

## Service Tips – Fault Codes

### DISHWASHER TEST PROGRAM ERROR CODES (on 2 & 3-digit digital displays):

- ✘ 0 – No faults
- ✘ 1 – Aqua Sensor (Sensotronic) fault
- ✘ 2 – Heating system fault (heater, Hi-Limit, flow switch, NTC, control heater relay)
- ✘ 4 – Water filling fault
- ✘ 8 – NTC (temperature sensor) fault
- ✘ 16 – Water switch fault

00

000

**TIP:** Fault codes add up for multiple faults (e.g. heating + water filling fault = 2 + 4 = 6)

**HINT:** Apexx heater runs during steps 05 – 08. Press “.” button to skip to test 05 to measure heater amp draw.

### DISHWASHER CUSTOMER USE ERROR CODES (on 2 & 3-digit digital displays):

- ✘ F – Water filling fault (underfill, overflow or water in the base)
- ✘ 2H – Last wash cycle too long (> 99 minutes). Can be cold inlet water or heating system fault (heater, Hi-Limit, flow switch, NTC, control module heater relay).
- ✘ \_h – Delay Start feature (not a fault code)

00

000

### DISHWASHER TEST PROGRAM ERROR CODES (on lower line of full text Apexx SH 99 displays):

- ✘ S3 – No faults
- ✘ A – Aqua Sensor (red) fault
- ✘ B – Aqua Sensor (green) fault
- ✘ E – Water switch fault (no pulses detected)
- ✘ F – Water filling fault
- ✘ G – Water switch fault (won't stop running)
- ✘ H – Heating system fault (heater, Hi-Limit, flow switch, NTC, control module heater relay)
- ✘ K – NTC fault (short-circuited or open-circuited)
- ✘ xx – Test program step count (testing done when = 00)

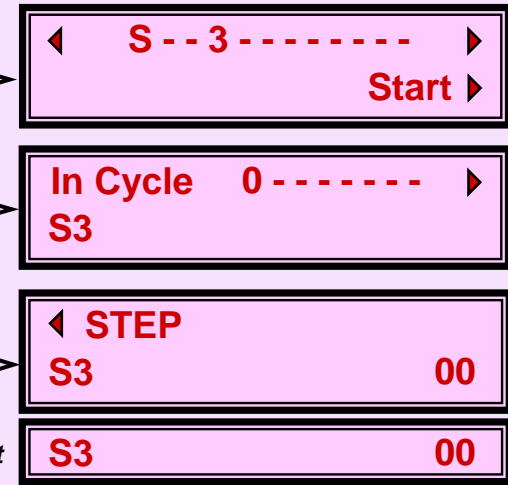
Selecting test program

Checking fault codes

Test program steps

Top

Front



**TIP:** Top line shows wash cycle & bottom line shows fault code.

**HINT:** Dishwasher test programs heat water to 150°F, so test programs will generally run > 20 minutes for incoming water temperatures ~ 120°F.

**HINT:** Open door to select test program for fully-integrated models, then close door to run program.

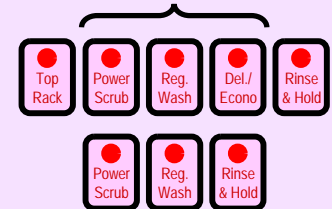
**NOTE:** Flow through heaters heat water ~ 2°F / minute.

## Service Tips – Fault Codes

### DISHWASHER TEST PROGRAM ERROR CODES (on SHX33A/43E/46A-B, SHV46C, SL84A models):

- ✘ ○ ○ ● – Heating system fault (heater, Hi-Limit, flow switch, control heater relay)
- ✘ ○ ● ○ – NTC (temperature sensor) fault
- ✘ ○ ● ● – Water filling fault
- ✘ ● ○ ○ – N/A
- ✘ ● ○ ● – N/A
- ✘ ● ● ○ – Aqua Sensor (Sensotronic) fault
- ✘ ● ● ● – N/A

Fault code LED's



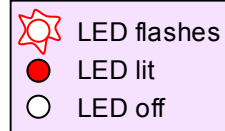
SHV46C, SHX43E/46A-B, SL84A

SHX33A

**TIP:** Fault codes do NOT add up for multiple faults – shows highest fault code on list above (1<sup>st</sup> – heating, 2<sup>nd</sup> – NTC, 3<sup>rd</sup> – water filling, 4<sup>th</sup> – aqua sensor)

### DISHWASHER TEST PROGRAM ERROR CODES (on SHU43E/53E/66E models):

Faults	LED Fault Codes			
	READY	CYCLE	CLEAN	NSF
0 - No faults	✘	○	✘	○
1 - Heater Element	●	○	✘	○
2 - Water Filling	✘	●	✘	○
3 - NTC	✘	○	●	○
4 - Aquasensor	✘	○	✘	●



**NOTE:** Flow through heaters heat water ~ 2°F / minute.

**HINT:** Open door to select test program for fully-integrated models, then close door to run program.

**HINT:** Dishwasher test programs heat water to 150°F, so test programs will generally run > 20 minutes for incoming water temperatures ~ 120°F.



#### Bosch SMS Dishwasher (Later Versions) Fault Codes

E01 - Indicated problem with the Power Module

E02 - Indicated problem with the Power Module

E03 - Indicated problem with the Power Module

E04 - Indicated problem with the Power Module

E05 - Indicated problem with the Power Module

E06 - Door Switch Fault

E07 - Dryer Fan Fault

E08 - Heat Pump detects water level too low in cabinet

E09 - Heating Circuit Fault

E10 - Heat Pump scaled up

E11 - NTC Fault

E12 - Not Used

E13 - Hot Water Inlet Temperature too high (Over 75C)

E14 - Reed Switch Flow Sensor Fault

E15 - Water In Base

E16 - Inlet Valve Fault

E17 - Water Level too high - Check Flow Sensor

E18 - Water Level too low - Check Valve, Solinoide, Water Pressure, Kinked Hose

E19 - Not Used

E20 - Winding Resistance of Curculation Pump Fault

E21 - Circulation Pump Blockage

E22 - Not Used

E23 - Winding Resistance of Drain Pump Fault

E24 - Drain Filters Blocked

E25 - Drain Pump Blocked (or Impellor cover missing or incorrectly put back)

E26 - Water Switch Fault

E27 - Not Used

E28 - Turbidity Sensor Fault

#### Bosch Loggixx Dishwasher Fault Codes

These are the common error codes on models with a LED display

A - Aqua Sensor Fault

B - Aqua Sensor Fault

C - No Tacho Pulses (Motor runs at 2800rpm full speed)

D - Short Circuit Triac to Circulating Motor (Motor keeps running)

E - Water Points Switching Error between top and bottom basket

F - Filling Error - Timed Out after 6 Minutes

G - Water Points Error, Triac Fault/Short Circuit on Control Board/Power Module

H - Heating Error - Timed Out, Element, Relay failed on Control Module, Failed Pressure Switch

K - NTC Error

O - Safety Level Switching Error