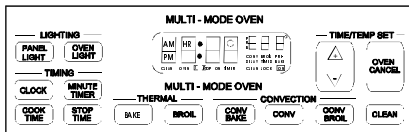


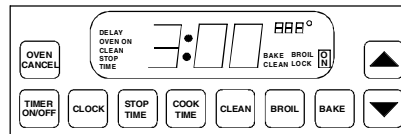


Cooking Products Fault Code Reference Guide

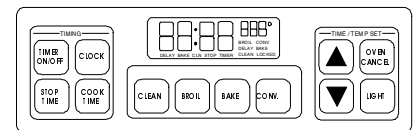
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September, 2004
P/N 16023509



4800 Glass Touch System ERC



Touchmatic ERC3



Touchpad ERC3



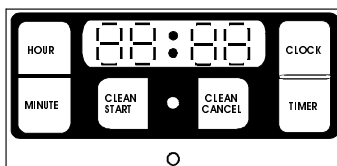
H2 ERC



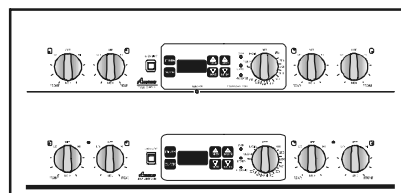
H2.5 ERC



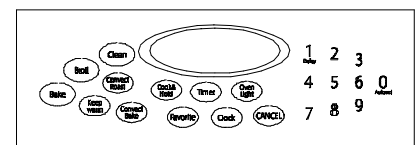
H3 ERC



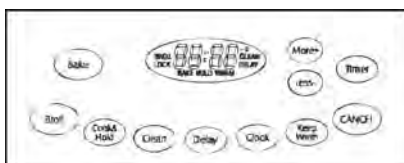
Clean ERC with Mylar Overlay



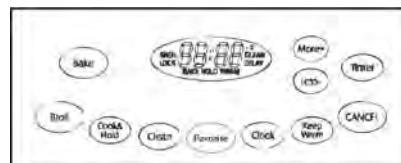
Eaton KRC with Mylar Overlay



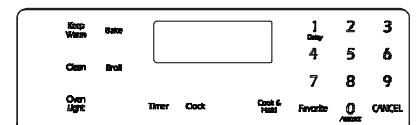
H1 ERC



M1 ERC



M2 ERC



H1.5 ERC

IMPORTANT NOTICE

SAFETY PROCEDURES REQUIRED IN THE REPAIR OF THE PRODUCT MUST BE FOLLOWED.

Maytag will not be held responsible for personal injury or property damage for improper service procedures. A qualified service technician equipped with the proper tools, test instruments, parts and service information should service products.

IT IS THE TECHNICIANS RESPONSIBILITY TO PREVIEW ALL APPROPRIATE SERVICE INFORMATION.

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Jenn-Air, Maytag and Magic Chef Fault Codes



WARNING

To avoid risk of electrical shock, personal injury or death; disconnect power and gas supply to oven before servicing, unless testing requires power and/or gas.

SECTION I: JENN-AIR, MAYTAG, MAGIC CHEF

FAULT CODE DESCRIPTION

Each fault code consists of four (4) digits. The function of each digit is described in Table 1 below.

Table 1: Fault Code Description

Digit	Description
1 st	Primary System: 1 – Local to control circuit board 3 – Sensor or meat probe 4 – Control input 9 – Door lock
2 nd	Measurable: d – Diagnostic failure: measurable parameter
3 rd	Primary Failure
4 th	Oven Cavity: 1 – Upper oven (or single cavity oven) 2 – Lower oven c – Control specific

PRODUCT(S): LARGE CAVITY RANGES AND “D” SERIES WALL OVENS

MODEL YEAR(S): 2003 TO PRESENT

Fault Code	Problem	Component(s) to Check
1C1C	Shorted Key	Check wire harness connector and ensure proper connection and wires show continuity. If ok, replace control.
1C2C	Keyboard tail disconnected (single cavity or upper oven)	Check wire harness connector and ensure proper connection and wires show continuity. If ok, replace control.
1C31	Cancel key circuit (single cavity or upper oven)	Replace control.
1C32	Cancel key circuit (lower oven).....	Replace control.
1C4C	Micro communication failure.....	Replace control.
1C6C	EEPROM error hardware fault.....	Replace control.
1C7C	Control not calibrated	Replace control.
1C8C	User-option CRC error in EEPROM	Replace control.
1C81	CRC cook profile error (single cavity or upper oven)	Replace control.
1C82	CRC cook profile (lower oven).....	Replace control.
1D11	Temperature above 600° F and door unlocked (single cavity or upper oven)	Ohm oven sensor and harness. Verify proper connection. If ok, replace control.
1D12	Temperature above 600° F and door unlocked (lower oven)	Ohm oven sensor and harness. Verify proper connection. If ok, replace control.
1D21	Temperature above 950° F and door locked (single cavity or upper oven)	Ohm oven sensor and harness. Verify proper connection. If ok, replace control.
1D22	Temperature above 950° F and door locked (lower oven)	Ohm oven sensor and harness. Verify proper connection. If ok, replace control.
3D11	Sensor open (single oven or upper oven)	Ohm oven sensor and harness. Verify proper connection.
3D12	Sensor open (lower oven)	Ohm oven sensor and harness. Verify proper connection.
3D21	Sensor shorted (single cavity or upper oven)	Ohm oven sensor and harness. Verify proper connection.
3D22	Sensor shorted (lower oven)	Ohm oven sensor and harness. Verify proper connection.

Jenn-Air, Maytag and Magic Chef Fault Codes



To avoid risk of electrical shock, personal injury or death; disconnect power and gas supply to oven before servicing, unless testing requires power and/or gas.

PRODUCT(S): LARGE CAVITY RANGES AND “D” SERIES WALL OVENS (cont.)
MODEL YEARS(S): 2003 TO PRESENT (cont.)

Fault Code	Problem	Component(s) to Check
3D41	Meat probe shorted..... (single cavity or upper oven)	Ohm meat probe and check for shorted harness. If ok, replace control.
3D51	Meat probe not calibrated (single cavity or upper oven)	Replace control.
4D11	Door switch position error, opened when latch locked .. (single cavity or upper oven)	Check door switch and ohm door switch wiring.
4D12	Door switch position error, opened when latch locked .. (lower oven)	Check door switch and ohm door switch wiring.
4D21	No/low cooling fan rotation (no RPM) (single cavity or upper oven)	Check connection at cooling fan. If ok, replace blower. DO NOT REPLACE CONTROL.
4D22	No/low cooling fan rotation (no RPM) (lower oven)	Check connection at cooling fan. If ok, replace blower. DO NOT REPLACE CONTROL.
4D31	Cooling fan state error (states on when fan off) (single cavity or upper oven)	Check all fan connections. If ok, replace control.
4D32	Cooling fan state error (states on when fan off) (lower oven)	Check all fan connections. If ok, replace control.
4D41	Cooling fan rotation over speed..... (single cavity or upper oven)	Check all fan connections and check for airflow restrictions. If ok, replace cooling fan.
4D42	Cooling fan rotation over speed..... (lower oven)	Check all fan connections and check for airflow restrictions. If ok, replace cooling fan.
4D51	Door switch circuit failure..... (single cavity or upper oven)	Check connections and wiring.
4D52	Door switch failure (lower oven)	Check connections and wiring.
9D11	Latch will not lock..... (single cavity or upper oven)	Check door lock connections. If ok, replace door lock assembly.
9D12	Latch will not lock..... (lower oven)	Check door lock connections. If ok, replace door lock assembly.
9D21	Latch will not unlock..... (single cavity or upper oven)	Check door lock connections. If ok, replace door lock assembly.
9D22	Latch will not unlock..... (lower oven)	Check door lock connections. If ok, replace door lock assembly.
9D31	Latch both locked and unlocked	Check door lock connections. If ok, replace door lock assembly.
9D32	Latch both locked and unlocked	Check door lock connections. If ok, replace door lock assembly.

Jenn-Air, Maytag and Magic Chef Fault Codes



WARNING

To avoid risk of electrical shock, personal injury or death; disconnect power and gas supply to oven before servicing, unless testing requires power and/or gas.

PRODUCT(S): SLIDE-IN RANGES, JENN-AIR
MODEL YEAR(S): 2001 TO PRESENT

Fault Code	Problem	Component(s) to Check
F0-0	No Fault.....	None.
F1-1	Oven temperature above 650° F in bake mode	Ohm sensor, harness, and door lock harness. If ok, replace control.
F1-3	Oven temperature above 950° F in a clean cycle	Ohm sensor and harness. If ok, replace control.
F1-5	Cancel key not responding	Ensure ribbon is making good connection; inspect ribbon (shorts, corrosion, etc.). Should normally read open and 1K – 3K with the switch activated. If ok, replace control.
F1-7	Membrane disconnected.....	Ensure ribbon is making good connection; inspect ribbon (shorts, corrosion, etc.). Should normally read open and 1K – 3K with the switch activated. If ok, replace control.
F1-8	Shorted key in membrane switch.....	Ensure ribbon is making good connection; inspect ribbon (shorts, corrosion, etc.). Should normally read open and 1K – 3K with the switch activated. If ok, replace control.
F1-9	Internal communication error within the control	Replace control.
F1-A	Control does not see state of lock or unlock switches.	Check connections at the door lock assembly to control and check lock mechanism wiring harness.
F1-C	Door switch is not recognized as opened or closed	Check connections at the door lock assembly to control and check lock mechanism wiring harness.
F1-E	Control not calibrated	Replace control.
F1-H	EEPROM error	Replace control.
F1-N	Internal voltage if slave micro not correct	Replace control.
F3-1	Sensor is shorted or open	Ohm sensor and harness.
F8	Shorted meat probe	Check probe jack and harness to probe jack. If ok, check meat probe.
F9-1	Door lock will not lock.....	Check wire connections. If ok, replace motorized door lock.
F9-2	Door lock will not release	Check wire connections. If ok, replace motorized door lock.
F9-3	Door lock is locked and unlocked at the same time.....	Check wire connections. If ok, replace motorized door lock.

Jenn-Air, Maytag and Magic Chef Fault Codes



WARNING

To avoid risk of electrical shock, personal injury or death; disconnect power and gas supply to oven before servicing, unless testing requires power and/or gas.

PRODUCT(S): FREESTANDING RANGES EMPLOYING RS1, T1 & T2 CLOCKS

MODEL YEAR(S): APRIL 1997 TO PRESENT

NOTE: Excluding Gemini, Accellis 2X

Fault Code	Problem	Component(s) to Check
F1	Indicates error in the control circuitry	Ohm sensor and harness resistance (see Table 2 below), check door lock mechanism, harness, switch connections, inspect membrane.
F3	Sensor/sensor circuitry.....	Test for proper resistance value. Also check for frayed/pinched wiring, or connector damage. Replace as necessary. At room temperature, the probe's resistance should be 1050 -1100 ohms. DO NOT REPLACE CONTROL.
F9	Door lock circuitry fault sensed	Check the door lock switch wiring and lock assembly, adjust or replace as needed. DO NOT REPLACE CONTROL. This fault code appears if control is unable to recognize the opening and closing of the door lock switches at the proper times. Control is looking for a signal back from the door lock system circuitry to ensure door is in the proper position for the function chosen.
F1-1	Oven temperature above 650° F when bake/broiling...	Check door lock, oven sensor, and harness. If ok, replace control.
F1-2	Oven temperature above 905° F during cleaning	Check door lock, oven sensor, and harness. If ok, replace control.
F1-3	Shorted sensor	Ohm sensor and harness.
F1-4	Keyboard disconnected.....	Inspect ribbon and ensure it is making a good connection. If ok, replace control.
F1-5	Cancel key out of specification.....	Replace control.
F1-6	Relay activated.....	Replace control.
F1-7	Microprocessor not sensed	Replace control.
F1-8	Option or sensor input failure	Inspect ribbon and ensure it is making a good connection. Ohm sensor & harness and ensure proper sensor connection. If ok, replace control.
F1-9	EEPROM error	Replace control.
F3-1	Sensor/sensor circuit failure	Ohm sensor and harness.
F9-1	Door will not lock	Check wire connections. If ok, replace motorized door lock.
F9-2	Door will not unlock	Check wire connections. If ok, replace motorized door lock.
F9-3	Door lock is locked and unlocked at the same time.....	Check wire connections. If ok, replace motorized door lock.

Table 2: Sensor Resistance, Freestanding Ranges, 1997 to Present

Degrees F (C)	Sensor Resistance
100 (37.7)	1143
200 (93.3)	1350
300 (148.8)	1553
350 (176.6)	1654
400 (204.4)	1753
500 (260)	1949

Jenn-Air, Maytag and Magic Chef Fault Codes



WARNING

To avoid risk of electrical shock, personal injury or death; disconnect power and gas supply to oven before servicing, unless testing requires power and/or gas.

PRODUCT(S): FREESTANDING RANGES, ACCELLIS 2X
MODELS: MER6750AA*, MER6750AC*

Fault Code	Problem	Component(s) to Check
F0-0	No Fault.....	None.
F1-1	Oven temperature above 650° F when bake/broiling...	Check door lock, oven sensor, and harness. If ok, replace control.
F1-3	Oven temperature above 905° F during clean cycle	Check door lock, oven sensor, and harness. If ok, replace control.
F1-5	Cancel key not responding	Ensure ribbon is making good connection and inspect ribbon. If ok, replace control.
F1-7	Membrane disconnected.....	Ensure ribbon is making good connection and inspect ribbon. If ok, replace control.
F1-8	Shorted key in membrane switch	Ensure ribbon is making good connection and inspect ribbon. If ok, replace control.
F1-9	Slave microprocessor not functioning	Replace control.
F1-A	Control does not see state of lock or unlock switches .	Check connections on the door lock assembly, check lock switch with meter, check wiring from assembly to control.
F1-C	Door switch is not recognized as opened or closed	Check connections at door switch, check lock mechanism, check wiring from switch to control.
F1-E	Control not calibrated	Replace control.
F1-F	Jumper not removed from PCB	Replace control.
F1-H	EEPROM error	Replace control.
F1-N	Microprocessor voltage error	Replace control.
F3-1	Sensor is shorted or open	Ohm sensor and harness. DO NOT REPLACE CONTROL.
F9-1	Door lock will not lock.....	Check wire connections. If ok, replace motorized door lock.
F9-2	Door lock will not unlock.....	Check wire connections. If ok, replace motorized door lock.
F9-3	Door lock is locked and unlocked at the same time.....	Check wire connections. If ok, replace motorized door lock.

Jenn-Air, Maytag and Magic Chef Fault Codes



WARNING

To avoid risk of electrical shock, personal injury or death; disconnect power and gas supply to oven before servicing, unless testing requires power and/or gas.

PRODUCT(S): FREESTANDING RANGES, GEMINI AND DOUBLE OVEN
MODELS: MGR6772BD*, MER6549BA*, MER6550AA*, MER6550AC*, MER6550BA*,
 MER6550BC*, MER6555AA*, MGR6775AD*, MGR6875AD*, MER6555AA*,
 MER6555AC*, MER6751AA*, MER6755AA*, MER6755AC*, MER6775AA*,
 MER6775AC*, MER6875AA*, MER6875AC*

Fault Code	Problem	Component(s) to Check
F0-0	No Fault.....	None.
F1-1	Runaway Cook..... (Upper Oven)	Check door lock, oven sensor, and harness. If ok, replace control.
F1-2	Runaway Cook..... (Lower Oven)	Check door lock, oven sensor, and harness. If ok, replace control.
F1-3	Oven temperature above 650° F when bake/broiling. (Upper Oven)	Check door lock, oven sensor, and harness. If ok, replace control.
F1-4	Oven temperature above 650° F when bake/broiling. (Lower Oven)	Check door lock, oven sensor, and harness. If ok, replace control.
F1-5	Cancel Key..... (Upper Oven)	Check that ribbon is making good connection and inspect ribbon. If ok, replace control.
F1-6	Cancel Key..... (Lower Oven)	Check that ribbon is making good connection and inspect ribbon. If ok, replace control.
F1-7	Membrane disconnected.....	Check that ribbon is making good connection and inspect ribbon. If ok, replace control.
F1-8	Shorted key in membrane switch.....	Check that ribbon is making good connection and inspect ribbon. If ok, replace control.
F1-9	Internal communication error within control.....	Reset power. If error repeats, replace control.
F1-A	Control does not see state of lock/unlock switch..... (Upper Oven)	Check connections on door lock assembly & lock switch, check wiring from assembly to control.
F1-B	Control does not see state of lock/unlock switch..... (Lower Oven)	Check connections on door lock assembly & lock switch, check wiring from assembly to control.
F1-C	Door switch is not recognized as opened or closed... (Upper Oven)	Check connections at door switch, check lock mechanism, check wiring from switch to control.
F1-D	Door switch is not recognized as opened or closed... (Lower Oven)	Check connections at door switch, check lock mechanism, check wiring from switch to control.
F1-E	Control not calibrated.....	Replace control.
F1-F	Jumper not removed from PCB.....	Replace control.
F1-H	EEPROM read error.....	Replace control.
F1-L	Sensor Wire.....	Ohm wire end to end to ensure a closed path.
F3-1	Sensor open circuit..... (Upper Oven)	Ohm sensor and harness. DO NOT REPLACE CONTROL.
F3-2	Sensor circuit open..... (Lower Oven)	Ohm sensor and harness. DO NOT REPLACE CONTROL.
F9-1	Latch switch (Upper Oven).....	If wire connections ok, replace motorized door lock.
F9-2	Unlock switch (Upper Oven).....	If wire connections ok, replace motorized door lock.
F9-3	Lock and unlock switch (Upper Oven).....	If wire connections ok, replace motorized door lock.
F9-4	Lock switch (Lower Oven).....	If wire connections ok, replace motorized door lock.
F9-5	Unlock switch (Lower Oven).....	If wire connections ok, replace motorized door lock.
F9-6	Lock and unlock switch (Lower Oven).....	If wire connections ok, replace motorized door lock.

Jenn-Air, Maytag and Magic Chef Fault Codes



WARNING

To avoid risk of electrical shock, personal injury or death; disconnect power and gas supply to oven before servicing, unless testing requires power and/or gas.

PRODUCT(S): SLIDE-IN RANGES AND WALL OVENS, JENN-AIR, EMPLOYING POWER RELAY BOARD SYSTEM

MODEL YEAR(S): PRIOR TO 1997

Fault Code	Problem	Component(s) to Check
F1	Element relay energized in non cook mode.....	J2 harness shorted. If ohms ok, change power relay board. DOUBLE OVEN ONLY: Change 2 nd oven board.
F2	Oven temperature above 620° F in a non self clean mode or over 950° F in a self clean mode	Ohm sensor (see Table 4), harness, and check door lock.** If ok, change power relay board.
F3	Cooling fan on in time of day mode	Ohm sensor and harness** (see Table 4).
F4	Shorted oven sensor	Ohm sensor and harness** (see Table 4).
F5	No power to element relay in cook mode.....	Intermittent sensor or wire harness connection. TECH TIP: Flick the sensor when checking ohms. Look for no resistance. Intermittent contact on power relay board.
F7	Shorted key sensed for 32 seconds.....	Membrane shorted. Display board.
F8	Shorted meat probe	Probe jack/harness to probe jack (see Table 3).
F9	Door lock safety circuit on relay board.....	Check door lock circuit. If ok, replace power relay board.
FF	Invalid temperature reading on power relay board	Check sensor (see Table 4), harness, and power relay board.**
F & FC***	Communication error between board.....	Ohm J2 harness wires end to end.* If ok, replace power relay board. If blue and orange wires tangled, untangle. If repeat code, use a noise suppressor, part # 12001500 .
FR	Second oven error sensed.....	J2 harness, ohm wires end to end.* If harness is ok, replace power relay board. If blue and orange wires are tangled, untangle. If repeat code, use a noise suppressor, part # 12001500 .

No display on clock: Voltage from J1-1 to J1-2 should be 13 VDC. Voltage from J1-3 to J1-4 should be 21.2 VAC.

NOTES: * Disconnect and reconnect power. If clock does not resume time (displays 12:00), replace main board.

** Sensor resistance at room temperature should be between 1050 – 1100 ohms.

*** If this occurs on SVE47500 units, refer to the U&C manual to operate the grill.

Table 3: Jenn-Air Wall Ovens and Slide-In Ranges Meat Probe Resistance

Meat Probe Resistance	
Degrees F (C)	Resistance
122 (50)	18963
150 (65.5)	9938
156.2 (69)	8846
165.2 (74)	7456
210.1 (98.9)	3886

Table 4: Jenn-Air Wall Ovens and Slide-In Ranges Oven Sensor Resistance

Oven Sensor Resistance	
Degrees F (C)	Resistance
100 (37.7)	1143
200 (93.3)	1350
300 (148.8)	1553
350 (176.6)	1654
400 (204.4)	1753

Jenn-Air, Maytag and Magic Chef Fault Codes



WARNING

To avoid risk of electrical shock, personal injury or death; disconnect power and gas supply to oven before servicing, unless testing requires power and/or gas.

PRODUCT(S): **FREESTANDING AND SLIDE-IN RANGES, JENN-AIR**
MODEL YEAR(S): **PRIOR TO 1997**
MODELS: **W131, WME3020, WMG3020, SCG20200, SCE30500, WG30100**

Fault Code	Problem	Component(s) to Check
F1	Relay activated in non-cook mode	Remove power. If fault persists, check touch pad and clock. Isolate touch pad from clock. If code persists, issue is with control. If it does not persist, issue is with touch pad.
F2	Temperature runaway	Ohm sensor and check wiring. If ok, replace control.
F3	Open sensor	Ohm sensor and harness.
F4	Shorted sensor	Ohm sensor and harness.
F5	Open relay in a cook mode	Replace control.
F6	Missing AC line detector	Replace control.
F7	Shorted Key	Replace touch pad.
F8	Relay failure	Replace control.
F9	Door latch error	Check door lock assembly.
F0	Cancel key	Remove power. If fault persists, check touch pad and clock. Isolate touch pad from clock. If code persists, issue is with control. If code does not persist, issue is with touch pad.

PRODUCT(S): **SINGLE, COMBO AND DOUBLE WALL OVENS, DROP-IN AND SLIDE-IN RANGES, JENN-AIR**
MODEL YEAR(S): **PRIOR TO 1997**
MODELS: **D156, S176, W276, W256, W156, WW2780, WM2780, W2780**

Fault Code	Problem	Component(s) to Check
F0	Shorted key failure	Check the keypad for a stuck keypad.
F1	Failure in element relay circuit	Press cancel key. If alarm persists, isolate the touch pad from the clock. If failure returns, issue is with clock. If failure does not return, issue is with touch pad.
F2	Runaway temperature	Ohm sensor and sensor wiring. Verify oven will complete a clean cycle without failure.
F3	Shorted sensor	Ohm sensor, sensor wires, and inspect sensor for damage.
F4	Open oven sensor	Ohm sensor, sensor wires, and inspect sensor for damage.
F6	EEPROM failure	Replace control.
F7	Clean circuit	Check door lock switches and the wiring to the switches.
F8	Door switches	Check door lock switches and the wiring to the switches.

Jenn-Air, Maytag and Magic Chef Fault Codes



WARNING

To avoid risk of electrical shock, personal injury or death; disconnect power and gas supply to oven before servicing, unless testing requires power and/or gas.

PRODUCT(S): **FREESTANDING RANGES**
MODEL YEAR(S): **PRIOR TO 1997**

Fault Code	Problem	Component(s) to Check
F1	Relay shorted	Remove power. If fault persists, check touch pad and clock. Isolate touch pad from clock. If code persists, issue is with control. If code does not persist, issue is with touch pad.
F2	Temperature runaway	Ohm oven sensor and check sensor harness. If ok, replace control.
F3	Open sensor	Ohm sensor and check sensor harness.
F4	Shorted sensor	Ohm sensor and check sensor harness.
F5	Relay open	Replace control.
F6	Missing AC line detector	Replace control.
F7	Function key shorted.....	Check touch pad for stuck keypad. If ok, replace control.
F8	A/D supervisory.....	Replace control.
F9	Door latch.....	Check door latch assembly. If ok, replace control.
F0	Cancel key	Replace control.

Amana, Caloric and Modern Maid Fault Codes



WARNING

To avoid risk of electrical shock, personal injury or death; disconnect power and gas supply to oven before servicing, unless testing requires power and/or gas.

SECTION II: AMANA, CALORIC, MODERN MAID

PRODUCT(S): FREE STANDING RANGES, FLORENCE FACILITY, EMPLOYING GENESIS ELECTRONIC RANGE CONTROL (ERC) WITH “KNOB” FUNCTIONALITY

MODEL(S): AMANA BRANDS

NOTES: If sensor is “open” before power-up, an F-code will not be generated. Oven will not function. “Lock” light blinks on power-up for approximately 25 seconds. Control is verifying switch positions.

Oven Temperature Calibration:

- 1) Ensure “Knob” is in off position.
- 2) Press and hold arrow buttons until offset temperature displays.
- 3) Use arrows to adjust temperature up or down +35° to -35° in 5° increments.

NOTES: Offset temperature is retained through power failures.
Gas range must be powered off and back on to accept offset temperature.

Fault Code	Problem	Component(s) to Check
F-1	Control malfunction	Verify 120 VAC supply and wiring.
F-2	Oven over temperature	Ohm sensor, 1100Ω at room temperature. If ok, replace control.
F-3	Open or shorted sensor	Ohm sensor, 1100Ω at room temperature, and check wiring.
F-9	Door latch circuit.....	Check latch switch, light switch and associated wiring.

Amana, Caloric and Modern Maid Fault Codes



WARNING

To avoid risk of electrical shock, personal injury or death; disconnect power and gas supply to oven before servicing, unless testing requires power and/or gas.

PRODUCT(S): **FREESTANDING RANGES, FLORENCE FACILITY, EMPLOYING SIGMA ELECTRONIC RANGE CONTROL (ERC) WITH TOUCHMATIC CONTROL**
MODEL(S): **AMANA BRANDS**

Oven Temperature Calibration:

- 1) Press BAKE pad.
- 2) Set oven temperature to 500° F.
- 3) Press and hold BAKE pad until offset temperature displays.
- 4) To increase or decrease temperature, press BAKE pad until desired offset temperature displays.

NOTE: Offset temperature is wrap-around function.

- 5) Adjust +35° F to -35° F in 5° increments.
- 6) Press START to lock offset temperature.

NOTE: Offset temperature is retained through power failures.

Child Lock-Out:

- 1) Press 7 pad for 3 seconds to activate.
- 2) Press 7 pad for 3 seconds to deactivate.

Sabbath Mode:

- 1) Press BAKE pad.
- 2) Enter oven temperature.
- 3) Press START.

NOTE: Turn on oven light, if desired.

- 4) Press and hold 8 pad for 3 seconds to activate Sabbath mode.

NOTE: Sabbath mode activates for 37 hours, unless cancelled.

Fault Code	Problem	Component(s) to Check
F0-0	Initial factory setting	None.
F1-1	Over temperature in cook mode	Ohm sensor, 1100Ω at room temperature, and check wiring.
F1-3	Over temperature in clean cycle	Ohm sensor, 1100Ω at room temperature, and check wiring.
F1-5	Cancel key input out of range	Replace control.
F1-7	Keyboard disconnected.....	Verify connections.
F1-8	Shorted key	Replace control.
F1-9	Slave micro not functioning.....	Replace control.
F1-A	VCC/ground lift off.....	Replace control.
F1-E	EEPROM data corrupt	Replace control.
F1-F	Incorrect project number in EEPROM.....	Replace control.
F1-H	Door switch input circuit failure	Check door switch and wiring.
F1-J	Latch switch input circuit failure	Check door switch and wiring.
F3-1	Sensor/Sensor Circuit failure	Check sensor and wiring.
F9-1	Auto latch will not lock.....	Check wiring, latch motor, latch and door switch.
F9-2	Auto latch will not unlock.....	Check wiring, latch motor, latch door switch.

Amana, Caloric and Modern Maid Fault Codes



To avoid risk of electrical shock, personal injury or death; disconnect power and gas supply to oven before servicing, unless testing requires power and/or gas.

PRODUCT(S): **FREESTANDING RANGES EMPLOYING GLASS LINK ELECTRONIC RANGE CONTROL (ERC)**

MODEL(S): **ACO27SK, ARC700**, ARHC7700**, ARHC8700**, ARTC7600**, ARTC8500**, ARTC8600**, ZRTC8500****

The ERC is capable of detecting certain failures within the control, temperature sensor and door latch.

NOTE: *Refer to the appropriate Service Manual for detailed service instructions.*

Fault Code	Problem	Component(s) to Check
N/A	DOOR status flashing NOTE: Switch position statuses are displayed in the Quicktest mode only by touching the CLEAN pad. Quicktest accessed by touching and holding "COOK TIME" for 5 seconds within the first 5 minutes of power up.	Door Status: 0 – Both latch switches open. 1 – Unlock switch closed, lock switch open. 2 – Lock switch closed, unlock switch open. 3 – Both latch switches closed.
F0	Loss of safety signal.....	Verify glass to adaptor board connections. If ok, replace adaptor board.
F1	Watch dog circuit problem.....	Replace Electronic Range Control (ERC).
F2	Oven cavity over temperature.....	Check sensor resistance, sensor wiring, and temperature limiter.
F3	Open sensor or sensor circuit.....	Check sensor resistance and wiring.
F4	Shorted sensor or sensor circuit.....	Check sensor resistance and wiring.
F7	Shorted touch panel.....	Verify glass to adaptor board connection. If ok, replace glass panel.
F9	Motorized door lock error.....	Check latch switch(es).
FF	Door motor supervision problem.....	Check latch switch(es) and door latch motor.

Amana, Caloric and Modern Maid Fault Codes



WARNING

To avoid risk of electrical shock, personal injury or death; disconnect power and gas supply to oven before servicing, unless testing requires power and/or gas.

PRODUCT(S): **FREESTANDING, SLIDE-IN, DOWNDRAFT RANGES AND WALL OVENS EMPLOYING COMBINATION ELECTRONIC RANGE CONTROL (ERC) AND RELAY BOARD**

MODEL(S): **ART6511**, ARG7800**, AOES2730**, ARTS6650**, ARTSC8650****

The ERC is capable of detecting certain failures within the control, temperature sensor and door latch.

NOTE: *Refer to the appropriate Service Manual for detailed service instructions.*

Fault Code	Problem	Component(s) to Check
DOOR displayed when baking or broiling	Door latched, failed latch switch, or short in wiring	Ensure door is not latched, check latch switch connections and ohm wiring. If ok, replace latch switch.
DOOR displayed when cleaning	Door latch open, failed latch switch, open wire in circuit....	Ensure door is latched, check latch switch connections and ohm wiring. If ok, replace latch switch.
LOCK displayed when NOT cleaning	Failed latch switch or shorted wire lead	Check latch switch connections and ohm wiring. If ok, replace latch switch.
F1	Shorted or sticking key (button)/failed mylar touch pad	Check glass alignment, key (button) movement/continuity of mylar pads.
F2	Oven cavity over temperature	Check sensor resistance and wiring.
F3	Open sensor or sensor circuit	Check sensor resistance and wiring.
F4	Shorted sensor or sensor circuit	Check sensor resistance and wiring.
F5	Failed component in ERC system	Check all components and wiring. If ok, replace control.
F6	Failed component in ERC system or fluctuation in 60Hz power source	Check power source before replacing control.
F7	Shorted or sticking key (button), door lock switch failure with door locked	Check glass alignment, key (button) movement. Check switch connections and wiring. If ok, replace switch.
F8	Failed component in ERC system	Check all components and wiring. If ok, replace control.
F9	Door latch supervisory circuit problem	Check door switch(s).
	Door lock switch failure with door locked	Check switch connections and wiring. If ok, replace switch.

Amana, Caloric and Modern Maid Fault Codes



WARNING

To avoid risk of electrical shock, personal injury or death; disconnect power and gas supply to oven before servicing, unless testing requires power and/or gas.

PRODUCT(S): **FREESTANDING, SLIDE-IN, DOWNDRAFT RANGES AND WALL OVENS EMPLOYING ELECTRONIC RANGE CONTROL (ERC) WITH SEPARATE RELAY BOARD**

MODEL(S): **AMANA BRANDS (E.G., ARDS800**, AGDS901**)**

The ERC is capable of detecting certain failures within the control, temperature sensor and door latch.

NOTE: *Refer to the appropriate Service Manual for detailed service instructions.*

Fault Code	Problem	Component(s) to Check
DOOR displayed when baking or broiling	Door latched, failed latch switch, or open in wiring..	Ensure door is not latched, check latch switch connections and ohm wiring. If ok, replace latch switch.
LOCK displayed when NOT cleaning	Sensor resistance too high or shorted wire lead.....	Check sensor resistance and wiring.
F1	Failed component in ERC system.....	Check all components and wiring. If ok, replace control.
F2	Sensor resistance too high	Check sensor resistance and wiring.
F3	Open sensor or sensor circuit	Check sensor resistance and wiring.
F4	Shorted sensor or sensor circuit	Check sensor resistance and wiring.
F5	Failed component in ERC system.....	Check all components and wiring. If ok, replace control.
F6	Failed component in the ERC system or fluctuation in 60Hz power source.....	Check power source before replacing control.
F7	Shorted or sticking key(button)	Check glass alignment, key (button) movement.
F8	Failed component in ERC system.....	Check all components and wiring. If ok, replace control.
F9	Door latch supervisory circuit problem.....	Check door switch(s).

Amana, Caloric and Modern Maid Fault Codes



WARNING

To avoid risk of electrical shock, personal injury or death; disconnect power and gas supply to oven before servicing, unless testing requires power and/or gas.

PRODUCT(S): CONVECTION MICROWAVES EMPLOYING ELECTRONIC RANGE CONTROL (ERC) WITH PUSHBUTTON CONTROLS

MODEL(S): AMANA BRANDS (E.G., ACO27**, FDC250**, FDC290**, FDC350**, FDC390**)

The ERC is capable of detecting certain failures within the control, temperature sensor and door latch.

NOTE: Refer to the appropriate Service Manual for detailed service instructions.

Fault Code	Problem	Component(s) to Check
DOOR displayed when baking or broiling	Door latched, failed latch switch, or open in wiring	Ensure door is not latched, check latch switch connections and ohm wiring. If ok, replace latch switch.
DOOR displayed when cleaning	Door latch open, failed latch switch, open wire in circuit....	Ensure door is latched, check latch switch connections and ohm wiring. If ok, replace latch switch.
LOCK displayed when NOT cleaning	Sensor resistance too high or shorted wire lead	Check sensor resistance and wiring.
F0	Shorted push pad	Check all buttons on push pad. Ensure none are sticking.
F1	Failed component in ERC system	Check all components and wiring. If ok, replace control.
F2	Oven cavity over temperature	Check sensor resistance and wiring.
F3	Shorted sensor or sensor circuit	Check sensor resistance and wiring.
F4	Open sensor or sensor circuit	Check sensor resistance and wiring.
F6	Failed component in the ERC system or fluctuation in 60Hz power source	Check power source before replacing control.
F7	Shorted or sticking key (button)	Check glass alignment, key (button) movement.
F9	Door latch supervisory circuit problem	Check door switch(s).

Amana, Caloric and Modern Maid Fault Codes



To avoid risk of electrical shock, personal injury or death; disconnect power and gas supply to oven before servicing, unless testing requires power and/or gas.

PRODUCT(S): WALL OVENS EMPLOYING ELECTRONIC RANGE CONTROL (ERC)
WITH MYLAR TOUCHPAD
MODEL(S): AMANA BRANDS (E.G., AOES3030**, AOCS3040**, AOCD2770**,
AOCS2740**, AOGD2750**)

The ERC is capable of detecting certain failures within the control, temperature sensor and door latch.

NOTE: Refer to the appropriate Service Manual for detailed service instructions.

Fault Code	Problem	Component(s) to Check
DOOR status displayed	Door lock status not sensed	Verify operation of latch switches.
FF status displayed	Door lock circuitry malfunctions at clean temperatures	Verify operation of latch switches.
F1	Control malfunction	Replace ERC.
F2	Oven over temperature	Check sensor, sensor wiring, and limit switch(es).
F3	Open sensor or sensor circuit	Check sensor resistance and wiring.
F4	Open sensor or sensor circuit	Check sensor resistance and wiring.
F7	Shorted input key	Verify mylar connection to ERC and mylar functions.
F9	Door lock or door lock circuitry malfunction	Verify operation of door switch(es).

PRODUCT(S): 24" ELECTRIC WALL OVENS EMPLOYING ELECTRONIC RANGE CONTROL (ERC)
MODEL(S): AMANA BRAND AOES2430**

Fault Code	Problem	Component(s) to Check
F1	Control malfunction	Check latch switch, light switch, or door motor. Verify operation of latch switches. If ok, replace control.
F3	Open or shorted sensor.....	Check sensor resistance and wiring.

Amana, Caloric and Modern Maid Fault Codes



WARNING

To avoid risk of electrical shock, personal injury or death; disconnect power and gas supply to oven before servicing, unless testing requires power and/or gas.

PRODUCT(S): **FREESTANDING RANGES AND 30" WALL OVENS**
MODEL(S): **ALL AMANA, CALORIC AND MODERN MAID BRANDS**
NOTE: When oven door is opened, convection fan remains operational.

PRODUCT(S): **27" WALL OVENS**
MODEL(S): **ALL AMANA, CALORIC AND MODERN MAID BRANDS**
NOTE: When oven door is opened, convection fan stops.

PRODUCT(S): **FREESTANDING, SLIDE-IN, DROP-IN, DOWNDRAFT RANGES AND WALL OVENS EMPLOYING ELECTRONIC RANGE CONTROL (ERC)**
MODEL(S): **ALL AMANA, CALORIC AND MODERN MAID BRANDS**

Temperature Calibration Offset Adjustment:

- 1) Select temperature between 500-550° F.
- 2) Press and hold BAKE function.
- 3) Select desired offset between +35° and -35° F.
- 4) Press CANCEL to enter offset temperature.

NOTES: Offset temperature is retained through power failures.
Self-clean temperatures not affected by calibration offset.

Sensor Resistance:

Table 5: Sensor Resistance (all Electronic Range Controls):

Sensor Resistance	
Temperature F (C)	Resistance (Approximate)
75 (23.8)	1100
350 (176.6)	1650
550 (287.7)	2050
880 (471.1)	2700

Broil Temperatures

 (all products equipped with variable broil):

Table 6: Broil Temperatures

Broil Temperatures		
Setting	Drive Percentage	Temperature F (C) (Approx.)
HI	100	600 (315.5)
5	93	550 (287.7)
4	87	525 (273.8)
3	80	475 (246.1)
2	73	425 (218.3)
1	67	400 (204.4)