

ELECTRONIC CONTROL SIDE BY SIDE REFRIGERATOR

**ELECTRONIC MONITOR
AND
DIAGNOSTIC SYSTEM**

GENERAL  **ELECTRIC**

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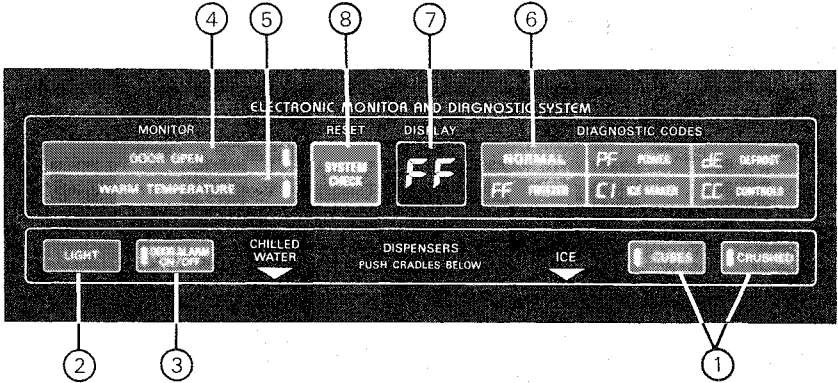
INTRODUCTION

Model TFX-24EF has an electronic control console located on the front of the freezer door, above the dispenser recess. The control console is divided into two (2) areas:

- 1) upper area - electronic monitor and diagnostic system
- 2) lower area - recess light, door alarm and ice dispenser controls



USER OPERATION



1. ICE CUBES and CRUSHED ICE SELECTION

A selection of either ice cubes or crushed ice is made by touching either the "CUBES" or "CRUSHED" pad on the control console. A green signal light indicates the selection that has been made. The indicator will remain lighted until a different selection is made. A beep will be heard each time either pad is touched.

2. RECESS LIGHT

The dispenser recess light (night light) is operated by touching the "LIGHT" pad on the control console. A single touch turns the light on or off. A beep will be heard each time the pad is touched.

3. DOOR ALARM

An audible door alarm can be set by touching the "DOOR ALARM ON/OFF" pad on the control console. A beeper will then sound after either the fresh food or freezer door has been open for 30 seconds. The beeper will continue to sound a repeating two beeps, followed by a pause, until both doors are closed or the alarm is disabled by touching the "DOOR ALARM ON/OFF" pad. A green signal light indicates the alarm is set. A beep will be heard each time the pad is touched.

There may be times when the consumer will not want the door alarm beeper to sound (For example: When cleaning the interior of the refrigerator.) Touching the pad will disable the beeper.

4. DOOR OPEN MONITOR

A red signal light will flash any time either the fresh food or freezer door is open or ajar more than 1/4-inch. The signal will be extinguished when both doors are closed. No user control is provided or required for this function.

5. WARM TEMPERATURE MONITOR

A red signal light will appear when the freezer temperature has been above normal for a period of time ranging from 1 to 4 hours. The signal will be extinguished when the temperature returns to normal. No user control is provided or required for this function.

The red signal will appear initially when the refrigerator is first turned on until the temperature has completely cooled down. This may require several hours, depending upon the room temperature.

The red signal may also appear if the refrigerator doors have been open for an extended period of time. If this should happen, door openings should be kept to a minimum for several hours. As soon as inside temperatures return to normal, the signal will be extinguished.

6. NORMAL INDICATOR

A green lighted word "NORMAL" on the control console indicates that no failure has been detected by the diagnostic system. The normal indicator will not be lighted if any flashing diagnostic code appears on the display except PF. The normal indicator will appear when a flashing PF appears on the display.

7. DIAGNOSTIC CODES

A flashing green diagnostic code will be displayed on the control console when an abnormal condition has been detected by the electronic system. The first six (6) flashes will be accompanied by beeps. If more than one coded function requires attention at the same time, the one with the highest priority will be displayed until erased. Then the one with the next highest priority will flash until erased. The following codes are shown in order of priority.

FF - frozen foods should be checked for thawing. (See page 5.)

PF - power has been interrupted. (See page 6.)

CI - icemaker is not operating properly. (See page 7.)

dE - defrost has not been detected for an extended amount of time.

- (See page 8.)

CC - freezer temperature is warm. (See page 9.)

8. SYSTEM CHECK/RESET

The system check provides a review of all five (5) diagnostic codes. Touching the "SYSTEM CHECK" pad will erase any code from the display and advance the review sequence of codes. If a diagnostic code is displayed prior to touching the pad, that code will be erased and the review sequence will begin. The review sequence will continue unless another abnormal condition is detected -- in which case, the review sequence will stop and a second flashing diagnostic code will remain. The first six (6) flashes of the second code will be accompanied by beeps. If no additional abnormal condition is detected, the review sequence will continue until the system is reset and no code is displayed. The sequence consists of a code appearing in the display accompanied by a short beep, then a short pause, and then the "NORMAL" light will appear briefly. After a short pause, the next code appears, etc.

FF FREEZER

DIAGNOSTIC CODE

This flashing green diagnostic code tells the consumer to check the condition of the frozen food because the freezer temperature has been above normal for a period of time ranging from 2 to 6 hours. The consumer should be sure that a food package is not holding either door open, causing the freezer temperatures to be above normal. It is important that the refrigerator doors are not opened more often than absolutely necessary until freezer compartment temperature returns to normal. (Minimizing door openings allows the temperature to recover more quickly.)

Touching the "SYSTEM CHECK" pad will erase the FF code and check for other failures. If PF then flashes, reason for FF is likely due to a power failure. The consumer should allow a few hours for the refrigerator to cool down before calling for service.

PF POWER

DIAGNOSTIC CODE

This flashing green diagnostic code tells the consumer that power to the refrigerator has been interrupted for more than 2 seconds. The consumer should check the condition of food in both the fresh food and freezer compartments.

Touching the "SYSTEM CHECK" pad will erase the PF code and check for other failures. The PF codes does not indicate any failure of the refrigerator.

CI ICEMAKER

DIAGNOSTIC CODE

This flashing green diagnostic code tells the consumer to check the automatic icemaker. This code will be displayed if either one of the following two (2) abnormal conditions exist:

- 1) continuous icemaker operation for more than five hours
- 2) three or more icemaker cycles have occurred within 30 minutes

The consumer should check the ice storage bin for ice clumps or other obstructions which may have stalled the icemaker. If no obstructions are found, the following items should be checked:

- 1) Water supply is connected and turned on. If the water supply is not connected or turned off, the manual icemaker switch should be in the off position.
- 2) Adequate water supply is available to the refrigerator. Inadequate water supply may cause the icemaker to jam. This condition can be confirmed by the size of the ice cubes. Ice cubes should be at least 3/4-inch tall.

Touching the "SYSTEM CHECK" pad will erase the CI code and check for other failures. If the CI code reappears, the consumer should call for service.

dE DEFROST

DIAGNOSTIC CODE

This flashing green diagnostic code tells the consumer that no defrost action has been detected for more than 48 hours. The consumer should keep the refrigerator door openings to a minimum and call for service.

Touching the "SYSTEM CHECK" pad will erase the dE code and check for other failures. The dE code should reappear 48 hours later if service is not performed to correct the condition.

Note: If the refrigerator is operating in a room that is cold (55°F or less) or if the controls have been set too warm and the refrigerator is not used often, it is possible for the dE code to appear with no real defrost system failure. In this instance the controls should be set to colder settings.

CC CONTROLS

DIAGNOSTIC CODE

This flashing green diagnostic code tells the consumer to check the temperature controls and adjust them if necessary. This diagnostic code indicates the freezer temperature has been above normal for a period of time ranging from 2 to 4 hours, or more. The consumer should also check to see if a food package is holding either door open, causing the freezer temperature to be above normal. It is important that the refrigerator doors are not opened more often than absolutely necessary until the freezer compartment temperature returns to normal. (Minimizing door openings allows the temperature to recover more quickly.)

Initially, the FRESH FOOD control should be set at 5, and the FREEZER CONTROL AT C. For colder temperatures, the controls should be adjusted one number or one letter at a time. When adjusting the controls, 24 hours should be allowed for the temperatures to stabilize before another adjustment is made.

Touching the "SYSTEM CHECK" pad will erase the CC code and clear the display. The consumer should allow several hours for the refrigerator to cool down before calling for service. If the code reappears after 4 hours, the consumer should call for service.

USER INSTRUCTIONS

Complete operating instructions are provided in the use and care book provided with the refrigerator. In addition, a brief and readily available explanation of the electronic monitor and diagnostic system is printed on the service cover, on the freezer inner door, at the rear of the dispenser recess.

ELECTRONIC MONITOR AND DIAGNOSTIC SYSTEM	
DISPLAY	EXPLANATION / RECOMMENDED ACTION
NORMAL	ALL SYSTEMS OPERATING NORMALLY RESET SYSTEM CHECK TO CHECK SYSTEM ... TOUCH SYSTEM CHECK ... LOOK FOR "NORMAL" READOUT AFTER EACH CODE DISPLAY TOUCH SYSTEM CHECK TO ERASE DIAGNOSTIC CODES FROM DISPLAY
DOOR OPEN	DOORS NOT COMPLETELY CLOSED ... CHECK FOR OPEN BINS ... PACKAGES MAY BE BLOCKING DOOR
WARM TEMPERATURE	THIS MAY OCCUR WHEN REFRIGERATOR IS FIRST TURNED ON OR DOORS LEFT OPEN TOO LONG
FF FREEZER	CHECK FOR THAWING OF FROZEN FOODS ... LIMIT DOOR OPENINGS TO RETAIN COLD ... CALL FOR SERVICE IF NECESSARY
PF POWER	POWER HAS BEEN OFF FOR SOME PERIOD OF TIME ... CHECK CONDITION OF FOOD ... TOUCH RESET
CI ICE MAKER	CHECK ICE BIN FOR BLOCKAGE ... TOUCH RESET ... IF CODE APPEARS AGAIN, CALL FOR SERVICE
dE DEFROST	LIMIT DOOR OPENINGS TO RETAIN COLD ... CALL FOR SERVICE
CC CONTROLS	CHECK TEMPERATURE CONTROLS ... ADJUST IF NECESSARY ... TOUCH RESET ... IF CODE REAPPEARS WITHIN 4 HRS, CALL FOR SERVICE

SEE YOUR USE AND CARE BOOK FOR COMPLETE INSTRUCTIONS

Your Direct Line to General Electric
The GE Answer Center 800.626.2000 ?