

Customer Service

From: Terri (Decor Centre)
Sent: Tuesday, November 3, 2020 5:02 PM
To: Customer Service
Subject: FW: Lot 49 -Appliances
Attachments: lwc3063.pdf; lshd3089bd.pdf; lcg3691st.pdf

Here you go. One more coming- the cooktop is 30"

Terri Parisani
Décor Centre Manager

680 Tradewind Drive, Ancaster, ON



[VALERRYHOMES.COM](https://www.valerryhomes.com)

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HOME APPLIANCES

LG COOKING

LWMC3063_

Combi Wall Oven

1.7 cu.ft. Microwave (Speed Oven)

Infrared Heating™

4.7 cu.ft. Oven

Crisp Convection

Self+EasyClean

SmartThinQ® Technology



Enjoy new ways to control your home with LG smart appliances

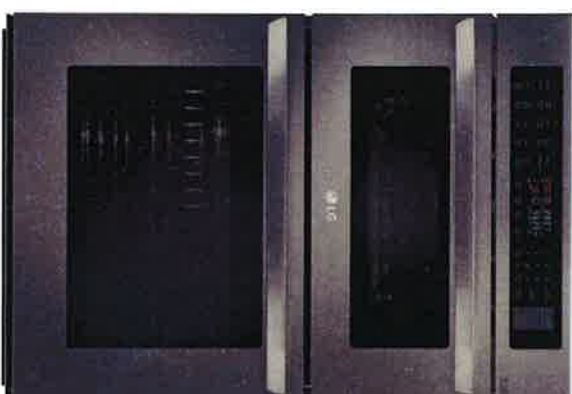
- Start or stop your Oven remotely
- Set your Monitor Status from your smartphone
- Works with the LG SmartThinQ® app

SmartThinQ®



SMART APPLIANCE

KEY FEATURES



SUMMARY

Total Oven Capacity (cu. ft.) 6.4 (Upper & Lower)
Colors Stainless Steel / Black Stainless Steel

UPPER OVEN FEATURES

Capacity (cu.ft.) 1.7

Interior(Cavity) - Upper: MWQ / Lower: Oven

Microwave Power output 950W

Microwave Bake mode power consumption 1650W

Broil mode power consumption 1650W

Convection Element (W) 1500W (Sheath heater)

Broil Upper Element (W) 1200W + 700W (Miradon heater) + 500W (Infrared Heating™)

Broil Lower Element (W) 375W (Miradon heater)

Microwave Yes

Convection Bake Yes

Broil Yes

Speed cook Yes (TurboCook™)

- # of Defrost (4 Menu) Meat / Poultry / Fish / Bread

- # of Sensor cook (9 Menu) Beverage / Casserole / Chicken / Pasta / Pizza /

- # of Auto cook (28 Menu) Plate of food / Rice / Soup / Vegetable

- # of Soften (4 Menu) Bacon (regular sliced) / Bagels (frozen) / Baked potatoes (7-9oz/ea) / Browne / Cod fillets (1 lb.) /

- # of Melt (5 Menu) Corn dog (frozen) / Fresh vegetable / Frozen chicken wings / Frozen fries / Frozen chicken nuggets /

- # of Auto cook (28 Menu) Frozen pizza (regular crust) / Frozen soft pretzels / Frozen vegetable / Garlic bread (sliced, frozen) /

- # of Soften (4 Menu) Hamburger (1/2 lb.) / Lamb chops (1/2 thick, 6-7oz) / Beef (9-57) / Steaks (10-12oz) / Bacon / Pork chops (1/2 thick, 6-7oz) / Osso Buco / Steak (1" thick, 14-15oz) / Rice / Salmon steaks (1" thick) / Sausage / Sirloin steak (1" thick, 18-21 oz) / Tenderloin / Vegetable-canned

- # of Auto cook (28 Menu) Butter & Margarine / Cream Cheese / Ice Cream / Frozen Juice

- # of Soften (4 Menu) Butter / Carame / Cheese / Chocolate / Marshmallow

- # of Soften (4 Menu) Butter & Margarine / Cream Cheese / Ice Cream / Frozen Juice

- # of Soften (4 Menu) Butter / Carame / Cheese / Chocolate / Marshmallow

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- # of Soften (4 Menu) Butter / Carame / Cheese / Chocolate / Marshmallow

LWMC3063

Combi Wall Oven

QUICK INSTALL & CLEARANCES

For full installation directions/clearances please refer to the corresponding User Manual and Installation Guide.

IMPORTANT

DIMENSIONS / CLEARANCES / WEIGHT

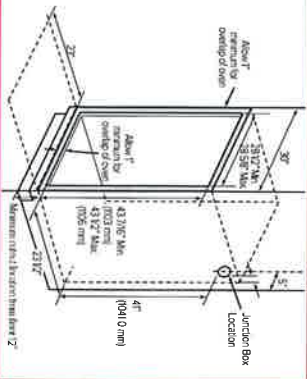
Product Dimensions (in) (W x H x D)	29 3/4" x 43 13/16" x 24 1/2"
Cut-out (W x H x D)	28 1/2" x 43 8/19" x 23 1/2"
Overall Depth (in) - including handle	26 7/8"
Actual Depth with Door Open (Upper) (in):	37 1"
Actual Depth with Door Open (Lower) (in):	45 7"
Oven Interior Dimensions (Upper) (in) (W x H x D)	20 8/11" x 8 9/25" x 17 5/13"
Oven Interior Dimensions (Lower) (in) (W x H x D)	24 1/2" x 17 5/8" x 18 7/8"
Carton Dimensions (in) (W x H x D)	33" x 30" x 50"
POWER RATINGS	
Amp at 240V	32.5A
kW at 240V	7.8kW
Requirements	120 / 240 VAC, 120 / 208 VAC

INSTALLATION REQUIREMENTS

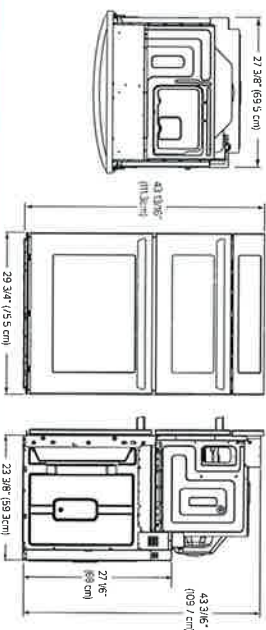
- The cabinet base platform must be able to support 202 lbs (91.65 kg) for a Microwave Combination Wall Oven. If the cabinet does not have a solid bottom, two braces or runners must be installed level with the bottom of the cutout to support the weight of the oven. Make sure the base is level and the front of the cabinet is square. If the cabinet base is not level, the oven racks will tend to slide out when opening the door.
- If marks, blemishes or the cutout opening are visible above the installed oven, it may be necessary to add wood shims under the runners and front trim until the marks or opening are covered.
- If the cabinet does not have a front frame and the sides are less than 3/4" (1.9 cm) thick, shim both sides equally to establish the cutout width.
- The junction box must be flush with the rear wall of the cabinet as shown below.
- Allow at least a 23" clearance for the door depth when it is open.
- Kitchen cabinets in contact with the oven must be heat resistant up to 194°F (90°C), and fronts of nearby units up to at least 158°F (70°C).

CUTOUT DIMENSIONS

- Cabinet Width: 30" (762 mm)
- Recommended Minimum Cutout Location from Floor: 12" (304.8 mm)
- Cutout Depth: 23 1/2" Min. (596.9 mm)
- Cutout Width: 28 5/8" Max. (723.9 mm)
- Cutout Height: 43 7/16" Min. (1103 mm)
43 1/2" Max. (1106 mm)

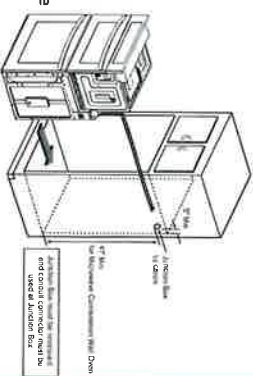


PRODUCT DIMENSIONS



ELECTRICAL CONNECTIONS

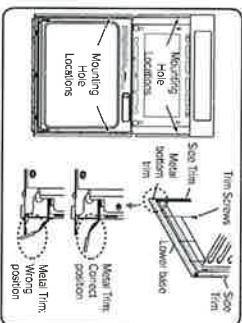
- **Be sure the wall oven is installed and grounded properly by a qualified installer or service technician.**
- This wall oven must be electrically grounded in accordance with local codes or, in their absence, with the National Electrical Code ANSI/NFPA No. 70 - latest edition in United States, or with CSA Standard C22.1 - 1982 and C22.2 No. 01 982 (or latest edition), Canadian Electrical Code, Part 1, and all local codes and ordinances.
- This wall oven must be supplied with the proper voltage and frequency, and connected to an individual, properly grounded branch circuit, protected by a circuit breaker or fuse. For the circuit breaker or fuse required by this model, see the rating plate to find the wattage consumption and refer to the table below to get the circuit breaker or fuse amperage.
- A Microwave Combination Wall Oven can consume up to 7,800 W at 240 VAC. A 50 Amp circuit breaker with wire gauge #8 AWG must be used.
- Do Not ground to a gas pipe.
- Do Not have a fuse in the neutral or grounding circuit.
- A UL-listed conduit connector must be provided at the junction box.
- **Prepare the electrical connection as follows:**
 - Turn off the circuit breaker or remove fuses to the oven branch circuit.
 - With the oven positioned directly in front of the cabinet opening, connect the flexible conduit to the electrical junction box as shown below. Position the conduit in such a manner that it will lie on top of the oven in a natural loop when the oven is installed.
 - If local codes permit connection of the frame grounding conductor to the neutral(white) wire, follow the instructions for a 3-wire circuit connection.
 - If used in mobile homes or new construction, or a recreational vehicle, or local codes do not permit connection of the frame grounding conductor to the neutral(white) wire, follow the instructions for a 4-wire circuit connection.



INSTALL THE OVEN

Install the oven into the cabinet as follows:

- Slide the oven into the opening.
- a. Loop (do not tie) a 36" (91 cm) string around the conduit before the oven is slid into place. Lay the string over the top of the oven and use it to keep the conduit from falling behind the oven.
- b. Lift oven into cabinet cutout using the oven opening as a grip. Carefully push against the oven front frame. Do not push against outside edges.
- c. While sliding the oven back, pull the string so that the conduit lies on the top of the oven in a natural loop.
- d. When you are sure the conduit is out of the way, slide the oven 3/4 way back into the opening. Remove the string by pulling on one end of the loop.
- Secure the oven.
 - a. Using the mounting holes on the oven side trim as a guide, drill pilot holes for screws provided. (For securing the Combi Oven, use a minimum of 4 screws, one on each side in both the upper and lower ovens.)
 - b. Secure the oven to the cabinet with screws provided. If the cabinet is particle board, you must use 3/4" particle board screws. These may be purchased at any hardware store.
 - c. Install the metal bottom trim.
 - d. Place the metal bottom trim centered over the pre-drilled mounting holes on the lower base.
 - e. Using 3 screws provided, secure the bottom trim to the bottom edge of the cabinet.
 - f. Reinstall the oven door.





ENGLISH

ESPAÑOL

INSTALLATION GUIDE

HOOD

Read these instructions thoroughly before installing and operating the hood.

LSHD3689BD LSHD3089BD
LSHD3680ST LSHD3080ST



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BEFORE YOU BEGIN

IMPORTANT:

ENGLISH

- Installer: In the interest of safety and to minimize problems, read these installation instructions completely and carefully before you begin the installation process. Leave these installation instructions with the customer.
- Customer: Keep these installation instructions for future reference and the local electrical inspector's use.

APPLIANCE DATA PLATE

- The appliance data plate contains the model and serial number information and the electrical requirements.
- It is located inside the hood behind the filters on the back side of the chassis. Remove the filters to view it.

All specifications subject to change without notice. LG STUDIO assumes no liability for changes to specifications.

4 IMPORTANT SAFETY INSTRUCTIONS

IMPORTANT SAFETY INSTRUCTIONS

Read and follow all instructions when using the range to prevent the risk of fire, electric shock, personal injury, or damage. This guide does not cover all possible conditions that may occur. Always contact your service agent or manufacturer about problems that you do not understand.

Download this owner's manual at: <http://www.lg.com>



This is the safety alert symbol. This symbol alerts you to potential hazards that can result in property damage and/or serious bodily harm or death.

All safety messages will follow the safety alert symbol and either the word **WARNING** or **CAUTION**. These words mean:



WARNING -Indicates a hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION - Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.



WARNING

- To avoid the possibility of explosion or fire, do not store or use combustible, flammable or explosive vapors and liquids (such as gasoline) inside or in the vicinity of this or any other appliance. Also keep items that could explode, such as aerosol cans away from cooktop burners, ovens and range hoods. Do not store flammable or explosive materials in adjacent cabinets or areas.
- If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or death.
- Do not use an additional speed control device with this unit.
- To avoid motor bearing damage and noisy and/or unbalanced impellers, keep drywall spray, construction dust, etc. off power unit.
- Your ventilator motor has a thermal overload which will automatically shut off the motor if it becomes overheated. The motor will restart when it cools down. If the motor continues to shut off and restart, have the product serviced.
- **TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:**
 - Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer.
 - Before servicing or cleaning unit, switch power off at service panel and lock the electrical panel door to prevent power from being switched on accidentally. When the electrical panel door cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.

WARNING

• TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

- Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.
- Sufficient air is needed for proper combustion and exhausting of gases through the flue(chimney) of fuel burning equipment to prevent back drafting. Follow the heating equipment manufacturer's guidelines and safety standards such as those published by the National Fire Protection Association (NFPA), and the American Society for Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), and the local code authorities.
- When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
- Ducted fans must always be vented to the outdoors.

CAUTION

For general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors.

GENERAL SAFETY PRECAUTIONS

To reduce the risk of fire, electric shock, serious injury or death when using the appliance, follow basic safety precautions, including the following:

WARNING

- Do not install or operate this hood if it has been damaged, dropped, has damaged electrical wires or is not working properly. If the product is damaged when received, immediately contact the dealer or builder.
- This range hood must be installed and grounded by a qualified installer according to these installation instructions.
- Install or locate this appliance only in accordance with these installation instructions and the requirements specified by the manufacturer of the cooktop or range. Improper installation, adjustment, alteration, service or maintenance can cause serious personal injury or property damage.
- The customer should not install, repair or replace any part of the range hood unless specifically recommended in the literature accompanying it. A qualified service technician should perform all other service.
- Keep all packaging materials away from children. Plastic bags can cause suffocation.
- Do not use an extension cord or adapter plug with this appliance.
- The installer must show the customer the location of the fuse box or circuit breaker panel box so that the customer knows where and how to turn the power off.
- Before installing or servicing the range hood, switch power off at the fuse box circuit breaker and lock the electrical panel door to prevent power from being switched on accidentally. When the electrical panel cannot be locked, securely fasten a prominent warning device, such as a tag, to the electrical panel.
- Read the owner's manual completely before using the appliance. Clean the appliance only as instructed in the owner's manual. Use only the cleaners specified.
- Do not tamper with the controls.

6 IMPORTANT SAFETY INSTRUCTIONS

WARNING

- Never allow the filter(s) to become blocked or clogged. Do not allow foreign objects, such as cigarettes or napkins, to be sucked into the hood.
- Clean the filter(s) and all grease-laden surfaces often to prevent grease fires and maintain performance.
- If the cooktop and range hood are near a window, use an appropriate window treatment. Avoid long drapes or other window coverings that could blow over the cooktop and hood, resulting in a fire hazard.
- Always run the fan(s) whenever the cooktop is operating.
- Never leave the range or cooktop unattended when a burner (or element) is in use. Boil-overs and greasy spills may smoke and/or ignite.
- Do not leave children alone or unattended in the area where the cooktop and range hood are in use. Never allow children to sit or stand on an appliance. Do not let children play with a range, cooktop or range hood. Do not store items of interest to children above or around the cooktop, range or range hood.
- The minimum vertical distance between the cooktop surface and the exterior part of the hood must be no less than 26" (66 cm). The vertical distance required may be longer for the range or cooktop being used. Consult the range or cooktop installation instructions for the minimum and maximum vertical distance from the appliance being used.
- TO REDUCE THE RISK OF FIRE, USE ONLY METAL DUCT WORK.

READ AND SAVE THESE INSTRUCTIONS

PRODUCT SPECIFICATIONS

General Specifications

All Models

Fan Speeds	5
Filters	Aluminum mesh filters
Total Connect Load	120 VAC, 60 Hz, 4 Amp.
Lights	120 VAC, 8 W LED light strip

Model Specific

Model Number	LSHD3689BD, LSHD3680ST, LSHD3089BD, LSHD3080ST,
Filters	2

Weight Specifications

Model Number	Weight
LSHD3689BD, LSHD3680ST	37 lb. (17 kg)
LSHD3089BD, LSHD3080ST	35 lb. (16 kg)

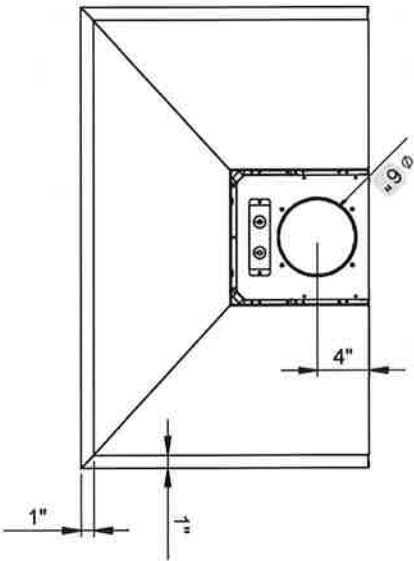
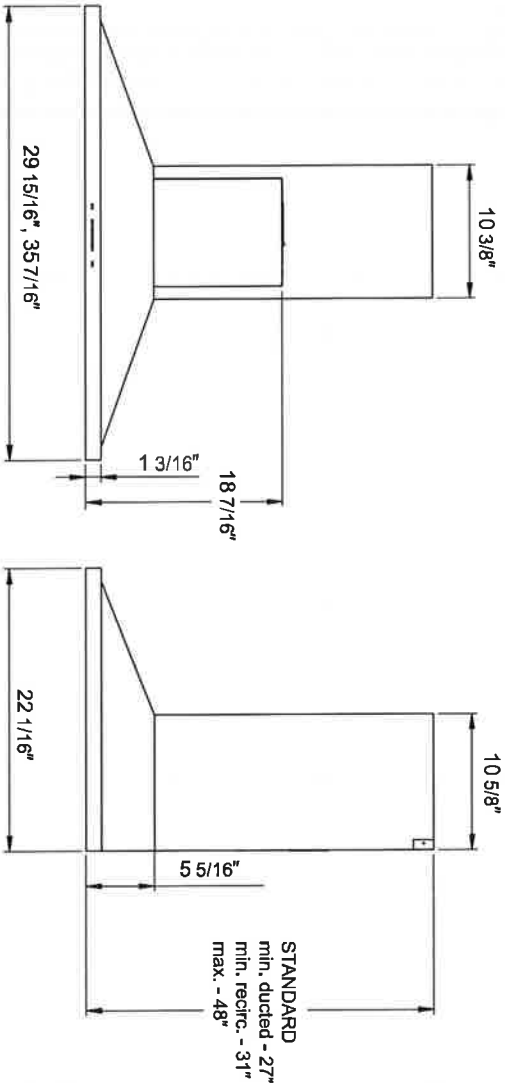
8 PRODUCT SPECIFICATIONS

Dimensions

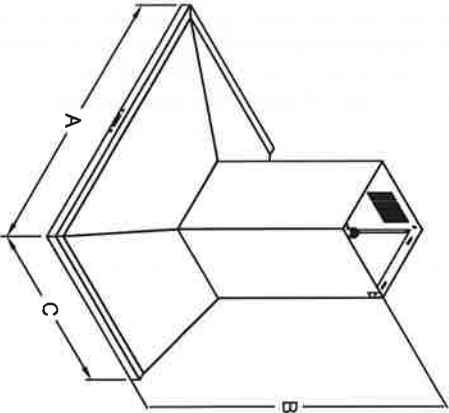
Tolerances: +1/16", -0 (1.6 mm, -0), unless otherwise stated.

NOTE

The exhaust duct(s) and electrical wiring can be connected from either the top or the back of the hood.



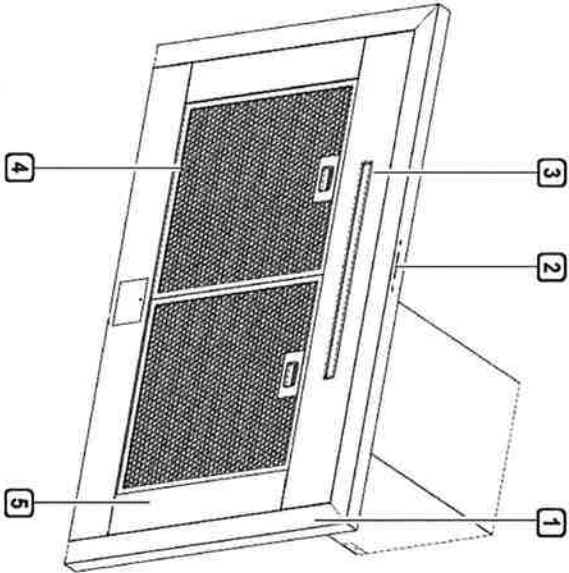
Overall Dimensions



Model	A	B	C
LSHD3689BD, LSHD3680ST	30"	26 15/16"	22 1/16"
LSHD3089BD, LSHD3080ST	36"	26 15/16"	22 1/16"

PRODUCT OVERVIEW

Parts

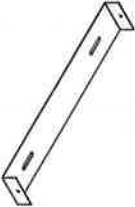
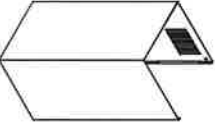







- 1 Hood
- 2 Icon Touch Control Panel
- 3 LED Strip Light

- 4 Mesh Filter
- 5 Side Panel
(Only for LSHD3689BD, LSHD3680ST)

Accessories

Included Accessories

			
Duct cover bracket			
			
M6 x 1-1/2" (2)	M4 x 8 (2)	Wire Caps (3)	M6 x 1" (3)

PLANNING THE INSTALLATION

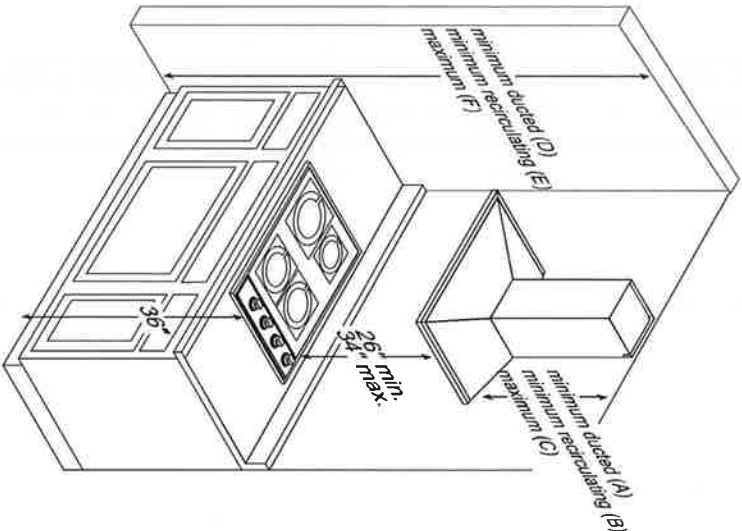
⚠ WARNING

Observe all governing codes and ordinances during planning and installation. Contact your local building department for further information. Use only duct work deemed acceptable by state, municipal and local codes.

Cabinet Layout

⚠ WARNING

To reduce the risk of personal injury caused by reaching over a hot appliance, cabinet storage space located directly above the range should be avoided.



Minimum Cabinet Width

	Standard Duct Cover
Hood Heights	minimum ducted (A) 27"
	minimum recirculating (B) 31"
	maximum (C) 48-1/2"
Ceiling Heights	minimum ducted (D) 89" (7' 5")
	minimum recirculating (E) 93" (7' 9")
	maximum (F) 118" (9' 10")

Ducting

A minimum of 6" round duct must be used to maintain maximum air flow efficiency.

Always use rigid metal ducts only. Flexible ducts could restrict air flow by up to 50%.

Also use calculation (on page 12) to compute total available duct run when using elbows, transitions and caps.

ALWAYS, when possible, reduce the number of transitions and turns. If long duct run is required, increase duct size from 6" to 7" or 8".

If turns or transitions are required, install as far away from hood duct output and as far apart as possible.

Minimum mount height between range top to hood bottom should be no less than 26".

Maximum mount height should be no higher than 34".

It is important to install the hood at the proper mounting height. Mounting the hood too low could result in heat damage and fire hazard. Mounting the hood too high will make it hard to reach and reduce its performance and efficiency.

If available, also refer to the range manufacturer's height clearance requirements and recommended hood mounting height above range.

⚠ CAUTION

DAMAGE DURING SHIPPING / INSTALLATION:

- Please fully inspect unit for damage before installation.
- If the unit is damaged in shipment, return the unit to the store in which it was bought for repair or replacement.
- If the unit is damaged by the customer, repair or replacement is the responsibility of the customer.
- If the unit is damaged by the installer (if other than the customer), repair or replacement must be made by arrangement between customer and installer.

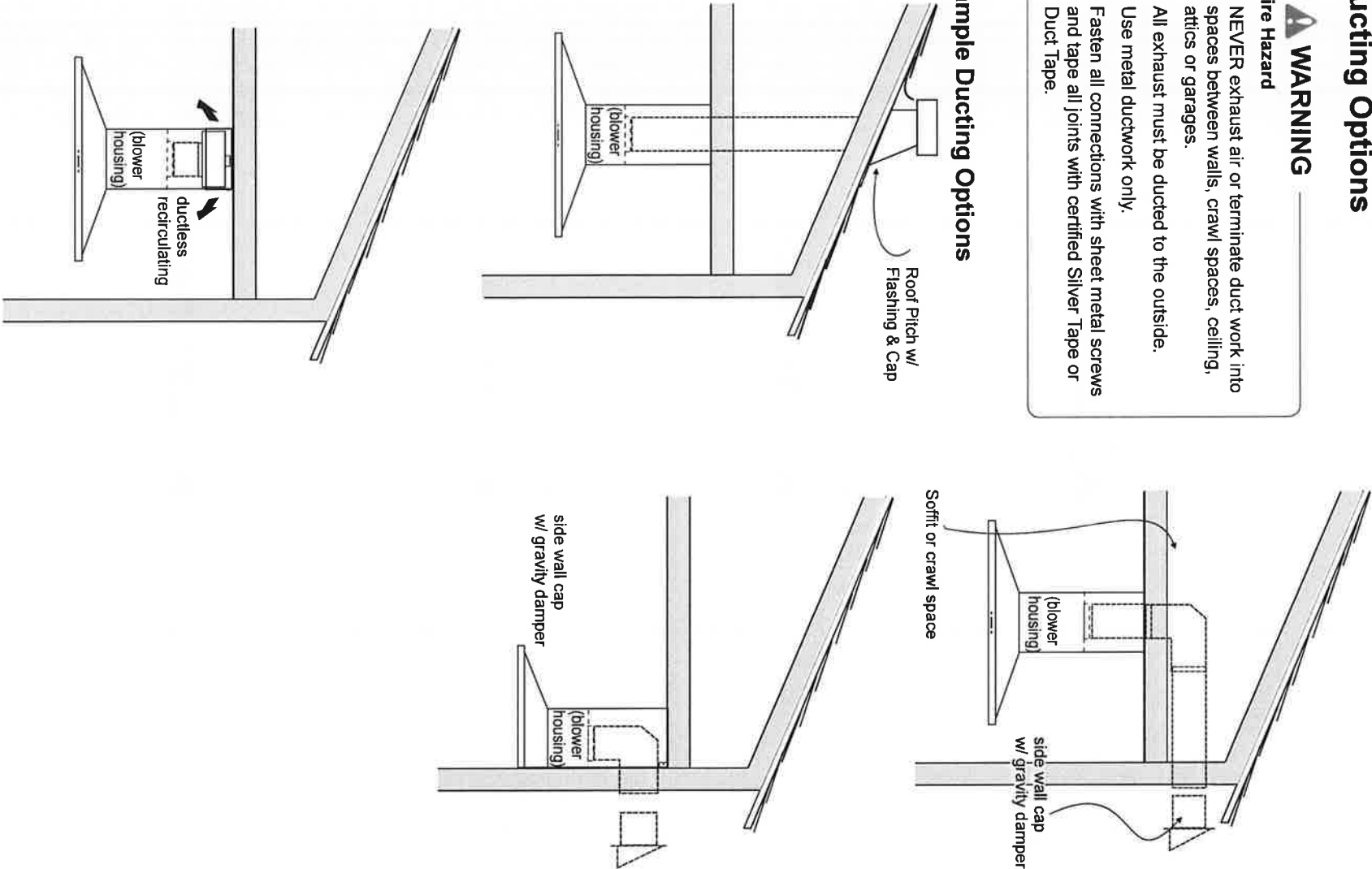
Ducting Options

WARNING

Fire Hazard






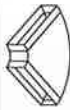




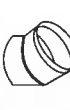
- NEVER exhaust air or terminate duct work into spaces between walls, crawl spaces, ceiling, attics or garages.
- All exhaust must be ducted to the outside.
- Use metal ductwork only.
- Fasten all connections with sheet metal screws and tape all joints with certified Silver Tape or Duct Tape.











Sample Ducting Options



12 PLANNING THE INSTALLATION

Ducting Calculation Sheet

Duct pieces	Equivalent length x number used =	Total
	1 Ft. x () =	Ft.
	1 Ft. x () =	Ft.
	1 Ft. x () =	Ft.
	15 Ft. x () =	Ft.
	9 Ft. x () =	Ft.
	24 Ft. x () =	Ft.
	30 Ft. x () =	Ft.
	5 Ft. x () =	Ft.
	20 Ft. x () =	Ft.
	15 Ft. x () =	Ft.
	9 Ft. x () =	Ft.
Subtotal column 1 =		Ft.

Duct pieces	Equivalent length x number used =	Total
	30 Ft. x () =	Ft.
	30 Ft. x () =	Ft.
	1 Ft. x () =	Ft.
	16 Ft. x () =	Ft.
	15 Ft. x () =	Ft.
	9 Ft. x () =	Ft.
	30 Ft. x () =	Ft.
	30 Ft. x () =	Ft.
	8 Ft. x () =	Ft.
	23 Ft. x () =	Ft.
Subtotal column 2 =		Ft.
Subtotal column 1 =		Ft.
Total ductwork =		Ft.

Maximum Duct Length: For satisfactory air movement, the total duct length should not exceed 100 equivalent feet.

Ductwork Design Tips

Wherever possible, reduce the number of transitions and turns to as few sharp angles as possible. Two staggered 45° angles are better than one 90° . Keep turns as far away from the hood exhaust as possible, and allow as much space between bends as possible.

For best performance, use round ducts instead of rectangular, especially when elbows are required.

If multiple elbows are used, try to keep a minimum of 24" of straight duct between them.

Avoid "S" or "back to back" use of adjacent elbows.

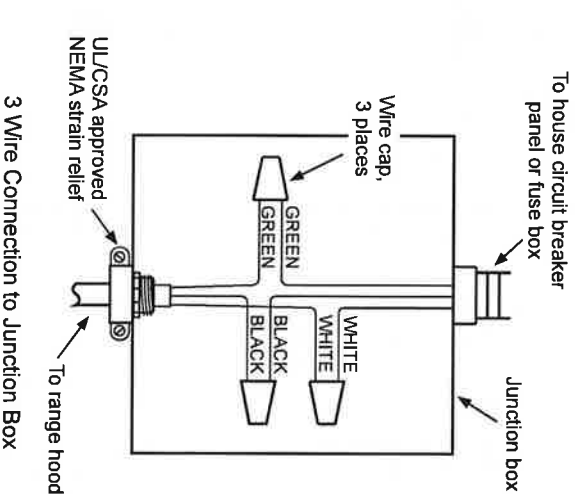
In regions where the weather gets extremely cold, use thermal breaks, such as a short section of non-metallic duct, to avoid indoor heat loss. Locate the break as close as possible to the outside pass-through point.

Do not use flexible metal duct.

Do not use ductwork that is smaller in cross-sectional area than the recommended types above.

Electrical Supply

This appliance requires a 120V 60Hz electrical supply, and must be connected to an individual, properly grounded branch circuit, protected by a 15 or 20 ampere circuit breaker or time delay fuse. Wiring must be 2 wire w/ ground. Please also refer to the Electrical Diagram label on product.



3 Wire Connection to Junction Box

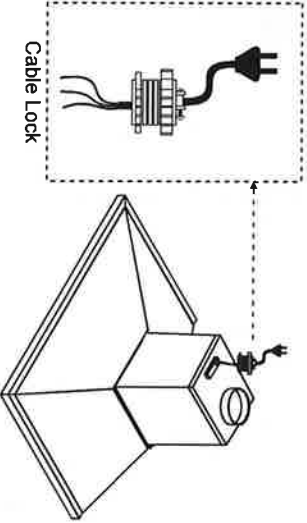
Power Supply

WARNING

- The information in this manual should be followed exactly. Failure to do so could result in fire or electrical shock, causing property damage, personal injury or death.
- All electrical work must by performed by qualified electrician or person with similar technical knowledge and background.
- For personal safety, remove house fuse or open circuit breaker before beginning installation. Do not use extension cord or adapter plug with this appliance.
- Follow national electrical codes or prevailing local codes and ordinances.

Cable Lock

A cable locking connector (not supplied) might also be required by local codes. Check with local requirements and codes, and purchase and install appropriate connector if necessary.



Verify the Package Contents

Unpack the parts box and verify that all parts and accessories have been included. If any item is missing or damaged, please contact the dealer immediately. Do not install a damaged or incomplete appliance.

Make sure you have everything necessary for proper installation before proceeding.

14 INSTALLATION INSTRUCTIONS

INSTALLATION
INSTRUCTIONS

⚠ WARNING

- Do not install the range hood unless the electrical service provided meets the range hood specifications.
- Observe all governing codes and ordinances during installation. Contact your local building department for further information.
- A qualified technician must complete the installation of this built-in appliance. More than one person is required to raise the hood into place. The owner is responsible to make sure the hood is properly installed.

Mounting the Range Hood

Mounting Under a Kitchen Cabinet

⚠ CAUTION

At least two installers are required due to the weight and size of the hood.

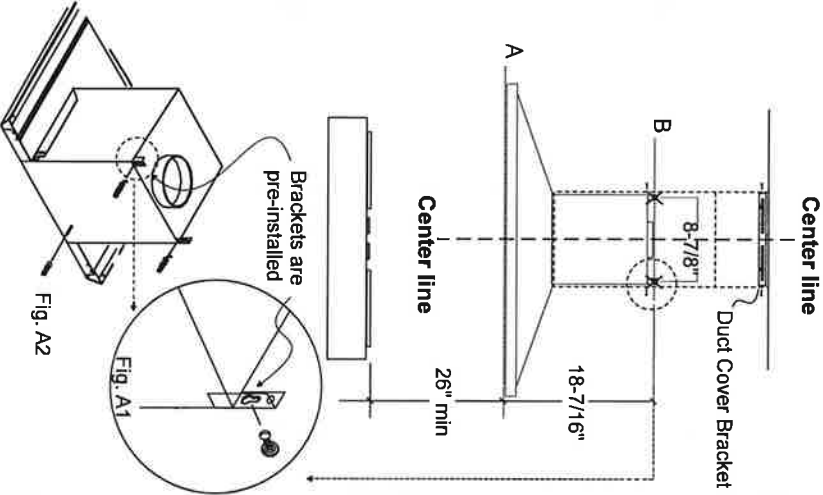
- 1 Measure from range top to desired hood bottom and mark line A. (26" minimum from range top).
- 2 Plumb and mark center line.
- 3 Mark hood height line B. (18-7/16" from line A)
- 4 Mark mounting spread from center line. (8-7/8" on line B)
- 5 Fasten (2) M4 x 1-1/2" screws into studs on line B but do not tighten all the way.

NOTE

Wood blocking may need to be added behind the drywall if no studs are present. Wall anchors may also be used but check local codes for compliance. Failure to use suitable wall anchors and screws to hold the weight of the hood could result in personal injury or damage to cooking surface or counter.

- 6 Remove the (2) aluminum mesh filters.
- 7 Hang hood onto the mounting screws and hand tighten each screw. (Fig A1) Secure a third M4 x 1-1/2" screw through inside of hood into wall for extra support (Fig A2)

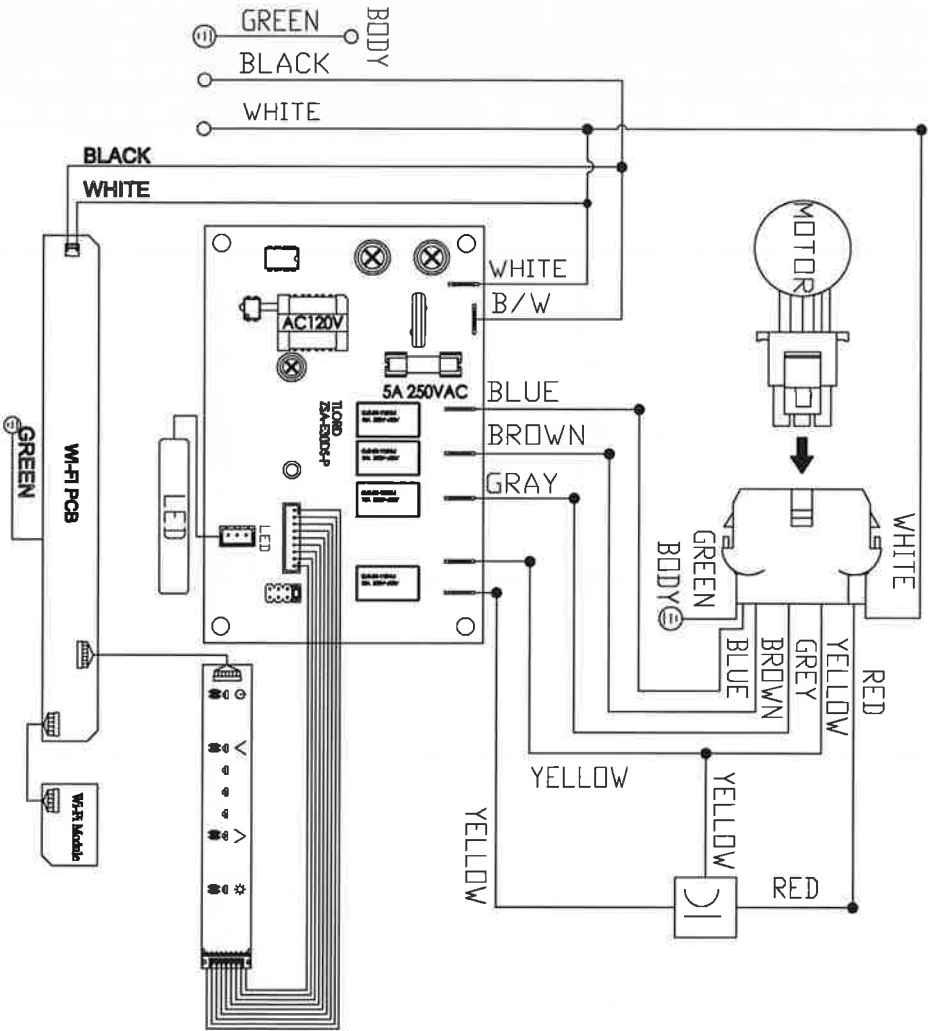
- 8 Center and attach duct cover mounting bracket to wall just below the ceiling or soffit using (2) M4 x 1" screws.
 - 9 Install electrical and duct work. Seal duct work with aluminum duct tape
 - 10 Power up hood and check for leaks around duct tape.
 - 11 Place telescopic duct covers onto hood and extend inner (top) duct cover upwards and secure to duct cover bracket using (2) M4 x 8 screws. Reinstall mesh filters.
- If using hood in recirculating mode you must secure the air diverter plate onto wall before installing duct work and duct covers. You will also need to install charcoal filters and brackets.



WIRING DIAGRAM 15

WIRING DIAGRAM

Models	Volts	HZ	MAX Amps
LSHD3089BD LSHD3080ST LSHD3689BD LSHD3680ST	120	60	4



REMARKS:CONDENSER 12.5+12.5uF 250VAC FIT AC120V 60Hz



ENGLISH
ESPAÑOL
FRANÇAIS

INSTALLATION MANUAL GAS COOKTOP

Please read this guide thoroughly before installation.

LCG3691ST
LCG3091ST
LCG3011ST
LCG3611ST



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INSTALLATION INSTRUCTIONS

INSTALLATION SAFETY INSTRUCTIONS

BEFORE YOU BEGIN

Read these instructions completely and carefully.

Installation of this cooktop must conform with local codes, or in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1/NFPA.54, latest edition. In Canada, installation must conform with the current Natural Gas Installation Code, CAN/CGAB149.1 or the current Propane Installation Code, CAN/CGA-B149.2, and with local codes where applicable. This cooktop has been design-certified by CSA International according to ANSI Z21.1, latest edition and Canadian Gas Association according to CAN/CGA-1.1 latest edition.

As with any appliance using gas and generating heat, there are certain safety precautions you should follow. You will find these precautions in the Important Safety Information section in your User's Guide. Read them carefully.

- **IMPORTANT** – Save these instructions for local electrical inspector's use.
- **IMPORTANT** – Observe all governing codes and ordinances.

Note to Installer : Leave these instructions with the appliance after installation is completed.

Note to Consumer : Keep the User's Guide and Installation Instructions for future reference.

NOTE : This appliance must be properly grounded.

- The electrical diagram is in an envelope attached to the back of the cooktop.
- Skill level – Installation of this appliance requires basic mechanical skills.
- Proper installation is the responsibility of the installer.
- Product failure due to improper installation is not covered under the Warranty.
- Remove all tape and packaging.
- Make sure the burners are properly seated and level.
- Take the accessory pack off of the cooktop.
- Check to be sure that no cooktop parts have come loose during shipping.

INSTALLATION INSTRUCTIONS

READ ALL INSTRUCTIONS BEFORE INSTALLATION

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 shall be the T-handle type.
- A flexible gas connector, when used, must not exceed 3 feet in length.

FOR YOUR SAFETY

⚠ WARNING : If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or death.

-Do not store or use combustible materials, gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

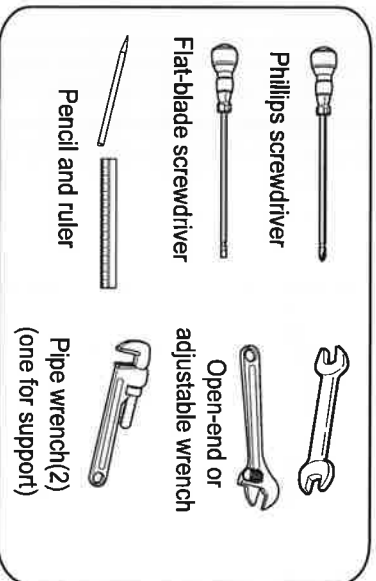
WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.
- Do not touch any electrical switches,
- Do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier instructions.
- If you cannot contact your gas supplier, call the fire department.

Installation and service must be performed by a qualified installer, service agency or the gas supplier.

PREPARING FOR INSTALLATION

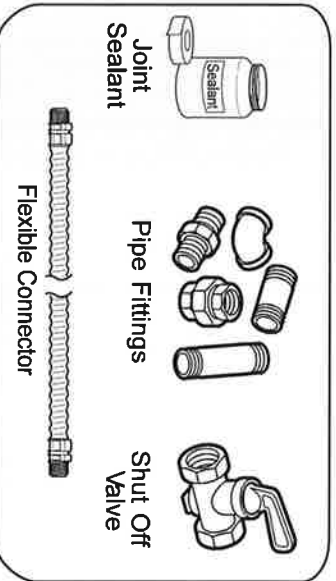
TOOLS YOU WILL NEED



MATERIALS YOU MAY NEED

- Gas line shut-off valve
- To reduce the possibility of gas leaks, apply teflon tape or a thread compound approved for use with LP or Natural gases to all threaded connections.
- Flexible metal appliance connector (5/8" I.D.) A 3-foot length is recommended for ease of installation but other lengths are acceptable. Never use an old connector when installing a new cooktop.
- Flare union adapter for connection to gas supply line (3/4" or 1/2" NPT x 5/8" I.D.)
- Flare union adapter for connection to pressure regulator on cooktop. (1/4" NPT x 1/2" I.D.)
- Liquid leak detector or soapy water.

MATERIALS YOU MAY NEED



INSTALLATION INSTRUCTIONS

INSTALLATION SAFETY INSTRUCTIONS

BEFORE YOU BEGIN

Remove all tape and packing materials before using the cooktop. Dispose all plastic bags after unpacking the cooktop. Never allow children to play with packing materials.

IMPORTANT SAFETY INSTRUCTIONS

Read these instructions completely and carefully. Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage.

For assistance or additional information, consult a qualified installer, service agency, manufacturer (dealer) or your gas supplier.

Never reuse old flexible connectors. The use of old flexible connectors can cause gas leaks and personal injury. Always use NEW flexible connectors when installing a gas appliance.



This is the safety alert symbol. This symbol alerts you to potential hazards that can kill or hurt you and others. All safety messages will follow the safety alert symbol and either the word "WARNING" or "CAUTION".

⚠ WARNING

This symbol will alert you to hazards or unsafe practices which could cause serious bodily harm or death.

⚠ CAUTION

This symbol will alert you to hazards or unsafe practices which could cause bodily injury or property damage.

IMPORTANT: Remove all packing material and literature before connecting gas and electrical supply.

- Have your cooktop installed by a qualified installer.
 - Your cooktop must be electrically grounded in accordance with local codes or, in the absence of local codes, in accordance with the National Electrical Code (ANSI/NFPA 70, latest edition). In Canada, electrical grounding must be in accordance with the current CSA C22.1 Canadian Electrical Code Part 1 and/or local codes.
 - Be sure the wall coverings around the cooktop can withstand heat generated by the cooktop up to 200 °F.
 - Avoid placing cabinets above the cooktop. To minimize the hazard caused by reaching over the open flames of operating burners, install a ventilation hood over the cooktop that projects forward at least 5" beyond the front of the cabinets.
- Refer to 3. Electrical Connections, in this manual.

INSTALLATION INSTRUCTIONS

ENGLISH

INSTALLATION SAFETY INSTRUCTIONS (continued)

- The ventilating hood must be constructed of sheet metal not less than 0.0122" thick. Install above the cooktop with a clearance of not less than 1/4" between the hood and the underside of the combustible material or metal cabinet. The hood must be at least as wide as the appliance and centered over the appliance. Clearance between the cooking surface and the ventilation hood surface **MUST NEVER BE LESS THAN 24 INCHES.**
- The vertical distance from the plane of the cooking surface to the bottom of adjacent overhead cabinets extending closer than 1" to the plane of the cooktop sides must not be less than 18". (See the Dimensions and Clearances illustration in this manual.)
- Do not obstruct the combustion or ventilation air.
- Leak testing of the appliance shall be conducted according to the manufacturer's instructions.

EXCEPTION: Installation of a listed microwave oven or cooking appliance over the cooktop shall conform to the installation instructions packed with that appliance.

- If cabinets are located above the cooktop, allow a minimum clearance of 30" between the cooking surface and the bottom of unprotected cabinets.
- If a 30" clearance between cooking surface and overhead combustible material or metal cabinets cannot be maintained, protect the underside of the cabinets above the cooktop with not less than 1/4" insulating millboard covered with sheet metal not less than 0.0122" thick. Clearance between the cooking surface and protected cabinets **MUST NEVER BE LESS THAN 24 INCHES.**

⚠ CAUTION: Items of interest to children should not be placed in cabinets above the cooktop.
- children climbing on the cooktop to reach items could be seriously injured.

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

INSTALLATION INSTRUCTIONS

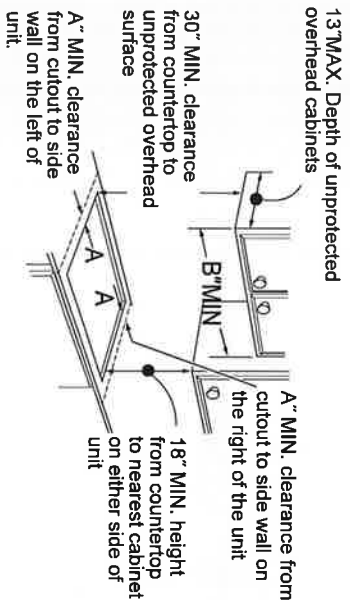
DIMENSIONS AND CLEARANCES

Provide enough clearances between the cooktop and adjacent combustible surfaces. These dimensions must be met for safe use of your cooktop.

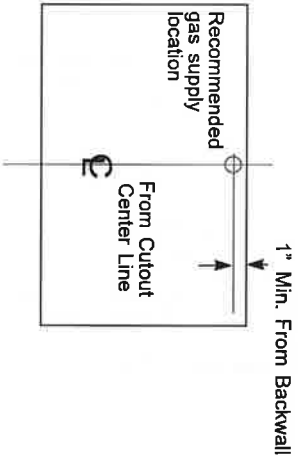
The location of the electrical outlet and pipe opening may be adjusted to meet specific requirements.

The cooktop may be placed with 2 3/4" clearance to the back wall.

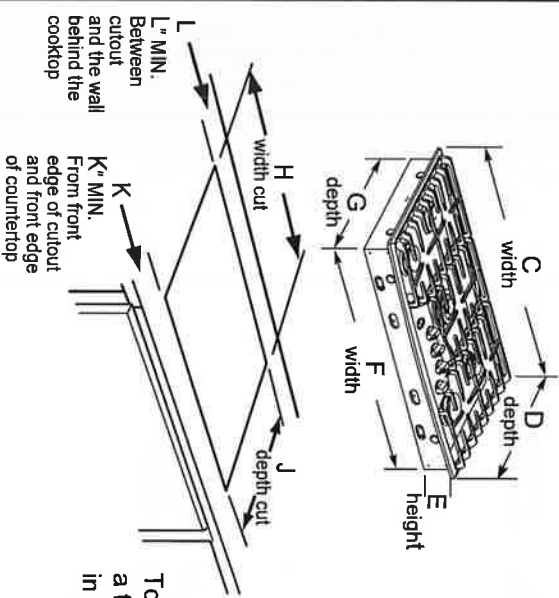
1. MAINTAIN THE FOLLOWING MINIMUM CLEARANCE DIMENSIONS



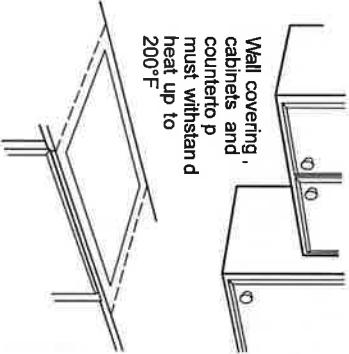
3. RECOMMENDED GAS SUPPLY LOCATION FROM BACKWALL



2. COOKTOP AND CUTOUT DIMENSIONS



4. MAKE SURE WALL COVERINGS, COUNTERTOP AND CABINETS AROUND COOKTOP CAN WITHSTAND HEAT(UP TO 200°F) GENERATED BY COOKTOP



To ensure accuracy, it is best to make a template when cutting the opening in the counter

MODEL	A	B	C	D	E	F	G	H	J	K	L
30" Cooktop	11 13/16"	30"	30"	21 1/16"	3 3/4"	28 1/4"	19 3/8"	28 1/2"	19 1/4"	1 5/8"	2 3/4"
36" Cooktop	11 13/16"	36"	36"	21 1/16"	3 3/4"	33 5/8"	19 3/8"	33 15/16"	19 1/4"	1 5/8"	2 3/4"

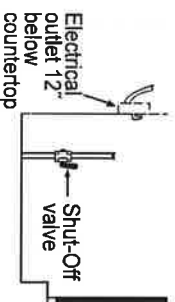
INSTALLATION INSTRUCTIONS

INSTALLING THE COOKTOP UNIT

ENGLISH

1. LOCATE ELECTRICAL OUTLET AND GAS SHUT-OFF VALVE BENEATH CABINET

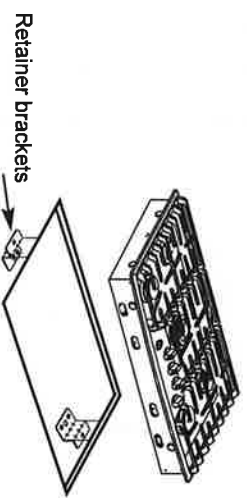
NEVERRE-USE OLD FLEX CONNECTORS.



Install a manual shut-off valve in the gas line in an easily accessible location outside the cooktop. Be sure you know how and where to shut off the gas supply to the cooktop. Install the electrical outlet 12" below the countertop.

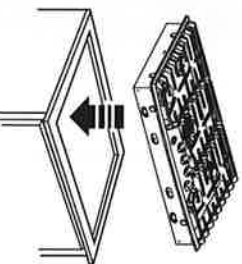
4 INSTALL THE RETAINER BRACKETS

Install the retainer brackets to the bottom of the cooktop unit, then snug the bolts against the bottom of the countertop as shown

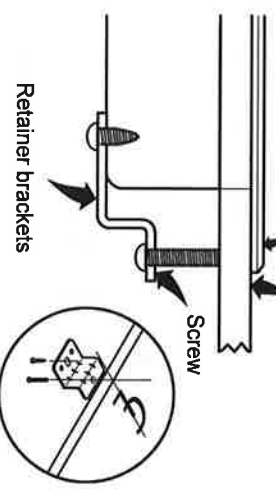


2. INSERT COOKTOP INTO CUTOUT

Insert the cooktop centered into the cutout opening. Be sure the front edge of the countertop is parallel to the cooktop. Make final check that all required clearances are met.



Cooktop Countertop

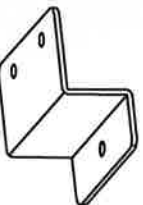


Retainer brackets

Screw

3. LOCATE RETAINER BRACKETS

Remove the retainer brackets from the literature package.



NOTE: The retainer brackets **MUST** be installed to meet local codes or, in their absence, with the National Electrical Code ANSI/NFPA No. 70, latest edition.

INSTALLATION INSTRUCTIONS

1. PROVIDE ADEQUATE GAS SUPPLY

This cooktop is designed to operate at a pressure of 5" of water column on natural gas or 10" of water column on LP, propane or butane gas.

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

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

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

For LP gas, the pressure supplied 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 cooktop manifold must remain in the supply line regardless of whether natural or LP gas is being used.

A flexible metal appliance connector used to connect the cooktop to the gas supply line must have an I.D. of 5/8" and can be 3 feet max. in length for easy installation. In Canada, flexible connectors should be single wall metal connectors less than 6 feet in length.

2. CONNECT THE COOKTOP TO GAS

Shut off the main gas supply valve before removing the old cooktop and leave it off until the new hook-up has been completed. Don't forget to relight the pilot on other gas appliances when you turn the gas back on.

Because hard piping restricts movement of the cooktop, the use of a CSA International-certified flexible metal appliance connector is recommended unless local codes require a hard-piped connection.

Never reuse an old connector when installing a new cooktop. If the hard piping method is used, you must carefully align the pipe; the cooktop cannot be moved after the connection is made.

To prevent gas leaks, put pipe joint compound on, all male -external- pipe threads.

1 Install a manual gas line shut-off valve in the gas line in an easily accessed location outside of the cooktop. Be sure everyone operating the cooktop knows where and how to shut off the gas supply to the cooktop.

2 Install male 1/2" flare union adapter to the 1/2" NPT internal thread at inlet of pressure regulator. Use a backup wrench on the pressure regulator fitting to prevent damage.

3 Install 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.

4 Connect a flexible metal connector to the adapter on the cooktop. Position the cooktop to permit connection at the shut-off valve.

5 When all connections have been made, be sure all cooktop controls are in the off position and turn on the main gas supply valve. Check for gas leaks by using manometer. If a manometer is not available, turn the gas supply on to the cooktop on and use a liquid leak detector at all joints and connections to check for leaks. Tighten all connections, if necessary, to prevent gas leakage in the cooktop or supply line.

⚠ WARNING!

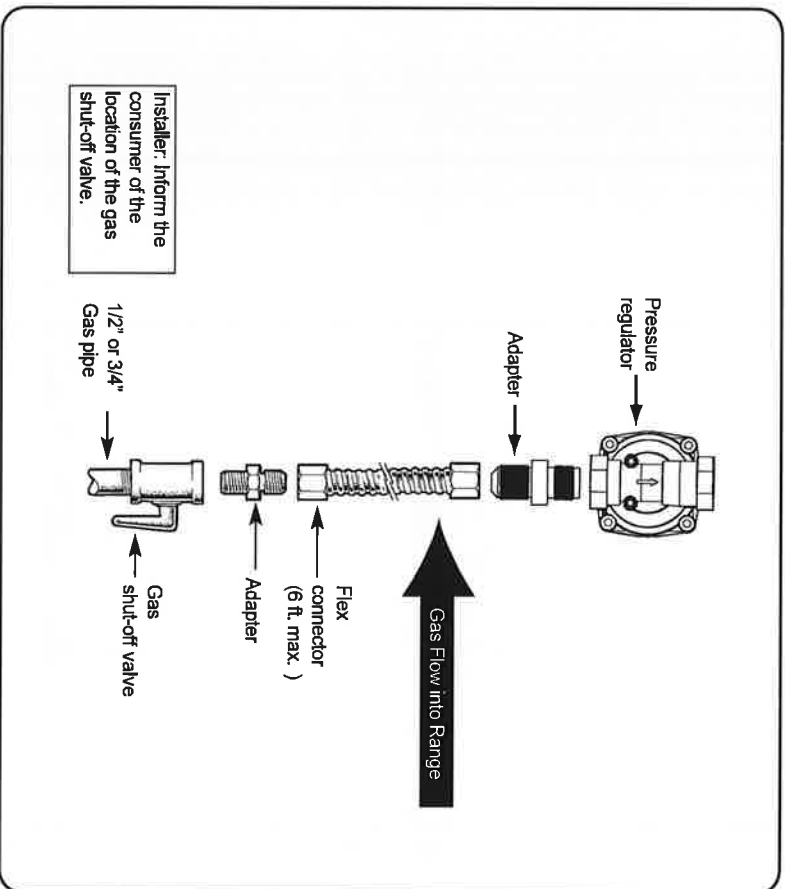
DO NOT USE A FLAME TO CHECK FOR GAS LEAKS.

Disconnect the cooktop and its individual shut-off valve from the gas supply piping system during any pressure testing of that system at test pressures more than 1/2 psig(3.5kPa). Isolate the cooktop from the gas supply piping 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(3.5kPa)

INSTALLATION INSTRUCTIONS

ENGLISH

FLEXIBLE CONNECTOR HOOKUP



INSTALLATION INSTRUCTIONS

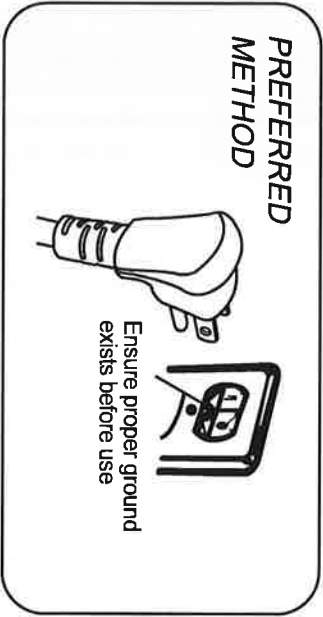
3. ELECTRICAL CONNECTIONS

ELECTRICAL REQUIREMENTS

120 Volt, 60 Hertz, properly grounded dedicated circuit protected by a 15 A or 20 A circuit breaker or time delay fuse.

GROUNDING

IMPORTANT: FOR PERSONAL SAFETY, THIS APPLIANCE MUST BE PROPERLY GROUNDED.



The power cord of this appliance should be equipped with a three-prong (grounding) plug which mates with a standard three-prong grounding wall receptacle to reduce the possibility of electric shock hazard from this appliance.

The customer should have the wall receptacle and circuit checked by a qualified technician to be sure the receptacle is properly grounded.

When connecting the cord of this cooktop to a standard two-prong wall receptacle, it is the personal responsibility and obligation of the customer to have it replaced with a properly grounded three-prong wall receptacle.

DO NOT, UNDER ANY CIRCUMSTANCES, CUT OR REMOVE THE THIRD (GROUND) PRONG FROM THE POWER CORD.

A word about Ground Fault Circuit Interrupters -- Ground Fault Circuit Interrupters are not required or recommended for gas range receptacles.

Ground Fault Circuit Interrupters are devices that sense leakage of current in a circuit and automatically switch off power when a threshold leakage level is detected.

These devices must be manually reset by the customer.

The National Electrical Code requires the use of Ground Fault Circuit Interrupters in kitchen receptacles installed to serve countertop surfaces. Performance of the cooktop will not be affected if it is operated from a Ground Fault Circuit Interrupters protected circuit but occasional nuisance can occur.

INSTALLATION INSTRUCTIONS

ENGLISH

3. ELECTRICAL CONNECTIONS (continued)

CAUTION

The customer should have the circuit checked by a qualified technician to make sure the receptacle is correctly grounded.

DO NOT use an adapter plug because disconnecting of the power cord places undue strain on the adapter and causes eventual failure of the adapter ground terminal.

The customer must have the two-prong wall receptacle replaced with a three-prong (grounding) receptacle by a qualified technician before using this cooktop.

The installation of appliances designed for mobile home installation should conform with the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280 (formerly the Federal Standard for Mobile Home Construction and Safety, Title 24, HUD, Part 280) or, when such standard is not applicable, the Standard for Manufactured Home Installations, latest edition (Manufactured Home Sites, Communities and Set-Ups), ANSI A225.1, latest edition, or with local codes. In Canada, mobile home installation must comply with the current CAN/CSA Z240/MH Mobile Home Installation Code.

4. SEAL THE OPENINGS

Seal any openings in the wall behind the cooktop and in the floor of the cabinet when hookups are completed.

INSTALLATION INSTRUCTIONS

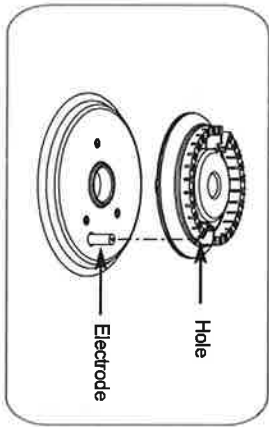
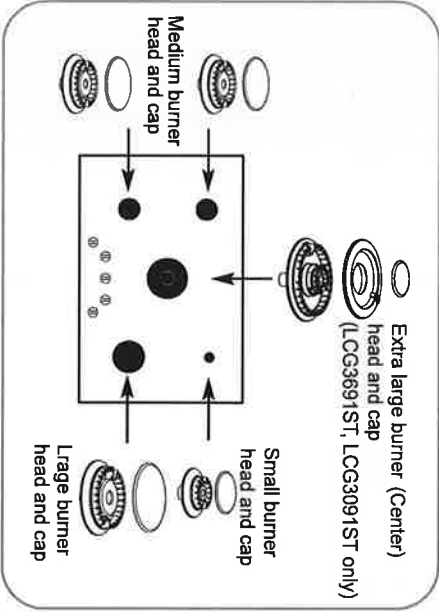
5. ASSEMBLE THE SURFACE BURNERS

⚠ CAUTION

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.



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

6. CHECK IGNITION OF SURFACE BURNERS

Operation of all cooktop burners should be checked after the COOKTOP and gas supply lines have been carefully checked for leaks.

ELECTRIC IGNITION

Select a top burner knob, push down and then turn counterclockwise to the "LTE" position. You can hear a clicking sound indicating proper operation of the spark module.

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

QUALITY OF FLAMES

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



A Yellow flames — Call for service



B Yellow tips on outer cones — It is normal for LP gas



C Soft blue flames — It is normal for natural gas

If burner flames look like A, call for service. B or C is normal burner flames, depending on the type of gas you use.

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

INSTALLATION INSTRUCTIONS

ENGLISH

7. ADJUST THE SURFACE BURNER LOW FLAME (SIMMER) SETTING

For all surface burners except for the center burner

1. Light all surface burners except for the center burner.
2. Turn the knob on the burner being adjusted to LO (LOW).
3. Remove knob.
4. Insert a small, flat bladed screwdriver into the valve stem as shown in Fig.2.
5. Turn the adjustment screw until the flame reaches the desired size.
6. Replace the knob.



Center adjustment screw
Fig. 2

7. Test The Flame Stability.

Test 1 :

- Turn the knob from HI to LOW quickly.
- If the flame goes out, increase the flame size and test again.

Test 2 :

- With the burner on a LOW setting, open and close the oven or cabinet door quickly.
 - If the flame is extinguished by the air currents created by the door movement, increase the flame height and test again.
8. Repeat steps 1 - 6 for each surface burner except for the center burner.

Only For the center burner (LCG3091ST, LCG3691ST only)

1. Disconnect power to appliance.
2. Remove grates, burners caps, burner heads and knobs.
3. Remove all the screws on the cooktop with a philips screwdriver.
4. Remove the cooktop by lifting it up.
5. Remove LED lamp module of the center valve by unclipping. In this case, the ignition switch should be positioned properly.
6. Replace the cooktop and secure the screws of the cooktop.

7. Position center burner head, center burner cap, center grate, and center knob.

8. Connect power to the appliance.
9. Light center burner.
10. Turn the knob on the burner being adjusted to LO (LOW).
11. Remove knob.
12. Using a small, flat bladed screwdriver insert into the hole next to the valve stem to adjust the outer flame as shown in Fig.3.
13. Turn the adjustment screw until the flame reaches the desired size.
14. Replace the knob.



Adjustment screw next to the valve shaft
Fig. 3

15. Test The Flame Stability.

Test 1 :

- Turn the knob from HI to LOW quickly.
- If the flame goes out, increase the flame size and test again.

Test 2 :

- With the burner on a LOW setting, open and close the oven or cabinet door quickly.
 - If the flame is extinguished by the air currents created by the door movement, increase the flame height and test again.
16. After setting the low flame, turn off the burner.
17. Disconnect power to the appliance.
18. Remove knob, grate, burner cap, and burner head.
19. Remove all screws from the cooktop.
20. Remove the cooktop by lifting up.
21. Replace the center LED lamp module.
22. Replace the cooktop and secure all screws.
23. Replace burner heads, burner caps, grates and knobs.
24. Connect power to appliance.

INSTALLATION INSTRUCTIONS

WHEN ALL HOOKUPS ARE COMPLETE

Make sure all controls are left in the off position.
Make sure the flow of combustion and ventilation
air to the cooktop is unobstructed.

CONVERTING TO LP GAS (OR CONVERTING BACK TO NATURAL GAS FROM LP)

This cooktop leaves the factory set for use with
natural gas. When converting to LP gas, the
conversion must be performed by a qualified LP
gas installer.

The conversion instructions and LP orifices are
supplied with your cooktop.
Keep these instructions and the orifices in case
you want to convert back to natural gas.