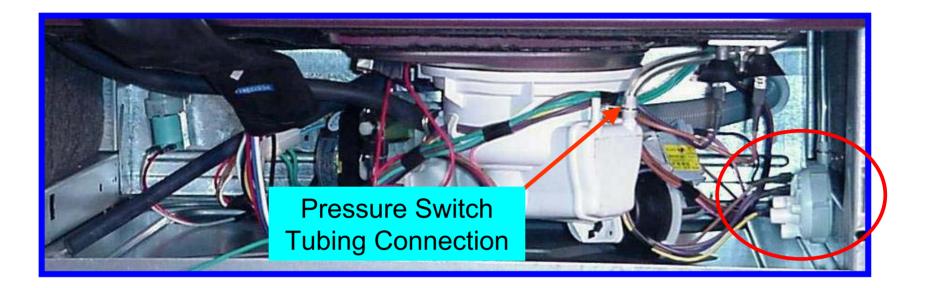
In the NC mode, the switch allows for normal fill and wash cycles.

If the float senses water in the base pan, power bypasses the fill valve and activates through the pc board a drain and alarm cycle.

The dishwasher will not restart until the float drops.



WATER LEVEL PRESSURE SWITCH



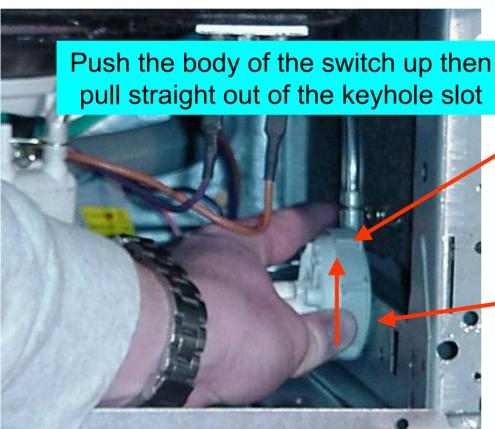
Principal of Operation

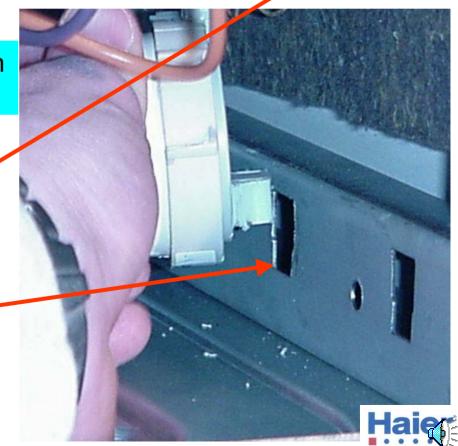
The water level is controlled by a pressure switch located on the right side of the base and connected through a plastic tube to the water sump. This switch controls both the fill and drain cycles.

The tubing is routed over a vent located behind the right side panel and accessed by removing the panel.



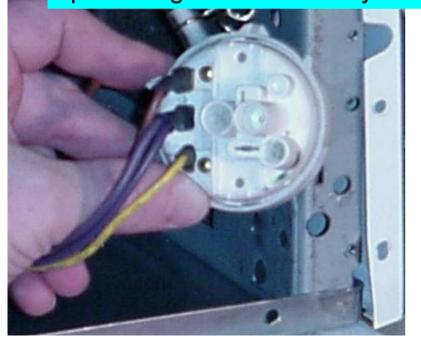


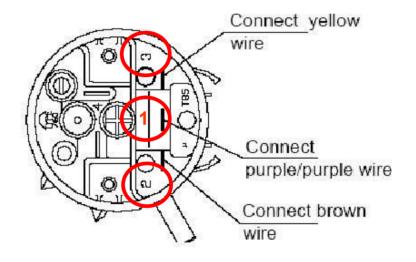


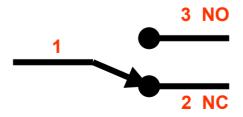




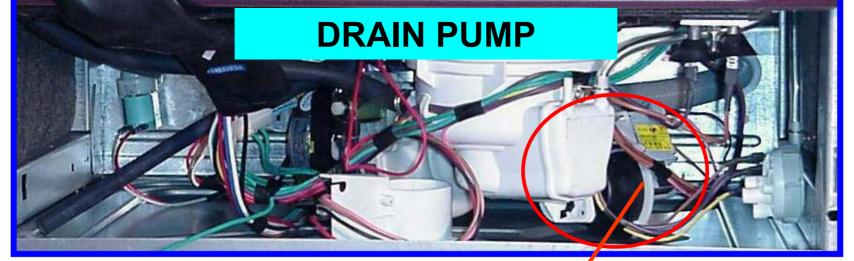
Push the body of the switch up then pull straight out of the keyhole slot

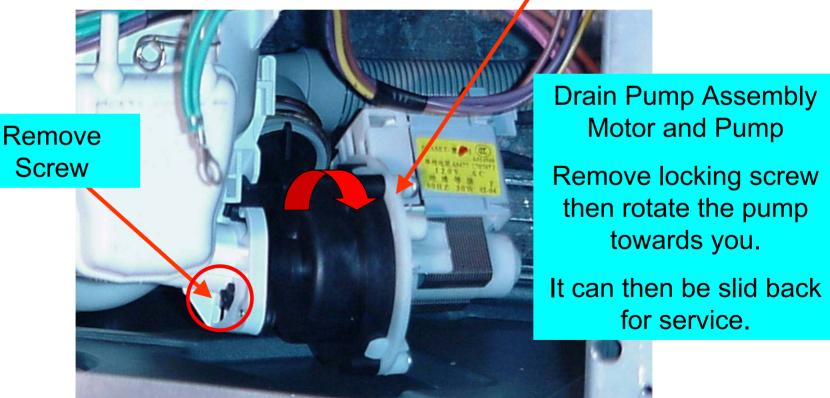






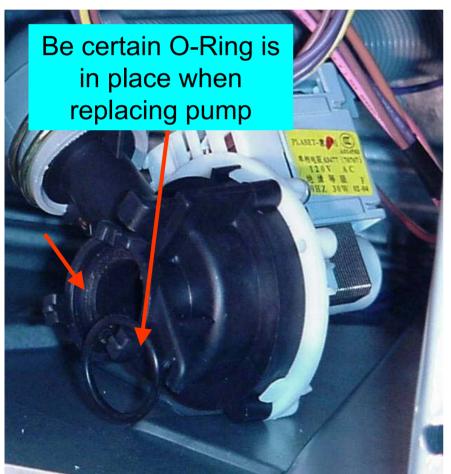


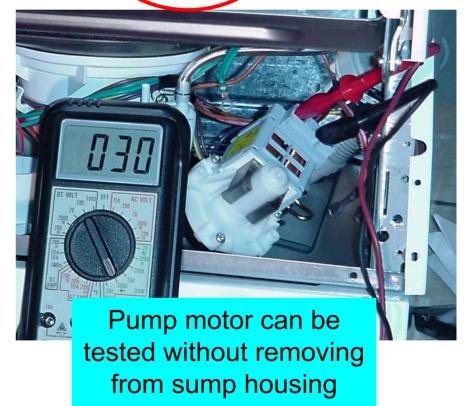




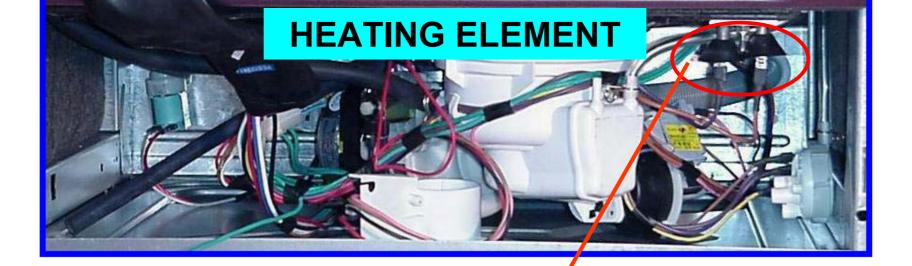


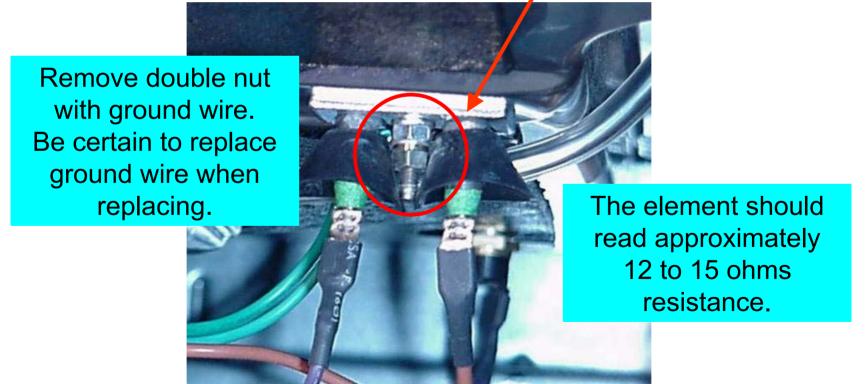




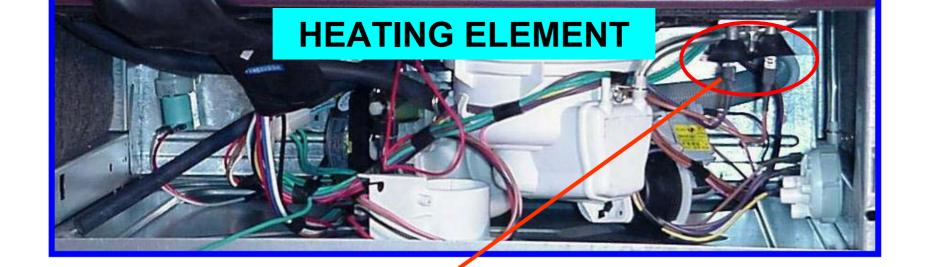


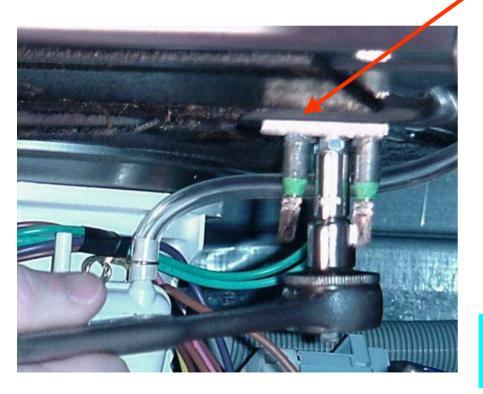


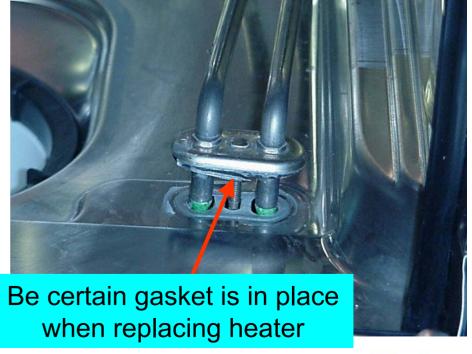






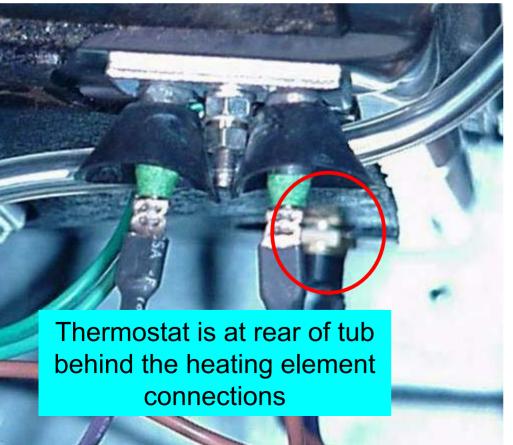


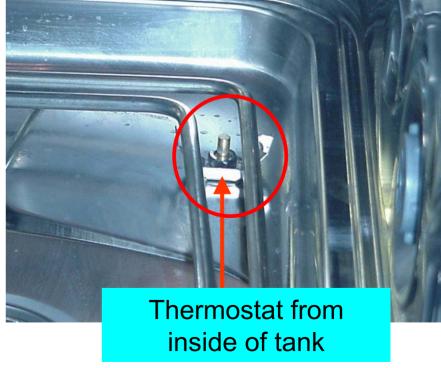






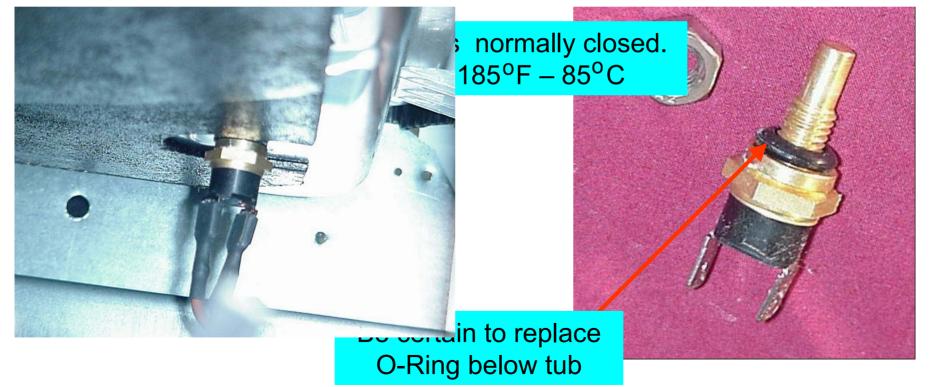






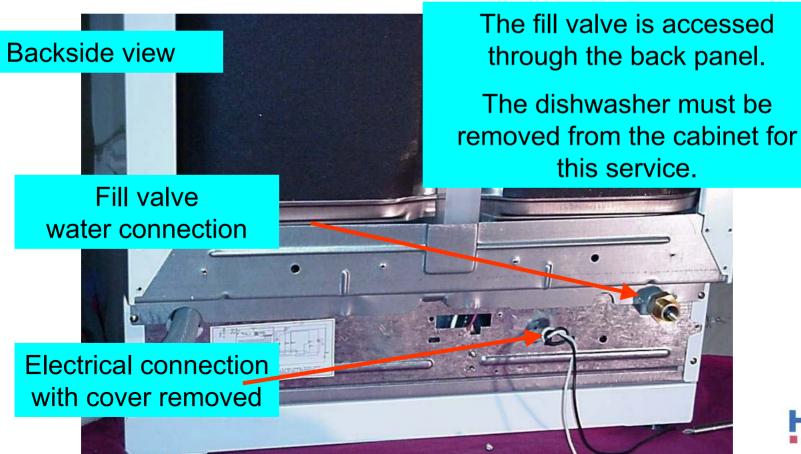






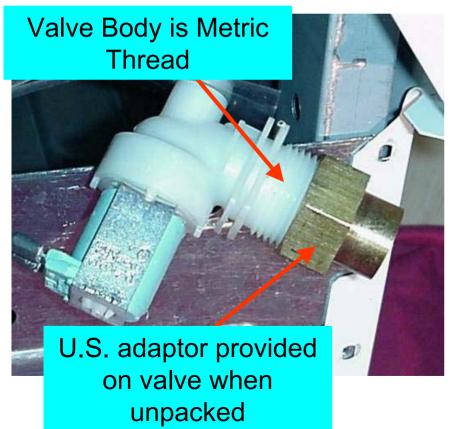










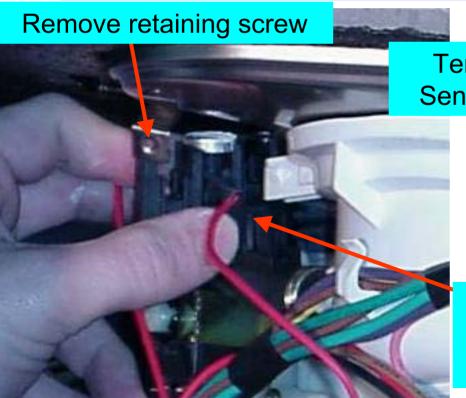




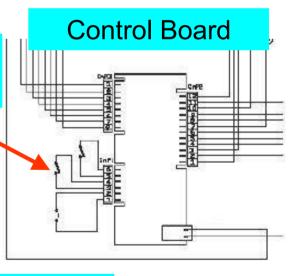


TEMPERATURE SENSING CIRCUIT



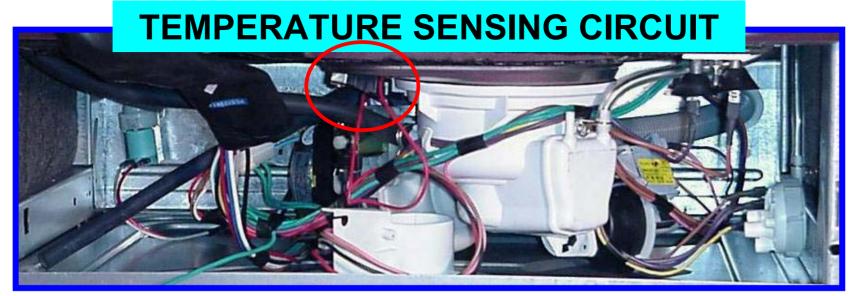


Temperature Sensing Circuit



Release snap clip and pull mounting bracket back and down





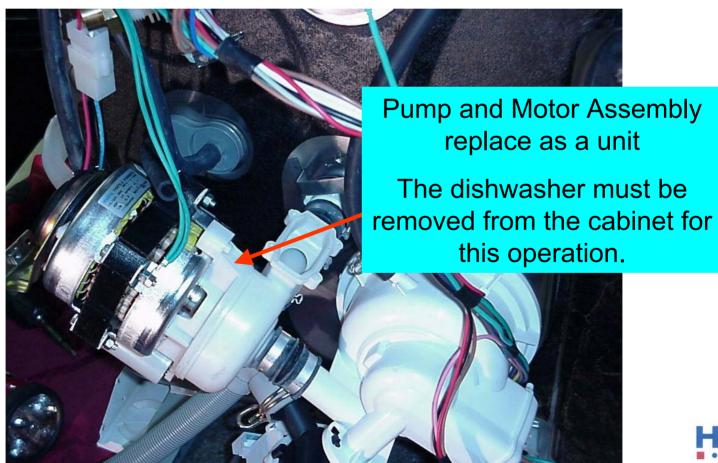


NTC Thermistor should read approximately 1100 ohms at 70°F

NTC Thermistor resistance will drop as temperature rises

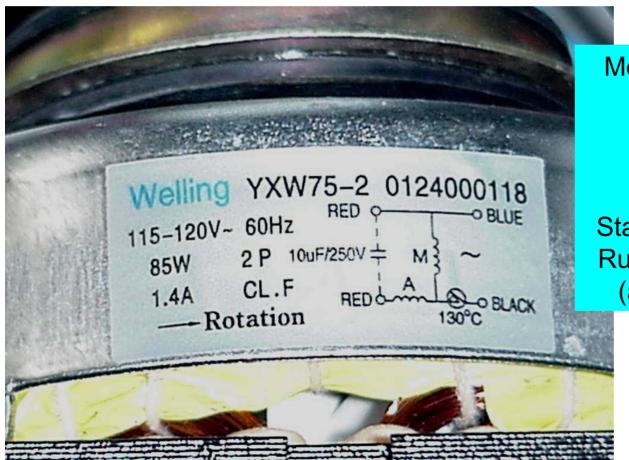












Motor is a single direction capacitor start motor.

Using Motor leads
(not connector leads)
Start Winding A = 25 ohms
Run Winding M = 17 ohms
(approximate readings)





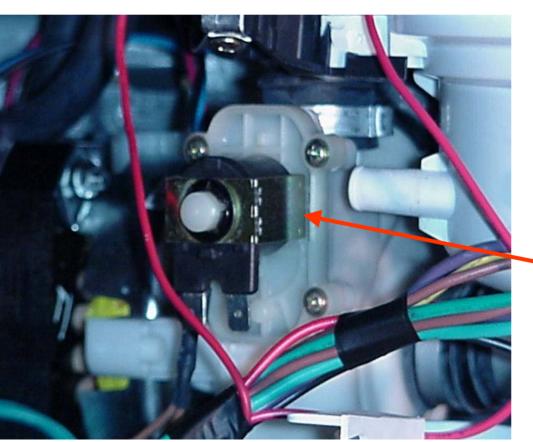


Motor capacitor

Motor wiring connector





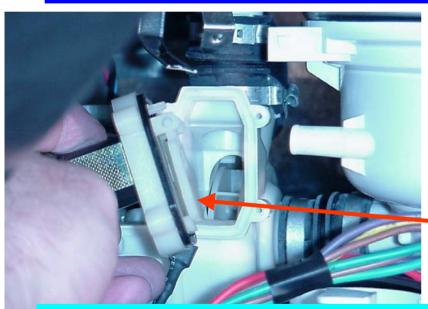


Some models are equipped with an <u>upper wash only</u> option. In this mode, a diverter valve diverts all water to the upper wash arm located on the bottom of the upper rack.

Valve is solenoid operated and located on side of pump body





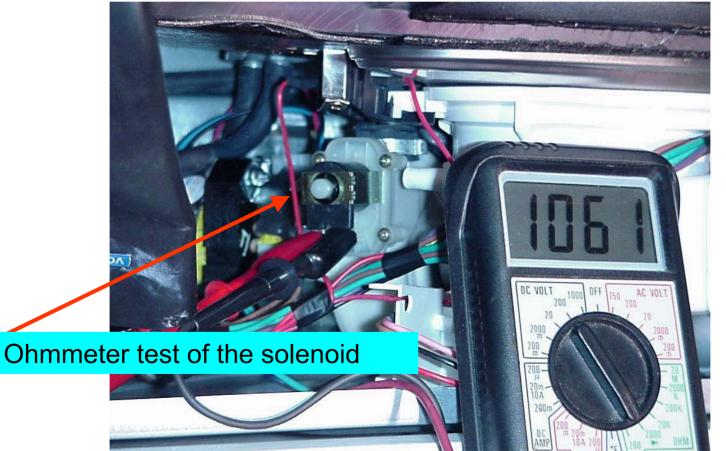




When power is applied to the solenoid, the plunger pushes the lock spring outward allowing the diverter flap to open. The flap will be held open with water pressure from the pump and close automatically at the end of the cycle.

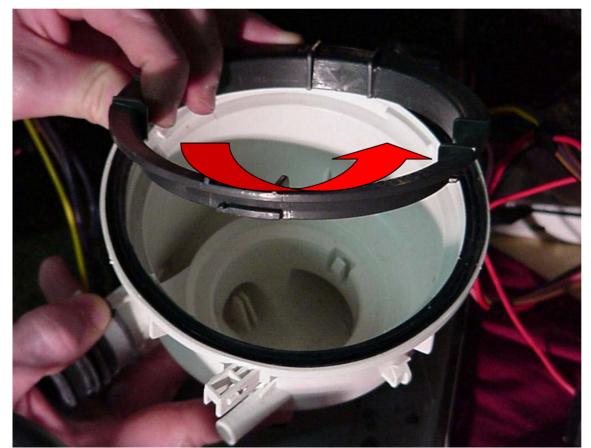








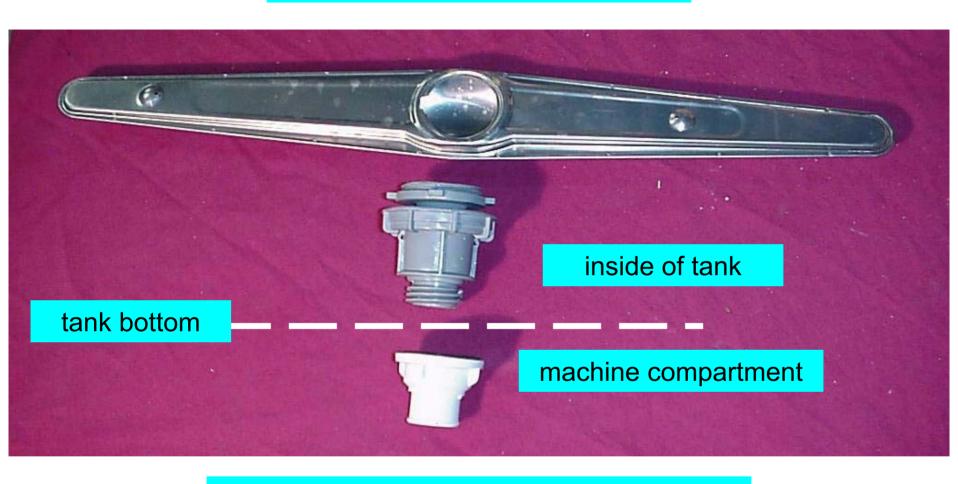




The filter and sump housing is removed by turning the retainer ring located in the bottom of the tank. Twist the clamp ring counter-clockwise to release. Remove the sump from the machine area.



LOWER WASH ARM



The lower wash arm is located directly above the pump. The fittings through the bottom of the tank are serviceable by removing the spray arm and riser and base



TROUBLE SHOOTING Water Level Normal water level is shown by the arrow between the 2 lines. The tank is slightly tapered and the water will fill to this area.

TROUBLE SHOOTING Control Panel Signals

An automatic troubleshooting program is built into the control board to diagnose certain functions.





TROUBLE SHOOTING Long Wash Times

Incoming water should be at least 120_oF

If the incoming water is below that level, the heating element will be energized during the wash and rinse cycle until the temperature of the water reaches a preset level, depending on the option.

The cycle will be extended for the period of time that the heating element is on.

The heater will draw approximately 10.5 amps and can be checked for operation with an amp probe.







THANK YOU















