



**Perfect[™]
Pint**

Sovereign Glasswasher

Errors Manual

Errors



If the machine experiences an operational error, this is indicated by the Service Lamp flashing red.

The Service LED on the Control Panel will flash at a rate depending on the particular error. A lower error number has priority over a higher error number.

Data Fault

Parameter corruption or incorrect Eprom fitted.

All Control Panel LED's will flash. The machine is unusable.

Check that the correct Eprom is fitted.

Press the START Switch to load the default parameter data. The machine will Start to fill.

E51 Overfill Error

The Service LED will flash at a rate of **1** flash and a pause.

The Header Tank has overfilled (Safety Float lifted with Top Float lifted).

The machine will restart with the Rinse and Empty Pump energised.

If the Safety and Top Float reset, then the error will clear, otherwise the machine will stall with the Rinse & Empty Pump energised until the machine is Closed Down.

Possible causes:

1. Water Inlet Solenoid is staying on:-

Water Inlet Solenoid jammed on, even when de-energised.

2. The Safety Float Switch has failed:-

The Safety Float Switch open-circuit, or float has become detached.

3. Header Tank back-filling from wash system during a washing cycle.

Blocked wash jet's. Check free operation of Spindle Check Valve.

E52 Overfill Error

The Service LED will flash at a rate of **2** flashes and a pause.

The Header Tank has overflowed (Safety Float lifted with Top Float not lifted).

The machine will stall and is unusable.
Closed Down the machine.

Possible causes:

1. The Level Float Switch has failed:-

Level Float short-circuit, or float has seized or has 'sticky' action.

2. The Safety Float Switch has failed:-

The Safety Float Switch open-circuit, or float has become detached.
Poor connection between Control PCB and Safety Float Switch.

E53 Fill Timeout Error

The Service LED will flash at a rate of **3** flashes and a pause.

During a fill or refill, the Header Tank has not filled within 10 minutes (Level Float not lifted).

The machine will stall. If in a washing cycle, the machine will jump to Standby.

The machine will resume once the Header Tank has filled. Otherwise, the only option is to closedown the machine.

Possible causes:

1. No water supply:-

Water supply has been turned off, or is extremely poor water supply flow.

2. Inlet Solenoid has failed:-

Inlet Solenoid blocked, or open-circuit solenoid coil.

E54 Refill Error

The Service LED will flash at a rate of **4** flashes and a pause.

If after a successful fill of the Header Tank (Level Float Switch lifted) the Float Switch subsequently drops, a timer is started.

If the Level Float Switch does not lift again within 30 seconds, then E54 is activated.

The machine will stall. If in a washing cycle, the machine will jump to Standby.

The machine will resume once the Header Tank has refilled. Otherwise, the only option is to closedown the machine.

Possible causes:

1. Rinse Pump continuously energised:-

Control PCB fault (shorted Rinse Pump relay).

2. Level Float faulty:-

Intermittent open-circuit, or lack of float buoyancy.

E55 Rinse Error

The Service LED will flash at a rate of **5** flashes and a pause.

During a rinse, the Level Float has not dropped within 15 seconds.

The machine will restart and re-attempt a fill and rinse.

If the problem reoccurs the machine is unusable except for a Closedown Cycle.

Possible causes:

1. Blockages in the rinse system:-

Blocked Rinse Jets or Spindles. Kinked or restrictions in rinse pipework.

2. Rinse Pump not pumping correctly:-

Faulty Rinse Pump.

3. Level Float Switch

Sluggish operation of float.

E56 Heating Error

The Service LED will flash at a rate of **6** flashes and a pause.

During a heating operation, it's taken over 20 minutes to reach target temperature.

The machine will continue normal operations, but without heated water.

Possible causes:

1. Faulty Heaters:-

Both Heaters are open-circuit.

2. A Safety Switch has operated:-

A Manual Reset Safety Stat (on the underside of Header Tank), or the Auto-Reset Safety Stat (on the side of the Header Tank) has opened.

The Heater Safety Float may have an open-circuit fault.

3. A Heater Contactor has failed.

The Rinse Heater Control or Safety Contactor may have failed open-circuit.

E57 Temperature Sensor Error

The Service LED will flash at a rate of **7** flashes and a pause.

This error is activated if the rinse water temperature measured is $<5^{\circ}\text{C}$ (or open-circuit) continuously for 30 seconds or longer.

The machine will continue normal operations, but with heaters disabled.

Possible causes:

1. Faulty Temperature Sensor:-

- Sensor is misreading the water temperature.
- Poor connection to the Sensor.

2. Rinse water temperature is less than 5°C .

E58 Temperature Sensor Error

The Service LED will flash at a rate of **8** flashes and a pause.

This error is activated if the rinse water temperature measured is $>89^{\circ}\text{C}$ (or short-circuit) continuously for 30 seconds or longer.

The machine will continue normal operations, but with heaters disabled.

Possible causes:

1. Faulty Temperature Sensor:-

- Sensor is misreading the water temperature.
- Connection to the Sensor short circuited.

2. Rinse water temperature is greater than 89°C .

E59 Machine Closed Down Incorrectly

The Ready LED will be lit red when the machine is first switched on.

This error is activated when first switch on if the machine was previously switched-off at the wall, or there was a power cut.

At start-up the machine will immediately rinse and drain to waste. This is to remove all water from the wash and rinse tanks.

After the rinse, the machine will fill and heat normally.

Possible causes:

1. A Closedown Cycle was not used after the previous washing session.

Spraybar Rotation Errors

The Rotation LED will be lit red in standby following a wash cycle.

When the Wash or Rinse Pump is energised, the Bottom Spraybar is monitored for rotation.

A Wash Rotation Error is activated if there are less than 3 rotations every 10 seconds.

A Rinse Rotation Error is activated if there is less than 1 rotation during a rinse.

These errors are advisory. The machine will operate normally.

Possible causes:

This fault is usually caused by debris/blockages in the jets or in the Wash Arm Bearing Labyrinth.

Debris/Blockages:

- Remove and inspect the wash and rinse jets for blocked jet nozzles.
- Remove the Bottom Spraybar and check the Bearing Labyrinth Rings for debris and scale build-up.
- Remove the Wash Spindle and check for blockages and scale build-up.

Chemical Low Errors

If Detergent sensed low, the Detergent LED will be lit orange.

If Rinse-Aid sensed low, the Rinse-Aid LED will be lit orange.

The presence of chemicals is continuously measured using two Conductivity Sensors as the chemical enter the machine.

These errors are advisory. The machine will operate normally.

Possible causes:

This fault is usually caused by lack-of or poor chemicals:

Chemicals: The Detergent or Rinse-Aid Bottle is empty.

A chemical suction tube has come out of the bottle.

Suction tubes trapped (blocked).

The conductivity of the chemical is too low.

The Detergent and Rinse-Aid have been connected incorrectly (Clear tube for detergent, Blue tube for Rinse-Aid).

System: Ruptured Element Tube or faulty Chemical Pump.

Leaks in the suction tubes or chemical sensors.

Control PCB fault or wiring fault (not reading the chemical sensors).