

SERVICE DATA SHEET

318127023 (0505) Rev. A

Gas Slide-in Range with Electronic Oven Control

NOTICE

This service data sheet is intended for use by persons having electrical and mechanical training and a level of knowledge of these subjects generally considered acceptable in the appliance repair trade. **The manufacturer cannot be responsible, nor assume any liability, for injury or damage of any kind arising from the use of this data sheet.**

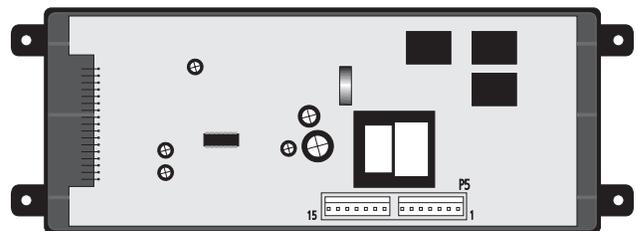
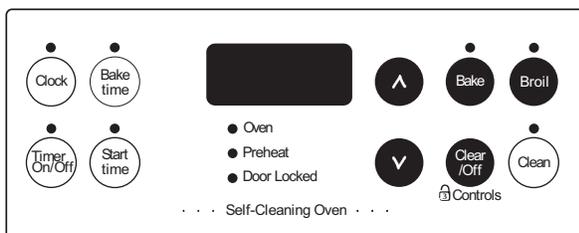
SAFE SERVICING PRACTICES

To avoid the possibility of personal injury and/or property damage, it is important that safe servicing practices be observed. The following are examples, but without limitation, of such practices.

1. Do not attempt a product repair if you have any doubts as to your ability to complete it in a safe and satisfactory manner.
2. Before servicing or moving an appliance, remove power cord from electric outlet, trip circuit breaker to Off, or remove fuse and turn off gas supply.
3. Never interfere with the proper installation of any safety device.
4. USE ONLY REPLACEMENT PARTS CATALOGED FOR THIS APPLIANCE. SUBSTITUTIONS MAY DEFEAT COMPLIANCE WITH SAFETY STANDARDS SET FOR HOME APPLIANCES.
5. GROUNDING: The standard color coding for safety ground wires is GREEN OR GREEN WITH YELLOW STRIPES. Ground leads are not to be used as current carrying ground conductors. IT IS EXTREMELY IMPORTANT THAT THE SERVICE TECHNICIAN REESTABLISH ALL SAFETY GROUNDS PRIOR TO COMPLETION OF SERVICE. FAILURE TO DO SO WILL CREATE A POTENTIAL HAZARD.
6. Prior to returning the product to service, ensure that:
 - All electric connections are correct and secure.
 - All electrical leads are properly dressed and secured away from sharp edges, high-temperature components, and moving parts.
 - All non-insulated electrical terminals, connectors, heaters, etc. are adequately spaced away from all metal parts and panels.
 - All safety grounds (both internal and external) are correctly and securely reassembled.
 - All panels are properly and securely reassembled.

ELECTRONIC OVEN CONTROL

The ES300 electronic oven control is almost identical to the current control with a few exceptions.



Note: The ES300's are not field repairable. Only temperature settings can be changed. See Electronic Oven Control Guide (section recalibrating your oven temperature).

Note: Depending on model, the size and shape of touch pads may vary (for example round instead of elliptical).

NORMAL BAKE

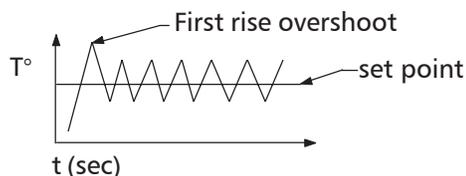
During a preheat and/ or normal bake mode, the controller preheats the oven with the bake burner.

CLEAN

During a cleaning process, the oven uses the bake burner. When this mode is called, the door locks right after start button is pushed.

FIRST RISE

It is normal to see a temperature overshoot in the first rise of all modes when you monitor the temperature.



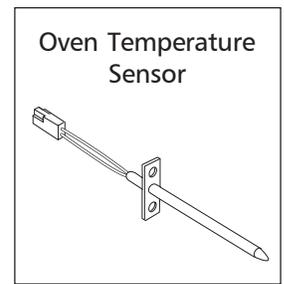
ELECTRONIC OVEN CONTROL

ELECTRONIC OVEN CONTROL FAULT CODE DESCRIPTIONS AND RTD SCALE

Fault Code	Likely Failure Condition/Cause	Suggested Corrective Action
F1	<ol style="list-style-type: none"> 1. Shorted keypad. 2. Control's internal checksum may have become corrupted. 3. Control has sensed a potential runaway oven condition. Control may have shorted relay, RTD sensor probe may have gone bad. 	<ol style="list-style-type: none"> 1. Replace EOC. 2. Disconnect power, wait 30 seconds and reapply power. If fault returns upon power-up, replace EOC. 3. Check RTD sensor probe and replace if necessary. If oven is overheating, disconnect power. If oven continues to overheat when the power is reapplied, replace EOC. Severe overheating may require the entire oven to be replaced, should damage be extensive.
F3	<ol style="list-style-type: none"> 1. Open RTD sensor probe/ wiring problem. Note: EOC may initially display an "F1", thinking a runaway condition exists. 2. Shorted RTD sensor probe / wiring problem. Note: "F3" is displayed when oven is in active mode or an attempt to enter an active mode is made. 	<ol style="list-style-type: none"> 1. Check wiring in probe circuit for possible open condition. Check RTD resistance at room temperature (compare to probe resistance chart). If resistance does not match the chart, replace the RTD sensor probe. 2. Check wiring in probe circuit for possible short condition. Check RTD resistance at room temperature (compare to probe resistance chart). If resistance does not match the chart, replace the RTD sensor probe.
F9	<ol style="list-style-type: none"> 1. Door motor failure/ jammed. Latch motor switch failure. 2. Control software failure, or component failure (relay stuck). 3. Safety thermostat opened, or cooling fan stalled. 4. Wiring Problem. 	<ol style="list-style-type: none"> 1. Press CLEAR key. 2. If CLEAR key does not eliminate problem, turn off power for 30 seconds, then turn on power. 3. Check wiring of Lock Motor, and Lock Switch A and Door Switch circuits. Look for stalled cooling fan, broken safety thermostat, shorts or opens. 4. Unplug P4, apply power (L1) directly to the Lock Motor, if the motor does not rotate, replace Lock Motor Assembly. Plug P4. 5. Check Lock Switch A for proper operation (do they open and close, check with ohmmeter). The Lock Motor may be powered as in above step to open and close Lock Switch. If the Lock Switch is defective, replace Motor Lock Assembly. 6. If all above steps fail to correct situation, replace control.

RTD SCALE		
Temp. °F	Temp. °C	Resistance (ohms)
32 ± 1.9	0.0 ± 1.1	1000 ± 4.0
75 ± 2.5	23.9 ± 1.4	1091 ± 5.3
250 ± 4.4	121.1 ± 2.4	1453 ± 8.9
350 ± 5.4	176.7 ± 3.0	1654 ± 10.8
450 ± 6.9	232.2 ± 3.8	1852 ± 13.5
550 ± 8.2	287.8 ± 4.6	2047 ± 15.8
650 ± 9.6	343.3 ± 5.3	2237 ± 18.5
900 ± 13.6	482.2 ± 7.6	2697 ± 24.4

BURNER RATING	
Rating	See nameplate
Bake Burner	15 000BTU
Broil Burner	12 000BTU



CIRCUIT ANALYSIS MATRIX					
	Bake P5-1	Broil P5-2	MDL P5-6 & N	Lock Motor Switch A	Cooling Fan
Bake	X				X
Broil		X			X
Clean	X			X	X
Unlocked					
Locking			X	X	
Locked					
Unlocking			X		

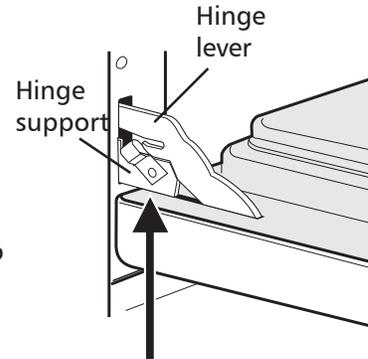
2 SPEEDS COOLING FAN

A relay and a thermostat (170°/140°) control the speeds of the blower. The high speed should engage in clean mode only.

OVEN DOOR REMOVAL AND REPLACEMENT

To Remove the Oven Door:

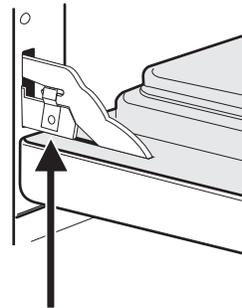
1. Open the door to the fully opened position.
2. Pull up the lock located on each hinge supports and engage it in the hinge lever. You may have to apply a little downward pressure on the door to pull the locks fully over the hooks.
3. Grab the door by the sides, pull the bottom of the door up and toward you to disengage the hinge supports. Keep pulling the bottom of the door toward you while rotating the top of the door toward the range to completely disengage the hinge levers.



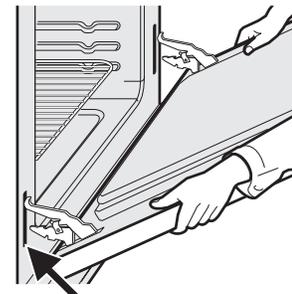
Lock in normal position

To Replace the Oven Door:

1. Grab the door by the sides; place the hinge supports in the hinge slots. Open the door to the fully opened position.
2. Disengage the lock from the hinge levers on both sides.
Note: Make sure the hinge supports are fully engaged before unlocking the hinge levers.
3. Close the oven door.



Lock engaged for door removal



HINGE SLOT - Door removed from the range

⚠ CAUTION The door is heavy. After removing door, lay it flat on the floor with the inside of the door facing down.

DOOR LOCK MECHANISM

The appliance is equipped with an electronic oven control and has an auto locking door latch feature. When the self clean cycle is programmed, the door is locked by a motor operated latch system. The interior of oven doesn't need to heat up to 500°F/260°C before the door locks. However, until the temperature inside oven reaches 500°F/260°C, the self-clean program can be canceled and door will unlock immediately. After oven reaches temperatures over 500°F/260°C, the door will not unlock until temperature drops below 500°F/260°C.

If a problem appears and the door stays locked it is possible for the **servicer** to unlock the door without removing the appliance from its place. Follow the steps below:

1. Trip the circuit breaker to **OFF** position.
2. Remove the 2 screws, which are fixing the oven door latch, located between the control panel and the oven door.
3. When the screws are removed it is possible to unlock the latch with a flat screwdriver, or one of the tools supplied with the wall oven which are used to take off the oven from the cabinet. Insert the tool tip through the slot on top of the oven door. During this step it's important to take care to not damage the appliance.
4. As soon as the latch is in the unlock position, you can open the door.
5. Replace the motor latch:
 1. To have access to the door latch assembly, remove the 3 screws under the control panel which are fixing it.
 2. Remove the access plate located on the upper air channel by removing the screw.
 3. Replace the motor latch by a new one and reassemble in reverse order.

