

# Fault Code/Diagnosis

The following are examples of the methods used by the controller to provide test information:

**F-1 Fill Valve**

Following the fill cycle the controller will look for conductivity (the presence of water) in the sump through the WPS. If a conductive path is not found the controller will signal that the water valve or a related system might have malfunctioned.

**F-2 Circulation Pump/Drying Fan**

The controller will look for relay closure on the power board. Individual componetry is not checked for continuity or proper function.

**F-3 Heater**

During the wash and rinse cycles the WPS will monitor water temperature. If the controller does not detect a rise in water temperature within a certain time frame the controller will signal that the heater or the related circuitry may have failed.

**F-4 Drain Pump**

Following a drain cycle, the WPS will again look for conductivity. If water is still present in the sump the controller will signal a faulty drain pump.

**F-8 Communication Failure**

Defined as an error in data transfer between the control board (master micro on the board) and the power board (slave 1 micro on the board). This error can occur in a few ways:

Wet connector (most common). There are 4 wires in the low voltage connector going from the control board in the door to the relay board in the base. These wires carry the following:

- Ground
- 5 VDC power
- Data (sends communication signal from board to board)
- Neutral

DISPLAY	INDICATES
F-1	INLET VALVE
F-2	CIRCULATION PUMP
F-3	ELECTRICAL
F-4	DRAIN PUMP
F-5	AIR FLOW FAN
F-6	CONTROLLER/FLOOR GUARD
F-7	EEPROM FAILURE
F-8	COMMUNICATION FAILURE
F-9	WPS SENSOR

## Manual Test Procedure Initiation Instructions

1. Disconnect Electrical Supply to dishwasher and immediately reconnect - door .
2. Within 5 seconds of power up press the Dry and Energy Save buttons simultaneously for 3 seconds to access the Manual Test Mode.

\*\*In most installations door will need to be open to access keypad. The servicer will need to insert a door strike into latch to initiate test.

The manual test procedure allows you to test individual components for proper function.

To exit manual test mode press cancel secure

STEP	KEYPAD	RESPONSE
1	NORMAL	NORMAL LED LIGHTS UP AND DRYING FAN ACTIVATES
2	HEAVY	HEAVY LED LIGHTS UP AND SOAP CUP OPENS
3	CRYSTAL	CRYSTAL LED LIGHTS UP AND CIRCULATION PUMP ACTIVATES (with door open. Be sure to watch for spray)
4	RINSE	RINSE LED LIGHTS UP AND HEATER RECEIVES 120 VAC
5	ENERGY SAVE	ENERGY SAVE LED LIGHTS UP AND DRAIN PUMP ACTIVATES
6	DRY	DRY LED LIGHTS UP AND WATER VALVE ACTIVATES
7	DELAY	DRY LED AND ALL OPTPUTS TURN OFF. THE DISPLAY WILL SHOW ER- ROR CONDITIONS (EACH PRESS OF DELAY SCROLLS THROUGH ALL ERROR CONDITIONS)
8	SANI RINSE	SANI RINSE LED LIGHTS UP AND THE DISPLAY SHOWS CURRENT SOFTWARE VERSION
9	START	START LED LIGHTS UP AND THE DISPLAY SHOWS THE CURRENT EE- PROM VERSION
12	CANCEL	EVERYTHING TURNS OFF AND CONTROL RETURNS TO IDLE STATE

## The Dacor WPS System

- Temperature management
- Conductivity = defined as the ability to pass electricity from one source to another. In this case water is the medium
- Turbidity = the measurement of water clarity

The WPS sensor consists of a printed circuit board enclosed within a transparent body. The sensor probes are thermally and electrically exposed to the environment that they need to sense. The sensor also contains the (turbidity) sensor portion of the WPS. If the control / WPS system detects anything unusual during the cycle it notifies the user that something has happened and clearly defines the problem. Based on this feedback corrective actions can be taken to remedy the problem.

Dacor's dishwashers will add or delete fill, rinse or wash cycles to minimize energy consumption or maximize efficiency. The main controller determines wash and rinse times, manages fill and purge cycles and monitors water temperatures to make adjustments accordingly.

## Dacor Aqua Stop / Floor Guard

The Dacor Aqua Stop is a safety feature designed to guard against leaks. The system is located in the lower base pan of the dishwasher and, except for one microswitch that notifies the controller that an error has occurred, is completely mechanical. It is comprised of two separate components tied together by a flexible plastic air hose. The actuator or (trigger) houses a small replaceable sponge (part # 66848) that, when moistened; expands and applies pressure to a small triggering device attached to an air plunger.

When released, this plunger sends a pulse of air to the secondary portion of the system, the mechanical water shut off valve. When closed, the valve will not allow any water to pass through the inlet water valve and into the dishwasher tank.

This valve has a visible red indicator that when closed (activated) will pop up. In the normally open position the indicator will remain down and will be difficult to see through the clear domed top cap. To re-set the valve; remove the cap and press the plunger down. The valve will, again, let water pass through to the inlet water valve.

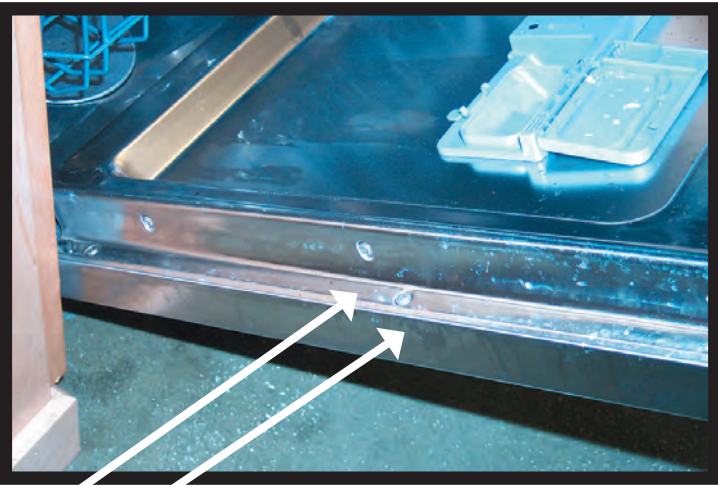
To re-set the entire system you will need to:

1. Determine and repair the cause of the leak.
2. Remove the trigger mechanism from the mounting hardware and extract the sponge.
3. Remove any traces of water in the base pan and thoroughly dry trigger and sponge receptacle.
4. Install a new sponge in the trigger mechanism/ reinstall the sponge cover and re-set the plunger.
5. Re-install the trigger mechanism
6. Access the shut off valve and re-set the indicator button.
7. Test the unit for proper function

# WATER TEMPERATURE CONTROL

MODE	PROCESS	NORMAL	HEAVY	CRYSTAL	RINSE	SANI
NORMAL	WASH	140F	150F	120F	N/A	N/A
	RINSE	155F	155F	140F	155F	165F
ENERGY SAVE	WASH	130F	130F	115F	N/A	N/A
	RINSE	130F	140F	120F	130F	165F

## Door Separation Step 1



1) Remove all 18 screws around the perimeter of the door  
*Fig # DW30-3*

\*\* Make note of the location of these screws.  
The screws illustrated in  
Fig # DW30-3 are different  
than the remaining 10



2) To remove latch, remove the two screws at the top  
of the door liner  
*Fig # DW30-4*  
See Fig # DW30-4

## Detergent Cup Removal STEP 2

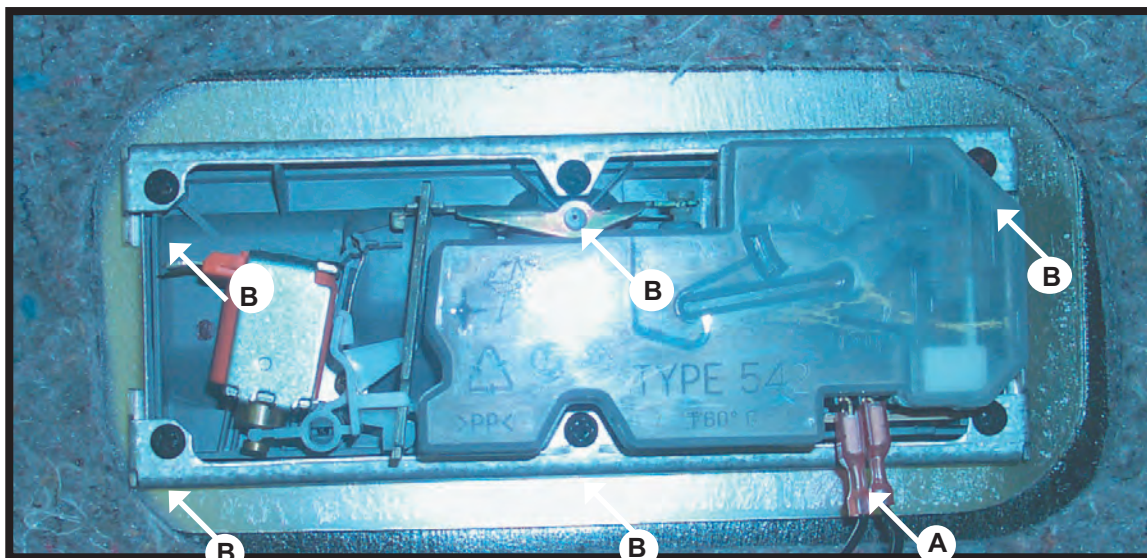


Fig # DW30-1

- 1) The soap dispenser is removed from the rear of the door inner panel.  
Separate the inner and outer panels ( See step # 1 )
- 2) Remove the two wires from the cup actuator ( See Fig # DW30-1, A )
- 3) Remove the six screws holding the two brackets, upper & lower ( See Fig. # DW30-1, B )
- 4) Remove dispenser by pushing towards the inside portion of the inner door liner.



## Filter Removal and Sump Access

### STEP 3

- 1) Remove inner filter by turning CCW & pulling straight up. ( See fig DW30-2.1)
- 2) Outer filter is removed the same way. ( See fig DW30-2.2)
- 3) After removing the inner and outer filters, sump cover can be lifted to access the sump flange. ( See fig DW30-2.3 )

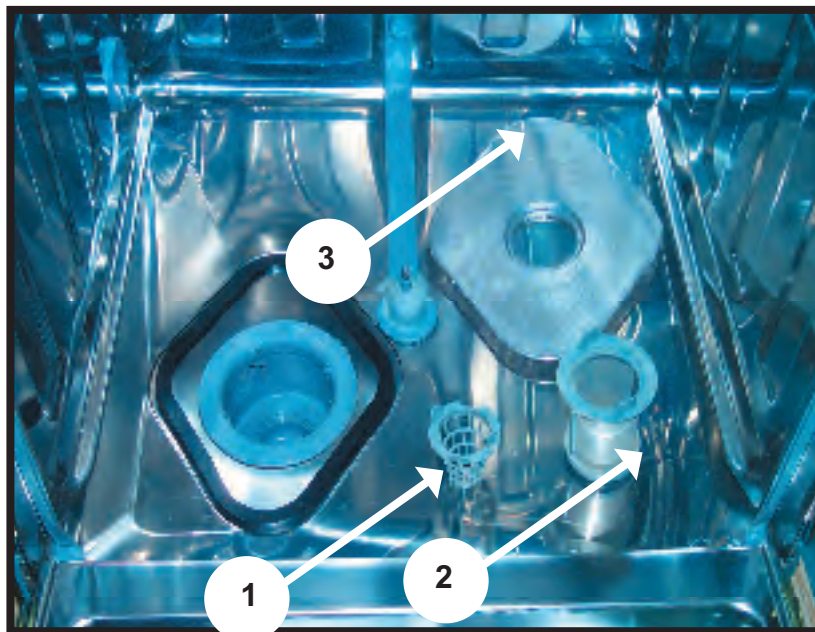
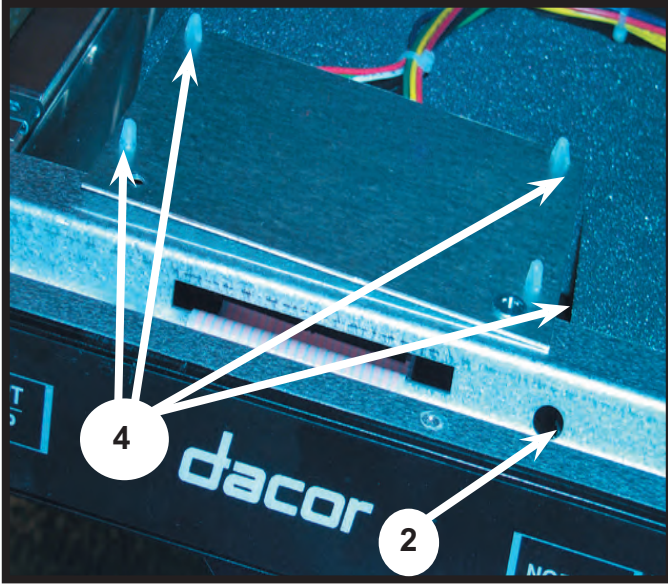


Fig DW30-2

# Control Board

## STEP 4



*Fig # DW30-10*

- 1) Separate inner and outer door panels. See step # 1
- 2) Remove two screws from top of control panel cover  
( See Fig # DW30-10 )
- 3) Flip assembly over, exposing the circuit board.
- 4) Compress 4 plastic keepers on board side, releasing circuit board from cover.  
( See Fig # DW30-11 )



## SUMP REMOVAL

### Step 5

- 1) Remove filters ( See step # 3 )
- 2) Remove WPS sensor from front of Sump ( See Fig # DW30-7 )
- 3) Remove Sump securing flange inside Dishwasher, turning CCW. ( See Fig DW30-5)
- 4) Move drain pump out of the way. See step #
- 5) Remove hoses from sump.
- 6) Slide sump to the right. (See Fig # DW30-6 )  
Pull forward and release sump from assembly

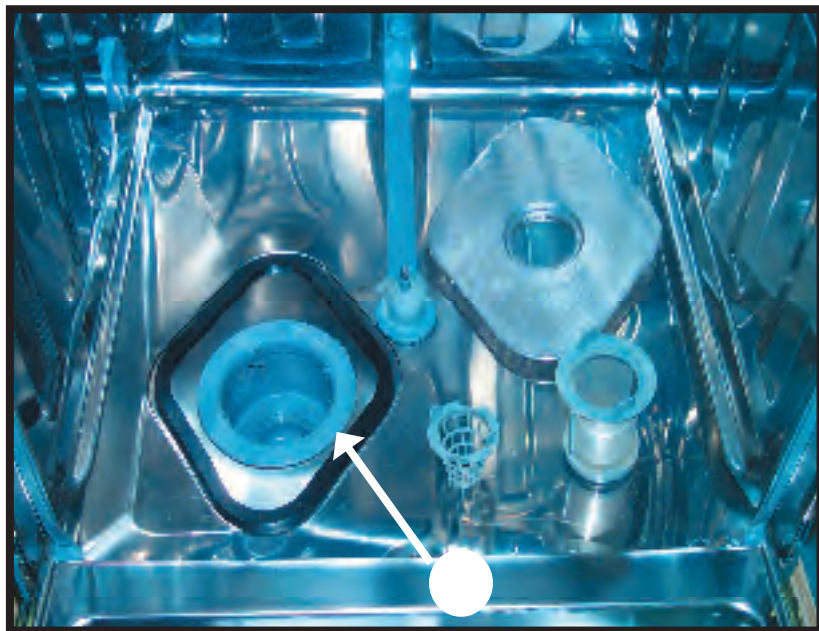


Fig # DW30-5

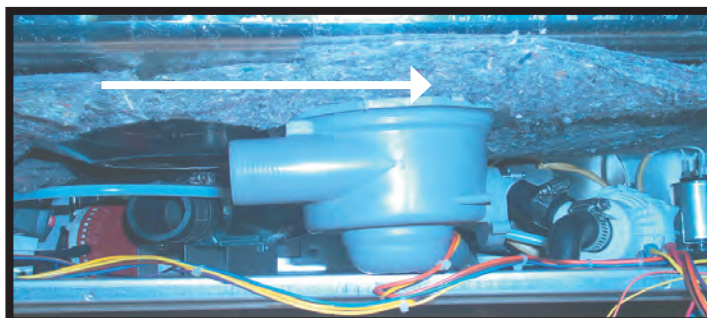


Fig DW30-6

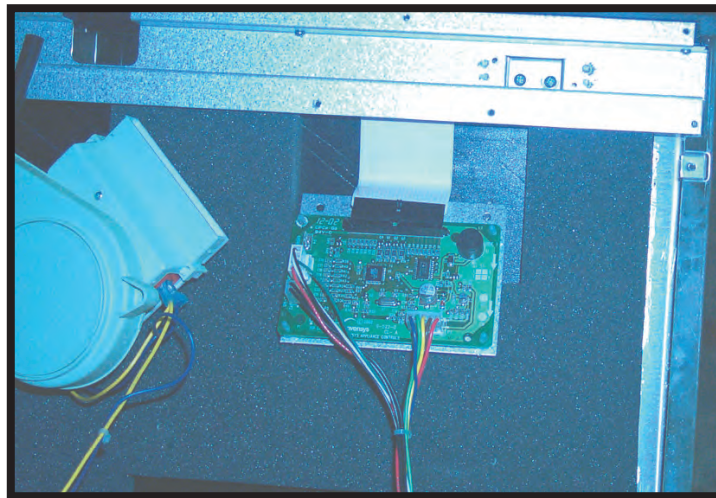


Fig # DW30-7

## Relay Board Removal (Power Board)

### STEP 6

1. Remove Kick panel
2. Remove Access Panel (7 screws)
3. Cut wire ties in bundles leading to BOARD - this will free wires for removal
4. Move floorguard forward and out of the way. The floorguard is attached to the base of the DW with fabric attachment tape (like velcro)
5. Move or pivot top of board to left, until almost parallel to bottom of dishwasher
6. Pull board forward and out of unit (carefully so as not to disconnect wires)
7. Move wires from old board to new, positions will be the same
8. Reinstall board in reverse of previous steps

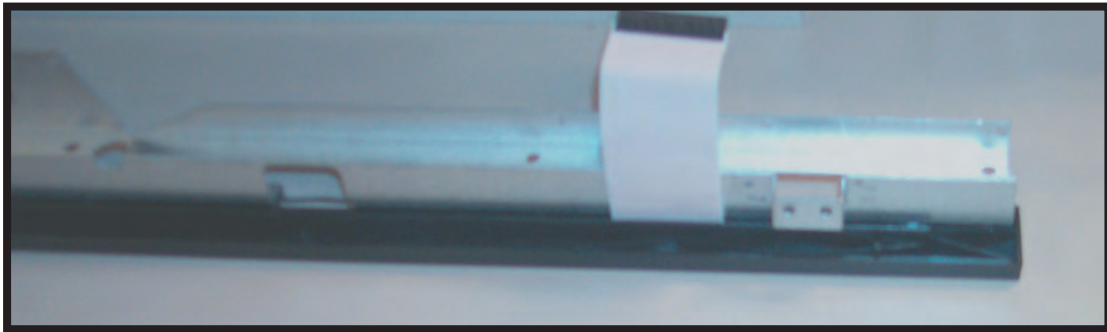


## Bezel Removal

### STEP 7

To remove bezel and membrane assembly:

1. Separate inner and outer door
2. Disconnect membrane ribbon cable from control board
3. Remove 4 handle screws
4. Slide entire bezel mechanisms up and away from unit.  
Membrane and bezel are replaced as an assembly



***dacor***<sup>®</sup>

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