

30" FREE-STANDING ELECTRIC RANGE

IMPORTANT SAFETY NOTICE: This information is intended for use by individuals possessing adequate backgrounds of electrical, electronic and mechanical experience. Any attempt to repair a major appliance may result in personal injury and property damage. The manufacturer or seller cannot be responsible for the interpretation of this information, nor can it assume any liability in connection with its use.

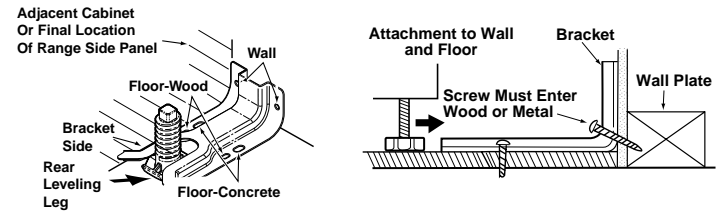
DISCONNECT POWER BEFORE SERVICING
IMPORTANT: Reconnect all grounding devices. All parts of this appliance capable of conducting electrical current are grounded. If grounding wires, screws, straps, clips, nuts, or washers used to complete a path to ground are removed for service, they must be returned to their original position and properly fastened.

GROUNDING SPECIFICATIONS
Ground Path Resistance 0.10Ω Max.
Insulation Resistance 250KΩ Min.

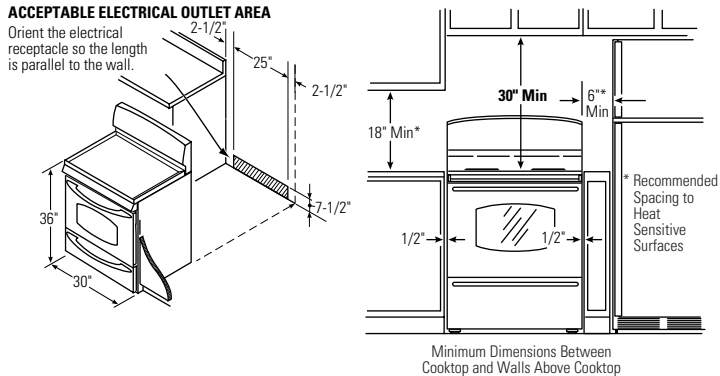
INSTALLATION REQUIREMENTS
Power Supply: This appliance must be supplied with proper voltage and frequency, and connected to an individual properly grounded branch circuit, protected by a circuit breaker or time delay fuse, as noted on rating plate. Wiring must conform to the Canadian Electrical Codes. The rating plate is located on the lower front frame behind the storage drawer.

NEC Rating	Maximum Kilowatt Rating	
	208V	240V
40 Amp	12.4	16.0
50 Amp	17.4	22.0

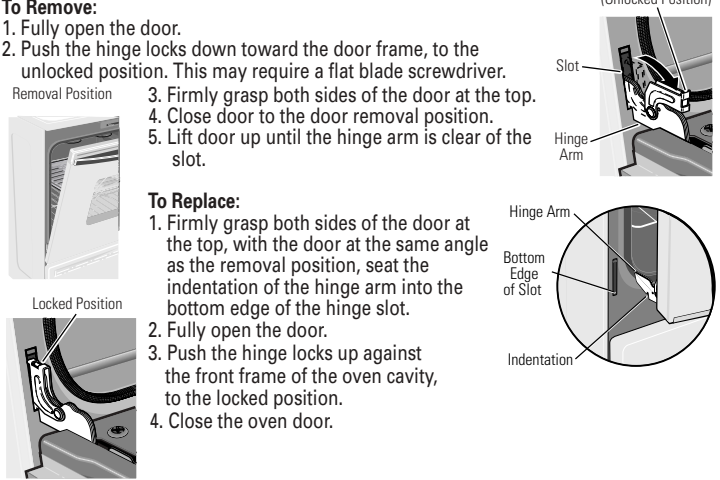
NOTE: Installation information for reference only. See Installation Instructions shipped with product for complete details and before attempting to install. Brackets should be attached to the floor or wall to hold either right or left rear leg leveler. Make sure leg leveler re-engages the bracket when range is moved for any reason.



MINIMUM CLEARANCES



REMOVABLE OVEN DOOR



Cooling Air Flow
Air enters the door assembly through large slots in the bottom and flows upward between the inner and outer assemblies, exhausting through slots in the top of the door. **DO NOT INSULATE THIS AIR CHANNEL.**

- To Service Full Glass Door**
- Complete door assembly:
 - Remove three screws from the bottom door frame
 - Remove two screws at the top of the door on the liner
 - The liner assembly and outer glass panel assembly can now be separated.
 - Outer glass panel assembly:
 - Remove four screws from the side posts at the bottom
 - Remove four screws from the side posts at the top near the door vent trim
 - Slide the bottom trim and top vent trim out to free the outer door glass
 - Note:** On some doors the bottom trim is sealed to the outer door glass and cannot be separated.
 - Liner assembly:
 - Remove three screws on each side of the door liner to remove the door hinge assembly
 - Remove four screws from the insulation retainer
 - Remove insulation retainer and then the insulation
 - The window pack and window gasket are now accessible, on units with a window door.

Door Gasket
The door gasket is clipped into the liner of the door panel.

To Service Gasket
A gap must be left in the gasket at bottom of door. The gap is required to provide air flow in the oven for proper baking results.

COOKTOP REMOVAL

The cooktop is fastened to the front frame by two screws. Remove the screws and lift the back edge of cooktop upward (no more than 1 to 2 inches) to unhook the cooktop hinge from the backguard pins. Pull forward. Unplug harness and unscrew ground wire located at rear of cooktop. Lift cooktop off.

NOTE: Raising cooktop too high can break the glass.

TEMPERATURE LIMIT/HOT LIGHT SWITCH

The Temperature Limit/Hot Light Switch performs two functions:

- Turns on **HOT LIGHT** when the Surface Unit Switch is turned on. The hot light will remain on until the glass surface above the heating unit has cooled below 150°F (even after surface unit switch has been turned off).
- Detects when glass temperature above a unit has exceeded its limit of approximately 1031°F and disconnects power to that unit. When glass temperature cools below 1031°F, the unit will turn back on. The temperature limit/hot light switch cannot be calibrated.

CONTROL PANEL REMOVAL

The control panel contains the ERC infinite heat switches.

To Service:

- Remove 2 screws (from bottom) securing control panel to the backguard.
- Remove 2 screws at the top, in the back of the range.
- Pull bottom of panel out while lifting panel up.
- Lay panel on cooking surface.

CAUTION: Place protective covering (such as towel) between control panel and cooking surface to avoid damage to control panel.

T09 CONTROL

The Electronic Range Control system consists of the control, key panel, oven sensor, door lock assembly.

Key Panel Test
Depress each pad on the Key panel followed by the pad. If the Key panel is functioning properly the following should occur:

- Bake, Broil, Clean, Timer, Clock, Stop Time and Cook Time Modes–Audible tone plus display showing mode of operation selected.
- Clear/Off–Audible tone and display shows time of day.
- Increase/Decrease pads–No audible tone. Can only be used after another function has been selected.

CONTROL VOLTAGE–ERC

NOTE: Mode and temperature selection is necessary for operation of relay contacts. This model incorporates Double Line Break meaning there is no voltage on the elements when the control is in standby.

Terminals on ERC (element terms are on tops of large relays)	Voltage, standby (no relays energized)	Voltage, Broil mode active	Voltage, Bake mode active
L1-N	120VAC (if not, harness may be bad)		
L1-L2	240VAC (if not, harness may be bad)		
L1-BAKE	~0VAC (if not, relay may be bad)	240VAC (mode active, bake relay off, DLB relay on)*	~0VAC when bake element on (if not, relay/ERC may be bad)**
L1-BROIL		~0VAC when broil element on (if not, relay/ERC may be bad)**	240VAC (mode active, broil relay off, DLB relay on)*

*If not, check indicated element and harnessing.
**Relay is on only when calling for heat. 240VAC when not calling for heat, else check indicated element and wiring.

Sensor & Lock Circuits Ohmmeter Test

Disconnect power and make measurement from side of connector that has terminals exposed.

SPECIAL FUNCTION ON T09 CONTROL:

Hold **Bake** and **Broil** keys simultaneously for 3 seconds until display shows SF (Special Function). Select the are to change. When change has been made press start key to return to time of day.

- Adjust oven temperature:** Press **Bake** key, Display shows ‘00’. Use Up/Down keys to change the oven temperature. Oven temperature can be adjusted to a range of +/-35 degrees in steps of 1 degree.
- SAb/ON/OFF:** Press **Clock** key when display showing ‘SF’. The display changes for every clock key press to **ON/OFF/SAb**. **ON** stands for 12 Hr shutdown, **OFF** stands for no Shut down, **SAb** stands for SABBATH special feature.

T09 FAULT CODES

FAILURE CODE	MEANING	CORRECTION
F0	SHORTED CANCEL/OFF KEY	Power down then power up the range. If the fault condition reappears within 15 minutes–REPLACE CONTROL.
F2	OVEN OVERTEMPERATURE CONDITION <ul style="list-style-type: none">Door unlocked–oven exceeded ~620°FDoor locked–oven exceeded ~930°FDoor latch unlocked while oven in excess of ~620°F	1.If no overtemperature condition occurred –check all contacts and connections in sensor circuit. Eliminate excessive resistance in sensor circuit due to increased contact/connector resistance. 2.If overtemperature condition occurred –look for welded relay contacts on bake, broil, or double-line-break relays. If relay contact welding is confirmed–REPLACE CONTROL. 3.Ensure Door Latch stays locked for duration of CLEAN cycle.
F3	OPEN OVEN SENSOR Sensor resistance >2900 ohms	Disconnect sensor/latch connector from the control. Measure sensor circuit resistance at sensor/lock switch connector (should be ~1100 ohms at room temperature). Ensure each sensor lead to chassis ground resistance is infinitely high.
F4	SHORTED OVEN SENSOR Sensor resistance <950 ohms	If open or short circuit is detected: 1. Look for cut or pinched sensor harness wire. 2. Look for sensor leads shorted to chassis ground. 3. Look for loss of terminal contact in the harness and at the control. 4. Check sensor resistance directly at sensor harness connector (away from the control). If reading is abnormal–REPLACE OVEN SENSOR. If sensor circuit appears to be normal: 1.Reinstall sensor/lock switch connector on the control and measure sensor resistance at solder joints on the back of the control circuit board. If abnormal resistance reading is observed–RESTORE CONTACT PRESSURE OR SENSOR/LOCK SWITCH CONNECTOR. If corrective actions above do not eliminate the problem –REPLACE CONTROL.
F5	CONTROL SUPERVISORY CIRCUIT FAILURE	REPLACE CONTROL.
F7	SHORTED MATRIX KEY	Power down then power up the range. If the fault condition reappears within 15 minutes–REPLACE CONTROL.
F8	EEPROM ERROR	Power down then power up the range. If the fault condition reappears within 5 minutes–REPLACE CONTROL.

DOOR LATCH MECHANISM

The latch mechanism is thermally operated. When the latch handle is moved to the clean position the latch hook engages into a slot in the oven door. As the clean cycle progresses, the increase in oven temperature causes a bi-metal coil on the latch mechanism to expand. This expansion causes a cam to rotate into the path of the latch mechanism thus locking it into position. The door locks when the oven has reached a temperature between 560 and 600 degrees F and will remain locked until the oven has dropped below these temperatures (560-600 degrees F).

