



AURORA

BUILT-IN OUTDOOR GAS GRILL

A660i & A790i

AU SERIES

INSTALLATION AND OWNER'S MANUAL

INSTALLER: Leave these instructions with consumer.
CONSUMER: Retain for future reference.



A790i model shown

IMPORTANT: READ THESE INSTRUCTIONS CAREFULLY BEFORE STARTING INSTALLATION OR USE.

WARNINGS AND SAFETY CODES

⚠ DANGER:
IF YOU SMELL GAS:

- Shut off gas to the appliance.
- Extinguish any open flame.
- Open lid.
- If odor continues, keep away from the appliance and **immediately** call your gas supplier or the fire department.

⚠ WARNING:

- Do not store or use gasoline or other flammable liquids or vapors in the vicinity of this or any other appliance.
- A U.L.P.G. cylinder not connected for use shall not be stored in the vicinity of this or any other appliance.

⚠ WARNING:
 Improper installation, adjustment, alteration, service, or maintenance can cause injury or property damage. For proper installation, refer to the installation instructions. For assistance or additional information, consult a qualified professional service technician, service agency, or the gas supplier.

ONLY TO BE USED OUTDOORS
CODE AND SUPPLY REQUIREMENTS: This barbecue must be installed in accordance with the requirements of AS/NZS 5601, and with all applicable local authority, national, and international codes and ordinances.

The outdoor cooking gas appliance and its individual shut-off valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 3.5 kPa.

The outdoor cooking gas appliance must be isolated from the gas supply piping system by closing its individual manual shut-off valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 3.5 kPa.

This appliance is designed as an attended appliance. DO NOT leave this appliance burning when unattended. APPLIANCE IS TO BE INSTALLED BY AN AUTHORIZED PERSON IF CONNECTING FIXED CONSUMER PIPING.

The outdoor cooking gas appliance must be installed in accordance with LOCAL GAS and ELECTRICITY supply authority.

Keep any electrical supply cord and the fuel supply hose away from any heated surfaces.

Proper operation of your grill requires prompt and periodic maintenance. See the SERVICING AND CLEANING section for details.

Cooking Grid U.S.
 Patent Nos.
 D857,453
 D862,984



Certified to:
 AS / NZS 5263.1.7:2020
 AS / NZS 5263.0:2017
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INSTALLATION, OPERATION, AND SAFETY INFORMATION

1. The outdoor appliance and surrounding area **MUST** remain clear of flammable substances such as gasoline, yard debris, wood, etc. Maintain a minimum horizontal clearance of 50 cm (in all directions) from combustible materials/items.
2. Do not block the 2.5 cm front air inlet along the bottom of the control panel. See the COMBUSTION AIR AND COOLING AIRFLOW section under INSTALLATION REQUIREMENTS for details.
3. **This unit must be installed so that the required vent openings and surrounding area of the unit enclosure remain clear and free at all times. See the GRILL ENCLOSURE/VENTILATION REQUIREMENTS section for details.**
4. **When using propane gas: the propane cylinder, regulator, and rubber hose must be in a location not subject to temperatures above 125° F (51° C).**
5. The back burner cover (if equipped) must be removed before using the burner.
6. Before each use, ensure the flames on each burner burn evenly along the entire burner with a steady flame (mostly blue). If burner flames are not normal, check and clean the injector and burner/venturi tubes for insects and insect nests. A clogged tube can lead to a fire beneath the unit. A proper flame pattern will ensure safe operation and optimal performance. Adjust the air shutter as needed (see AIR SHUTTER ADJUSTMENT/BURNER FLAME INSPECTION section).
7. The in-line gas valve or gas cylinder valve must always be shut OFF when the unit is not in use.
8. Whenever reconnecting any wires, apply a small amount of dielectric grease to the male connector, then make the connection. This will ensure conductivity and prevent moisture from affecting the contact.
9. Wear gloves and use extreme caution whenever installing and handling this product and its accessories as certain components have sharp edges that can cause personal injury.
10. Adults **MUST** be present when this gas appliance is operating. This appliance **MUST NOT** be left burning when unattended.

WARNING

NEVER cover slots, holes, or passages in the oven bottom or cover an entire rack with material such as aluminum foil. Doing so blocks air flow through the oven and may cause carbon monoxide poisoning.

Aluminum foil linings may trap heat causing a fire hazard.

CAUTION: FOR YOUR SAFETY, you must provide openings in the grill enclosure for replacement air and ventilation (in case of possible leakage from gas connections or propane cylinders). **Failure to do so may result in a fire or explosion causing property damage, bodily injury, or death.** See the GRILL ENCLOSURE / VENTILATION REQUIREMENTS section for details.

IMPORTANT: IN THE EVENT OF A GREASE FIRE, IMMEDIATELY SHUT OFF THE MAIN GAS VALVE TO THE UNIT. KEEP THE LID OPEN AND ALLOW THE FIRE TO EXTINGUISH ITSELF. KEEP AT A SAFE DISTANCE. A THOROUGH INSPECTION BY A QUALIFIED PROFESSIONAL SERVICE TECHNICIAN SHOULD BE CONDUCTED BEFORE FUTURE USE OF YOUR UNIT. THE SERVICE TECHNICIAN WILL CHECK THE SYSTEM FOR GAS LEAKS AND WILL CHECK ALL ELECTRICAL WIRING FOR DAMAGE. ALL GAS LEAKS AND WIRING MUST BE REPAIRED PRIOR TO FUTURE USE.

WARNING: NEVER cover more than 75% of the cooking or grill surface with griddles, pots, or pans. Overheating will occur, and burners will not perform properly when combustion heat is trapped below the cooking surface.

The unit serial number tag can be found affixed to the grill body behind the control panel (on an aluminum tag) and on the underside of the drip tray handle (on a thermal label). It is recommended that the drip tray first be removed and cleaned / emptied of its contents, then turned over to view.

The unit rating label is located inside of the control panel.

ELECTRICAL CONNECTIONS

A 230VAC (6 AMP minimum) GFCI(RCD) GROUNDED 3-wire receptacle (not included) is required within the vicinity of the unit to provide power to it. The GFCI/RCD receptacle must be a WEATHER-PROOF IN-USE COVERED RECEPTACLE.

- **Observe the National Electric Code (or equivalent) and all local codes.**
- **Verify proper polarity of the receptacle.**
- **If an extension cord is used, ensure it is a 3-wire GROUNDED cord that is rated for the power of the equipment, and is approved for outdoor use with a W-A marking. DO NOT use 2-prong adapters.**
- **DO NOT TAMPER WITH THE EXTENSION CORD OR THE UNIT POWER-SUPPLY CORD.**

Important: ONLY REPLACE THE INTERIOR OVEN LIGHTS WITH 12V / 10 WATT HALOGEN BULB(S).

GAS SAFETY INFORMATION

WHEN OPERATING THIS GAS APPLIANCE, ALL INSTRUCTIONS AND WARNINGS MUST BE OBSERVED. FAILURE TO DO SO MAY RESULT IN A FIRE OR EXPLOSION CAUSING PROPERTY DAMAGE, BODILY INJURY, OR DEATH.

WARNING

This gas appliance and its enclosure **MUST** be plumbed and vented in accordance with local building and safety codes and should be approved by local code enforcement officials. This appliance **MUST** be installed and operated according to the information below.

FAILURE TO PROPERLY VENT THE ENCLOSURE MAY RESULT IN A FIRE OR EXPLOSION CAUSING PROPERTY DAMAGE, BODILY INJURY, OR DEATH.

A leaking gas connection or valve unintentionally left open will create a hazard.

WHEN USING PROPANE GAS

- **Propane gas** (also known as **Universal L.P.G.**) is heavier than air and will accumulate or pool in an inadequately vented enclosure or recessed area.
- If a pool of **propane gas** is ignited, an explosion will occur. Adequate venting at the floor level, or the lowest point where gas could accumulate, will eliminate this danger.
Refer to the **ENCLOSURE REQUIREMENTS** section.
Observe all local codes.
- DO NOT store a spare propane-gas cylinder under or near the enclosure.

WHEN USING NATURAL GAS

- **Natural gas** is lighter than air and will accumulate at the top of an inadequately vented enclosure.
- If an accumulation of **natural gas** is ignited, an explosion will occur. Adequate venting at the top of the enclosure, or the highest point where gas could accumulate, will eliminate this danger.
Refer to the **ENCLOSURE REQUIREMENTS** section.
Observe all local codes.

INSTALLATION SAFETY GUIDELINES

THIS UNIT MUST BE INSTALLED SO THAT THE REQUIRED VENT OPENINGS AND SURROUNDING AREA OF THE ENCLOSURE REMAIN CLEAR AND FREE AT ALL TIMES. See the ENCLOSURE REQUIREMENTS section for details.

CAUTION: FOR YOUR SAFETY, you must provide openings in the enclosure for replacement air and ventilation (in case of possible leakage from gas connections or propane cylinders). Failure to do so may result in a fire or explosion causing property damage, bodily injury, or death. See the ENCLOSURE REQUIREMENTS section for details.

The gas cylinder, regulator, and rubber hose must be in a location not subject to temperatures above 125° F (51° C).

IF A PROPANE CYLINDER IS INSTALLED INSIDE OF THE ENCLOSURE, THE GUIDELINES FOUND IN THE **ENCLOSURE REQUIREMENTS** SECTION MUST BE FOLLOWED.

OPERATING THE UNIT SAFELY AND CORRECTLY

Every time you use the unit, **make sure that:**

1. The area around the unit is clear and free from combustible materials, gasoline and flammable vapors and liquids.
2. There is no blockage of the airflow through the vent openings located on the enclosure.
3. The hose is inspected (if applicable). See SAFE USE & MAINTENANCE OF PROPANE-GAS CYLINDERS section.

DO NOT store any combustible materials, gasoline, and any other flammable vapors/liquids in the vicinity of the unit. Provide adequate clearance for servicing and operation.

SAFE USE & MAINTENANCE OF PROPANE GAS CYLINDERS

IMPORTANT FOR YOUR SAFETY

READ AND FOLLOW ALL WARNINGS PROVIDED WITH THE PROPANE-GAS CYLINDER.

When operating this appliance with a propane-gas cylinder, these instructions and warnings **MUST** be observed.

FAILURE TO DO SO MAY RESULT IN A SERIOUS FIRE OR EXPLOSION.

CYLINDER AND CONNECTOR REQUIREMENTS AND SPECIFICATIONS

- a. The required minimum cylinder size is 9 kg.
- b. Propane gas cylinders and valves must be maintained in good condition and must be replaced if there is visible damage to either the cylinder or valve.
- c. The cylinder must include a collar to protect the cylinder valve and the cylinder supply system must be arranged for vapor withdrawal.
- d. If the propane gas cylinder comes with a dust plug, place the dust cap on the cylinder valve outlet whenever the cylinder is not in use.

The use of pliers or a wrench should not be necessary. Only cylinders marked propane must be used.

Important: Before using the unit, and after each time the cylinder is removed and reattached, check all connections for leaks. Turn off the valves and open the main cylinder valve, then check connections with soapy water. Repair any leaks before lighting the unit.

CAUTION: Always turn the propane cylinder main valve off after each use, and before moving the barbecue and cylinder, or disconnecting the coupling. This valve must remain closed and the cylinder disconnected while the appliance is not in use.

Carefully inspect the hose assembly each time before the gas is turned on. A cracked or frayed hose must be replaced immediately.

If the appliance is stored indoors, the cylinder must be disconnected and removed. **Cylinders must be stored out of doors, out of the reach of children,** and must not be stored in a building, garage, or any other enclosed area.

FOR YOUR SAFETY

- a. DO NOT store a spare propane gas cylinder under or near this appliance.
- b. NEVER fill the cylinder beyond 80 percent full.
- c. IF THE INFORMATION IN “a” AND “b” IS NOT FOLLOWED EXACTLY, A FIRE CAUSING DEATH OR SERIOUS INJURY MAY OCCUR.

**For propane ventilation and enclosure requirements,
see the ENCLOSURE REQUIREMENTS section.**

ENCLOSURE REQUIREMENTS

For requirements regarding custom-built enclosures, see below.

To ensure proper operation and safety the enclosure **MUST** comply with the following:

- Proper construction and cutout openings - see INSTALLATION REQUIREMENTS and ENCLOSURE PARAMETERS sections.
- Proper ventilation - see VENTILATION section.
- Proper clearances - see INSTALLATION REQUIREMENTS section.

You **MUST** read and follow these sections for complete enclosure requirement details.

ENCLOSURE PARAMETERS

General Guidelines

The enclosure can be constructed according to your individual preference, while following all guidelines found in this manual. **The enclosure MUST (see Fig. 6-1):**

- be installed on a hard and level surface
- be properly vented (see VENTILATION section)
- have a countertop that is non-combustible (enclosure may be combustible construction with proper provision*)
- have the minimum dimensions specified in Fig. 6-1
- have the minimum cutout dimensions (see CUTOUT DIMENSIONS section)
- be setup so that the power supply is within reach of a properly wired and inspected **230VAC (6 AMP minimum) Ground Fault Circuit Interrupter (GFCI/RCD) GROUNDED 3-wire receptacle**
- have access to the interior for ease of installation and service
- be setup so the unit is as close to the vent openings as possible
- be designed so that the grill is supported by the stainless-steel hanger extending from the upper portion of the grill (rests on left, right, and back of countertop), and the two front support adjustment bolts located below the control panel (left and right sides) - see INSTALLATION section
- have drainage cutouts (if needed) to prevent the accumulation of water within the enclosure
- meet all requirements found in Fig. 6-1 and the following sections

* When installing this unit in a combustible enclosure, an approved insulating liner MUST be used. Reference Table 3 in the MODEL SPECIFICATIONS section for liner model #.

When a U.L.P.G. cylinder is used in the enclosure, additional requirements exist, see the U.L.P.G. CYLINDER REQUIREMENTS section.

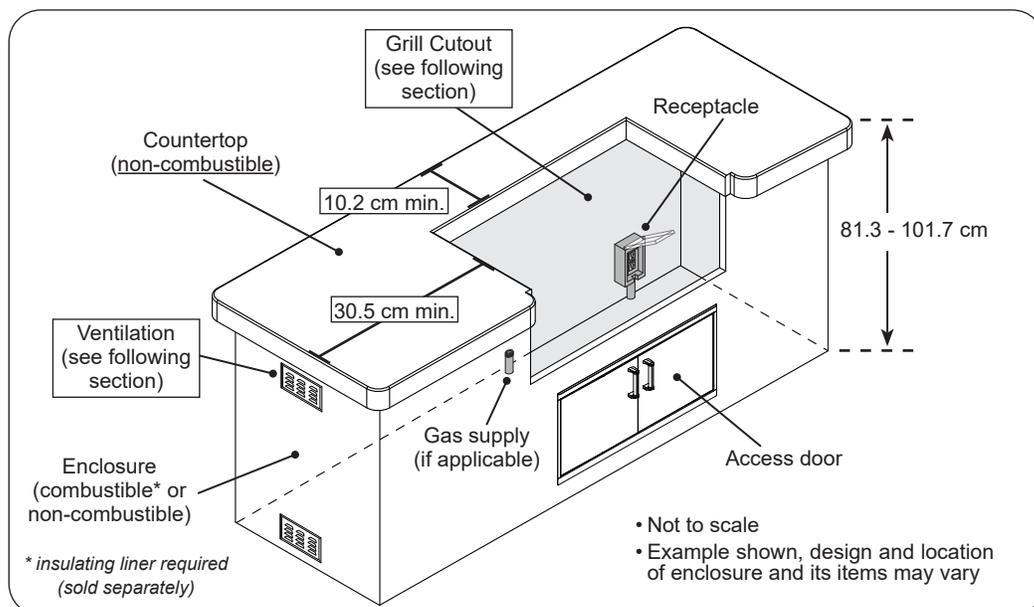


Fig. 6-1 Enclosure specifications

ENCLOSURE REQUIREMENTS (Cont.)

Ventilation

FOR YOUR SAFETY, you must provide the openings listed below for replacement air and ventilation of the enclosure (in case of possible leakage from gas connections or U.L.P.G. cylinders). Failure to do so may result in a fire or explosion causing property damage, bodily injury, or death.

- These requirements are for all piping systems and all gas types (natural gas, household propane, and U.L.P.G. cylinders).
- When a U.L.P.G. cylinder is used in the enclosure, additional requirements exist, see the U.L.P.G. CYLINDER REQUIREMENTS section.

Either of the following vent openings **MUST** be created:

Note: For U.L.P.G. cylinders, these requirements apply per cylinder.

- A. Perforations, uniformly distributed over the height of the enclosure and with a total free area of not less than 25% of the sidewall area.
- B. Separate openings at high and low level such that:
 1. the opening at high level is min. 20,000 mm² and is within 125 mm below the countertop level; and
 2. the opening at low level is min. 20,000 mm²; and
 - at least 25% of the opening is within 15 mm of the base of the enclosure
 - the total opening is within 125 mm of the base of the enclosure
 - **the openings remain unobstructed by the cylinder(s) or any other objects.**

WARNING: Vent openings in side walls shall not communicate directly with other enclosures of the outdoor cooking gas appliance.

Note: These same requirements apply when multiple appliances exist in the enclosure.

KEEP THE REQUIRED VENT OPENINGS AND SURROUNDING AREA OF THE ENCLOSURE CLEAR AND FREE AT ALL TIMES.

ENCLOSURE REQUIREMENTS (Cont.)

U.L.P.G. Cylinder Requirements (if applicable)

When a propane (U.L.P.G.) cylinder is installed inside of the enclosure, the additional guidelines below **MUST** be followed. FAILURE TO DO SO MAY CAUSE DAMAGE TO YOUR UNIT AND/OR PERSONAL INJURY. Refer to Fig. 8-1.

- Only a certified stainless-steel flex connector (not included) must be connected to the unit.
- The regulator/hose assembly (included with units set for U.L.P.G.) coming from the cylinder must only be connected to the above mentioned flex connector. Additional adapters may be required (not included). **DO NOT connect the regulator/hose assembly directly to the unit.**
- A non-combustible heat shield must be installed to protect the regulator/hose assembly and cylinder valve.
- The cylinder must be properly secured, and rest at least 5.1 cm above the ground.
- An additional vent opening is recommended in the access door near each cylinder and at the gas connection level (minimum 10,000 mm² of free area).
- The pressure relief valve on the cylinder must be pointed toward the vent opening for vapor withdrawal.

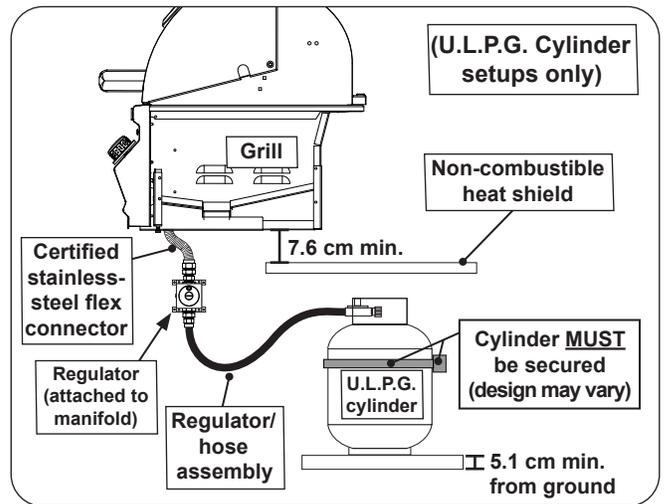


Fig. 8-1 U.L.P.G. cylinder orientation (if applicable)

ENCLOSURE REQUIREMENTS (Cont.)

Cutout Dimensions

Important: These cutout dimensions below are for non-combustible enclosures. If installing this grill in a combustible enclosure, the correct insulating liner must be used (and the cutout dimensions will differ). Refer to the instructions supplied with the liner for the correct cutout dimensions.

Description (non-combustible cutouts)	A660i	A790i
A Countertop to unit bottom cutout	29.2 cm	29.2 cm
B Side to side non-combustible cutout	79.4 cm	94 cm
C Front to back non-combustible cutout *	59.7 cm	59.7 cm
D Control panel width non-combustible cutout †	83.8 cm	98.4 cm

* Includes any substrate at front wall of enclosure (in the area the rear of the control panel is to sit flush against). See SUBSTRATE section on next page.
 † Only applicable for non-combustible enclosures that have countertops with an overhang (see illustration and section below).

Table 1 - Cutout Dimensions (for non-combustible enclosures)

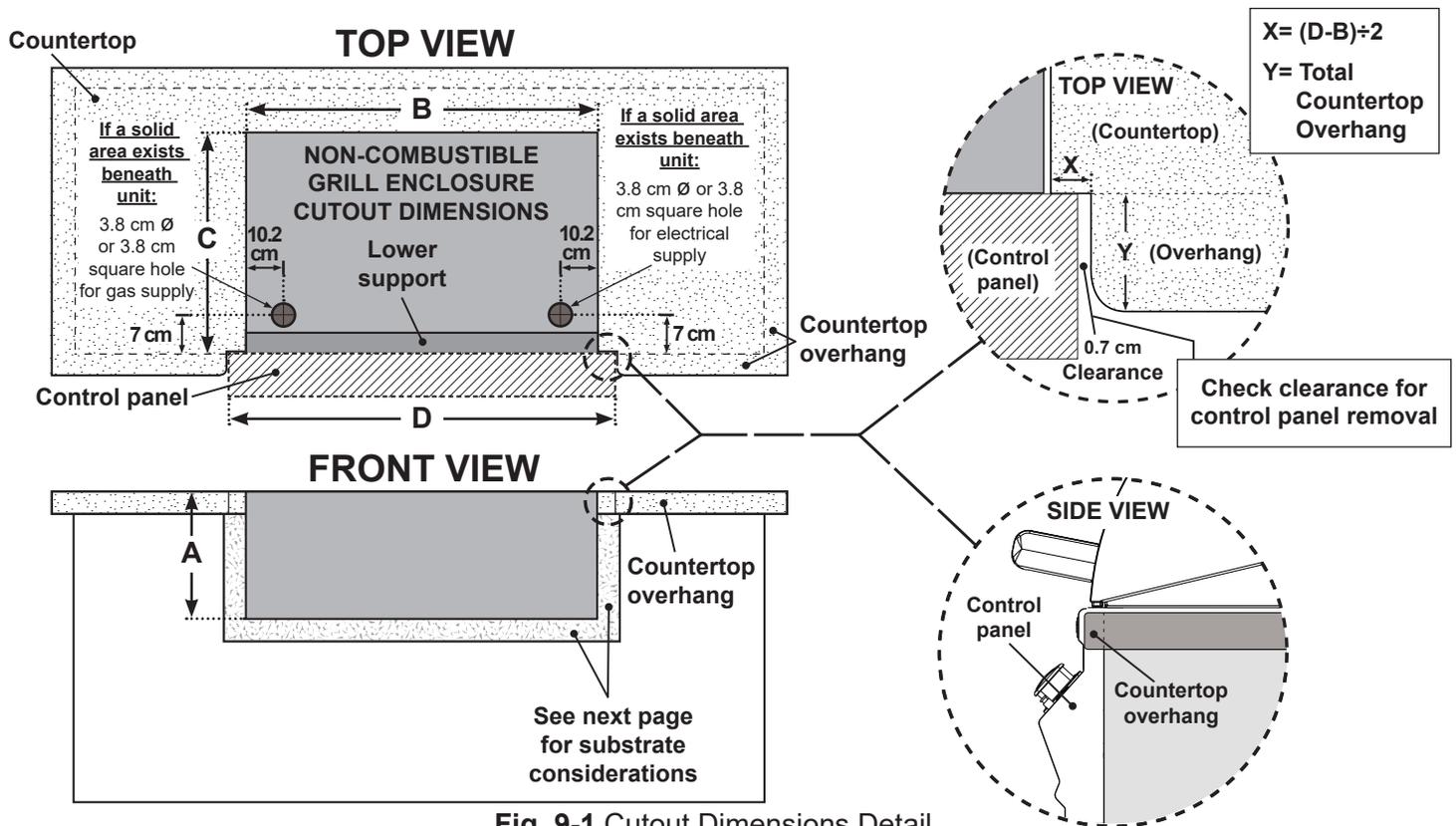


Fig. 9-1 Cutout Dimensions Detail

Countertop Overhang

The control panel is designed to sit flush against the enclosure front wall. If the countertop extends beyond the front wall, creating a countertop overhang, it must be cut flush with the front wall for the width of the control panel or a gap will be created exposing the forward portions of the left and right side grill fire walls. See illustrations in Fig. 9-1 above for the correct setup, and Fig. 9-2 for an incorrect setup.

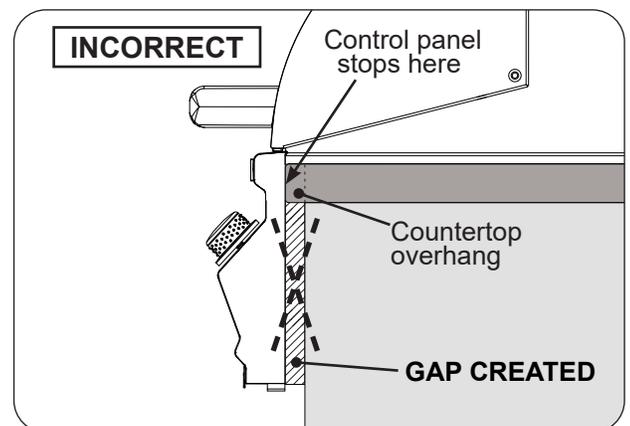


Fig. 9-2

Substrate

When adding any substrate to the enclosure front wall (including tiles, stone, etc.), consider the following:

Substrate Behind Control Panel

Substrate + countertop "front to back" cutout must equate to **Dim. C** (see previous page) when the substrate sits flush behind the control panel.

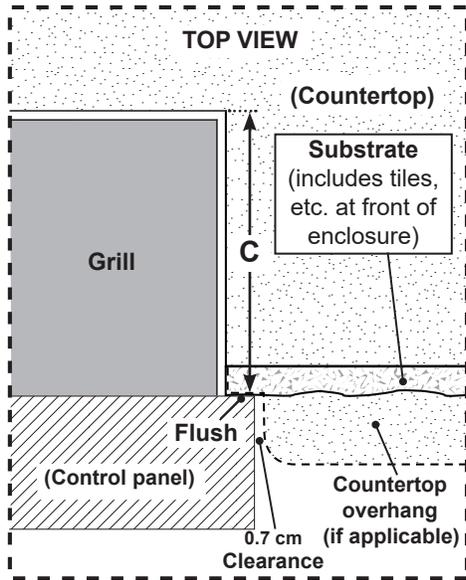


Fig. 10-1

Substrate Alongside Control Panel

Any additional substrate alongside the control panel does not need to be considered in **Dim. C** (see previous page), however a 0.7 cm clearance on each side (same as overhang) and below is required.

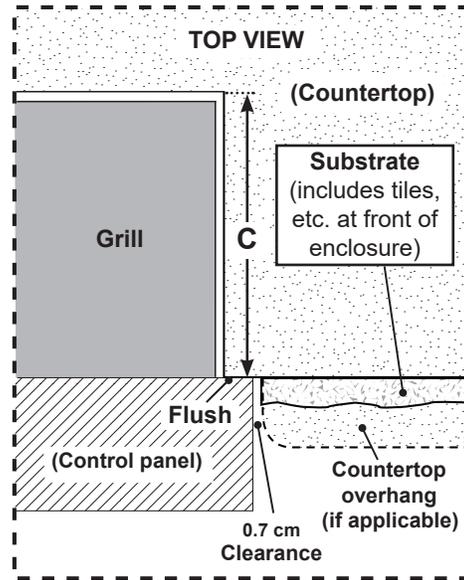


Fig. 10-2

INSTALLATION REQUIREMENTS

Installation must be performed by a qualified professional service technician.

This unit is designed for outdoor use only. **DO NOT** use this unit inside a building, garage, or enclosed area. **DO NOT** install this unit in or on a recreational vehicle or boat.

Do not install in, or connect to the consumer piping or gas supply system of a boat or caravan.

This appliance shall only be used in an above ground open-air situation with natural ventilation, without stagnant areas, where gas leakage and products of combustion are rapidly dispersed by wind and natural convection.

Any constructed outdoor area in which the appliance is used shall comply with one of the following:

- An outdoor area with walls on all sides, but at least one permanent opening at ground level and no overhead cover.
- Within a partial outdoor area that includes an overhead cover and no more than two walls.
- Within a partial outdoor area that includes an overhead cover and more than two walls, the following shall apply:
 - a. at least 25% of the total wall area is completely open; and
 - b. at least 30% of the remaining wall area is open and unrestricted.
- In the case of balconies, at least 20% of the total of the side, back and front wall areas shall be and remain open and unrestricted.

Refer to DIAGRAMMATICAL REPRESENTATIONS OF OUTDOOR AREAS section.

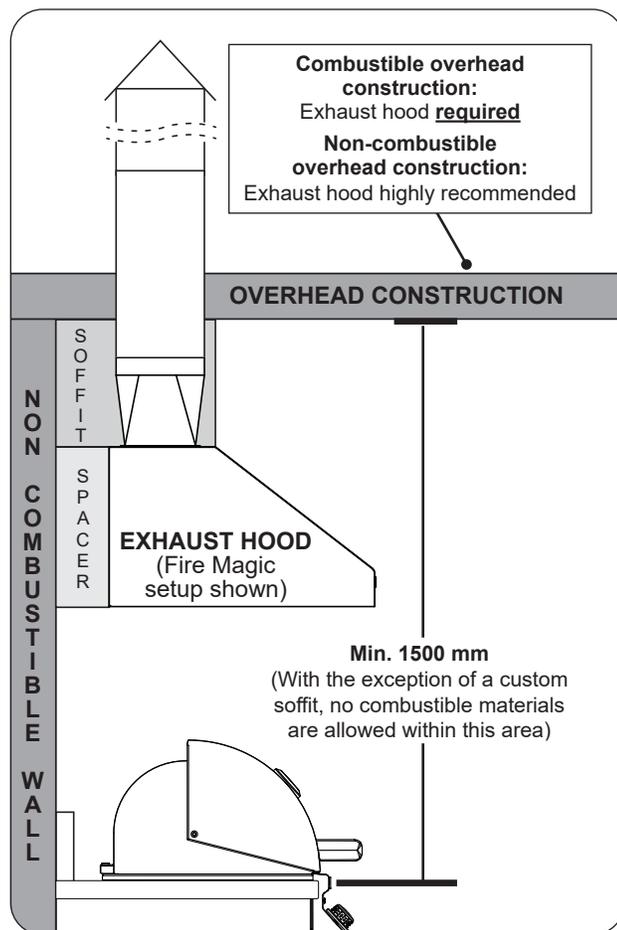


Fig. 11-1 Overhead requirements

OVERHEAD CONSTRUCTION AND EXHAUST HOOD REQUIREMENTS

When installed under combustible overhead construction, the area above the cooking surface of the unit **must** be covered with an exhaust hood. The exhaust hood provides the protection for the combustible overhead construction. See exhaust hood information below and Fig. 11-1.

Important: **DO NOT** use this appliance under **unprotected** combustible overhead construction.

When installed under overhead non-combustible construction, an exhaust hood is highly recommended; see exhaust hood information below and Fig. 11-1.

Exhaust Hood

When using an exhaust hood, the area above the cooking surface of the grill must be covered with a hood larger than the cooking area of the grill and with a minimum of 34 M³/min. (cubic meters per minute) rated exhaust fan for proper outdoor application.

Fire Magic vent hoods are available. They meet all requirements. Contact your local dealer.

- For custom spacers, they **must be constructed entirely of non-combustible material only**.
- for custom soffits, they may be constructed of wood, metal framing, etc.

Clearances

A minimum 1500 mm clearance is required between the countertop and the overhead construction. (No combustible materials are allowed within this area.)

INSTALLATION REQUIREMENTS (Cont.)

REAR WALL CLEARANCES

For the minimum clearances between the unit and rear walls, your setup must fall within one (or more) of the following:

A. Clearance between unit and strictly non-combustible rear wall

(i.e. brick wall, see Fig. 12-1)

- The unit must have a minimum clearance of 102 mm from the non-combustible rear wall.

(To allow for proper ventilation and prevent dangerous overheating.)

B. Clearance between unit and combustible rear wall

- The unit must have a minimum clearance of 500 mm from the combustible rear wall (see Fig. 12-2).

BACKSPLASH CLEARANCE (if applicable)

If a non-combustible backsplash exists, it must have a minimum of a 102 mm clearance from the rear of the unit (to allow for proper ventilation and prevent dangerous overheating). See Fig. 12-3.

Important: This 102 mm backsplash clearance must first be met prior to any non-combustible walls beginning behind it.

SIDE WALL / CORNER WALL CLEARANCES (if applicable)

The unit must have a minimum clearance of 610 mm from any side walls (to account for variables in airflow that could affect performance). See Fig. 12-4.

Clearances continued on following page

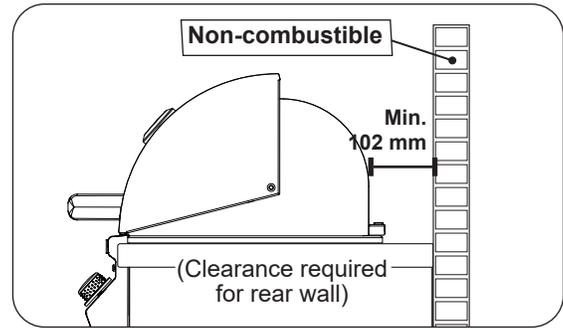


Fig. 12-1 Clearance 'A' Diagram

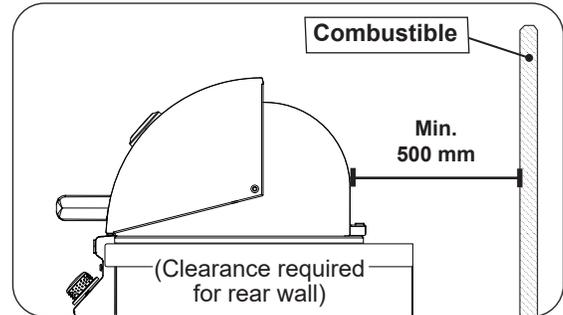


Fig. 12-2 Clearance 'B' Diagram

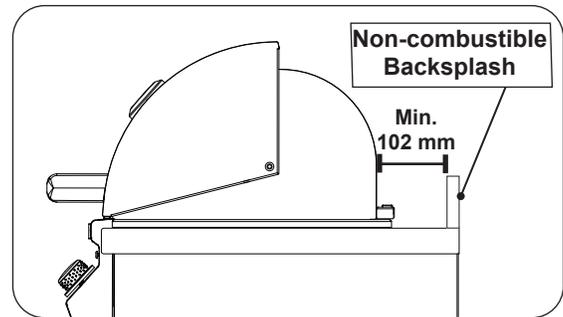


Fig. 12-3 Backsplash clearance

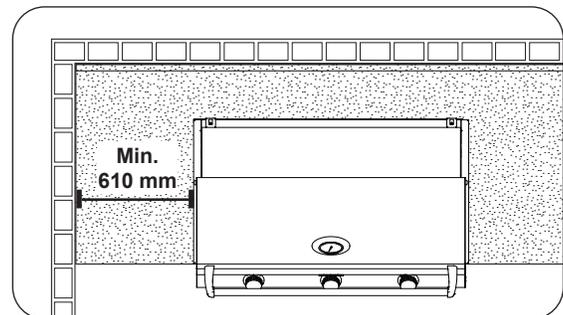


Fig. 12-4 Side/corner wall clearance

INSTALLATION REQUIREMENTS (Cont.)

CONTROL PANEL CLEARANCES

- The control panel **MUST** have a minimum side clearance of 152 mm from any obstructions/side walls. See Fig. 13-1.
(To allow for access to light switch and control panel removal.)
- The control panel **MUST** remain removable for servicing (see CONTROL PANEL REMOVAL section). Any adjacent countertops must not obstruct the panel from being removed.

COMBUSTION AIR AND COOLING AIRFLOW

Proper airflow (front-to-back, Fig. 13-2) **MUST** be maintained for the unit to perform as it was designed. If airflow is blocked, overheating and poor combustion will result. Do not block the 25 mm front air inlet along the bottom of the control panel.

CAUTION: Wind blowing into or across the rear oven lid vent (Fig. 13-4) can cause poor performance and/or dangerous overheating. Install the grill so that the prevailing wind blows toward the front of the grill (Fig. 13-3). **A wind deflector is available for purchase to assist in proper airflow during windy conditions.** See Table 3 for model numbers. Follow the instructions included with the wind deflector for installation.

GAS-SUPPLY PLUMBING REQUIREMENTS

For natural gas or a household propane system, rigid 1.3 cm or 1.9 cm black steel pipe or local code-approved pipe is required to conduct the gas supply to the unit. Contact your local gas supplier. Connect this pipe to the regulator that is pre-attached to the end of the stainless-steel flex connector coming from the left side of the grill. The use of a 1/2" BSPP adapter (not included) will be required to connect the rigid pipe. **DO NOT use a rubber hose within the unit enclosure.** Apply only joint compounds that are resistant to all gasses to all NPT pipe fittings **except flare fittings**. Make sure to tighten all fittings securely.

Note: If 1.3 cm pipe is used with natural gas, it should be no longer than 6.1 meters.

Important: **A shut-off valve (not included) in the gas line is required.** It must be installed within 1.8 meters of the unit. If it is located within the enclosure, it must be easily accessible. Use a pipe joint compound resistant to all gasses on all male fittings except flare fittings.

Note: A sediment trap in the gas supply line is recommended where applicable. It should be installed downstream of the shut-off valve as close to the unit as possible.

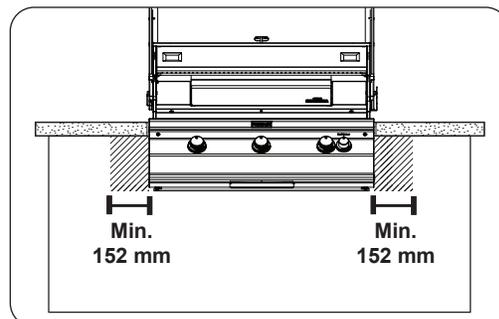


Fig. 13-1 Control panel clearances

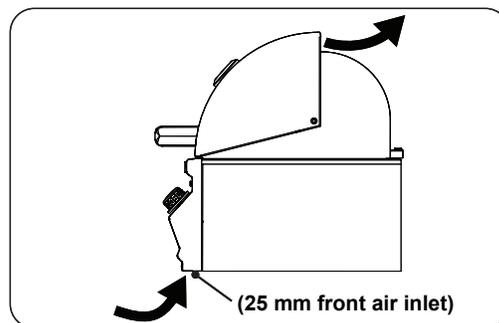


Fig. 13-2 Airflow diagram

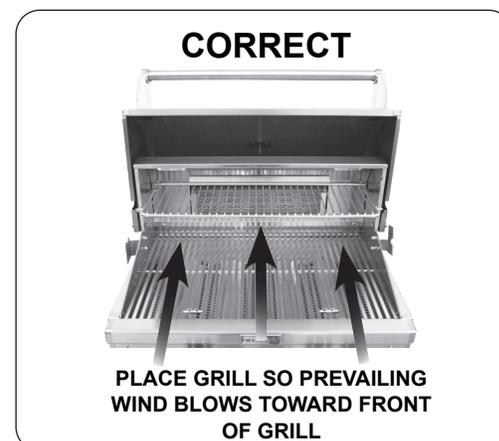


Fig. 13-3 Airflow direction - CORRECT

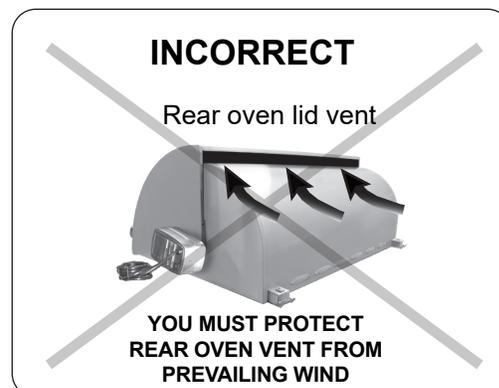


Fig. 13-4 Airflow direction - INCORRECT

DIAGRAMMATICAL REPRESENTATIONS OF OUTDOOR AREAS

The following figures are diagrammatical representations of outdoor areas, as defined in Clause 1.3.90. Rectangular areas have been used in these figures; the same principles apply to any other shaped area.

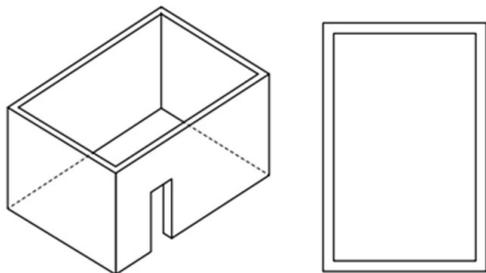


Fig. 14-1 Outdoor area - Example 1

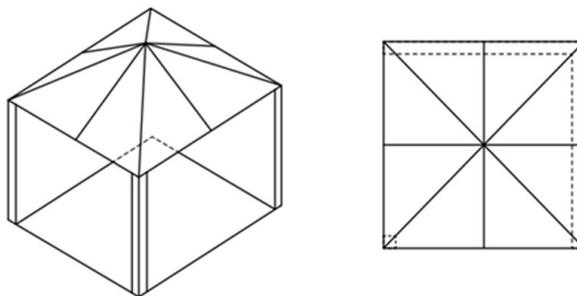


Fig. 14-2 Outdoor area - Example 2

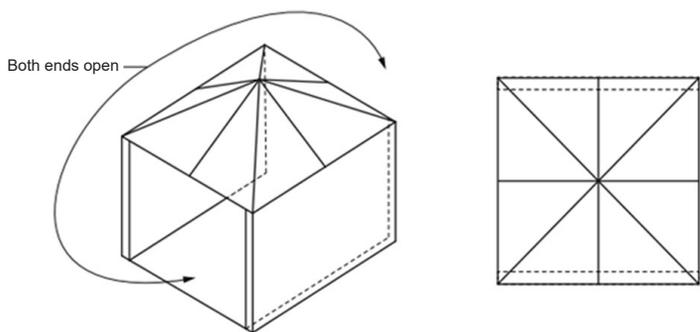


Fig. 14-3 Outdoor area - Example 3

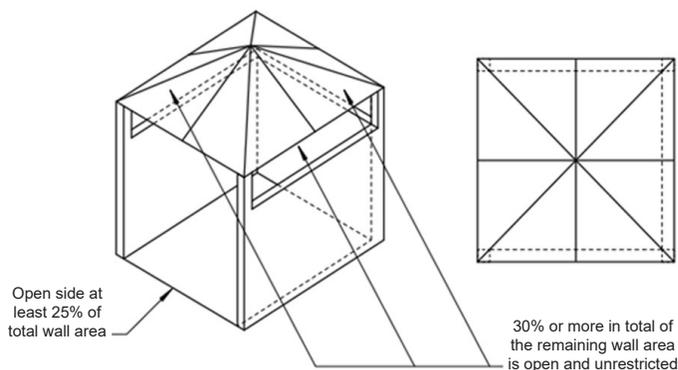


Fig. 14-4 Outdoor area - Example 4

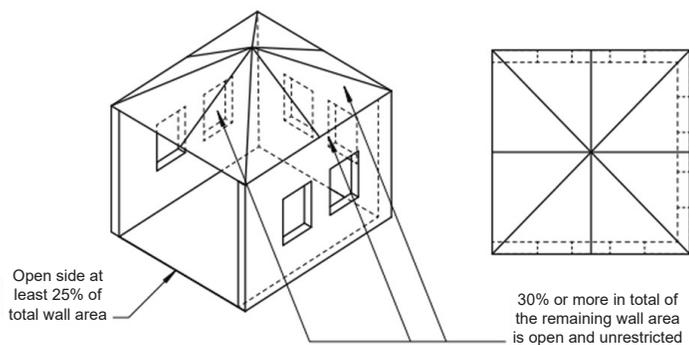


Fig. 14-5 Outdoor area - Example 5

ELECTRICAL SAFETY

- To protect against electric shock, do not immerse cord or plugs in water or other liquid.
- Unplug from the outlet when not in use and before cleaning. Allow to cool before putting on or taking off parts.
- Do not operate any outdoor cooking gas appliance with a damaged cord, plug, or after the appliance malfunctions or has been damaged in any manner. Contact the manufacturer for repair.
- Do not let the cord hang over the edge of a table or touch hot surfaces.
- Do not use an outdoor cooking gas appliance for purposes other than intended.
- When connecting, first connect plug to the outdoor cooking gas appliance then plug appliance into the outlet.
- **Use only a properly wired and inspected 230VAC (6 AMP minimum) Ground Fault Circuit Interrupter (GFCI/RCD) GROUNDED 3-wire receptacle with this outdoor cooking gas appliance.**
- The GFCI(RCD) receptacle must be a WEATHER-PROOF IN-USE COVERED RECEPTACLE.
- Never remove the grounding plug or use with an adapter of 2 prongs.
- Use only extension cords with a 3 prong grounding plug, rated for the power of the equipment, and approved for outdoor use with a W-A marking.
- **The provisions of the National Electric Code (or equivalent) as well as any local codes must be observed when installing the product.**

WARNING STATEMENTS

- **DO NOT SPRAY AEROSOLS IN THE VICINITY OF THIS APPLIANCE WHILE IT IS IN OPERATION.**
- **DO NOT USE OR STORE FLAMMABLE MATERIALS IN OR NEAR THIS APPLIANCE.**
- **DO NOT PLACE ARTICLES ON OR AGAINST THIS APPLIANCE.**
- **DO NOT MODIFY THIS APPLIANCE.**
- **DO NOT USE AN ADAPTER AT THE CYLINDER CONNECTION.**
- **SERVICING SHALL BE CARRIED OUT ONLY BY AUTHORIZED PERSONNEL.**

MODEL SPECIFICATIONS

		A660i		A790i	
		Nat.	U.L.P.G.	Nat.	U.L.P.G.
Main burner	Quantity	3	3	3	3
	Injector (Nearest approval size mm/guage)	2.37 / #42	1.40 / #54	2.58 / #38	1.51 / #53
	Nominal gas consumption (MJ/h)	24.3	24.3	28.0	28.0
	Air shutter opening (mm) †	9	9	11	11
Back burner *	Quantity	1	1	1	1
	Injector (Nearest approval size mm/guage)	1.51 / #53	0.94 / #63	1.70 / #51	1.04 / #59
	Nominal gas consumption (MJ/h)	10.7	10.7	13.5	13.5
Max. inlet pressure (kPa)		2.6	3.24	2.6	3.24
Test point pressure (kPa)		1.0	2.5	1.0	2.5
Input electrical requirements		100~240 VAC / 1.90A max. / 50/60 Hz / GFCI(RCD) outlet			
Appliance rating		13 VDC / 150 Watts			
Interior oven lights rating		12V / 10 watt halogen bulb			
* If equipped					
† These are air shutter factory settings. These settings may require adjustment due to altitude, or other local conditions. See AIR SHUTTER ADJUSTMENT / BURNER FLAME INSPECTION section.					

Table 2 - Product Specifications

	A660i	A790i
Aurora insulating liner model # *†	3176-52	3186-52
Wind deflector model # *	23732-20	23745-20
Vent hood model # *†	42-VH-7 †	48-VH-7 †
Vent hood spacer model # *†	42-VH-7-02 †	48-VH-7-02 †
Vent hood duct cover model # *†	42-VH-7-DC †	48-VH-7-DC †
Burner maintenance kit model # *	MK-1	MK-1
Grill complete maintenance kit model # *	MCK-1	MCK-1
* If applicable, not included		
† If installing this grill in a combustible enclosure, the correct insulating liner must be used. Consult liner instructions for counter cutout dimensions and installation.		
‡ This model meets the minimum requirements; larger models are also acceptable.		

Table 3 - Grill Supporting Products

MODEL SPECIFICATIONS (cont.)

Model	Height		Width		Depth
	(Top to bottom)		(Left to right)		(Front to back)
	Bottom of hanger to top (with oven)		Maximum width (C)	Control panel width (D)	Maximum depth (E)
	Open (A)	Closed (B)			
A660i	62.2 cm	39.4 cm	83.8 cm	82.6 cm	77.5 cm
A790i	62.2 cm	39.4 cm	98.4 cm	97.2 cm	77.5 cm

Table 3 - Grill Dimensions

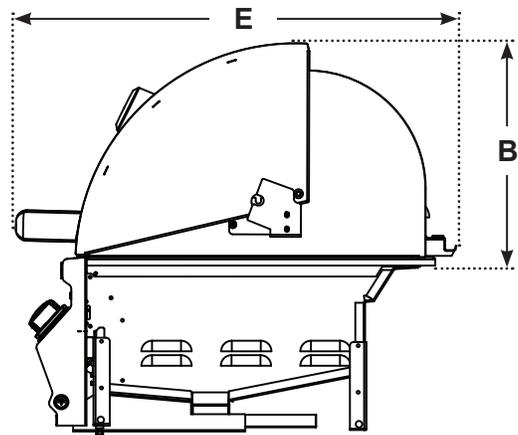
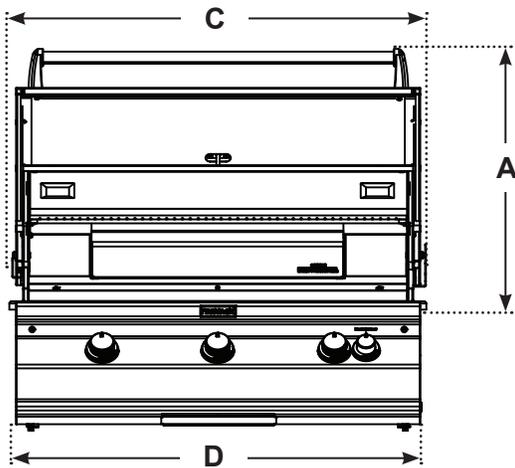
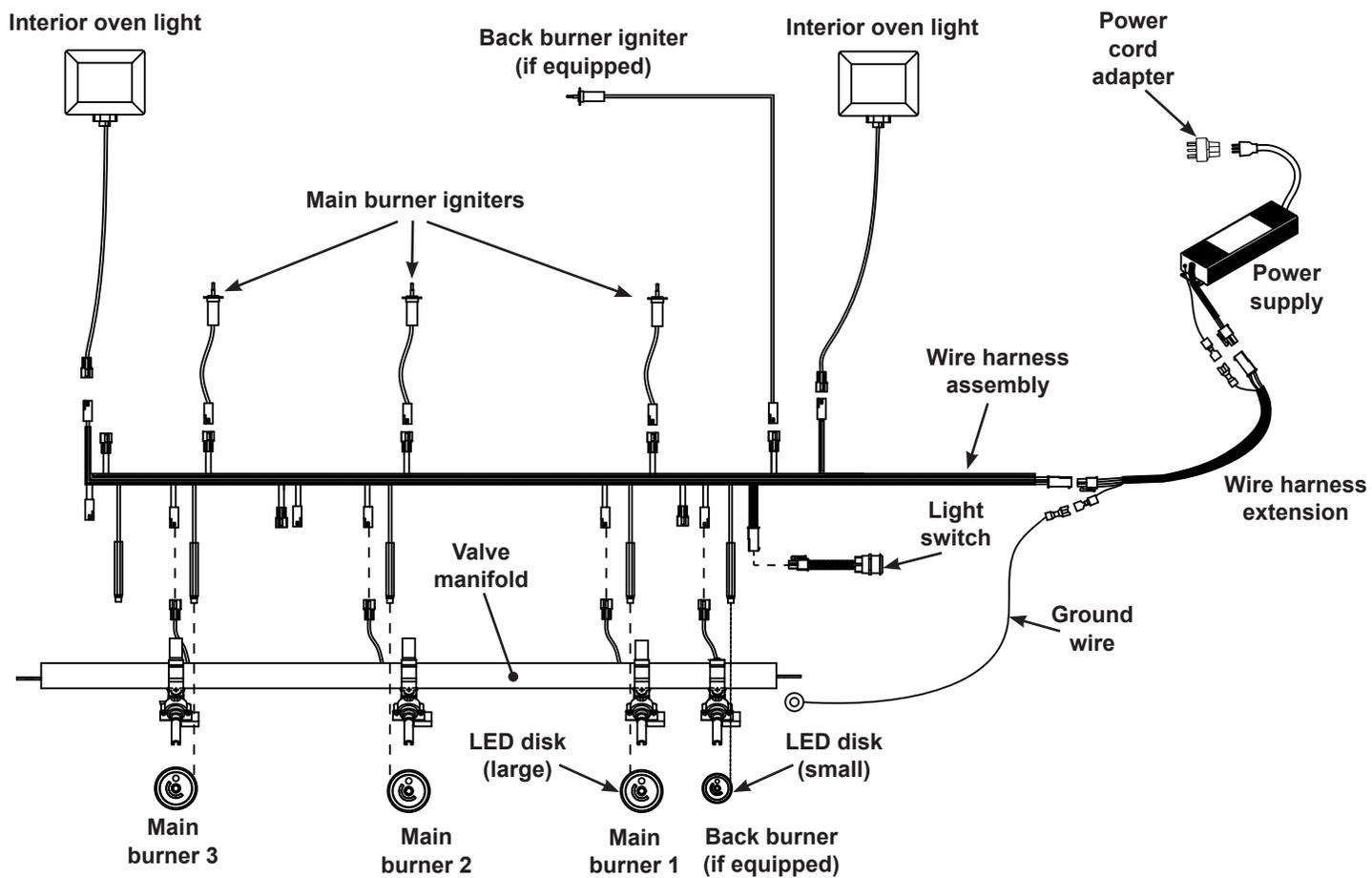


Fig. 17-1

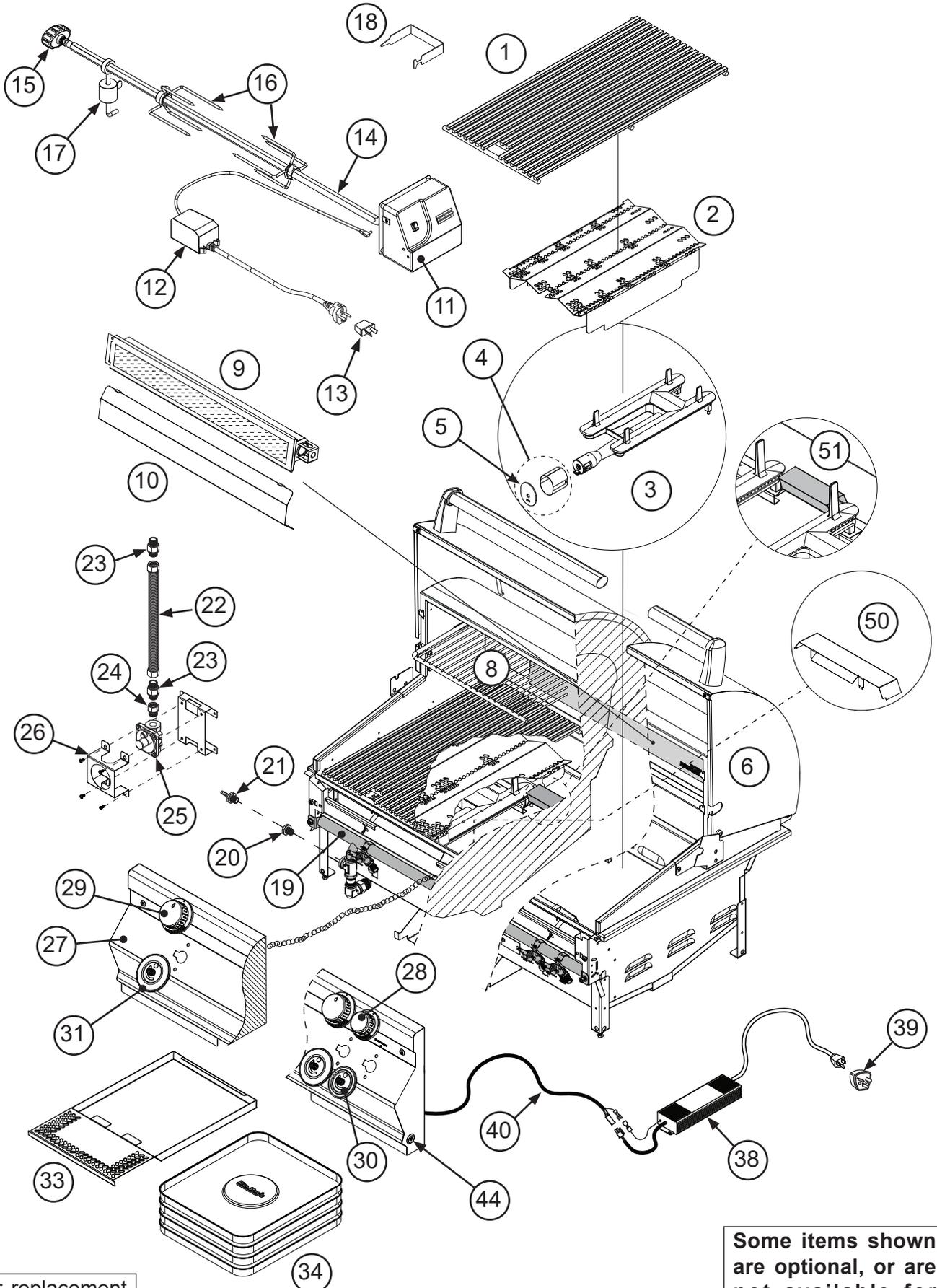
BUILT-IN GRILL WIRING DIAGRAM*



* A790i model shown. Model wire diagrams may vary.

Note: In addition, a wire diagram specific to your unit can be found affixed to the inside of the control panel.

AURORA GRILL REPLACEMENT PARTS LIST



To order replacement parts, contact your local Fire Magic® dealer.

Some items shown are optional, or are not available for certain models. Your model may vary, refer to parts list table.

AURORA GRILL REPLACEMENT PARTS LIST (Cont.)

Item	Description	A660i		A790i	
		Part No.	Qty.	Part No.	Qty.
1.	Stainless cooking grid (set of 2 or 3)	3544-DS-3	1	3539-DS-3	1
2.	Flavor grid (set of 2 or 3)	3070-S-3	1	3071-S-3	1
3.	Main burner	3041-50	3	3041-50	3
4.	Flame arrester kit	24177-05	3	24177-05	3
5.	Silicone gasket	24177-06	3	24177-06	3
6.	Oven lid w/ oven thermometer (no handle)	23738-60	1	23745-60	1
	or Oven lid w/ Magic View Window and oven thermometer (no handle)	24193-59	1	24188-59	1
7.	Oven lid spring kit *	23745-11	1	23745-11	1
8.	Warming rack	3673S-B	1	3675S-B	1
9.	Backburner †	24794-03-AU	1	24789-03-AU	1
10.	Backburner cover †	24794-011	1	24789-011	1
11.	Rotisserie motor †	3600-41	1	3600-41	1
12.	Rotisserie power supply (no adapter) †	3600-42	1	3600-42	1
13.	Rotisserie AU power adapter (only) †	3600-45	1	3600-45	1
14.	Rotisserie rod †	3606-30	1	3609-40	
15.	Rotisserie knob †	24187-16	1	24187-16	1
16.	Meat holder (pair) †	3613	1	3613	1
17.	Counterbalance †	3620E	1	3620E	1
18.	Grid lifter	3519	1	3519	1
19.	Valve manifold w/ backburner (no fittings)	24193-23-AU	1	24188-23-AU	1
	or Valve manifold w/o backburner (no fittings)	24170-29	1	24180-29	1
20.	Pressure tap cap	PP-2	1	PP-2	1
21.	Pressure guage barb fitting	PF-7	1	PF-7	1
22.	3/4" ID flex hose (10" length)	3030-10	1	3030-10	1
23.	1/2" NPT - to - 3/4" flare adapter	AD-25	2	AD-25	2
24.	NTP - to - BSPP adapter w/ O-ring	AD-26	1	AD-26	1
25.	Grill regulator 48 Series (Nat)	PR-7NAT	1	PR-7NAT	1
	or Grill regulator 48 Series (LPG)	PR-7LP	1	PR-7LP	1

Item	Description	A660i		A790i	
		Part No.	Qty.	Part No.	Qty.
26.	Regulator mounting bracket assy	PR-7BKT	1	PR-7BKT	1
27.	Control panel w/ backburner	24170-49	1	24180-49	1
	or Control panel w/o backburner	24170-50	1	24180-50	1
28.	Small knob †	24182-42	1	24182-42	1
29.	Large knob	24182-41	3	24182-41	3
30.	LED disk (small) †	24182-64	1	24182-64	1
31.	LED disk (large)	24182-63	3	24182-63	3
32.	Oven lid thermometer w/ bezel *	23307	1	23307	1
33.	Drip tray	3084	1	3084	1
34.	Drip tray liner (set of 4)	3557	1	3557	1
35.	Wire harness assembly *	24177-29	1	24177-29	1
36.	Backburner electrode *†	4199-52	1	4199-52	1
37.	Main burner electrode *	3199-72	3	3199-72	3
38.	Power supply w/ cord (no adapter)	24182-18	1	24182-18	1
39.	Power adapter (only)	25387-14-AU	1	25387-14-AU	1
40.	Wire harness extension	24182-53	1	24182-53	1
41.	12V / 10 watt halogen light bulb *	24187-15	2	24187-15	2
42.	Light lens *	24187-26	2	24187-26	2
43.	Lamp assembly *	24187-28	2	24187-28	2
44.	Light switch	24182-48	1	24182-48	1
45.	Magic View Window (only) *†	24187-52	1	24187-53	1
46.	Lighting tube (left) *	24187-65L	1	24187-65L	1
47.	Lighting tube (center) *	24187-65C	1	24187-65C	1
48.	Lighting tube (right) *	24187-65R	1	24187-65R	1
49.	Backburner flex connector *†	3030-08	1	3030-08	1
50.	Air baffle	24194-41	1	24194-41	1
51.	Main burner crosslighting tube	3199-79	2	3199-73	2

* Not shown † If equipped

INSTALLATION

TOOLS/ITEMS REQUIRED

The following are the minimum tools required for the installation of your unit. Additional tools may be required for your individual installation.

- 2 adjustable spanner (crescent) wrenches
- 3/16" hex key
- Pressure gauge
- Phillips screwdriver
- Silicone sealer rated for 400° F (204° C) or higher

CONSTRUCT ENCLOSURE

A custom-built enclosure will need to be constructed. Construct the enclosure according to your individual install preference, while following the guidelines found in the ENCLOSURE REQUIREMENTS and INSTALLATION REQUIREMENTS sections.

- Construct the enclosure in an appropriate location (Ensure all requirements of this manual and all local codes are met when determining location)
- **Follow all information regarding enclosure parameters, ventilation, drainage, cylinder requirements, cutout dimensions, and clearances listed in the ENCLOSURE REQUIREMENTS and INSTALLATION REQUIREMENTS sections.** Failure to do so will prevent proper operation and can cause property damage or personal injury.

UNPACKING

Carefully unpack the unit, removing all packing material and protective film (including the clear film on the drip tray). Remove foam packed hardware from oven area. Verify that all parts have arrived undamaged by consulting the parts list (see Fig. 21-2). If any parts are missing or damaged, immediately contact the Fire Magic dealer before beginning installation.

INSTALL INSULATING LINER (if applicable)

If installing your unit in a combustible enclosure, the correct insulating liner must be used. Refer to the instructions supplied with the liner for installation.

Note: The flex connector with regulator will need to be disconnected from the manifold before the unit can slide completely into the insulating liner. Once the unit is installed, feed the flex connector up through the access hole from below the insulating liner and reconnect to the manifold.

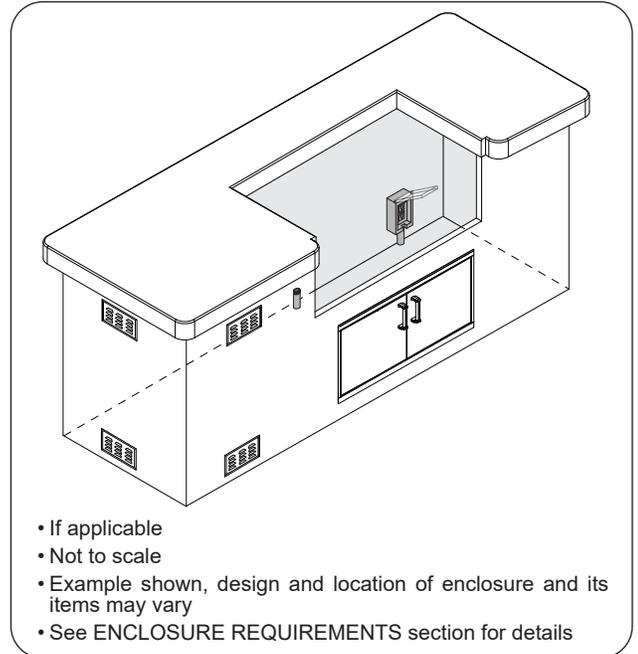


Fig. 21-1 Enclosure construction overview

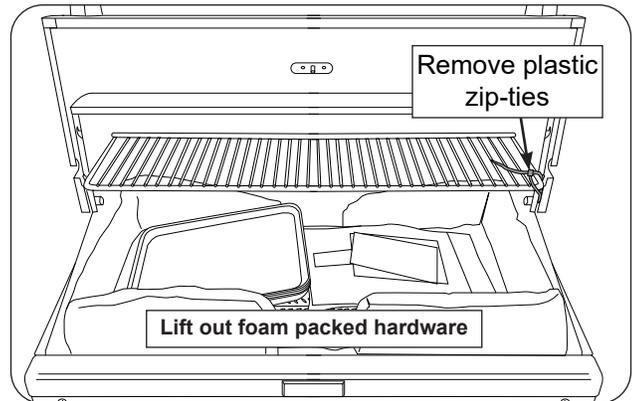


Fig. 21-2 Unpack grill

INSTALLATION (Cont.)

SLIDE UNIT INTO ENCLOSURE CUTOUT

CAUTION: THE GRILL IS HEAVY AND REQUIRES TWO OR MORE PEOPLE FOR SAFE HANDLING.

DO NOT lift the unit from the control panel when installing.

1. Locate the harness coming from the grill and disconnect it from the power supply box.
2. Carefully slide the unit into the enclosure cutout, being sure to simultaneously route the flex connector and harness down into the enclosure. (If using an insulating liner or if the enclosure has a solid area beneath the unit, route the connections through the 2 holes/cutouts found in the enclosure/insulating liner. For details on the holes/cutouts, see the illustration under CUTOUT DIMENSIONS in the ENCLOSURE REQUIREMENTS section or refer to the instructions supplied with the liner.)
3. Reconnect the harness to the power supply box.
 - Ensure the electrical and gas connections are clear, undamaged, and completely inserted into the opening, and that the unit is correctly inserted without any obstructions between it and the countertop.
 - Ensure the unit fully slides in so that the control panel sits flush against the enclosure front wall. See the COUNTERTOP OVERHANG section in ENCLOSURE REQUIREMENTS for details.
 - If installing on a countertop with an irregular/textured surface, a bead of silicone sealer rated for 400° F (204° C) or higher is recommended to protect from the elements.
4. Rotate the front support adjustment bolts (up or down) until the grill hanger rests flush on the countertop, AND, the adjustment bolts are touching the supporting structure found at the bottom of the cutout (lower support). Use an 11 mm open-end wrench as needed. See Fig. 22-2.
 - The grill should not solely rest on just the hanger or just the adjustment bolts.
 - The bolts **MUST** be used to provide support to the hangers.

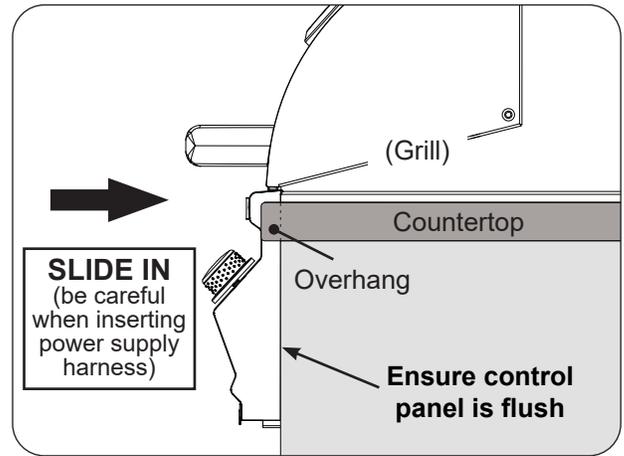


Fig. 22-1 Countertop overhang - correct cutout

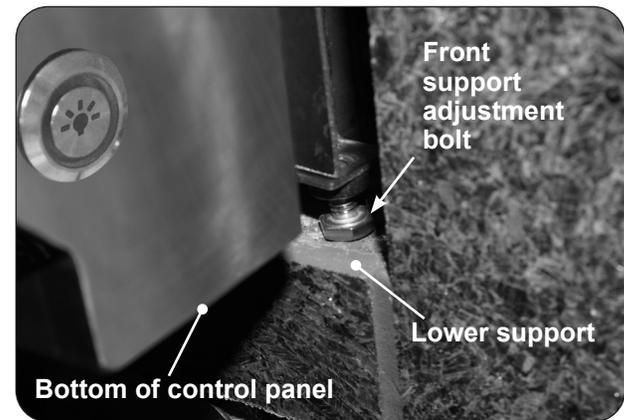


Fig. 22-2 Front support adjustment bolts

INSTALL POWER SUPPLY

If a side burner is to be installed and will be powered using the same grill power supply, instead refer to the POWER SUPPLY / WIRE HARNESS CONNECTIONS section of the owner's manual included with the side cooker for power supply installation.

CAUTION: IMPROPERLY CONNECTED WIRES WILL CAUSE DAMAGE TO THE UNIT AND MAY RESULT IN PROPERTY DAMAGE AND/OR PERSONAL INJURY.

1. Route the power supply below the control panel and directly downward. This will prevent overheating. **DO NOT** route the harness below the unit firebox. See Fig. 23-2.
2. Mount the power supply to the inside of the enclosure using appropriate hardware for your enclosure. **The control box MUST BE:**
 - located at least **30.5 cm** below the bottom of the unit (see Fig. 23-2)
 - protected from weather/elements
3. Connect the power cord (with adapter) to a **230VAC (6 AMP minimum) GFCI/RCD GROUNDED 3-wire receptacle** (see Fig. 23-1). The GFCI/RCD receptacle must be a WEATHER-PROOF IN-USE COVERED RECEPTACLE.

WARNING: Electrical Grounding Instructions - This appliance is equipped with a three-pronged (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle. Do not cut or remove the grounding prong from this plug.

1. Locate power supply
2. Route wire harness extension downward
3. Mount power supply
4. Connect cord to power source

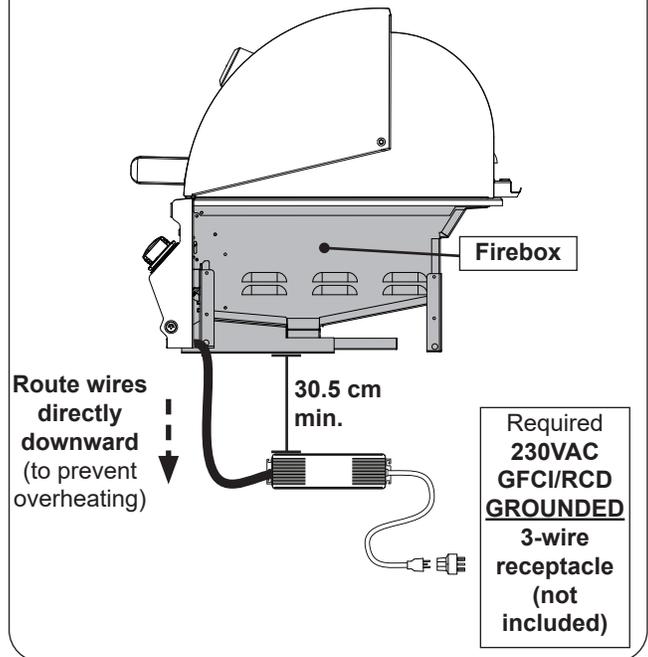


Fig. 23-1 Electrical installation

CONNECT THE GAS SUPPLY

To Connect To Propane Cylinder:

Read the safety warnings and follow the instructions in the section SAFE USE AND MAINTENANCE OF PROPANE GAS CYLINDERS.

Note: When a propane cylinder is installed inside of the enclosure, the guidelines found in the ENCLOSURE REQUIREMENTS section **MUST** be followed.

To Connect To Natural Or Household Propane Gas Supply:

CAUTION: Use only certified stainless-steel flex connectors within the enclosure.

WARNING

A rubber or plastic connector will rupture or leak, resulting in an explosion or serious injury if used inside the appliance enclosure.

- Before connecting the gas supply to your appliance, pressures MUST be tested and MUST NOT exceed 2.6 kPa for Natural gas and 3.24 kPa for propane gas. An additional regulator may be required.

- Refer to the GAS SUPPLY PLUMBING REQUIREMENTS section for all details on the gas supply and its setup.

1. Turn OFF the gas supply at the source.
2. Run the gas supply into the grill enclosure and to the regulator (1/2" BSPP female) that is attached to the flex connector located under the left side of the grill.
3. A shut-off valve is required within 1.8 meters of the unit and must be easily accessible.

If shut-off valve is installed in-line:

- Install the gas supply to the regulator (1/2" BSPP female) using a 1/2" BSPP adapter (not included) (see Fig. 24-1, A). Tighten securely.

If shut-off valve is connected to end of gas supply stub:

- Connect the shut-off valve (1/2" BSPP male) to the regulator (1/2" BSPP female) (see Fig. 24-1, B). Tighten securely.

4. If the gas connections are not rigid and are unable to hold the regulator in a secure manner, use the provided regulator mounting bracket assembly to fasten the regulator securely to the enclosure inner wall. See Fig. 24-2.

TEST POINT PRESSURE TEST

A manifold test point pressure test is required to ensure the proper level of pressures are met for safe operation of this appliance.

Testing and adjustments MUST be performed by a qualified professional service technician.

1. Open the control panel (see CONTROL PANEL REMOVAL section under SERVICING AND CLEANING).

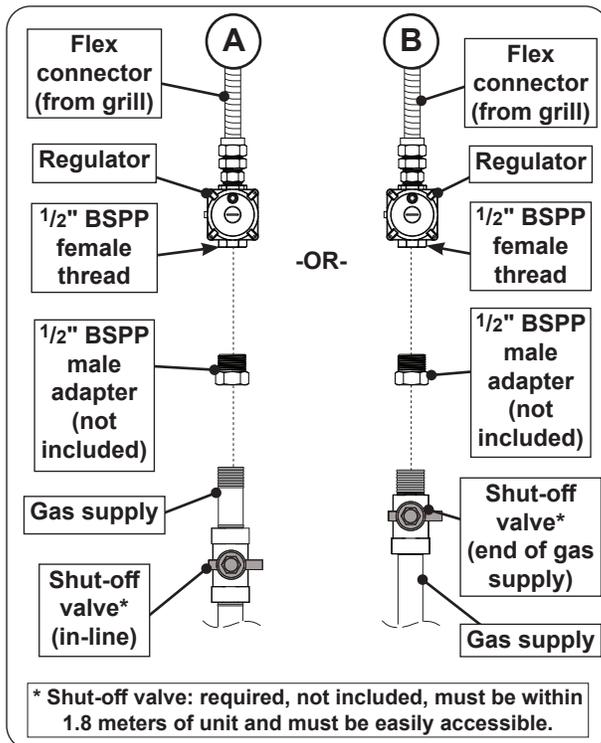


Fig. 24-1 Connecting to a gas line

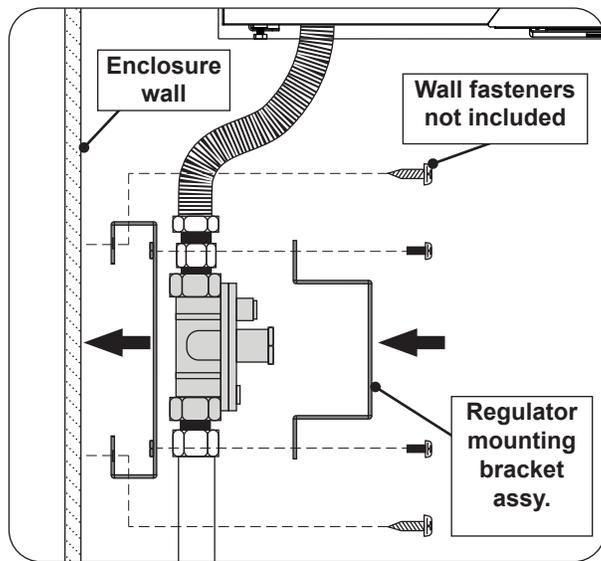


Fig. 24-2 Mount regulator to enclosure wall

Procedure continued on following page

INSTALLATION (Cont.)

2. Use a $\frac{3}{16}$ " hex key to remove the pressure tap cap (see Fig. 25-1, A).
3. Install the included barbed fitting into the pressure tap opening where the cap was removed (see Fig. 25-1, B).
4. Install a pressure gauge hose to the barbed fitting (pressure gauge and hose not included). See Fig. 25-1, C.
5. **Manually light all burners** and set all to HI setting (see the LIGHTING INSTRUCTIONS section).
6. Using the pressure gauge, inspect pressure readings and adjust the regulator as needed to ensure nominal pressures are met. Test point pressure for **natural gas** - 1.00 kPa. Test point pressure for **propane gas** - 2.5 kPa.

Note: The regulator cap will need to be removed in order to adjust the regulator.

7. Shut off all burners, turn off the gas supply, remove barb fitting, reinstall pressure tap cap, regulator cap, then perform a leak test.

Note: The control panel needs to remain open in order to test the pressure tap on the manifold for leaks. With the control panel open, proceed to the LEAK TEST section.

LEAK TEST

Turn all burner valves to the **OFF** position. Turn on the gas supply, and test at all connections for leaks using a soapy water solution. If bubbles appear, a leak is present. Turn off the gas and tighten at all connections. Repeat until no leaks are present. If a leak persists, turn off the gas supply and contact the local gas company or dealer. **NEVER USE A FLAME TO CHECK FOR LEAKS.**

Once the leak test is complete, turn off the gas supply, reinstall the control panel, and proceed.

INSTALL THE FLAVOR GRIDS

Place the flavor grids onto the front and rear flavor grid rests. Align the cutouts to the lighting tubes. See Fig. 25-2. **The short grids are designed to rest over the outer burners and the tall grid(s) over the inside burner(s).** The flavor grids allow heat from the burners to be evenly distributed throughout the cooking area.

INSTALL THE COOKING GRIDS

Note: Wear heat-resistant gloves if necessary.

Note: Do not leave the lifter on any hot surfaces.

1. With the prongs facing downward, insert the notched-end of the lifter between two grid rods, then rotate, as shown in Fig. 25-3, A & B.

Note: To balance, insert the notched-end of the lifter in the middle front half of the cooking grid.

2. Insert the rear pointed-end of the lifter between the same two rods (Fig. 25-3, B) and **carefully** lift the cooking grid and place onto the front and rear grid rests of the grill (see Fig. 25-4). Repeat for all other cooking grids.

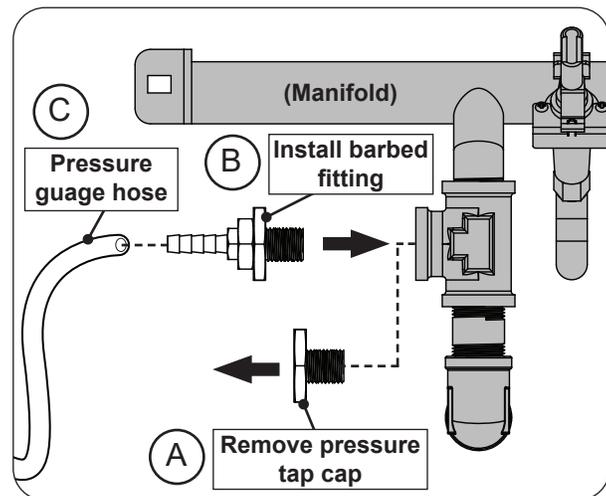


Fig. 25-1 Perform outlet pressure test

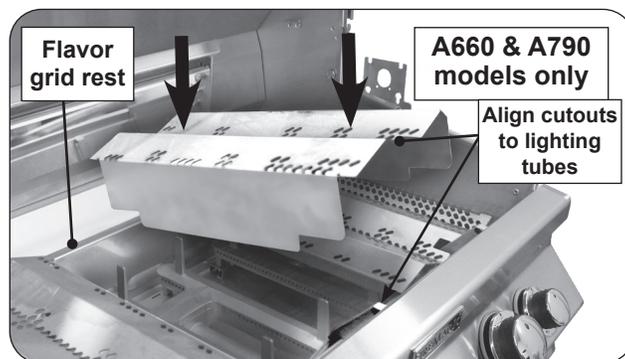


Fig. 25-2 Install flavor grids

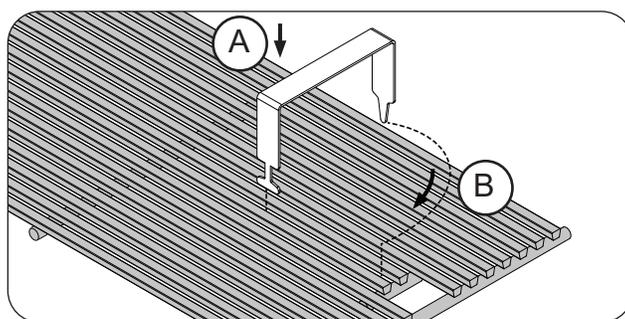


Fig. 25-3 Install cooking grids

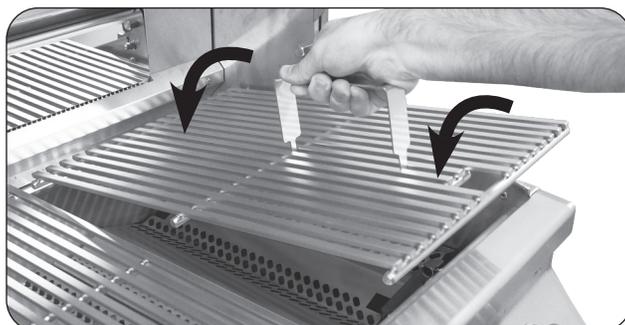


Fig. 25-4 Install cooking grids

INSTALLATION (Cont.)

INSTALL THE DRIP TRAY

Your grill includes a pack of four drip tray liners. Place a liner into the drip tray as shown in Fig. 26-1, and fully insert the drip tray into the bottom front of the control panel.

Note: The liner must fit under the rear lip and two front tabs found on the drip tray.

INSTALL THE WARMING RACK

Note: Wear heat-resistant gloves if necessary.

1. Locate the warming rack hooks and rear supports found on the upper portion of the grill oven (see Fig. 26-2).
2. With the warming rack oriented as shown, carefully rest the rear of the rack onto the rear support plates (Fig. 26-2, A), then rest the warming rack arms onto the two lower hooks for use (Fig. 26-3, B). Use the top hooks for storage (see Fig. 26-2 and Fig. 26-4).

Note: Placing the warming rack in storage position or removing the warming rack before using the rotisserie will leave more clearance for the meat being cooked (if applicable).

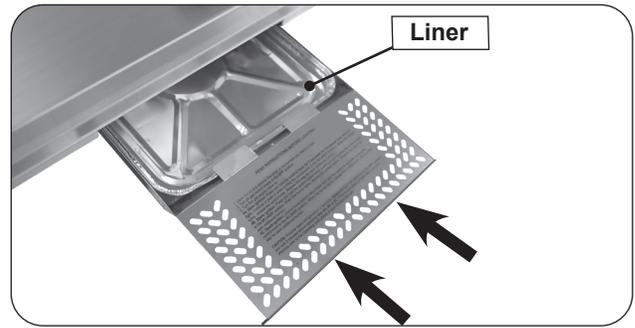


Fig. 26-1 Install drip tray

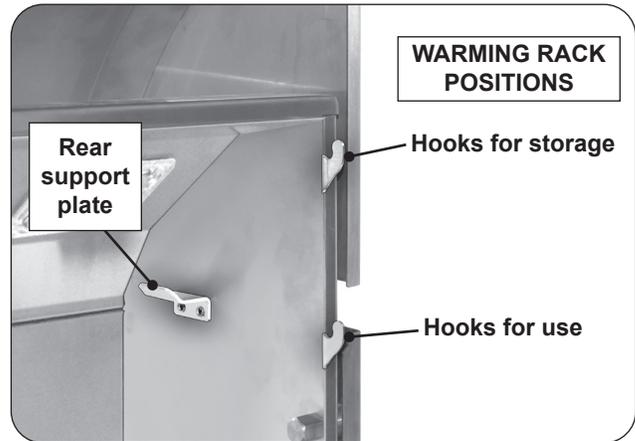


Fig. 26-2 Warming rack hooks

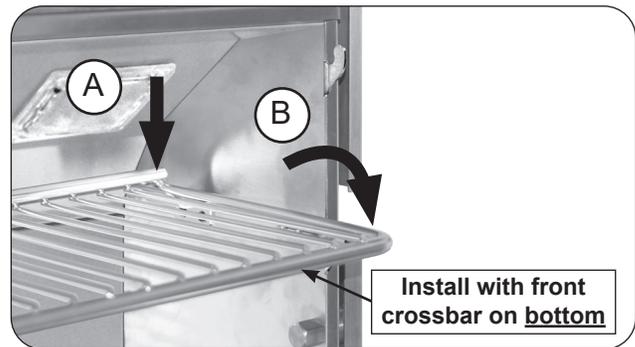


Fig. 26-3 Place warming rack for use

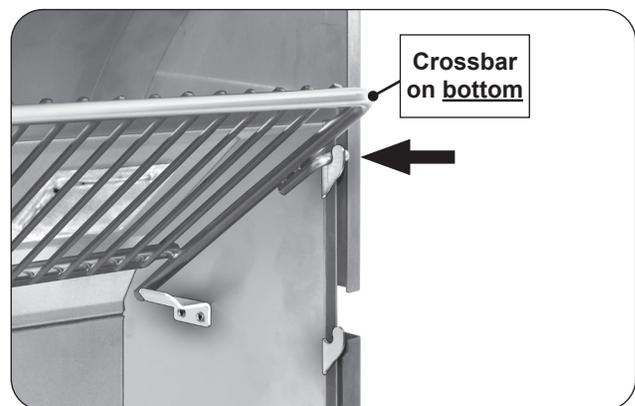


Fig. 26-4 Place warming rack in storage position

OPERATION TEST

After installation, perform an operation test of the grill and its features/accessories. Refer to the following sections for details.

IDENTIFICATION OF GRILL CONTROLS

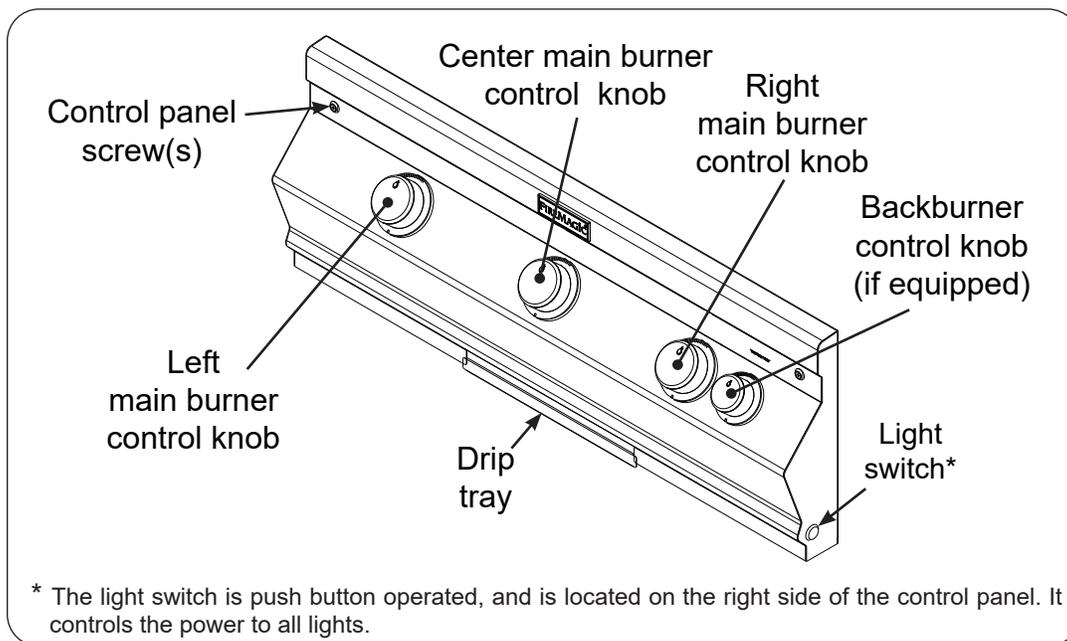


Fig. 27-1 A660i, and A790i controls

USING THE GRILL

BEFORE INITIAL USE

Ensure that:

- the unit has been properly installed and leak tested by a qualified professional service technician and as instructed in this manual.
- you have read and understand all of the information in this manual.

BEFORE EACH USE

Ensure that:

- you smell around the appliance area for gas. If you smell gas (and all control knobs are in the **OFF** position), immediately shut off the gas supply and contact a qualified professional service technician or the gas supplier for inspection.
- the required vent openings and surrounding area of the enclosure are clear at all times.
- the cooking area and drip tray are clean, and the drip tray is properly installed.
- you inspect all piping and hoses for damage, cuts, wear, and tear. Replace any damaged components prior to use.

OPERATION

- **The unit becomes HOT during use. NEVER touch any part of the cooking area or surrounding hot surfaces with bare hands. Use long-handled insulated BBQ tools and wear an insulated glove / oven mitt.**
- **Always keep your face and body as far from the unit as possible during use. Avoid wearing loose-fitting clothing as they could ignite.**
- **This appliance is designed as an attended appliance. DO NOT leave this appliance burning when unattended.**
- **NEVER cover more than 75% of the cooking surface with griddles or pans to prevent overheating.**
- **After each use, turn the control knob(s) to the OFF position and turn off the gas supply to the unit.**

After reading and understanding all bullets above, follow these steps to light and use your grill:

1. Light the grill per the LIGHTING INSTRUCTIONS section.
2. Turn the control knobs to the HI-LIGHT position, close the hood, and allow the grill to preheat for 15 minutes or until desired cooking temperature is reached.
3. Place the food on the grill and cook as desired. Monitor the flames and the temperature, and adjust the heat setting if necessary.
4. See the sections below and the following pages for all other information regarding use.

WIND CONSIDERATIONS

Proper airflow (front-to-back, Fig. 28-1) MUST be maintained for the unit to perform as it was designed. See the INSTALLATION REQUIREMENTS section for details.

When using the unit in windy conditions, the wind can disrupt the airflow and cause overheating. To prevent overheating during windy conditions, do not leave the hood closed with the burners on high for more than 15 minutes.

WARMING RACK

The warming rack can be placed in two positions: the lower hooks are for use and the upper hooks are for storage. Refer to the INSTALLATION section for information on warming rack positioning.

AFTER EACH USE

1. Operate on high with hood closed for 10-15 minutes to burn off all grease.
 2. Turn off the grill and brush the cooking grids to remove all residue.
- CAUTION:** Use long-handled insulated BBQ tools and wear an insulated glove / oven mitt.
3. When the grill is cool, check and clean the drip tray. Then cover the grill.
- Note:** For additional cleaning information, refer to the SERVICING AND CLEANING section.

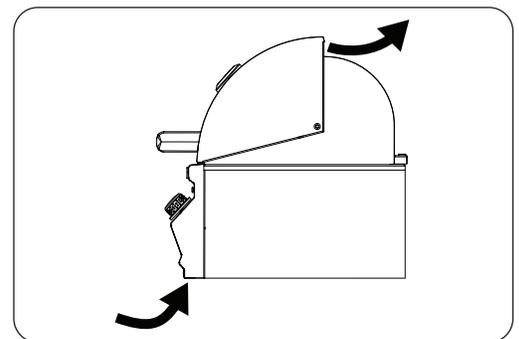


Fig. 28-1 Airflow diagram

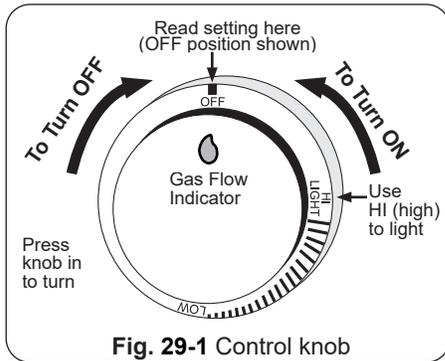
LIGHTING (IGNITION) INSTRUCTIONS

Read all instructions before lighting, and follow these instructions each time you light the unit.

ELECTRONIC LIGHTING

Note: This unit must be connected to 230VAC power for electronic lighting.

1. Open lid(s) or remove cover(s) from burner(s) to be lit.
2. Turn all gas control knob(s) to their **OFF** position(s).
3. Turn on the gas at its source.



Note: DO NOT turn on more than one valve at a time for either electronic or manual lighting.

4. Depress the desired control knob **for 5 seconds**. Ensure the igniter is glowing (inside of lighting tube), then, while pressing turn the knob counterclockwise to the **HI LIGHT** position. Once the burner lights, release the knob.

CAUTION: If a burner does not light within five (5) seconds of turning on the control knob, depress the knob and turn it to the **OFF** position. **WAIT FIVE (5) MINUTES** (for a safe purge) before repeating step 4. If you smell gas, follow the instructions on the cover of this manual. If the burners still do not light after several attempts, refer to the instructions for manual lighting.

5. Repeat step 4 for each additional burner to be lit.

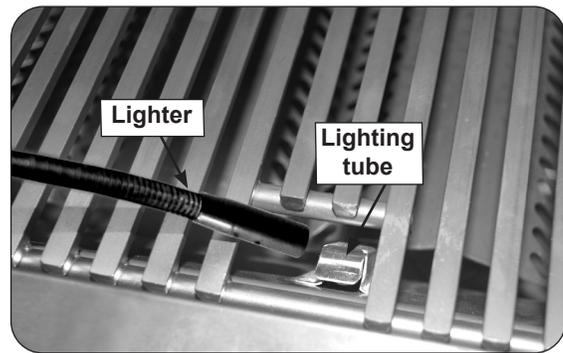
WHEN USING A PORTABLE PROPANE CYLINDER

Propane cylinders are equipped with a safety shutdown device that may cause low or no gas pressure/flare at the burners if operating and lighting instructions are not followed exactly (See important note in the TROUBLESHOOTING section for more details.)

MANUAL LIGHTING

CAUTION: Always wait five (5) minutes for gas to clear after any unsuccessful lighting attempt.

1. Follow steps 1 through 3 (left).
2. Insert either a burning long-barrel butane lighter or a burning long-stem match through the cooking grid opening to the top of the lighting tube (see Fig. 29-2). For backburners, hold the flame against the surface of the backburner.
3. Hold the match / lighter flame at the top of the lighting tube **for 5 seconds**, or, against the backburner. Then depress the appropriate control knob and while pressing turn it counterclockwise to the **HI LIGHT** position. Remove the lighter or match when the burner lights, and release the control knob.
4. If the burner does not light within five (5) seconds of turning the control knob, **immediately depress the knob and turn the valve to OFF**. **WAIT FIVE (5) MINUTES** before repeating steps 2 through 4 of the MANUAL LIGHTING instructions.



SHUTTING OFF THE UNIT

To shut off the unit, depress each valve control knob and while pressing turn it clockwise to the **OFF** position.

Always close the valve from the gas supply after each use of the unit.

For your convenience and safety, when the control knob is turned to the on position, the gas flow indicator will change from blue to red. (Red indicates gas flow.) See Fig. 29-1.

OPTIONAL ROTISSERIE

CAUTION: WHEN USING THE BACKBURNER; KEEP THE OVEN LID CLOSED TO PREVENT HEAT LOSS, PROVIDE PROPER CONVECTION, AND PROVIDE PROPER VENTING. THIS WILL ENSURE EVEN COOKING TEMPERATURES.

DO NOT KEEP YOUR OVEN LID OPEN DURING ROTISSING, AS THIS MAY CAUSE PERSONAL INJURY, OR IN SOME CASES, IN WINDY CONDITIONS, DAMAGE TO THE GRILL.

DO NOT USE THE ROTISSERIE MOTOR IN THE RAIN. DO NOT LEAVE THE MOTOR ON THE GRILL WHEN NOT IN USE.

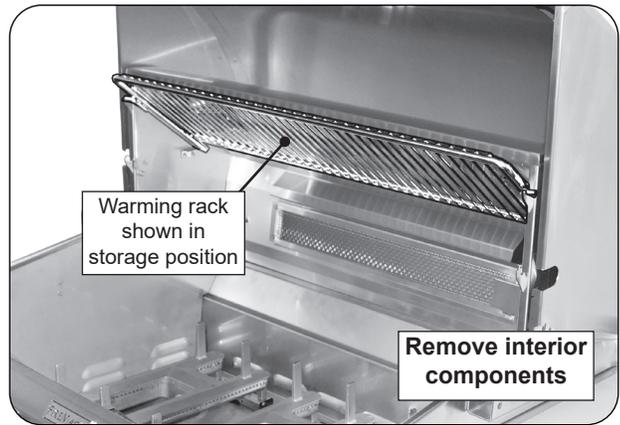


Fig. 30-1 Prepare grill for rotissing

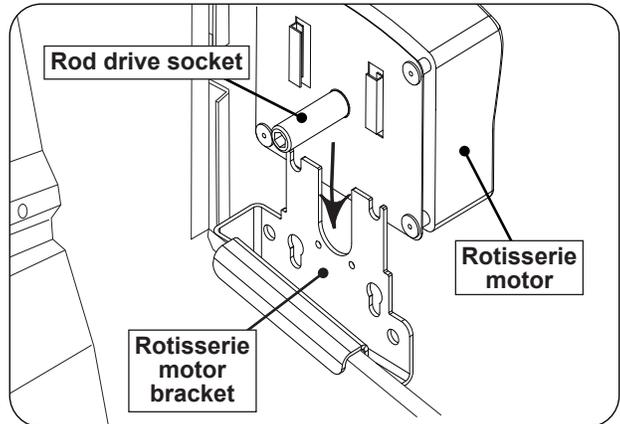


Fig. 30-2 Install rotisserie motor

1. Set the warming rack to storage position, remove the backburner cover and cooking grids (see Fig. 30-1).

Note: Remove the flavor grids only if large meats need clearance. The warming rack may also be removed if needed.

2. Slide the rotisserie motor fully onto the motor bracket located on the right side of the grill (see Fig. 30-2) and connect it to a power source (do not turn on).
3. Remove the rotisserie rod from the grill rear bracket and attach handle if necessary. Clean the rod if needed.
4. Slide the left meat holder onto the rod and tighten (see Fig. 30-3, A).
5. Then slide meat onto the rod, followed by the right meat holder (see Fig. 30-3, B and C).
6. Slide the meat into the left holder, then the right holder into meat. Tighten the right meat holder. Be sure the meat is centered and balanced as well as possible, and the holders have a good grip on the meat.

7. Hold both ends of the rod so it settles freely (do not grip tightly). Allow the rod to rotate until the heavy side of the meat rests downward.
8. The counterbalance may then be attached to even weight distribution. Slide the counterbalance onto the rod next to the right meat holder (see Fig. 30-3, D). Loosen the arm and point it upward opposite the heavy side of the meat. Tighten the arm.
9. Slide the counterbalance weight up or down the arm until the rod rotates most evenly then tighten thumb screw (see Fig. 30-3, D).
10. Insert the pointed-end of the rod into the motor drive socket (see Fig. 30-4, E). Then rest rod groove (next to the knob) into the left support bracket (see Fig. 30-4, F).
11. To keep meat drippings off the burners and to simplify cleanup, place Fire Magic drip tray liners under the meat, if desired.

12. Press the motor power switch to start.

13. Light the backburner per the lighting instructions in this manual (or on drip tray handle) and close the oven lid.

Important: Turn the backburner to low or off when stopping the rotisserie to prevent overcooking.

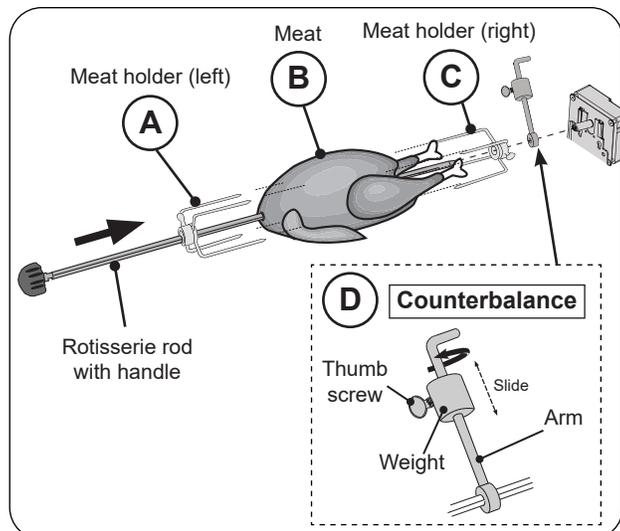


Fig. 30-3 Assemble rotisserie rod for cooking

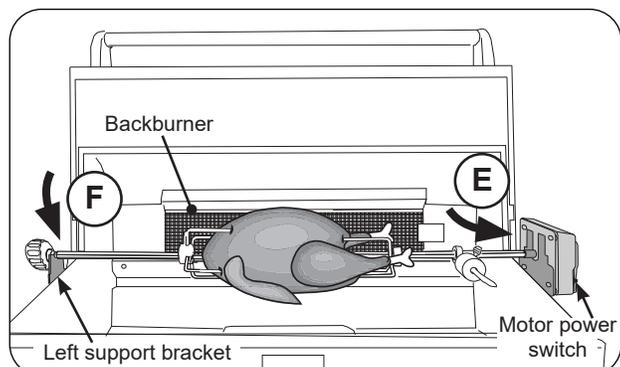


Fig. 30-4 Attach Rotisserie rod to motor

SERVICING AND CLEANING

Your grill requires regular cleaning and maintenance. Refer to these instructions for details. Performing these procedures will ensure proper operation, appearance, and safety.

WARNINGS

- Prior to servicing or cleaning make sure the unit is completely cool, the control knobs are turned to the OFF position, the gas supply is shut off, the light switch is off, and the power supply is disconnected (as applicable and unless otherwise stated).
- Wear appropriate gloves and safety glasses during any servicing or cleaning.
- DO NOT spray any cleaner or liquids on the grill when hot.
- The grill **MUST** be cleaned regularly to prevent grease build-up and other food deposits. A clean and well maintained grill prevents the risk of grease build-up and grease fires.
- Verify proper operation after servicing or deep cleaning.
- See INSTALLATION, OPERATION, AND SAFETY INFORMATION section for additional related information.

CLEANING YOUR GRILL

Before Each Use

1. **Inspect and clean the exterior surfaces of the unit:** With a cool grill, clean any dust, grease, splatter, or spills as needed with a damp clean cloth.

After Each Use

1. **Perform a burn-off and clean the cooking grids:** Operate the grill on high with the hood closed for 15 minutes to burn-off food and grease and allow for an easier cooking grid clean. Then turn OFF the grill and use a grill brush to clean the cooking grids of all residue. Use long-handled insulated BBQ tools and wear an insulated glove / oven mitt.
2. **Check and clean your drip tray:** When the grill is cool, carefully remove the drip tray and dispose of contents appropriately. If tray is equipped with a liner, dispose of the liner. Clean tray in a soapy water solution if needed. For tough deposits, a copper pad can be used. Rinse and dry completely. Replace a new liner and insert the tray back into the grill. Order more drip tray liners through your local dealer.
3. **Cover your grill:** Once the grill is dry and cool, cover your grill with a Fire Magic protective cover (not included).

Twice A Year (or as needed) - Deep Clean

1. **Interior of grill:** In addition to cleaning the cooking grids and drip tray, a deep clean of the interior of the grill, burners, and all components **MUST** be performed twice year (or as needed depending on use). Refer to the CARE, CLEANING, & MAINTENANCE GUIDE provided with your grill, or simply scan the QR code on the right.



Important: The burner ports and carry-over ports/slots **MUST** be kept clean to ensure proper ignition and operation. The guide provides all details on cleaning.

2. **Exterior of grill:** With a cool grill, use a grill cleaner (or a soapy water solution) and a clean cloth to remove grease and dirt from the outside of the grill. For tough deposits, a copper pad can be used. Always wipe with the grain. Rinse and dry completely. Then follow up with a stainless steel cleaner and a clean cloth. To clean the magic view window (if equipped), use a quality brand glass cleaner. **DO NOT** use other cleaners or chemicals.

If this routine cleaning is not performed, the stainless steel may become dull and develop surface rust (due to use and atmospheric conditions). If left uncleaned, significant damage and pitting may occur.

Important: **DO NOT** use steel wool, any other metal tools, or any other cleaners/chemicals to clean the exterior other than recommended above. Such items promote rust.

Note: Due to the nature of stainless steel, temperatures produced by the grilling process will cause discoloration. This can be reduced by routine cleaning.



Fig. 31-1 Wipe with grain

SERVICING AND CLEANING (cont.)

For Environments High In Salt, Chloride, Or Other Corrosive Chemicals

When this grill is installed in a corrosive environment such as near the ocean (salt air), poolside (chlorine and/or pool chemicals) or any other location with exposure to high salt/chloride content or corrosive chemicals/solutions, it will be more susceptible to corrosion and **MUST** be maintained/cleaned **more frequently**.

- **DO NOT** store any corrosive chemicals (chlorine, hydrochloric acid, fertilizer, etc.) near your stainless steel grill.
- **DO NOT** allow any corrosive materials (masonry dust, debris, etc.) to settle on your stainless steel grill.
- These environments, chemicals, and materials may cause the 304 stainless steel to develop surface rust and consequently pitting. Under these conditions the grill exterior **MUST** be cleaned at least monthly. Inspect your grill often and clean accordingly.

Protecting Your Grill

An optional Fire Magic protective cover will protect your grill when not in use. Install the cover on a cool and dry grill. **DO NOT** cover a damp grill. During high humidity or after rainy conditions, remove the cover to dry trapped moisture if present. (If the cover is installed over a damp grill it can cause surface rust.)

Ensure that the **INSIDE** of the cover is DRY before putting it back on the grill.

U.L.P.G. Cylinder Test Date Status

Routinely inspect the gas cylinder to check the test date status.

SERVICING AND CLEANING (Cont.)

REPLACING HALOGEN BULBS

Your grill is engineered with the conveniences of electrical power for illuminating and igniting the grill.

To replace any interior oven light, follow the instructions below.

Important: ONLY REPLACE WITH 12V / 10 WATT HALOGEN BULB(S).

WARNING

To protect from potentially sharp sheet metal and glass, wear gloves and safety glasses during this procedure.

1. Turn all burner control knobs to the **OFF** position and shut off the gas supply to the grill at the source.
2. Disconnect supply of external electrical power to the grill.

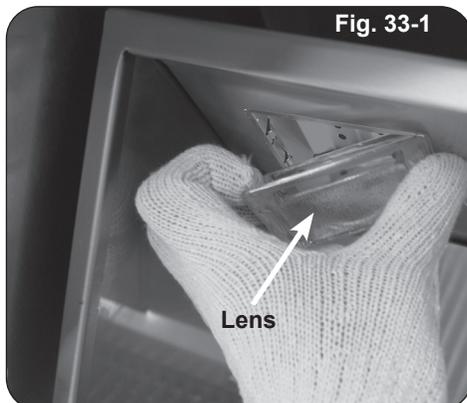
CAUTION: Wait for the grill, oven, lens, light bulb, and fixture to cool before proceeding to the next step.

3. Open the oven lid.

Important: Place one hand directly below the glass lens and prepare to catch it when it is detached.

4. Carefully insert a standard flat head screwdriver or thin plastic spatula between the glass lens and the stainless steel on which the light is mounted and gently pry the glass lens out in such a way that the stainless steel is not scratched (twisting the screwdriver handle, for instance). Catch the lens and set it safely aside.

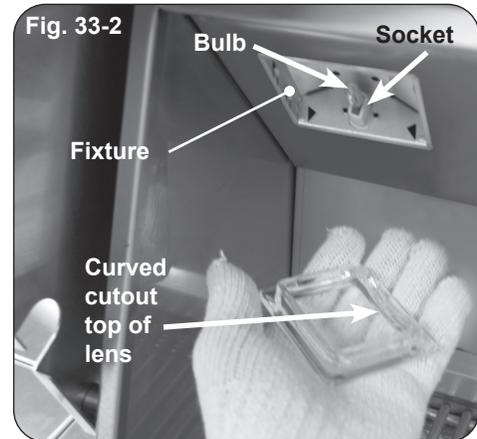
Note: You may wish to take this opportunity to clean the lens with a standard household window cleaner and then dry it completely.



5. Wearing a pair of gloves, reach into the fixture, gently grab the bulb, and pull it straight out of the fixture so that the two pins at the base of the bulb come all the way out.

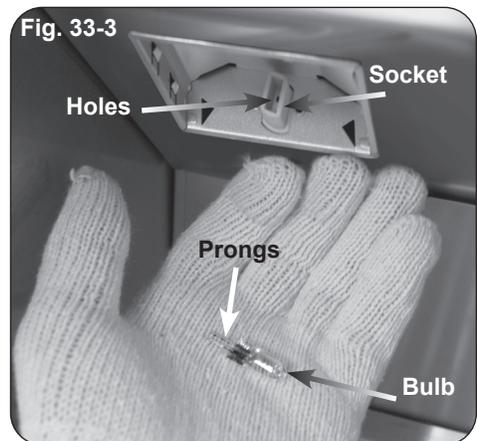
Important: Bulb is halogen. DO NOT TOUCH with bare hands. Oils from hands drastically reduce bulb life.

Note: It may be helpful to rock the bulb gently backward and forward while pulling it out.



6. Inspect the old bulb for broken glass or filament.

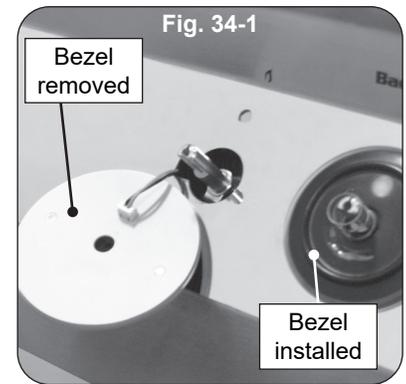
Note: It may be beneficial to test a suspect bulb in one of the other light fixtures known to be working and turn the power back on to be certain the bulb is actually not working.



7. Insert the new **12V / 10 watt** halogen bulb into the socket so that both pins slide all the way into the two holes in the bottom of the socket.
8. Place the lens back into the fixture opening with the curved cutout on the bottom and snap it back into place.

CONTROL PANEL REMOVAL

1. Turn the control knob(s) to the OFF position and turn off the gas supply to the unit.
2. Turn off the light switch and disconnect the power supply from the power source.
3. Pull the control knob(s) from the stems and set aside.
4. Slowly lift the lighted bezels to clear the valve stems, and let rest as shown in Fig. 34-1.
5. Remove the drip tray.



6. Using a Phillips screwdriver, unscrew and remove the control panel fastener screws and washers (located on the left and right front face of the control panel). Retain the screws for later re-installation.
7. Carefully open the control panel by lifting and pulling the control panel from the frame, allowing it to rest on the internal chain(s).

Important: When opening, take caution to not damage any wiring.

8. If wire disconnections are required, reference the wire diagram in the MODEL SPECIFICATIONS section in this instruction manual or the wire diagram label affixed to the inside of the control panel.

Note: Secure any disconnected wires (coming from the inside of the unit) to prevent them from falling in.

Note: Whenever reconnecting any wires, apply a small amount of dielectric grease to the male connector, then make the connection. This will ensure conductivity and prevent moisture from affecting the contact.

Important: During reinstallation; prior to opening the gas shut-off valve, be sure the control knob(s) are in the OFF position.

SYSTEM RESET

If the unit is connected to the power supply but the ignition system and grill components are not functioning, the power supply is likely to be in "protection mode" and a system reset will need to be performed.

1. Ensure the knobs are in the OFF position, the gas supply is turned off, and the light switch is off.
2. Disconnect the harness from the power supply (see Fig. 35-1, A).
3. Disconnect the power supply from the power source. (see Fig. 35-1, B).
4. Check/replace any harnesses as needed.
5. Ensure the power GFCI/RCD breaker is reset.
6. Reconnect the power supply to the power source, then connect the harness to the power supply.
7. Test all components.

Note: The green LED light on the power supply indicates it is working properly.

MAIN BURNER REMOVAL

1. Remove the cooking grid and flavor grid from above the burner that is to be removed and set them aside.
2. Locate and remove the cotter pin from the left or right rear burner anchoring peg by pulling it straight out of the cotter pin hole using fingers or needle-nose pliers. See Fig. 35-2.
3. Carefully lift the burner from the burner support and out from the hole in the forward fire wall. See Fig. 35-3.
4. To replace the burner, slide the open cylindrical end of the burner around the injector, enveloping it and centering on it. Then lower the back end anchor pegs into the burner support anchor peg holes.

Note: It is critical to the continued safe functioning of the burners that the injectors are centered and completely inside the burner gas inlets.

5. Re-install the cotter pin into the rear burner anchor peg using fingers or needle-nose pliers.
6. Replace the flavor grid and cooking grid.
7. Repeat these steps for the other burner(s), if needed.

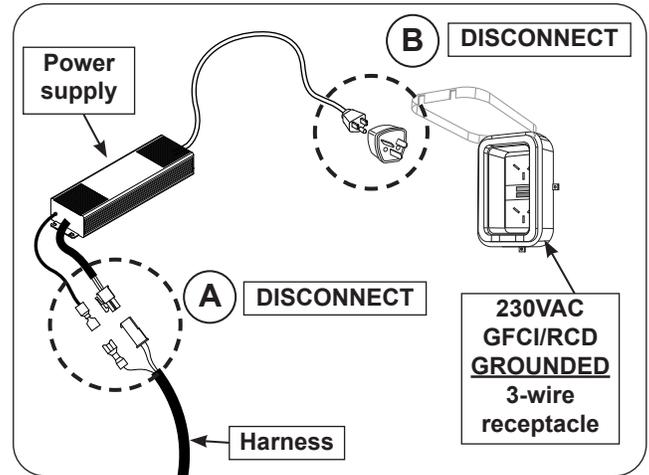


Fig. 35-1 Perform system reset

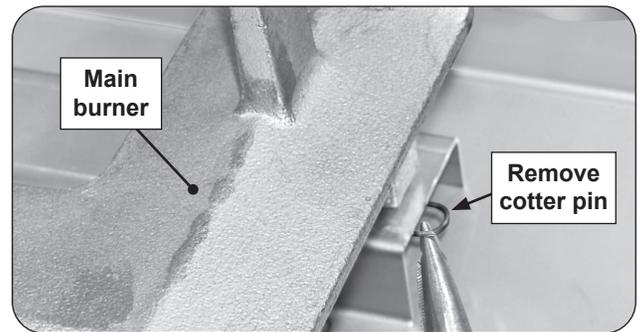


Fig. 35-2 Remove cotter pin

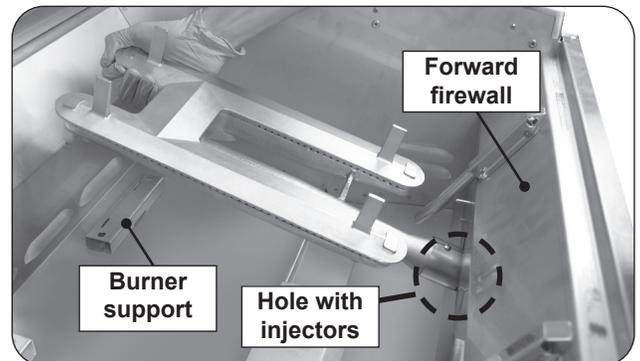


Fig. 35-3 Remove main burner

AIR SHUTTER ADJUSTMENT / BURNER FLAME INSPECTION

Important: Air shutters are preset at the factory (see Table 2 in MODEL SPECIFICATIONS). However, altitude, or other local conditions may make it necessary to adjust the air shutters.

Note: Backburner air shutters are not adjustable.

Note: To verify proper settings, the flames of the burners should be visually checked for proper flame appearance and behavior. Light the grill with the burner(s) on HI setting. Allow at least 2 minutes to burn. See below and Fig. 36-1. The flames should:

- be blue and stable with little to no yellow tips
- burn quietly, and appear to touch the burner

If the flames appear unstable, yellow, noisy, or lift away from the burner, locate the appropriate section for your burner type, and follow the steps.

Main Burner

Begin with a completely cool unit. Remove the burners (see BURNER REMOVAL section). First ensure the burner injector, ports, venturi tubes, and air shutter are all clear of any insect or insect nests. If they are blocked, clean them, reinstall the burners, and reinspect the flames. If adjustment is still needed, **allow the unit to cool**, remove the burner, and proceed to the steps below.

1. To adjust the air shutter, loosen the adjustment screw with a Phillips screwdriver. Then slide the shutter to open or close it. See Fig. 36-2 for details.
 - Begin with the appropriate factory setting for your model (see Table 2 if needed).
 - If the flames were excessively yellow (insufficient air), open the shutter to allow more air to the burner. If the flames were noisy and lifting off the burner in some areas, close the shutter to allow less air to the burner. Adjust accordingly.

Note: Make minimal adjustments. Very small changes result in major changes in flame appearance.

2. Reinstall the burner, light the grill with the burner on HI, and observe the flames. If needed, allow the grill to completely cool, and repeat the adjustment process until the proper flame is achieved.
3. Once finished, allow the unit to completely cool, remove the burner, and tighten the adjustment screw. Reinstall the burner.
4. Repeat for all other main burners as needed.
5. Reinstall all other components that were removed.

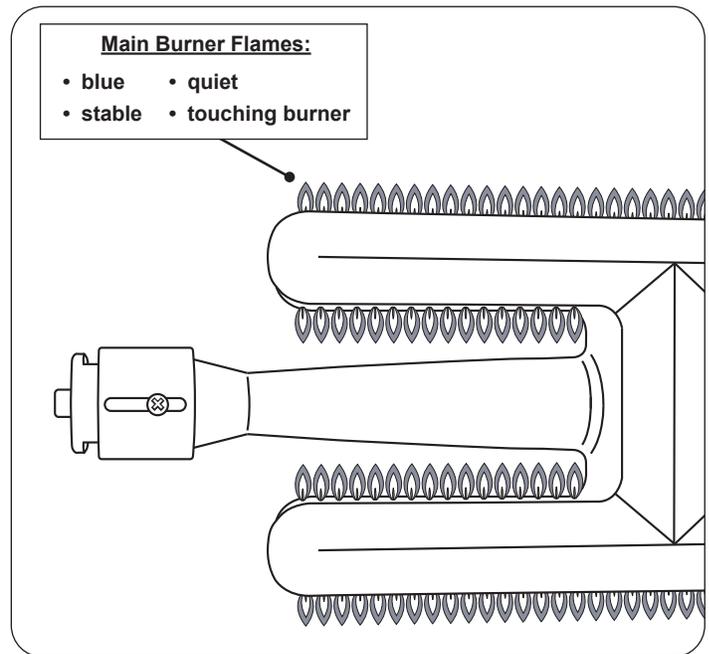


Fig. 36-1 Proper flame appearance

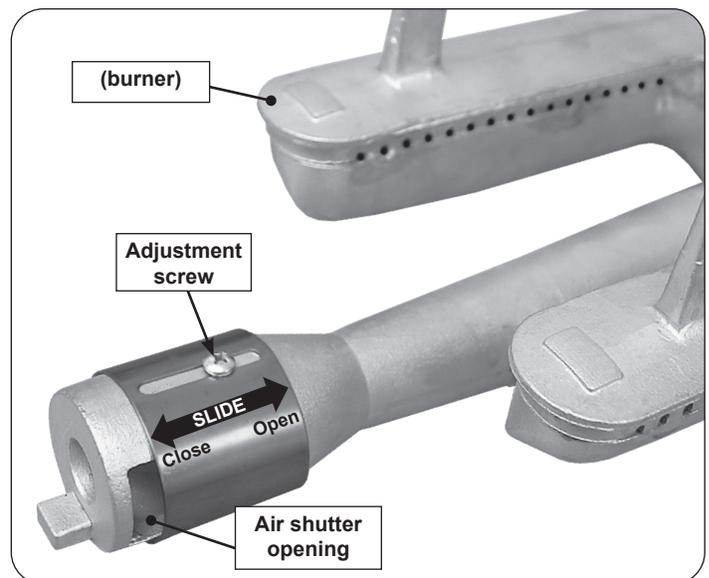


Fig. 36-2 Main burner air shutter adjustment detail

VALVE "LOW" SETTING ADJUSTMENT

Stability of the "low" setting on all burners may vary due to wind direction, appliance configuration, and position. If your burner goes out when set on low, the valve "low" setting needs adjustment.

Note: Adjustments MUST only be performed by a qualified professional service technician.

To adjust the valve "low" setting:

1. Ensure the unit is completely cool and the knobs are in the OFF position.
2. Remove the cooking grids and flavor grids.
3. Light the burner on HIGH, then turn the burner to LOW setting. While the burner is lit, remove the control knob from the valve.
4. Locate the FLATHEAD adjustment screw found inside the valve stem (see Fig. 37-1).
5. Using a flathead screwdriver, slowly turn the adjustment screw a little at a time (30° to 45°) in either direction. Adjust the screw as needed until the flame is approximately .64 cm in height from all the burner ports, and the flames are stable.
6. Once the appropriate setting is reached, re-install the control knob and shut off the burner valve.
7. Repeat this procedure for other burner valves, if needed.
8. Re-install the flavor grids, cooking grids, and any other components that were removed.

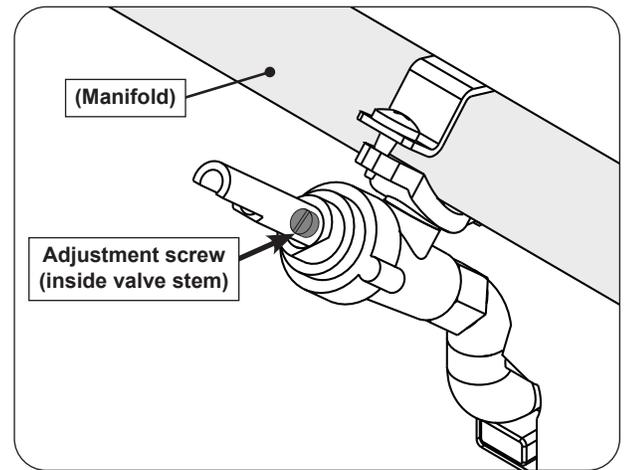


Fig. 37-1 Valve adjustment screw location

Please use this page to record any information about your unit that you may want to have at hand.

TROUBLESHOOTING

If you have trouble with the unit, please use this list to identify the problem. By trying one or more of the solutions to the possible cause, you should be able to solve the problem. If this list does not cover your present problem, or if you have other technical difficulties with the unit, please contact your local dealer.

PROBLEM	POSSIBLE CAUSE	CORRECTION
Ignition system failure	<ol style="list-style-type: none"> 1. Power supply failure 2. Improper air shutter adjustment 3. Ignition wire disconnected 4. Low gas pressure 5. Front carry-over ports clogged 6. Igniter switch malfunction on valve 7. Igniter malfunction 	<ol style="list-style-type: none"> 1a. Power supply in protection mode - perform system reset: Disconnect harness from power supply, then power supply from power source. Check/replace harnesses as needed. Ensure power GFCI/RCD breaker is reset. Reconnect power supply, then harness extension. Test grill components. If still not working, replace power supply. Green LED light on power supply indicates it is working properly. 1b. Replace power supply. 2. Adjust air shutters. 3. Reconnect wires into wire harness. 4. Have the gas co. check supply pressure. 5. Clean burner ports. 6. Contact dealer for replacement. 7. Contact dealer for replacement.
Insufficient heat / low flame	<ol style="list-style-type: none"> 1. Burner ports clogged 2. Improper air-shutter adjustment 3. Using propane injectors for natural gas 4. Low gas pressure/flame (propane) 5. Low gas pressure/flame (natural) 6. U.L.P.G. regulator hose stuck/damaged 	<ol style="list-style-type: none"> 1. Clean burner ports. Burner maintenance kit available, see MODEL SPECIFICATIONS section. 2. Adjust air shutters. 3. Check/change injectors. 4. Shut off all valves, including propane cylinder, and follow lighting instructions exactly. (See important note* below.) 5. Have a qualified professional service technician check for proper gas supply, setup, and pressure. 6. Replace U.L.P.G. regulator hose
Uneven heating	<ol style="list-style-type: none"> 1. Burner ports partially blocked by debris 2. Small spiders or insects in burner 3. Improper air shutter adjustment 	<ol style="list-style-type: none"> 1. Remove burners and clean out ports. 2. Inspect burners and injectors for spider webs or other debris that may block flow. 3. Adjust air shutters.
Rotisserie noisy	<ol style="list-style-type: none"> 1. Rotisserie out of balance 	<ol style="list-style-type: none"> 1. Adjust rotisserie counterbalance.
Burner goes out on LOW	<ol style="list-style-type: none"> 1. Valve "Low" setting needs adjustment 	<ol style="list-style-type: none"> 1. Light burner on HIGH, immediately turn to LOW setting. Remove knob from valve and using a small flat screwdriver, slowly turn the adjustment screw in the stem, a little at a time (30° to 45°), in either direction, until the flame is approximately .64 cm in height from burner ports.
Interior oven lights and knob lights not operating	<ol style="list-style-type: none"> 1. Light switch not functioning 2. Interior or knob lights burned out 3. Power supply failure 	<ol style="list-style-type: none"> 1. Re-connect external power to grill or contact dealer for replacement. 2. Contact dealer for replacement. 3. See 1a of Ignition system failure section above and/or replace power supply.
No power to grill	<ol style="list-style-type: none"> 1. Input power source failure 2. Power supply failure 	<ol style="list-style-type: none"> 1. Check GFCI/RCD circuit breaker. 2. See 1a of Ignition system failure section above and/or replace power supply.

*** Important:** Propane cylinders are equipped with a safety shutdown device that may cause low or no gas/flame at the burners if operating and lighting instructions are not followed exactly. **If you suspect the propane cylinder safety shutoff is in effect:** 1) Shut off all grill valves. 2) Shut off cylinder valve. 3) Open and close a main burner valve. 4) Open cylinder valve. 5) Follow the LIGHTING INSTRUCTIONS. Lighting instructions are located in the owner's manual and printed on the unit's metal drip tray. If the problem persists, continue troubleshooting, or contact your local dealer or distributor for assistance.

WARRANTY

PETERSON FIRE MAGIC GRILLS AND ACCESSORIES INTERNATIONAL LIMITED WARRANTY

Robert H. Peterson Co. ("RHP") warrants your Fire Magic grill to be free from defects in material and workmanship.

Fire Magic cast stainless-steel gas burners, cooking grids, and Barbecue housings are warranted **as long as the original purchaser owns them -- LIFETIME.** (Except as described below.)

Fire Magic brass valves, manifold assemblies, inner liners, porcelain housings (including ovens and barbecue faces), and **backburner assemblies** (except ignition parts) are warranted for **FIFTEEN (15) YEARS.**

Fire Magic Infra-red burners, flavor grids, and Charcoal stainless steel grills are warranted for **FIVE (5) YEARS;** except for the charcoal pan, charcoal grid, thermometer, and ash catch tray; which are warranted for **ONE (1) YEAR.**

Fire Magic sideburners and all other grill components (except ignition systems and electronic parts) are warranted for **THREE (3) YEARS.**

Fire Magic ignition systems (excluding batteries), electronic components (including lights and thermometers), and grill accessories are warranted for **ONE (1) YEAR.**

A COPY OF YOUR SALES SLIP FOR PROOF OF PURCHASE IS REQUIRED

This warranty applies to the original purchaser for products which are installed outside the United States or Canada and which are operated and maintained as intended for single family residential usage. This warranty is valid only with proof of purchase, commences on the date of purchase, and terminates (both as to original and any replacement products) on the anniversary date of the original purchase of the product per the above schedules.

This warranty covers defects in material and workmanship. This warranty **does not** cover parts which become defective as a result of negligence, misuse, use not in compliance with the Installation and Owner's Manual, accidental damage, improper handling, improper storage, improper installation, **lack of required routine maintenance** (as specified in the Installation and Owner's Manual), electrical damage, local gas impurities or failure to protect against combustibles. Product must be installed (and gas must be connected) as specified in the Installation and Owner's Manual by a **qualified professional installer.** This warranty **does not** apply to rust, corrosion, oxidation, or discoloration unless the affected part becomes inoperable. Peterson products including valves, pilots and controls, are designed and certified to be used as a system. Modifications to products which are not specifically authorized will void this warranty and could render the product to be unsafe. Burners, valves, parts, accessories, remotes, etc. used with this product must be Peterson products or this warranty is void.

Warrantied items will be repaired or replaced at Peterson's sole discretion. This warranty **does not** cover labor or labor related charges, except as provided by separate specific written programs from the Peterson Co. All repair work must be performed by a qualified professional service person and requires prior approval of Peterson.

This warranty does not cover breakage in shipment from our independent distributor to its customer if the damage is determined to have occurred during that shipment.

This warranty specifically excludes liability for **indirect, incidental,** or consequential damages.

For additional information regarding this warranty, or to place a warranty claim, contact the R. H. Peterson dealer where the product was purchased.

When contacting your Peterson dealer or the R. H. Peterson Co., please provide the following information:

- Your name, address, telephone number, e-mail
- Sales receipt showing where purchased and date purchased
- Model number, serial number of product, date code
- Relevant information: installer, additions, repairs, when defect was first noted

**TO REGISTER YOUR PRODUCT ONLINE GO TO: WWW.RHPETERSON.COM,
AND CLICK ON PRODUCT REGISTRATION. THANK YOU FOR YOUR PURCHASE.**

Quality Check			Date: _____		
Burner Injectors	Nat.	U.L.P.G.	Leak Test: _____	Model#: _____	
Main:	_____	_____	Burn Test: _____	Serial#: _____	
Back:	_____	_____	Gas Type: <u>Nat. / U.L.P.G.</u>	Air Shutter: _____	
Side:	_____	_____		Inspector: _____	
Other:	_____	_____			