Fault Code Descriptions

F1: Blower Running Status Bad
This fault is displayed when the motor controller
indicates no running status. The motors and motor controller are monitored
continuously in all modes with special handling in the Test Mode (page 14, 29 for
Touch). If a fault is detected, the control will terminate a cook cycle and display
"F1: Blower." Upon turning on the oven, the control will attempt to restart the
motors. If the restart of both motors is successful, the fault code will be cleared
from the display. The fault is also cleared from the display at the onset of cooking
or when a blower motor is tested in Test Mode.

F2: Cook Temperature Low
This fault is displayed if the cook cavity
temperature is more than 84ºF (47ºC) below the set temperature after five
seconds into a cook cycle. The fault is cleared from the display at the onset of
cooking if the cook cavity temperature is within 84ºF (47ºC) of the set
temperature or when the heater is tested in Test Mode (page 14, 29 for Touch).

F3: Magnetron Current Low
This fault is displayed when the current transformer (CT) on the I/O control board
detects less than 10 amps. The fault is monitored when the microwave is on
during a cook cycle or in Test Mode. The fault is cleared from the display at the
onset of a cook cycle if the CT detects 10 amps, or when the magnetrons are
successfully energized in Test Mode.

F4: Door Monitor Defective
This fault is displayed when the control detects that the monitor interlock switch
unlatches before the primary or secondary interlock switches. In addition, this
fault will blow the F3 fuse if the microwave high voltage system is energized when
the fault occurs. The fault is cleared from the display when the oven is powered
off and then back on.
NOTE: Door interlock switches are in parallel. See the oven schematic, page 79.
The fault is monitored during a cook cycle and in Test Mode when the microwave
is on.

F5: Magnetron Over Temperature

This fault is displayed when either magnetron thermostat reaches 212ºF (100ºC).The thermostats will reset automatically and are wired in series. The fault is cleared from the display at the onset of a cook cycle if the thermostat is closed. NOTE: The Single Magnetron Sota uses only one magnetron thermostat.

F6: Electrical Compartment Temperature High

This fault is displayed when the EC thermocouple exceeds 158ºF (70ºC). The EC temperature is monitored once per minute.
The fault is cleared from the display if on the next check, the EC thermocouple temperature is below 158ºF (70ºC).

F7: RTD Open

This fault is displayed when the control detects that the RTD is "open." The display will show a reading of "999ºF/C," indicating the RTD is open.
The fault is cleared when the control detects continuity.

F8: Heat Low

This fault displays when the oven is warming up or during Test Mode if the cook cavity temperature fails to rise at least 14ºF (7ºC) within a given 30 seconds.

F9: Cook Cavity Temperature High

This fault will signal that the catalyst has "flashed" due to excessive grease. The fault occurs when the RTD senses +650°F (343°C) for more than 40 seconds but less than 2 minutes. The fault will only appear in the fault log and will not terminate a cook cycle upon discovery.

F10: Communication Failure (Touch Enabled Ovens Only)

This fault will signal that the UI control board (Phoenix) is no longer able to communicate with the I/O control board (SAGE). This fault will terminate a cook cycle upon discovery.

F12: Firmware Reboot

(Touch Enabled Ovens Only)This fault will signal that the UI control board (Phoenix) became unresponsive for four seconds, forcing a system reboot. The reboot could occur at any time, including during cooking.

Fault Code and Description	When Active				Refer to...
	Warmup	Idle	Cooking	Test Mode	
F1: Blower Running Status Bad	✔	✔	✔	✔	Page 57
F2: Cook Temperature Low			✔		Page 58
F3: Magnetron Current Low			✔	✔	Page 59
F4: Door Monitor Defective			✔	✔	Page 60
F5: Magnetron Over Temperature			✔	✔	Page 60
F6: EC Temperature High	✔	✔	✔	✔	Page 61
F7: RTD Open	✔	✔	✔	✔	Page 61
F8: Heat Low	✔			✔	Page 62
F9: Cook Cavity Temperature High			✔	✔	Page 62
F10: Communication Failure	✔	✔	✔	✔	Page 63
F12: Firmware Reboot	✔	✔	✔	✔	Page 63

Fault codes are listed in order of hierarchy. For example, if during cooking the oven experiences an F1 and F2 fault, the oven will report only the F1 fault because the software will halt all actions upon discovering the F1 fault.

FAULT CODES F1 - F5, F7, F10, AND F12 WILL TERMINATE A COOK CYCLE UPON DISCOVERY.