














GENERAL  ELECTRIC

ELECTRONIC CONTROL DISHWASHERS

SYSTEMS MONITOR CODE GUIDE

SEE DOOR L A B E L	LO            	HI ENERGY SAVER
	BLOCKED WASH ARM HRS. DELAY MINUTES	DRAIN WASHING CUP RESET DRYING OPEN CLEAN RINSED ONLY PLUS HEATING

PREFACE

This booklet is intended for use by Service Call Takers, Answer Center Personnel, and anyone who might have a need to answer customer questions regarding many of the system monitor codes shown on the Electronic Control Model Dishwashers

This instruction should be used as an aid to eliminate customer education service calls. Any customer reference to a "Systems Code" should prompt the Call Taker to refer to this booklet or the CRT using "FS95 M Fault Code" and then F15.

CONSUMER DIAGNOSTICS

Some model dishwashers have built-in diagnostics! Lets user know certain problems occur, and allows an informed decision of whether to call a repairman or not. Can save repair costs on problems that user can fix. Visual display warns of operating difficulties in many instances with letter and number codes.

The original Electronic Controlled Dishwasher was the GSD2500 Model. This model started in production in 1980 and ended in 1983. In 1983 four new models were introduced:

GSD 2800D

GSD 2600D

GSD 2400D

GSD 2200D

These four models have new touch pads, controls, and systems monitor. All but one of the codes (PF) are different than those on the GSD2500.

GSD2500 INDICATES:

- “PF” For “power failure” with door latched
- “LD” For “long drain” (takes over 90 seconds to drain water from dishwasher)
- “PD” For “plugged drain” (replaces “LD” : dishwasher has not drained water in additional 5 minutes.
- “OF” For “overflow” when too much water enters the dishwasher. Automatically pumps water out if door is closed and latched.
- “DS” For “drain system” failure to operate.

Label on top edge of door and Use and Care Manual will provide explanation of codes and give suggestion for resolution of problems.

‘CUP OPEN’ (GSD2600/2800 ONLY)

This display indicates to the consumer that the detergent cup has not been closed. It's a reminder to add detergent and latch the cup closed. If the code is displayed and the cycle will not start, even if the cup is closed, the consumer can override by pressing the start pad again without opening the door.

If problem persists, service will be required.

POSSIBLE CAUSE

REPAIR

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|---|--------------------|
| 1) Sensor switch actuator bent out of position. | Rebend or replace. |
| 2) Detergent cup sensor switch faulty. | Replace control. |

“PF AND RESET”: (ALL MODELS)

A power failure has occurred in the consumer’s home. PF means “Power Failure” and reset means that the cycle selection last made was erased, and the consumer should re-select a desired cycle. An automatic selection is programmed by the control when power is restored after a PF. This selection is:

GSD2800D — Normal Wash, Medium Soil, Heated Drying (80 Minutes)

GSD2600D — Normal Wash, Heated Drying, (80 Minutes)

GSD2400/2200D — Normal Wash, Heated Drying, (72 Minutes)

“BLOCKED WASH ARM” (GSD2800D ONLY)

Blocked Wash Arm display appears on GSD2800 Models only. It will appear 45 seconds after a fill period. The cycle will stop, but the consumer can override it by pressing the start pad again without opening the door.

“Blocked Wash Arm” says that the control is not getting the magnetic pulses which indicate that the wash arm is rotating at least once every 45 seconds.

The following list represents possible causes of a “Blocked Wash Arm” display which the consumer may attempt to resolve:

POSSIBLE CAUSE

REPAIR

1) Silverware or dishes jammed against wash arm.

Remove obstruction.

NOTE: Often a small handle or lug on a dish will protrude below the dishwasher rack and stall the wash arm, but still allow the rack to roll in and out.

2) Insufficient water in dishwasher to turn wash arm.

Check water level. Be sure water is available.

3) Wash Arm Sensor Switch faulty, or “open” wire.

Consumer can override by pressing “start”. The “start” to override must be done after the fault code appears and without opening the door. Permanent fix requires replacement of switch and/or other repair.

The following list represents possible causes of a “Blocked Wash Arm” display which will require service:

For Tech Specialist Use Only:

POSSIBLE CAUSE	REPAIR
1) Control voltage to sensor not present. $-13\text{VDC} \pm 2$	Replace control.
2) Magnet missing from spray arm.	Replace spray arm.
3) Gear tooth missing or deformed on spray arm hub.	Replace hub.
4) Motor not coming up to speed and not producing enough water pressure to drive wash arm.	Check supply voltage. If voltage is 110V or higher, replace mechanism
5) Lower rack sagging. Power Tower base hits rack.	Straighten or replace lower rack.
6) Leak in system. Losing water during wash.	Check for siphoning drain line or other external leak.

“HEATING” DISPLAY (GSD2800, 2600, 2400, 2200)

“Heating” says that the temperature of the water coming into the dishwasher is not at the temperature called for by the control.

The count down clock will stop while the water is being heated to the temperature necessary for good washability.

MODEL	HEATING TIME
GSD2600 or GSD2800	20 Minutes maximum
GSD2200 or GSD2400	15 Minutes maximum

“BLOCKED DRAIN”, “C1”, “C2” (GSD2800, 2600, 2400, 2200)

“Blocked Drain” on the GSD2600/2800D or “C1” on the GSD2200/2400D appears when the pump out portion of the cycle takes longer than 95 seconds. The cycle will stop and “C2” will be displayed on all 4 models if the total pump out time exceeds 405 seconds.

The following list represents possible causes of a “Blocked Drain” display which the consumer may attempt to resolve:

POSSIBLE CAUSE

REPAIR

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|---|-----------------------------------|
| 1) Drain air gap restricted | Clean air gap. |
| 2) Kink in drain hose. | Replace or reposition hose. |
| 3) Disposer stopped up. (Some installations don't have a drain air gap. Instead, the dishwasher drains directly into a disposer.) | Run the disposer to clean it out. |

The following list represents possible causes of a “Blocked Drain” display which will require service:

For Technical Specialist Use Only:

**POSSIBLE CAUSE
(GSD2600/2800 only)**

REPAIR

- | | |
|---|---|
| 1) Food soil in filter chamber. | Remove filter screen and check valve assembly in filter chamber. Clean as required. |
| 2) Check valve in filter chamber not sealing. | Swollen or distorted. Check leakage around threads. |

The following situations pertain to all electronic control models:

- | | |
|--|-------------------------------|
| 3) Pump gate valve did not return after normal pump out. | Replace motor/pump mechanism. |
| 4) Drain sensor switch closed or shorted. | Replace switch. |

“C3” DISPLAY CODE (GSD2800, 2600, 2400, 2200)

“C3” appears when dishwasher will not go into pump out. The control did not receive an electrical signal indicating that the drain sensor switch has “closed” which in turn would indicate that the drain solenoid had activated properly.

The following list represents possible causes of a “C3” display code-all of which will require service. Suggest consumer contact their local GE Servicerc or transfer consumer to a Technical Specialist.

The following information for Tech Specialists use only:

POSSIBLE CAUSE	REPAIR
1) Pump out switch inoperative.	Replace switch
2) Solenoid did not pull in.	Check solenoid. If bad, replace. If good, check for 120 volts at harness and control pins 4 & 10.
3) Bent solenoid bracket.	Straighten out or replace.
4) Missing parts.	Replace as required.
5) Harness plug pulled out of control socket.	Reinstall plug.
6) Insulating coating on control connector block pins.	Clean connector block pins.
7) Bent or misaligned drain sensor switch bracket.	Straighten or replace bracket.

‘C4’ DISPLAY CODE (GSD2800, 2600, 2400, 2200)

“C4” appears when the dishwasher is in an overflow condition. “C4” says that the machine has overflowed or that the flood switch is giving the control a signal which indicates that the flood switch circuit is “open”.

The following list represents possible causes of a “C4” fault code display which the consumer may attempt to resolve:

POSSIBLE CAUSE	REPAIR
1) Double fill after a “PF” (Power Failure)	Normal condition. Touch start, then cancel reset.
2) Float switch cover dislodged.	Reseat cover

The following list represents possible causes of a “C4” fault code display which will require service:

For Technical Specialist Use Only:

POSSIBLE CAUSE	REPAIR
1) Water valve stuck open.	Replace valve.
2) Fill time too long.	Check duration of signal from the control. If longer than spec. by 10 seconds; replace control.
3) Flow rate of water valve too high.	Replace valve.
4) Bad switch, open wire, wrong float.	Repair, replace as required.
5) Harness plug pulled out of control socket.	Reinstall.

“C5” DISPLAY CODE (GSD2800, 2600, 2400, 2200)

“C5” appears when the dishwasher experiences a short drain period. This condition occurs when the drain solenoid is energized and pump out begins, but there is no water in the tub.

The following list represents possible causes of a “C5” fault code display which the consumer may attempt to resolve:

POSSIBLE CAUSE	REPAIR
1) Water turned off to machine.	Check supply. Turn on if required.
2) False signal.	Simply try the same cycle again.

The following list represents possible causes of a “C5” fault code display which will require service:

For Technical Specialist Use Only:

POSSIBLE CAUSE	REPAIR
1) Water valve inoperative.	Check valve and signal to valve.
2) Major leak causing water to drain from the tub.	Repair as required.
3) Pump inlet clogged.	Clean as required.
4) Pumping out during recirculation (Due to diverter valve leak)	Replace motor/pump mechanism.
5) Short fill. Pumps out in less than 10 seconds.	Check for clogged screen in in water valve.

‘C6’ DISPLAY CODE (GSD2600/2800D MODELS ONLY)

“C6” appears when the dishwasher’s water temperature does not get up to correct temperature even after maximum extended wash time with the heater on.

The following list represents possible causes of a “C6” fault code display which the consumer may attempt to resolve:

POSSIBLE CAUSE	REPAIR
1) Water heater set too low.	Water temperature coming into dishwasher should be at least 120 degrees F.
2) High hot water usage just prior to dishwasher being	Avoid showers, etc. Use “Delay Start”.

The following list represents possible causes of a “C6” fault code display which will require service:

For Technical Specialist Use Only:

POSSIBLE CAUSE	REPAIR
1) Safety thermostat under tub stuck open.	Replace thermostat.
2) Open heating element.	Replace heating element.
3) No voltage to heating element.	Check wires and connector blocks. Check voltage at control pins 5 & 7.

“C7” DISPLAY CODE (GSD2800, 2600, 2400, 2200)

“C7” appears when dishwasher’s water temperature sensor circuit becomes inoperative. “C7” says that the heat sensor (Thermistor) is disconnected or “open”.

The following list represents possible causes of a “C7” display code-all of which will require service. Suggest consumer contact their local GE Servicer or transfer consumer to a technical specialist.

The following information for Tech Specialists use only:

POSSIBLE CAUSE	REPAIR
1) Bad Thermistor.	Check resistance. Should be 50K range at room temperature (75°F).
2) Open wire in harness.	Check continuity.
3) Bad control.	Check for 13 volts between 17 & 18. If not present, replace control.
4) Recessed pins in connector block.	Reseat pins.
5) Insulating coating on control connector block pins.	Clean connector block pins.

“C8” DISPLAY CODE (GSD2800 ONLY)

This display indicates to the consumer that the detergent cup is blocked from opening fully.

The following list represents possible causes of a “C8” fault code display which the consumer may attempt to resolve:

POSSIBLE CAUSE

REPAIR

- 1) Silverware or dishes jammed against detergent cup cover.

Remove obstruction. To restore, latch door and wait 30 seconds for cup to complete cycle

The following list represents possible causes of a “C8” fault code display which will require service:

For Technical Specialist Use Only:

POSSIBLE CAUSE

REPAIR

- 1) Detergent cup sensor switch shorted or staying closed.

Replace control.