INSTALLATION

Product Specifications

The appearance and specifications listed in this manual may vary due to constant product improvements.

Oven Range Models	LSD4913		
Description Dual Fuel Range			
Electrical requirements	4.2 kW 120/240 VAC or 3.2 kW 120/208 VAC		
Exterior Dimensions	29 ⁷ / ₈ " (W) x 37 ⁷ / ₈ " (H) x 26 ¹ / ₂ " (D) (D with door closed)		
	75.7 cm (W) x 96 cm (H) x 67.3 cm (D) (D with door closed)		
Height to cooking surface	36" (91.4 cm)		
Net weight	181 lb (82.0 kg)		
Total capacity	Total cap.: 6.3 cu. ft.		

Before Installing the Range

Make sure your range is properly installed and grounded by a qualified installer, according to the installation instructions. Any adjustment and service should be performed only by qualified gas range installers or service technicians.

In the Commonwealth of Massachusetts

- This product must be installed by a licensed plumber or gas fitter.
- When using ball type gas shut-off valves, they must be the T-handle type.
- When using a flexible gas connector, it must not exceed 3 feet in length.

Preparing for Installation

Tools Needed



Phillips screwdriver



Open-end or adjustable wrench

Materials You May Need

- · Gas line shut-off valve
- · Pipe joint sealant that resists action of natural and LP gases
- Flexible metal appliance connector (3/4" or 1/2" NPT x 1/2" I.D.) Never use an old connector when installing a new range.
- Flare union adapter for connection to gas supply line (3/4" or 1/2" NPT x 1/2" I.D.)
- Flare union adapter for connection to pressure regulator on range (1/2" NPT x 1/2" I.D.)
- · Liquid leak detector or soapy water
- Lag bolt or 1/2" O.D. sleeve anchor (for concrete floors only)

Flat-blade screwdriver

Pencil and ruler

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Pipe wrench (2) (one for support)

Level

Installing the Range

Unpacking and Moving the Range

- You should use two or more people to move and install the range. (Excessive Weight Hazard) Failure to do so can result in back or other injury.
- Do not use the door handles to push or pull the range during installation or when moving the range out for cleaning or service. Doing so can result in serious damage to the door of the range.

Remove packing material, tape and any temporary labels from your range before using. Do not remove any warning-type labels, the model and serial number label, or the Tech Sheet that is located on the back of the range.

To remove any remaining tape or glue, rub the area briskly with your thumb. Tape or glue residue can also be easily removed by rubbing a small amount of liquid dish soap over the adhesive with your fingers. Wipe with warm water and dry.

Do not use sharp instruments, rubbing alcohol, flammable fluids, or abrasive cleaners to remove tape or glue. These products can damage the surface of your range.

Your range is heavy and can be installed on soft floor coverings such as cushioned vinyl or carpeting. Use care when moving the range on this type of flooring. Use a belt when moving the range to prevent damaging the floor. Or slide the range onto cardboard or plywood to avoid damaging the floor covering.



Choosing the Proper Location

Do not locate your range where it may be subject to strong drafts. Any openings in the floor or wall behind the range should be sealed. Make sure the openings around the base of the range that supply fresh air for combustion and ventilation are not blocked by carpeting or woodwork.

Your range, like many other household units, is heavy and can be installed on soft floor coverings such as cushioned vinyl or carpeting. Use care when moving the range on this type of flooring.

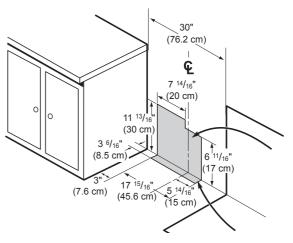
This appliance must not be installed with a ventilation system that blows air downward toward the range. This type of ventilation system may cause ignition and combustion problems with the gas cooking appliance resulting in personal injury or unintended operation.

When the floor covering ends at the front of the range, the area that the range will be installed on should be built up with plywood to the same level or higher than the floor covering. This will allow the range to be moved for cleaning and servicing, as well as provide proper air flow to the range.

Also, make sure the floor covering can resist temperatures of at least 167 °F (75 °C). See the Installation Safety Instructions included in this manual.

Make sure the wall coverings around your range can resist the heat generated up to 194 °F (90 °C) by the range. See the Installation Safety Instructions included in this manual.

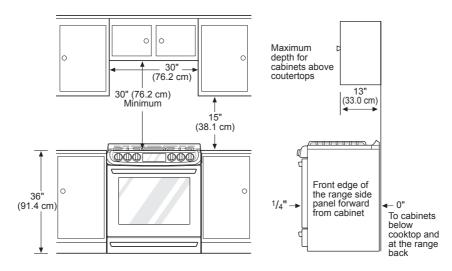
Gas Pipe and Electrical Outlet Locations



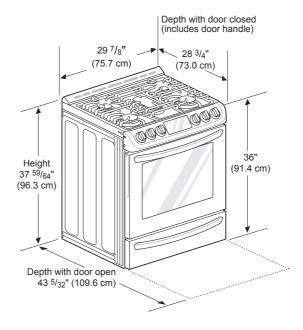
Dimensions and Clearances

Provide proper clearance between the range and adjacent combustible surfaces. These dimensions must be met for safe use of your range. The location of the electrical outlet and pipe opening (see Gas Pipe and Electrical Outlet Locations, page 14) may be adjusted to meet specific requirements. The range may be placed with 0" clearance (flush) at the back wall.

Installation Clearances

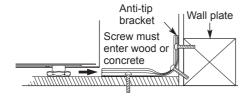


Dimensions



ENGLISH

Installing the Anti-tip Device



The anti-tip bracket is packaged with an installation template. The instructions include necessary information to complete the installation. Read and follow the range installation instruction sheet.

🛕 WARNING

- Range must be secured with an approved anti-tip device.
- The range could be tipped by standing, sitting or leaning on an open door if the range or anti-tip device is not properly installed.
- After installing the anti-tip device, verify that it is in place by carefully attempting to tilt the range forward.
- This range has been designed to meet all recognized industry tip standards for all normal conditions.
- The installation of the anti-tip device must meet all local codes for securing the appliance.
- The use of this device does not preclude tipping of the range when not properly installed.
- A child or adult can tip the range and be killed.
- Install the anti-tip device to the structure and/ or the range. Verify the anti-tip device has been properly installed and engaged by following the guide of the Anti tip bracket template.
- Engage the range to the anti-tip device by following the guide of the Anti tip bracket template. Ensure the anti-tip device is re-engaged when the range is moved by following the guide of the Anti tip bracket template.
- Re-engage the anti-tip device if the range is moved. Do not operate the range without the anti-tip device in place and engaged.
- · See installation instructions for details.
- Failure to do so can result in death or serious burns to children or adults.

Optional Rear Filler

If the counter does not bridge the opening at the rear wall the rear filler kit, that is provided with the slide in range, will be needed.

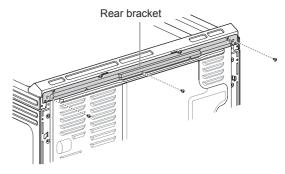
- NOTE

If the countertop depth is greater than 25" there will be a gap between the filler kit and the back wall.

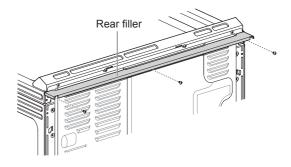
If the countertop depth is less than 24", the control panel will not sit flush with the countertop.

Installing the Rear Filler

1 Using a screwdriver, remove the three screws holding the rear bracket in place.



2 Attach the rear bracket and filler assembly as shown, using the three screws removed in step 1.



Providing Adequate Gas Supply

Your range is designed to operate at a pressure of 5" of water column on natural gas or 10" of water column on LP.

Make sure you are supplying your range with the type of gas for which it is configured.

This range is convertible for use on natural or LP gas. When using this range on LP gas, conversion must be made by a qualified LP installer before attempting to operate the range.

For proper operation, the pressure of natural gas supplied to the regulator must be between 5" and 13" of water column.

For LP gas, the pressure supplied to the regulator must be between 10" and 13" of water column. When checking for correct operation of the regulator, the inlet pressure must be at least 1" more than the operating (manifold) pressure as given above.

The pressure regulator located at the inlet of the range must remain in the supply line regardless of which type of gas is being used.

A flexible metal appliance connector used to connect the range to the gas supply line should have an I.D. of $5/_8$ " and a maximum length of 5 feet.

Connecting the Range to Gas

Shut off the range gas supply valve before removing the old range and leave it off until the new hook-up has been completed.

Because hard piping restricts movement of the range, the use of a CSA International-certified flexible metal appliance connector should be used unless local codes require a hard-piped connection.

A manual valve shall be installed in an accessible location in the gas piping external to the appliance for the purpose of turning on or shutting off gas to the appliance.

Never reuse an old connector when installing a new range.

To protect against gas leaks, use a qualified pipe joint sealant on all external threads.

- 1 Install a male 1/2" or 3/4" flare union adapter to the NPT internal thread of the manual shut-off valve, taking care to back-up the shut-off valve to keep it from turning.
- 2 Install a male 1/2" flare union adapter to the 1/2" NPT internal thread at the inlet of the pressure regulator. Use a backup wrench on the pressure regulator fitting to prevent damage.
- 3 Connect a flexible metal appliance connector to the adapter on the range. Position the range to permit connection at the shut-off valve.
- 4 When all connections have been made, be sure all range controls are in the OFF position before turning on the main gas supply valve. Gas leaks may occur in your system and create a hazard. Gas leaks may not be detected by smell alone.

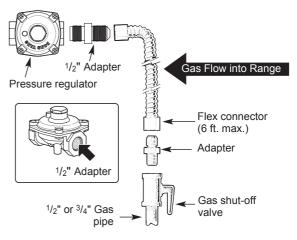
Check all gas connection joints and fittings for leaks with a non-corrosive leak detection fluid, then wipe off.

Gas suppliers recommend you purchase and install a UL approved gas detector. Install and use in accordance with the installation instructions.

🛦 WARNING

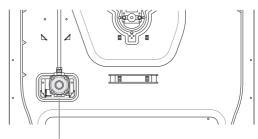
- Do not use a flame to check for gas leaks.
- Isolate the range from the gas supply system by closing its individual shut-off valve during any pressure testing of the gas supply system at test pressures equal to or less than 1/2" psig (3.5 kPa).

Flexible Connector Hookup



Installer: Inform the consumer of the location of the gas shut-off valve.

Pressure Regulator Position



Pressure Regulator

Connecting Electricity

Electrical Requirements

This appliance must be installed and grounded on a branch circuit by a qualified technician in accordance with the National Electrical code ANSI/NFPA NO. 70 - latest edition.

All wiring should conform to Local and NEC codes. This range requires a single-phase, 3 wire, A.C 120/208 V or 120/240 V 60 Hz electrical system. Use only a 3-conductor or a 4-conductor UL-listed range cord with closed-loop terminals, open-end spade lugs with upturned ends or similar termination. Do not install the power cord without a strain relief.

A range cord rated at 40 amps with 120/240 minimum volt range is required. If a 50 amp range cord is used, it should be marked for use with 1³/₈" diameter connection openings. This appliance may be connected by means of a conduit or power cord. If a conduit is being used, go to page 21 for **3 wire conduit connections** or **4 wire conduit connections**.

- Allow 2 to 3 ft (61.0 cm to 91.4 cm) of slack in the line so that the range can be moved if servicing is ever necessary.
- The power supply cord and plug should not be modified. If it will not fit the outlet, have a proper outlet Installed by a qualified electrician.
- Using an extension cord to connect the power is prohibited. Connect the power cord and plug directly.
- Electrical ground is required on this appliance.
- Make sure that the power cord is not pinched by the range or heavy objects. Failure to do so can result in serious burns or electrical shock.

Specified power-supply-cord kit rating					
Range rating, watts		Specified rating of power	Diameter (inches) of Range connection Opening		
120/240 volts 3-wire	120/208 volts 3-wire	supply- cord kit, amperes	Power cord	Conduit	
8,750 - 16,500	7,801 - 12,500	40 or 50A	1 ³ /8"	1 ¹ /8"	
16,501 - 22,500	12,501 - 18,500	50	1 ³ /4"	1 ³ /8"	

3, 4 - Wire electrical wall Receptacle

4 Wire receptacle (14-50R)

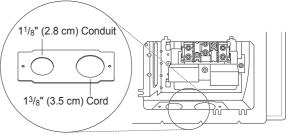
3 Wire receptacle (10-50R)

Connecting the Power Cord

The rear access cover must be removed. Loosen the two screws with a screwdriver. The terminal block will then be accessible.

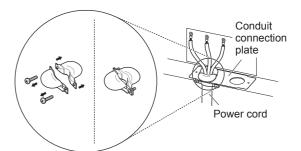


Use the cord/conduit connection plate to install the power cord or conduit. Leave the connection plate as installed for power cord installations. Remove the connection plate for conduit installations and use the smaller $1^{1}/_{8}$ in. (2.8 cm) conduit hole instead of the $1^{3}/_{8}$ in. (3.5 cm) power cord hole.



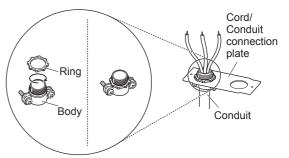
Remove the conduit connection plate

For power cord installations, hook the strain relief over the $1_{3/8}$ in. (3.5 cm) power cord hole located below the rear of the oven. Insert the power cord through the strain relief and tighten it.



Assembling power cord strain relief at the 13/8" opening

For conduit installations, insert the conduit strain relief in the $1^{1}/_{8}$ in. (2.8 cm) conduit hole. Then install the conduit through the body of the strain relief and fasten the strain relief with its ring.



Assembling conduit cord strain relief at the 11/8" opening

3-Wire Connection : Power Cord

• The middle (neutral or ground) wire, which is white, of a 3-wire power cord or a 3-wire conduit has to be connected to the middle post of the main terminal block. The remaining two wires of the power cord or conduit have to be connected to the outside posts of the main terminal connection block. Failure to do so can result in electrical shock, severe personal injury or death.

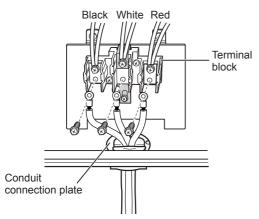
Install the power cord as follows:

For power cord installations, hook the strain relief over the power cord hole $(1^{3}/_{\delta}")$ located below the rear of the oven. Insert the power cord through the strain relief and tighten it.

Do not install the power cord without a strain relief.

- 1 Remove the lower 3 screws from the terminal block and retain them.
- 2 Insert the 3 screws through each power cord terminal ring and into the lower terminals of the terminal block. Make sure that the center (neutral) wire, which is white, is connected to the center lower position of the terminal block.
- 3 Tighten the 3 screws securely into the terminal block. Do not remove the ground strap connections.

3-wire connection



If screws are not tightened securely, it can result in electrical spark and severe personal injury or death.

4-Wire Connection : Power Cord

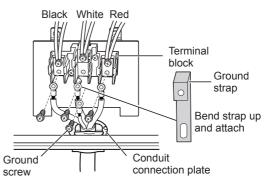
· Only a 4-conductor power-supply cord kit rated 120/240 volts, 50 amperes and marked for use with ranges with closedloop connectors or opened spade lugs with upturned ends shall be used. The white middle (neutral) wire of the power cord or 4-wire conduit has to be connected to the middle post of the main terminal block. The other two wires of the power cord or conduit have to be connected to the outside posts of the main terminal connection block. The 4th ground wire (green) must be connected to the frame of the range with the ground screw. Failure to do so can result in electrical shock, severe personal injury or death.

Install the power cord as follows:

Do not install the power cord without a strain relief.

- 1 Remove the lower 3 screws from the terminal block and retain them.
- 2 Remove the ground screw and bend the end of the ground strap up so the slot is over the hole of the center screw removed in step 1.
- Insert the ground screw into the power cord ground wire (green) terminal ring and secure it to the range frame.
- Insert the 3 screws through each power cord terminal ring and into the lower terminals of the terminal block. Make sure that the white center (neutral) wire is connected to the center lower position of the terminal block.
- 5 Tighten the 3 screws securely into the terminal block. The center screw now attaches the bent up ground strap to the block.

4-wire connection



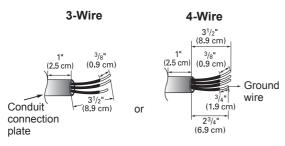
If screws are not tightened securely, it can result in electrical spark and severe personal injury or death.

3-Wire Connection: Conduit

Install the conduit as follows:

Remove the conduit connection plate from the rear of the oven and rotate it. The conduit hole $(1^{1/8}")$ must be used.

First, prepare the conduit wires as shown below.



Second, install the conduit strain relief.

For conduit installations, purchase a strain relief and insert it in the $1^{1}/_{8}$ in. (2.8 cm) conduit hole. Then install the conduit through the body of the strain relief and fasten the strain relief with its ring. Reinstall the bracket.

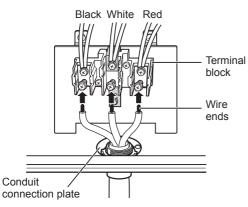
For conduit connections:

If the wire in the conduit is copper it must be 8 or 10 AWG wiring.

If the wire in the conduit is aluminum it must be 6 or 8 AWG wiring.

- 1 Loosen the lower 3 screws from the terminal block.
- 2 Insert the bare wire (white/neutral) end through the center terminal block opening. Do not remove the ground strap connections.
- 3 Insert the two side bare wire ends into the lower left and the lower right terminal block openings. Tighten the 3 screws securely into the terminal block. (approximately 35 - 50 IN-LB)

3-wire connection

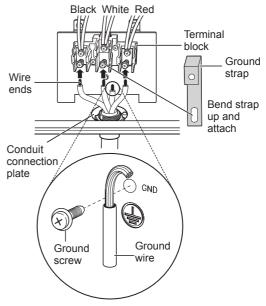


If screws are not tightened securely, it can result in electrical spark and severe personal injury or death.

4-Wire Connection: Conduit

- The white middle (neutral) wire of the power cord or 4-wire conduit has to be connected to the middle post of the main terminal block. The other two wires of the power cord or conduit have to be connected to the outside posts of the main terminal connection block. The 4th ground wire (green) must be connected to the frame of the range with the ground screw. Failure to do so can result in electrical shock, severe personal injury or death.
- 1 Follow the instructions for installing the conduit under 3-Wire Connection: Conduit until the strain relief and bracket are installed. Do not install the conduit without a strain relief.
- 2 Loosen the 2 lower left and right screws from the terminal block. Remove the lower 2 center screws. Do not discard any screws.
- 3 Remove the ground screw and bend the end of the ground strap up so the slot is over the hole of the center screw removed in step 1.
- 4 Attach the ground (green) bare wire end to the range frame and secure it in place with the ground screw.
- 5 Insert the bare wire (white/neutral) end through the center terminal block opening. The center screw now attaches the bent up ground strap to the block.
- 6 Insert the two side bare wire ends into the left and the right terminal block openings. Tighten the 3 screws securely into the terminal block. (approximately 35 - 50 IN-LB)

4-wire connection

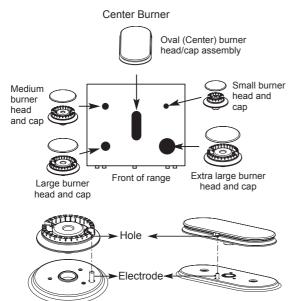


If screws are not tightened securely, it can result in electrical spark and severe personal injury or death.

Assembling the Surface Burners

Do not operate the burners without all parts in place.

Place the burner caps and heads on the cooktop. Make sure that the caps and heads are placed in the correct locations. There is one small, one medium, one large, one oval(center), and one extra large burner head and cap.



Make sure the hole in the burner head is positioned over the electrode.

Checking Ignition of the Surface Burners

Electric Ignition

Select a surface burner knob and simultaneously push in and turn to the **Lite** position. You will hear a clicking sound indicating proper operation of the spark module.

Once the air has been purged from the supply lines the burner should ignite within 4 seconds. After the burner ignites, rotate the knob out of the **Lite** position. Try each burner in succession until all burners have been checked.

Quality of Flames

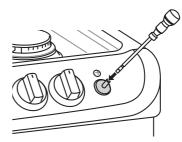
The combustion quality of the burner flames needs to be confirmed visually.

	A Yellow flames - Call for service.
	B Yellow tips on outer cones - This is normal for LP gas.
66666	C Soft blue flames - This is normal for natural gas.

 With LP gas, some yellow tipping on outer cones is normal.

Adjusting the Surface Burner to the Low Flame (Simmer) Setting

- 1 Light all surface burners.
- 2 Turn the knob on the burner being adjusted to Lo.
- 3 Remove the knob.
- Insert a small, flat-blade screwdriver into the valve shaft.



- NOTE

Hold the valve shaft with one hand while turning the screw to adjust with the other.

- 5 Replace the knob.
- 6 Test the flame stability.

Test 1: Turn the knob from **Hi** to **Lo** quickly. If the flame goes out, increase the flame size and test again.

Test 2: With the burner on a **Lo** setting, open and close the oven door quickly. If the flame is extinguished by the air currents created by the door movement, increase the flame height and test again.

7 Repeat steps 1-6 for each surface burner.

Checking Operation of Bake / Broil Burners

To check ignition of the Bake burner, follow the steps below:

- 1 Remove all packing materials from inside the oven cavity.
- 2 Turn oven mode knob to select **Bake**. 350 °F appears in the display.
- 3 Press Start.

It may take between 30 and 90 seconds for the burner to start heating.

To check ignition of the Broil burner, follow the steps below:

- 1 Turn oven mode knob to select **Broil High**. Hi appears in the display.
- 2 Make sure the door is closed.
- 3 Press Start.

It may take between 30 and 90 seconds for the burner to start heating.

NOTE

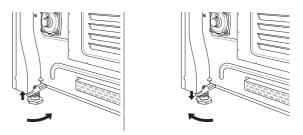
Do not try to light either the Bake or Broil burners during a power outage. The range has an electrical ignition system and cannot be used without power.

Adjusting Air Shutters (for LP Conversions)

The range comes from the factory with the air shutters adjusted for proper air flow for natural gas. If converted to LP, follow the instructions provided in the conversion kit to properly adjust the air shutters. LP conversion must be performed by a qualified technician.

Leveling the Range

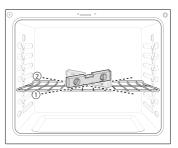
Level the range by adjusting the leveling legs. Extending the legs slightly may also make it easier to insert the rear leg into the anti-tip bracket.



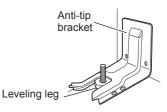
Use a level to check your adjustments. Place the level diagonally on the oven rack, and check each direction for level.

First check direction 1.

Then check direction @. If the level doesn't show level on the rack, adjust the leveling legs.



Engaging the Anti-tip Device



- 1 Slide the range against the wall, making sure the back leg slides into and engages the anti-tip bracket.
- 2 Check for proper installation by grasping the front edge of the cooktop and carefully attempting to tilt the range forward.