GrillandPatio.com | 866-688-4647

AOG
AMERICAN OUTDOOR GRILL

PORTABLE OUTDOOR GAS GRILLS

24, 30, & 36 "L" Series

INSTALLATION INSTRUCTIONS AND OWNER'S MANUAL

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

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

WARNINGS AND SAFETY CODES

⚠ DANGER:

IF YOU SMELL GAS:

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

⚠ WARNING:

1. Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
2. An LP 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.

CODE AND SUPPLY REQUIREMENTS: This grill must be installed in accordance with local codes and ordinances, or, in the absence of local codes, with the latest National Fuel Gas Code (ANSI Z223.1/NFPA 54), or Natural Gas and Propane Storage and Handling Installation Code (CSA-B149.1).

This appliance and its dedicated manual shutoff valve must be disconnected from the gas-supply piping system when testing the system at pressures in excess of ½ psig (3.5 kPa).

This appliance must be isolated from the gas-supply piping system by closing its dedicated manual shutoff valve during any pressure testing of the gas-supply system at pressures up to and including ½ psig (3.5 kPa).

All electrical outlets in the vicinity of the grill must be properly grounded in accordance with local codes, or, in the absence of local codes, with the *National Electrical Code, ANSI/NFPA 70,* or the *Canadian Electrical Code, CSA C22.1,* whichever is applicable.

Keep all electrical-supply cords and fuel-supply hoses away from any heated surface.

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

PFS® C US 09-06

Certified to: **ANSI Z21.58-2015**
CSA 1.6-2015

INSTALLATION INSTRUCTIONS ET MANUEL DU PROPRIÉTAIRE

GRIL EXTÉRIEUR DE GAZ DU PORTABLE

IMPORTANT: LISEZ CES INSTRUCTIONS SOIGNEUSEMENT AVANT DE COMMENCER L'INSTALLATION OU L'UTILISATION

SÛRETÉ ET CODES D'AVERTISSEMENT

⚠ DANGER:

SI VOUS SENTEZ LE GAZ :

1. Coupez le gaz à l'appareil.
2. Éteignez-vous n'importe quelle flamme nue.
3. Ouvrez le couvercle.
4. Si l'odeur continue, gardez loin de l'appareil et appelez immédiatement votre département de fournisseur ou de feu de gaz.

CONDITIONS DE CODE ET D'APPROVISIONNEMENT: Ce gril doit être installé selon des codes et des ordonnances locaux, ou, en l'absence des codes locaux, avec l'un ou l'autre le plus défunt *Code national de gaz de carburant* (norme ANSI Z223.1/NFPA 54), et *Stockage de gaz naturel et de propane et manipulation du code d'installation* (CSA-B149.1).

Cet appareil et ses différents robinets d'isolement doivent être démontés du gaz-fournissent le système sifflant en examinant le système aux pressions au-dessus du ½ psig (kPa 3.5).

Cet appareil doit être isolé dans gaz-fournissent le système sifflant par fermeture que ses différents robinets d'isolement manuels pendant tous les essais sous pression du gaz-fournissent le système aux pressions jusques et y compris le ½ psig (kPa 3.5).

- Ce gril est pour ultilisation à l'extérieur seulement. Si l'appareil est entreposé à l'intérieur, enlever les bouteilles et les laisser à l'extérieur.
- Ne pas ranger le gril immédiatement aprés l'avoir utilisé. le laisser refroidir avant de le déplacer ou de la ranger. Le non respect de cette mesure de sécurité pourrait entraîner un incendie causant des dommages à la propriété, des blessures ou la mort.
- Ne pas utiliser cet appareil sous une surface combustible.
- Ne pas utiliser cet appareil sous un auvent. Le non respect de cette mesure de sécurité pourrait entraîner un incendie ou des blessures.
- Dégagement minimal entre les parois latérales et l'arriére de l'appareil et la construction combustible (45.7 cm à partir des parois latérales et 45.7cm à partir de l'arriére).
- Le régulareur de pression de gaz prévu avec cet appareil de cuisson à gaz pour l'extérieur doit être utilisé. Ce régulateur est réglé pour une pression de sortie de 5 pouces de colonne de l'eau pour le gaz naturel, et 10 pouces pour le propane.
- LE RÉGULATEUR INCLUS D'APPAREILS EST ÉVALUÉ POUR LE MAXIMUM DE 1/2 (LIVRES PAR POUCE CARRÉ). SI VOTRE OFFRE DE GAZ EST 1/2 PLUS GRAND QUE (LIVRES PAR POUCE CARRÉ), UN RÉGULATEUR ADDITIONNEL DOIT ÊTRE INSTALLÉ AVANT LE GRIL. VOIR LA SECTION DE CONDITIONS

⚠ AVERTISSEMENT:

1. Ne stockez pas ou n'employez pas l'essence ou d'autres vapeurs et liquides inflammables à proximité de ceci ou d'aucun autre appareil.
2. Un cylindre de propane non relié pour l'usage ne sera pas stocké à proximité de ceci ou d'aucun autre appareil.

⚠ AVERTISSEMENT:

L'installation inexacte, l'ajustement, le changement, le service, ou l'entretien peuvent causer des dommages ou des dégats matériels. Référez-vous à ce manuel. Pour de l'aide ou des renseignements supplémentaires, consultez un technicien professionnel qualifié de service, une agence de service ou le fournisseur de gaz.

Toutes les sorties électriques à proximité du gril doivent être correctement fondues selon des codes locaux, ou en l'absence de local code, avec le code électrique national, ANSI/NFPA 70, ou le code électrique canadien, CSA C22.1, celui qui est applicable.

Maintenez tout électrique-fournissent des cordes et carburant-fournissent des tuyaux partis de n'importe quelle surface de chauffage.

D'OFFRE DE GAZ POUR LA PRESSION APPROPRIÉE D'OFFRE DE GAZ.

- Ne couvrez jamais la surface entière de cuisine ou de gril de gauffreuses ou de casseroles. La surchauffe se produira et les brûleurs ne seront pas très performants quand la chaleur de combustion est emprisonnée au-dessous de la surface à cuire.
- Ne pulvérisez jamais l'eau sur une unité chaude de gaz, comme ceci peut endommager des composants de porcelaine ou de fer de fonte.
- Une fuite de GPL peut causer une incendie ou une explosion si enflammée entraînant des blessures corporelles graves ou la mort.
- Communiquez avec le fournisseur de GPL pour les réparations ou pour disposer de qules bouteille ou du GPL non utilisé.

Certifié à la norme: ANSI Z21.58-2015 / CSA 1.6-2015

INSTALLATEUR : Laissez ces instructions avec le consommateur.
CONSOMMATEUR : Maintenez pour la future référence.

TABLE OF CONTENTS

GETTING STARTED

WARNINGS AND SAFETY CODES 1
ELECTRICAL SAFETY 3
PARTS LIST 4
MODEL SPECIFICATIONS 6
PORTABLE GRILL WIRING DIAGRAM 6
MODEL SPECIFICATIONS TABLE 7
PROPANE TO NATURAL GAS CONVERSION KIT TABLE 7
PORTABLE GRILL DIMENSIONS TABLE 8
GRILL MAINTENANCE AND SAFETY INFORMATION 9
ELECTRICAL CONNECTIONS 9
INSTALLATION REQUIREMENTS 10
OVERHEAD CONSTRUCTION AND EXHAUST HOOD REQUIREMENTS 10
INSTALLATION REQUIREMENTS 11
SIDE AND REAR WALL CLEARANCES 11
ENSURE PROPER COMBUSTION AIR AND COOLING AIRFLOW 12
PROPANE SAFETY INFORMATION 13
OPERATING THE UNIT SAFELY AND CORRECTLY 13
WARNING 13
INSTALLATION SAFETY GUIDELINES 13
SAFE USE & MAINTENANCE OF PROPANE GAS CYLINDERS 15

INSTALLATION

INSTALLATION 16
LOCATION PREPARATION 16
WHEELS AND CASTERS 16
CONNECT THE GAS SUPPLY 16
INSTALL THE DRIP TRAY 17
INSTALL THE SIDEBURNER SHELF (IF EQUIPPED) 18
RIGID SHELF INSTALLATION 19

USE, CARE, & SERVICE

IDENTIFICATION OF GRILL CONTROLS 20
LIGHTING (IGNITION) INSTRUCTIONS 21
ELECTRONIC LIGHTING 21
MANUAL LIGHTING 21
ELECTRONIC LIGHTING 21
SHUTTING OFF THE UNIT 21
OPTIONAL INFRARED BURNER OPERATION 23
ROTISSERIE INSTRUCTIONS (IF EQUIPPED) 24
CARE & CLEANING 25
REPLACING HALOGEN BULBS 26
CONVERT GAS TYPE / CHECK BURNER ORIFICES 27
BURNER AIR SHUTTER ADJUSTMENT 30
CONTROL PANEL REMOVAL 31
NOTES PAGE 32
TROUBLESHOOTING 33
WARRANTY 34

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 120VAC (15 AMP minimum) Ground Fault Circuit Interrupter (GFCI) GROUNDED 3-wire receptacle with this outdoor cooking gas appliance.

The GFCI 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 as well as any local codes must be observed when installing the product.

PARTS LIST

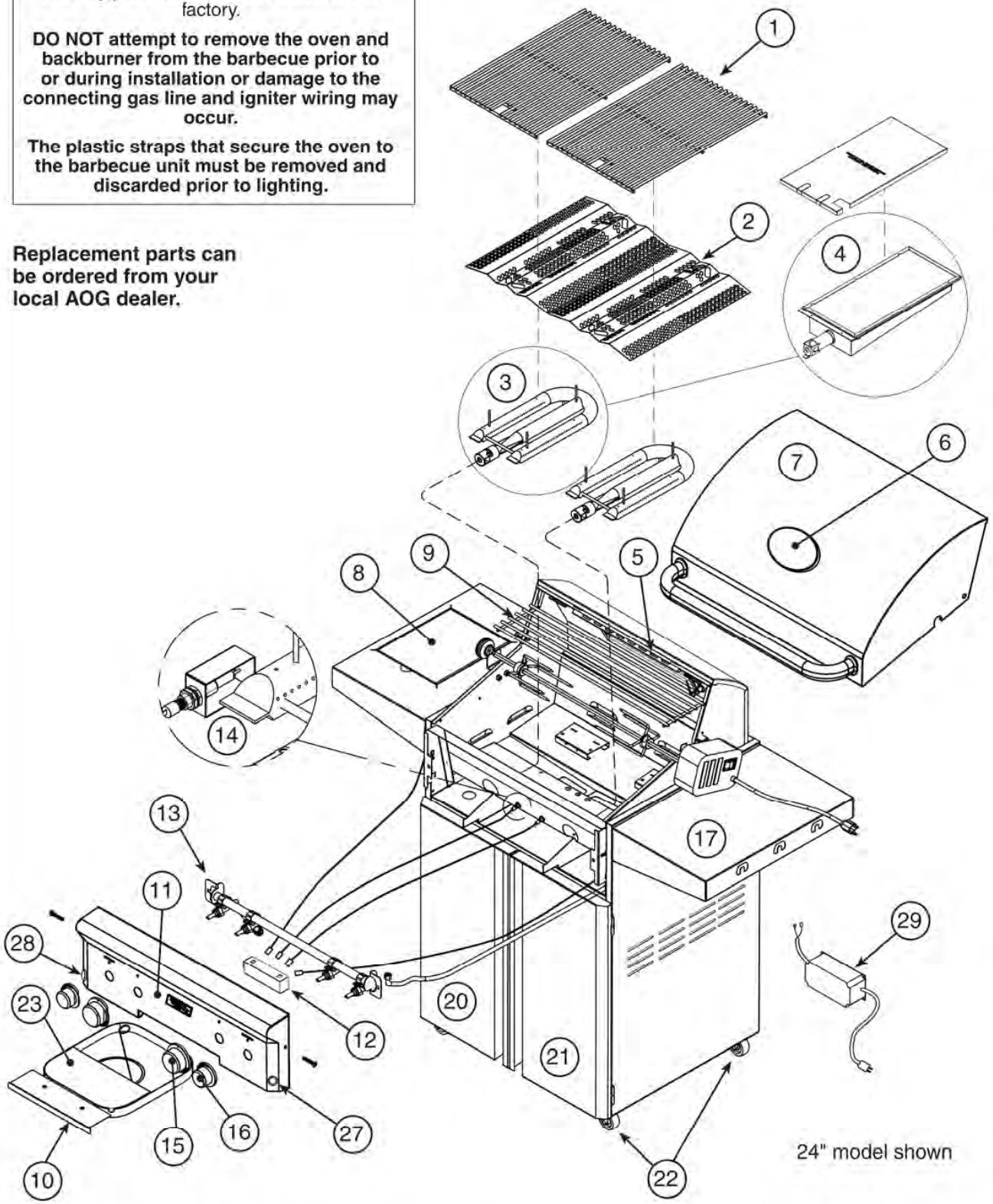
IMPORTANT

This AOG oven and backburner (if equipped) are fully pre-assembled and tested at the factory.

DO NOT attempt to remove the oven and backburner from the barbecue prior to or during installation or damage to the connecting gas line and igniter wiring may occur.

The plastic straps that secure the oven to the barbecue unit must be removed and discarded prior to lighting.

Replacement parts can be ordered from your local AOG dealer.



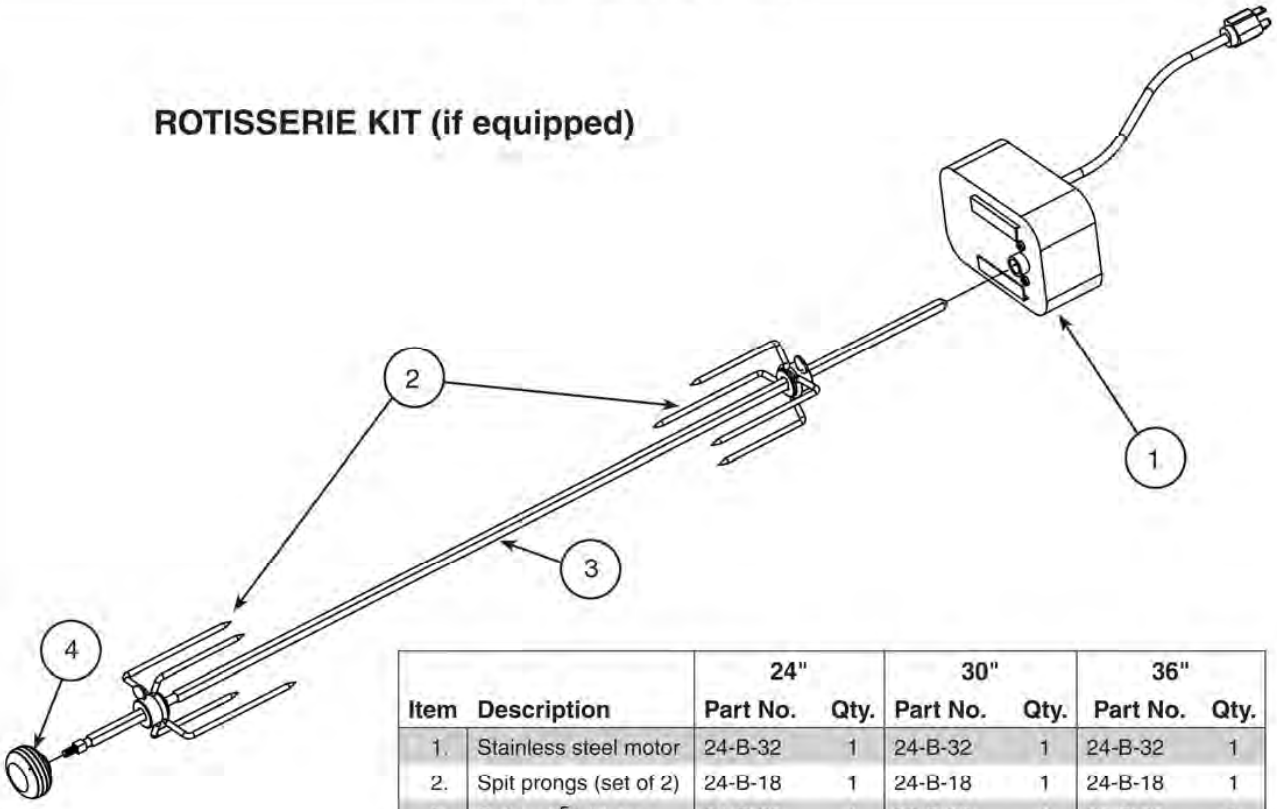
PARTS LIST (Cont.)

Item	Description	24" Part No.	24" Qty.	30" Part No.	30" Qty.	36" Part No.	36" Qty.
1.	Stainless cooking grid (set of 2 or 3)	24-B-11	1	30-B-11	1	36-B-11	1
2.	Vaporizer panel	24-B-05	2	30-B-05	3	36-B-05	3
3.	Main burner	24-B-06	2	24-B-06	3	24-B-06	3
4.	Infrared burner*	IRB-18	1	IRB-18	1	IRB-18	1
5.	Backburner*	24-B-17T	1	24-B-17T	1	36-B-17T	1
6.	Oven hood thermometer	23305	1	23305	1	23305	1
7.	Oven lid	24-B-25A	1	30-B-25A	1	36-B-25A	1
8.	Single sideburner shelf*	24-C-02	1	24-C-02	1	24-C-02	1
9.	Warming rack	24-B-02	1	30-B-02	1	36-B-02	1
10.	Drip tray with match holder	3083	1	3083	1	3083	1
11.	Control panel w/ backburner, w/ sideburner	24-C-26L	1	30-C-26L	1	36-C-26L	1
or	Control panel w/o backburner, w/o sideburner ‡	24-C-27L	1	30-C-27L	1	36-C-27L	1
12.	Igniter module w/ backburner, w/ sideburner	3199-44	1	3199-46	1	3199-46	1
or	Igniter module w/o backburner, w/o sideburner ‡	24-B-49	1	3199-44	1	3199-44	1
13.	Valve manifold w/ backburner, w/ sideburner (nat. gas)	24-C-08	1	30-C-08	1	36-C-08	1
or	Valve manifold w/ backburner, w/ sideburner (L.P. gas)	24-C-08P	1	30-C-08P	1	36-C-08P	1
or	Valve manifold w/o backburner, w/o sideburner (nat. gas) ‡	24-C-34	1	30-C-34	1	36-C-34	1
or	Valve manifold w/o backburner, w/o sideburner (L.P. gas) ‡	24-C-34P	1	30-C-34P	1	36-C-34P	1
14.	Main burner electrode / igniter assembly	24-B-04	2	24-B-04	3	24-B-04	3
15.	Large knob	3015	2	3015	3	3015	3
16.	Small knob*	3016	1	3016	1	3016	1
17.	Rigid shelf	24-C-01	1†	24-C-01	1†	24-C-01	1†
18.	Convertible regulator (nat. models only) ‡	PR-4	1	PR-4	1	PR-4	1
19.	Propane regulator / hose assembly ‡	5110-07	1	5110-07	1	5110-07	1
or	Natural gas QD hose ‡	5110-03	1	5110-03	1	5110-03	1
20.	Door (left)	24-C-53L	1	30-C-53L	1	36-C-53L	1
21.	Door (right)	24-C-53R	1	30-C-53R	1	36-C-53R	1
22.	Caster kit (set of 4)	24-C-35	1	24-C-35	1	24-C-35	1
23.	Drip tray heat shield	24-B-44	1	24-B-44	1	24-B-44	1
24.	**12V / 10** watt halogen light bulb ‡	24187-15	2	24187-15	2	24187-15	2
25.	Light lens ‡	24187-26	2	24187-26	2	24187-26	2
26.	Lamp assembly ‡	24187-28	2	24187-28	2	24187-28	2
27.	Light switch	24-B-45	1	24-B-45	1	24-B-45	1
28.	Igniter switch	24-B-46	1	24-B-46	1	24-B-46	1
29.	Power supply w/ connector	24-B-47	1	24-B-47	1	24-B-47	1
30.	Wire harness assembly ‡	24-B-48	1	30-B-48	1	36-B-48	1

* If equipped
‡ Not shown
† If not equipped with sideburner; two rigid shelves are supplied.

PARTS LIST (Cont.)

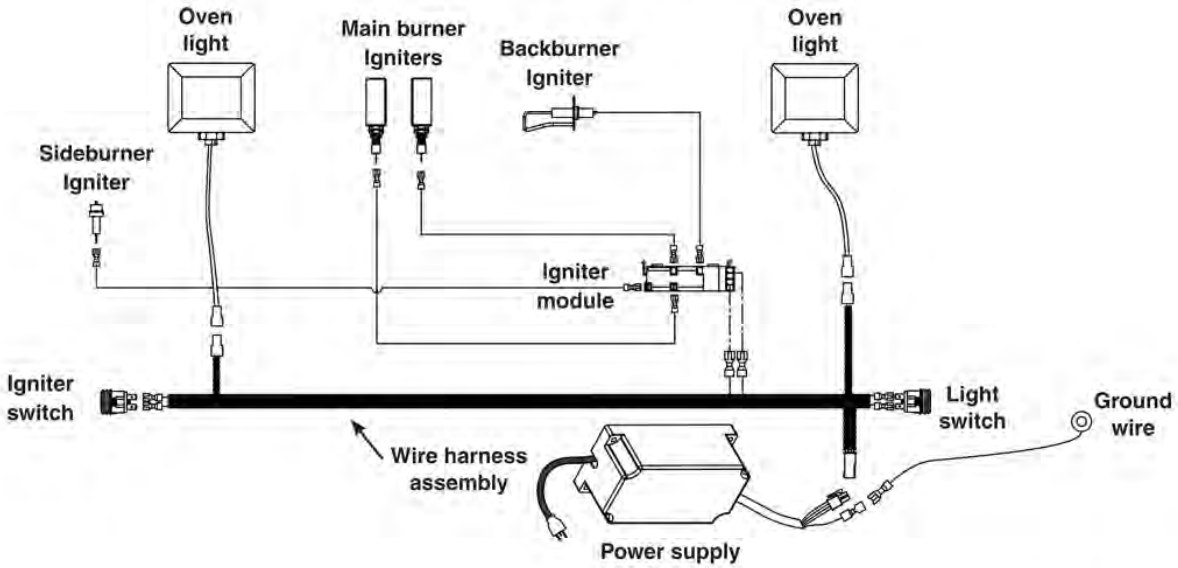
ROTISSERIE KIT (if equipped)



Item	Description	24" Part No.	24" Qty.	30" Part No.	30" Qty.	36" Part No.	36" Qty.
1.	Stainless steel motor	24-B-32	1	24-B-32	1	24-B-32	1
2.	Spit prongs (set of 2)	24-B-18	1	24-B-18	1	24-B-18	1
3.	Spit rod $^5/_8$" hex	24-B-33	1	30-B-33	1	36-B-33	1
4.	Handle knob	24-B-09	1	24-B-09	1	24-B-09	1

MODEL SPECIFICATIONS

PORTABLE GRILL WIRING DIAGRAM *



* 24" 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.

MODEL SPECIFICATIONS TABLE

Table 1	24"	30"	36"
Main burner quantity N/P orifice drill size	2 1.82mm / 1.16mm	3 #50 / 1.16mm	3 #49 / #56
Backburner* N/P orifice drill size	#53 / #64	#53 / #64	#52 / #62
Sideburner* N/P orifice drill size	#53 / #63	#53 / #63	#53 / #63
Infrared searing burner* N/P orifice drill size	1.82mm / 1.16mm	#50 / 1.16mm	#49 / #56
Wind deflector model # (not included)	24-B-24	30-B-24	36-B-24
Input electrical requirement	**120VAC / 15 AMP minimum / 60 Hz / GFCI outlet**		
Oven lights rating	**12V / 10 watt** halogen bulb		

* If equipped

PROPANE TO NATURAL GAS CONVERSION KIT TABLE

Grill model	HARDWARE KIT OPTIONS			ORIFICE KIT
	• 10ft. quick disconnect hose • convertible regulator • fittings	OR	• Convertible regulator • fittings	• Main burner / I.R. burner orifices • Sideburner orifices • Conversion label
24"	CK-41-NAT		CK-42-NAT	24-B-51
30"	CK-41-NAT		CK-42-NAT	30-B-51
36"	CK- 41-NAT		CK-42-NAT	36-B-51

A hardware kit and orifice kit must be purchased when converting.

Call your dealer for ordering information.

PORTABLE GRILL DIMENSIONS TABLE

Model	Height			Width		Depth	
	Floor to top (with oven)		Floor to top of shelf (C)	Left to right		Front to back	
	Open (A)	Closed (B)		Cart base (D)	Shelf to shelf (E)	Cart base (F)	Maximum outer (G)
24"	59"	48 1/2"	37"	25"	50"	22 1/4"	24 3/4"
30"	59"	48 1/2"	37"	31"	56"	22 1/4"	24 3/4"
36"	59"	48 1/2"	37"	37 1/4"	62 1/4"	22 1/4"	24 3/4"

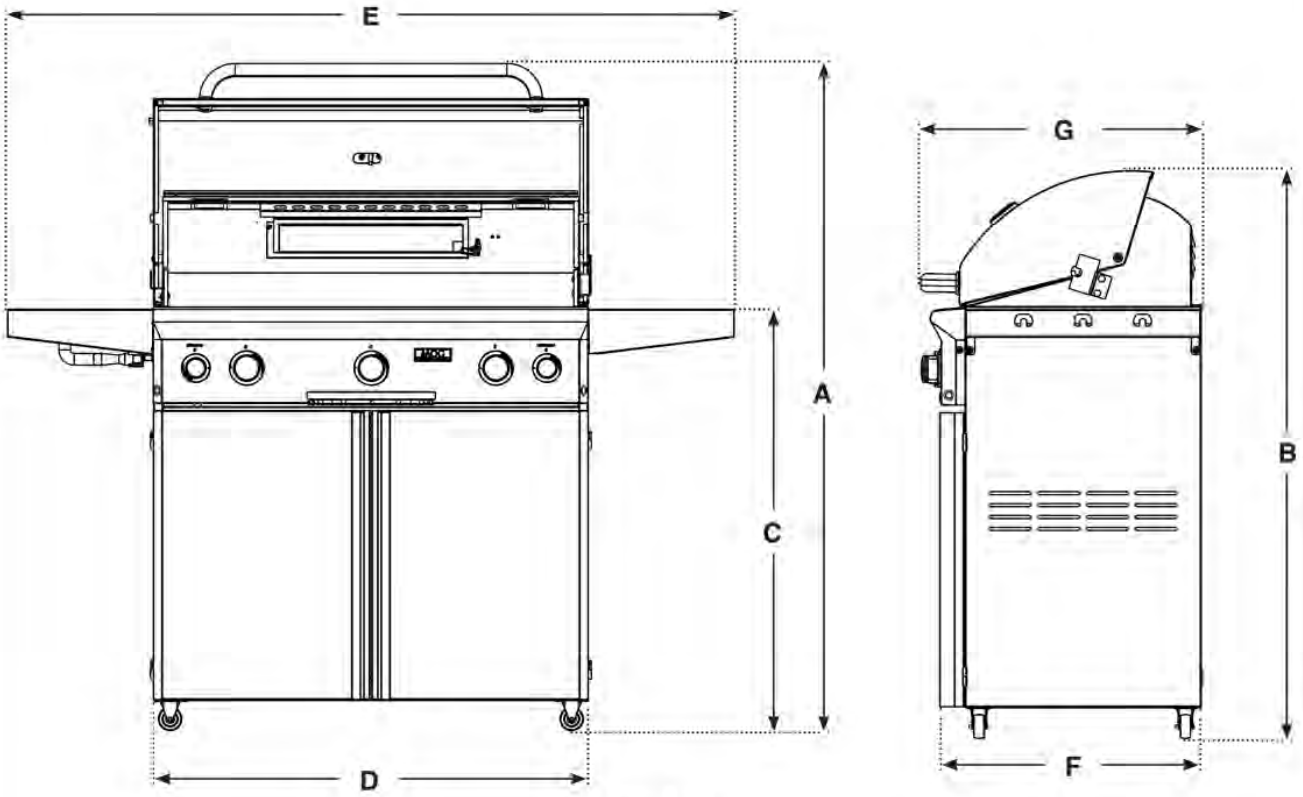


Fig. 8-1

GRILL MAINTENANCE AND SAFETY INFORMATION

1. The outdoor grill and surrounding area MUST remain clear of flammable substances such as gasoline, yard debris, wood, etc.
2. The airflow through the vent space located below the control panel must remain unobstructed.
3. **When using propane gas:**
   a. **The required ventilation openings in the enclosure must be clear of debris. See the PROPANE SAFETY INFORMATION section.**
   b. **If connected to a propane cylinder, the rubber hose attached to the regulator should be carefully inspected before each use.**
   c. **The propane cylinder, regulator, and rubber hose must be in a location not subject to temperature above 125° F (51° C).**
4. The backburner, sideburner, or IR burner cover (if equipped) must be removed before using the burner.
5. 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 orifice and burner/venturi tubes for insects and insect nests. A clogged tube can lead to a fire beneath the grill. A proper flame pattern will ensure safe operation and optimal performance. Adjust the air shutter as needed (see AIR SHUTTER ADJUSTMENT).
6. The in-line gas valve or gas cylinder valve must always be shut OFF when the grill is not in use.
7. The drip collector holes must be clear and unobstructed. Excessive grease deposits can result in a grease fire.
8. Whenever reconnecting <u>any wires</u>, apply a small amount of dielectric grease to the <u>male</u> connector, then make the connection. This will ensure conductivity and prevent moisture from affecting the contact.

<u>IMPORTANT</u>

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. A THOROUGH INSPECTION BY A TRAINED 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 the *<u>entire</u>* cooking or grill surface with griddles or pans. Overheating will occur, and burners will not perform properly when combustion heat is trapped below the cooking surface.

CAUTION: NEVER spray water on a hot gas unit.

The grill serial number tag can be found affixed to the grill body behind the control panel (on an aluminum tag, left side) 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 the control panel.

ELECTRICAL CONNECTIONS

<u>A **120VAC (15 AMP minimum) GFCI GROUNDED 3-wire receptacle** (not included) is required</u> within the vicinity of the grill to provide power to the unit. The GFCI receptacle must be a WEATHER-PROOF IN-USE COVERED RECEPTACLE.

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

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

INSTALLATION REQUIREMENTS

Installation must be performed by a qualified professional service technician.

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

When installing this grill in a combustible surround, an AOG insulating liner must be used.

The grill must have a minimum clearance of 18" from combustible *materials/items* in all directions.

OVERHEAD CONSTRUCTION AND EXHAUST HOOD REQUIREMENTS

A minimum 5 foot clearance is required between the cooking surface and the overhead construction.

When installed under combustible overhead construction, the area above the cooking surface of the grill **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. 10-1.

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. 10-1.

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 1200 CFM (cubic feet per minute) for proper outdoor application.

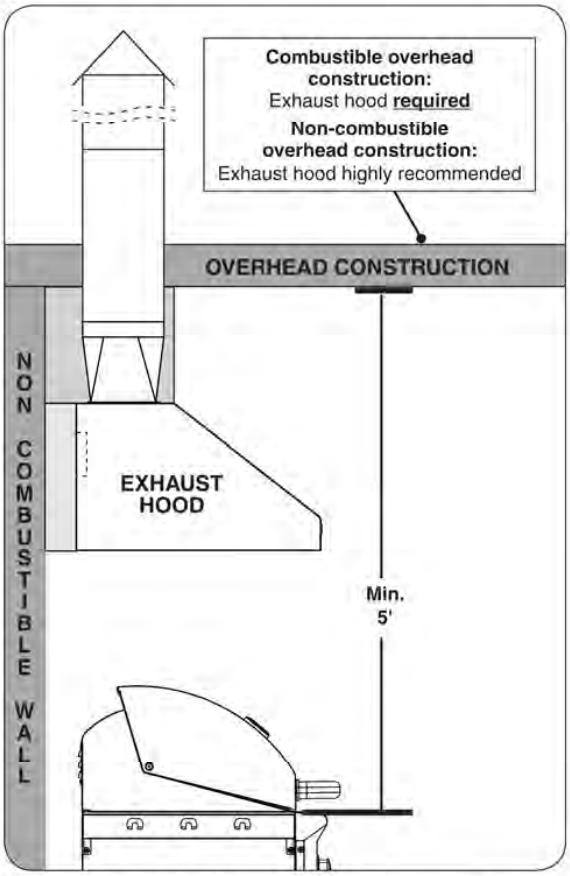


Fig. 10-1 Overhead requirements

SIDE AND REAR WALL CLEARANCES

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

A. Clearance between grill and strictly non-combustible wall (*i.e. brick wall, see Fig. 11-1*)

- The grill must have a minimum of 4" right, left, and rear clearance from any non-combustible wall.
  (To allow for proper ventilation and prevent dangerous overheating.)

B. Clearance between grill and a protected combustible wall *(i.e. a non-combustible wall in front of a combustible wall to serve as a barrier. This can be accomplished by brick, or a metal stud finished with non-combustible substrate, see Fig. 11-2)*

- The grill must have a minimum of 14" right, left, and rear clearance from the protected combustible wall.
  (The 4" non-combustible material plus an additional 10" clearance between the grill and protected wall.)

C. Clearance between grill and combustible wall

- The grill must have a minimum of 18" right, left, and rear clearance from any combustible wall (see Fig. 11-3).

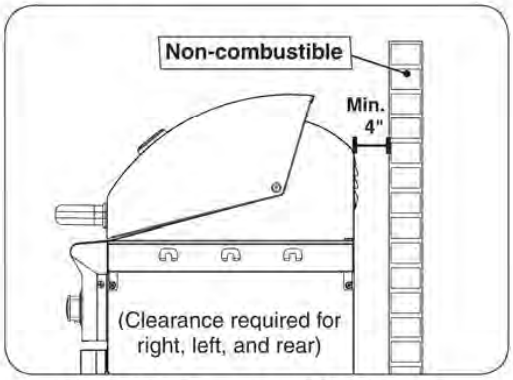


Fig. 11-1 Clearance **'A'** Diagram

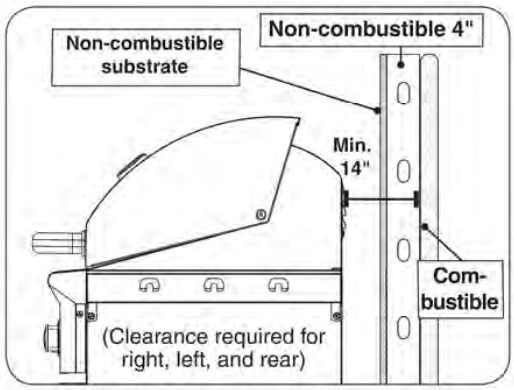


Fig. 11-2 Clearance **'B'** Diagram

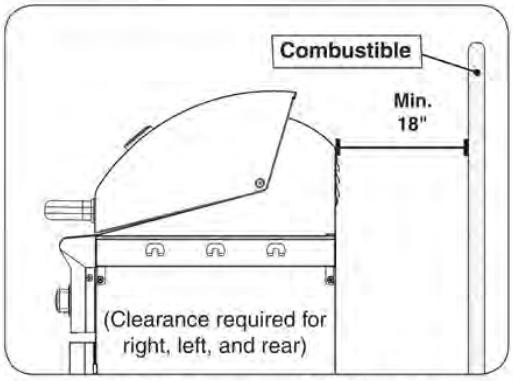


Fig. 11-3 Clearance **'C'** Diagram

The control panel **MUST** remain removable for servicing and air shutter adjustment (see PARTS LIST).

ENSURE PROPER COMBUSTION AIR AND COOLING AIRFLOW

Proper airflow (Fig. 12-1) MUST be maintained for the grill to perform as it was designed. If airflow is blocked, overheating and poor combustion will result. Do not block the 1" (2.5 cm) front air inlet along the bottom of the control panel or more than 75% of the cooking grid surface with pans or griddles.

Note: The 1" (2.5 cm) front air space also allows access to the drip tray.

CAUTION: Wind blowing into or across the rear oven lid vent (Fig. 12-2) can cause poor performance and/or dangerous overheating. Orient the grill so that the prevailing wind blows toward the front of the grill (Fig. 12-3). **A wind deflector is available for purchase to assist in proper airflow during windy conditions.** See Table 1 for model numbers. Follow the instructions inlcuded with the wind deflector for installation.

Important: **A shut-off valve (not included) in the gas line is required.** It provides for safety when the unit is not in use and for convenient maintenance and repair. It must be installed within 6 feet of the unit. Use a pipe joint compound resistant to all gasses on all male fittings except flare fittings.

GAS SUPPLY AND MANIFOLD PRESSURES:
For **natural gas** - normal 7" (17.78 cm) water column (w.c.), minimum 5" (12.7 cm), maximum 10 $^1/_2$" (26.7 cm). For **propane gas** - normal 11" w.c., minimum 10" (25.4 cm), maximum 13" (33 cm).

Fig. 12-1 Ventilation

Fig. 12-2 Airflow direction - **INCORRECT**

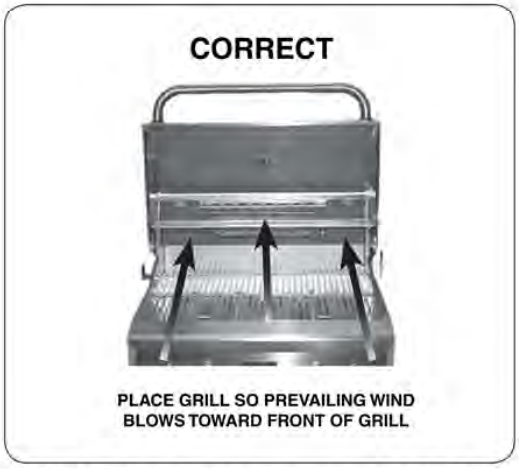


Fig. 12-3 Airflow direction - **CORRECT**

PROPANE SAFETY INFORMATION

WHEN OPERATING THIS APPLIANCE WITH PROPANE, ALL INSTRUCTIONS AND WARNINGS MUST BE OBSERVED. FAILURE TO DO SO MAY RESULT IN A FIRE OR EXPLOSION CAUSING SERIOUS INJURY OR DEATH.

WARNING

THIS APPLIANCE MUST BE INSTALLED AND OPERATED ACCORDING TO THE INFORMATION BELOW.

FAILURE TO PROPERLY VENT THE CABINET MAY RESULT IN A FIRE OR EXPLOSION CAUSING SERIOUS INJURY OR DEATH.

When using **propane gas**:

- **Propane gas** (also known as **L.P. gas**) is heavier than air and will accumulate or pool in an inadequately vented enclosure or recessed area.
- A leaking gas connection or valve unintentionally left open will create a hazard.
- If a pool of **propane gas** is ignited, an explosion will occur. Adequate venting at the floor level of the cabinet eliminates this danger.
- DO NOT store a spare propane-gas cylinder in or near the unit.

INSTALLATION SAFETY GUIDELINES

THIS UNIT MUST BE INSTALLED IN SUCH A MANNER THAT ALL VENT OPENINGS ON THE CABINET REMAIN CLEAR AND FREE OF ALL OBSTRUCTIONS AT ALL TIMES AND DURING ALL WEATHER CONDITIONS.

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

WHEN A PROPANE CYLINDER IS INSTALLED INSIDE OF THE CABINET, THE GUIDELINES FOUND IN THE **SAFE USE & MAINTENANCE OF PROPANE GAS CYLINDERS** 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/liquids.
2. There is no blockage of the airflow through the vent openings located on the cabinet.
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.

UTILISATION SÛRE ET ENTRETIEN DES CYLINDRES DE GAZ DE PROPANE

IMPORTANT POUR VOTRE SÛRETÉ

LISEZ ET SUIVEZ TOUS LES AVERTISSEMENTS ÉQUIPÉS DE VOTRE CYLINDRE DE GAZ DE PROPANE.

En actionnant cet appareil avec un cylindre de gaz de propane ON DOIT observer ces instructions et avertissements.

LE MANQUE DE FAIRE AINSI PEUT AVOIR COMME CONSÉQUENCE UNE INCENDIE OU UNE EXPLOSION SÉRIEUSE.

CYLINDRE ET CONDITIONS ET CARACTÉRISTIQUES DE CONNECTEUR

a. Des cylindres et les valves de gaz de propane doivent être maintenus en bon état et doivent être remplacés s'il y a des dommages évidents au cylindre ou à la valve.

b. Ce gril, une fois utilisé avec un cylindre, devrait être relié à un gallon de la norme 5 (20lb.) cylindre de gaz de propane équipé d'un OPD (remplissez au-dessus du niveau le dispositif d'empêchement). L'OPD a été exigé sur tous les cylindres vendus depuis octobre 1.1998 pour empêcher le remplissage excessif.

c. Les dimensions de cylindre devraient être approximativement 12"(30.5cm) de diamètre et 18" (45.7cm) hauts. Des cylindres doivent être construits et marqués selon les caractéristiques pour des cylindres de gaz de propane du département des ETATS-UNIS du transport (D.O.T.) ou le niveau national du Canada, du CAN/CSA-B339, des cylindres, des sphères et des tubes pour le transport des marchandises dangereuses.

d. Le cylindre doit inclure un collier pour protéger la valve de cylindre et le circuit d'alimentation de cylindre doit être assuré le retrait de vapeur.

e. Le montage du régulateur de pression et le flexible (Fig. 14-1) fourni avec cet appareil au gaz en plein air (modèles au propane seulement) doit être utilisé. Assemblées d'origine et régulateur de pression et le tuyau de remplacement doivent être ceux spécifiés par le fabricant pour le raccordement d'un dispositif de cylindre de liaison identifiée comme de type I par le ANSI Z 21.58/CGA 1.6 (voir liste des pièces pour les informations de commande).

f. La valve de cylindre de gaz de propane doit être équipée d'un dispositif d'accouplement de raccordement de cylindre, décrit comme type I dans la norme définie dans le e. de paragraphe ci-dessus. Ce dispositif est généralement décrit comme coupleur rapide de fil de point culminant.

g. Si votre cylindre de gaz de propane vient avec une prise de la poussière, placez le bouchon anti-poussière sur la sortie de valve de cylindre toutes les fois que le cylindre n'est pas en service.

OPÉRATION DE COUPLEUR RAPIDE

Pour relier le regulator/hose à l'ajustage de précision de valve de cylindre de gaz de propane: Serrez l'écrou de main sur le régulateur au-dessus de l'ajustage de précision de fil de point culminant sur la valve de cylindre. Tournez l'écrou de main dans le sens des aiguilles d'une montre pour engager les fils et pour serrer jusqu'à ce que douillettement. L'utilisation des pinces ou de la clé ne devrait pas être nécessaire. Seulement le propane marqué par cylindres doit être employé.

Pour débrancher: Tournez l'écrou de main dans le sens contraire des aiguilles d'une montre jusqu'à isolé (fig. 14-1).

Important: Avant d'employer le gril, et ensuite chaque fois que le cylindre est enlevé et rattaché, examinez tous les raccordements pour déceler les fuites. Arrêtez les valves de gril et ouvrez la valve principale de cylindre, puis vérifiez les raccordements avec de l'eau savonneux. Réparez toutes les fuites avant d'allumer le gril.

ATTENTION: Tournez toujours la valve principale de cylindre de propane au loin après chaque utilisation, et avant de déplacer le gril et le cylindre, ou débrancher l'accouplement. Cette valve doit rester fermée et le cylindre a débranché alors que l'appareil n'est pas en service, quoique l'écoulement de gaz soit arrêté par un dispositif de sûreté quand le coupleur est débranché.

Inspectez soigneusement l'ensemble de tuyau chaque fois avant que le gaz soit allumé. Un tuyau fissuré ou effiloché doit être immédiatement remplacé.

Si l'appareil est stocké à l'intérieur, le cylindre doit être disconnected et a enlevé. Des cylindres Disconnected doivent être stockés dehors, hors de la portée des enfants, avec les prises de valve filetées étroitement installées, et ne doivent pas être stockés dans un bâtiment, le garage, ou n'importe quel autre secteur inclus.

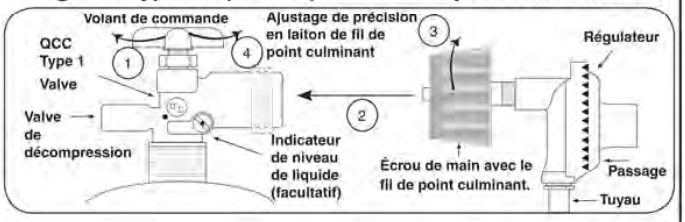
POUR VOTRE SÛRETÉ

a. Ne stockez pas un cylindre de gaz disponible de propane dessous ou ne vous approchez pas de cet appareil.

b. Ne remplissez jamais cylindre au delà de 80 pour cent de plein.

c. SI L'INFORMATION DANS "A" ET "B" N'EST PAS SUIVIE EXACTEMENT, UN FEU CAUSANT LA MORT OU DES DOMMAGES SÉRIEUX PEUT SE PRODUIRE.

Fig. 14-1 type coupleur rapide de fil de point culminant d'l



FIXATION DU CYLINDRE DE GAZ DE PROPANE

Fig. 14-2

1. Ensemble cylindre-propane gaz dans le manchon de support.

Fig. 14-3

2. Suivez les instructions ci-dessus pour connecter l'alimentation.

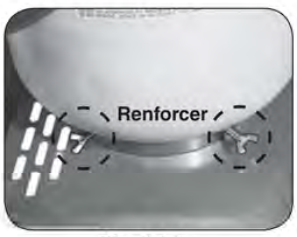


Fig. 14-4

3. Serrer les vis de serrage pour fixer le cylindre.

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/CONNECTOR REQUIREMENTS

a. Propane-gas cylinders, valves, and hoses must be maintained in good condition and must be replaced if there is visible damage to either the cylinder or valve. If the hose is cut or shows excessive abrasion or wear, it must be replaced before using the gas appliance (see **e**.).

b. This unit, when used with a cylinder, should be connected to a standard 5-gallon (20 lb.) propane-gas cylinder equipped with an OPD (Overfill Prevention Device). The OPD has been required on all cylinders sold since October 1,1998, to prevent overfilling.

c. Cylinder dimensions should be approximately 12" (30.5 cm) in diameter and 18" (45.7 cm) high. Cylinders must be constructed and marked in accordance with the *Specifications for Propane Gas Cylinders of the U.S. Department of Transportation (D.O.T.)* or the National Standard of Canada, *CAN/CSA-B339, Cylinders, Spheres, and Tubes for Transportation of Dangerous Goods*.

d. The cylinder used must include a collar to protect the cylinder valve, and the cylinder supply system must be arranged for vapor withdrawal.

e. The pressure regulator and hose assembly (Fig. 15-1) *supplied* with this outdoor gas appliance (L.P. models only) must be used. Original and replacement pressure regulator and hose assemblies must be those specified by the manufacturer for connection with a cylinder connecting device identified as Type I by the *ANSI Z 21.58/CGA 1.6* (see PARTS LIST for ordering information).

f. The propane-gas cylinder valve must be equipped with a cylinder connection coupling device, described as Type I in the standard defined in paragraph **e**. above. This device is commonly described as an Acme thread quick coupler.

g. 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.

QUICK COUPLER OPERATION

To connect the regulator/hose assembly to the propane-gas cylinder valve fitting: Press the hand nut on the regulator over the Acme thread fitting on the cylinder valve. Turn the hand nut clockwise to engage the threads and tighten until snug. The use of pliers or a wrench should not be necessary. Only cylinders marked "propane" may be used.

To disconnect: Turn the hand nut counterclockwise until detached (Fig. 15-1).

Important: Before using the unit, and after each time the cylinder is removed and reattached, check the hose for wear (see **a**.) and check all connections for leaks. Turn off the unit 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 unit and cylinder or disconnecting the coupling. This valve must remain closed and the cylinder disconnected while the appliance is not in use, even though the gas flow is stopped by a safety feature when the coupler is disconnected.

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. Disconnected cylinders must be stored outdoors, out of the reach of children, with threaded valve plugs tightly installed, and must not be stored in a building, garage, or any other enclosed area.

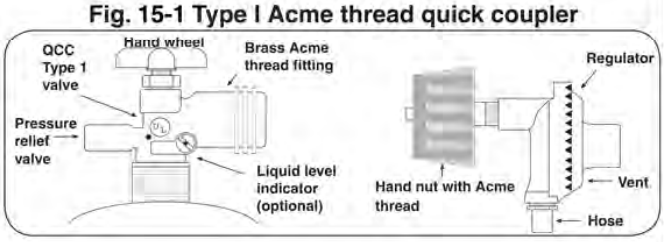
FOR YOUR SAFETY

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.

Fig. 15-1 Type I Acme thread quick coupler



SECURING THE PROPANE-GAS CYLINDER

Fig. 15-2

1. Set the propane-gas cylinder into the support sleeve.

Fig. 15-3

2. Follow the instructions above to connect supply.

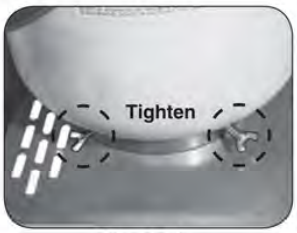


Fig. 15-4

3. Tighten the thumb screws to secure the cylinder.

LOCATION PREPARATION

Prepare a flat, level surface capable of supporting the weight of the portable grill and convenient to the gas supply if connecting to a gas line.

WHEELS AND CASTERS

To lock a caster press down on the left lever until it stops and the caster will not turn. To unlock, press down on the right lever.

Fig. 16-1 Wheels and casters

CONNECT THE GAS SUPPLY

Always ensure the orifices and regulator (if equipped) are set for the gas type your unit is to be installed to.

For connecting a propane unit to a portable propane tank, read the safety warnings and follow the instructions in the section SAFE USE AND MAINTENANCE OF PROPANE GAS CYLINDERS.

For household propane or natural gas units:

1. **Turn OFF the gas supply at the source.** The quick disconnect hose is pre-installed on the valve manifold at the manufacturer. Run the hose through the hole in the bottom rear of the portable unit, to the gas supply.
2. A shut-off valve is required within 6 feet of the unit.

   Connect the quick connect hose to the shut-off valve OR gas supply using a pipe joint compound resistant to all gasses (see Fig. 16-2). Tighten securely.
3. Turn all burner valves to the OFF position. Turn the gas supply on. Then carefully check all gas connections for leaks with a brush and soapy water before lighting. NEVER USE A MATCH OR OPEN FLAME TO TEST FOR LEAKS.

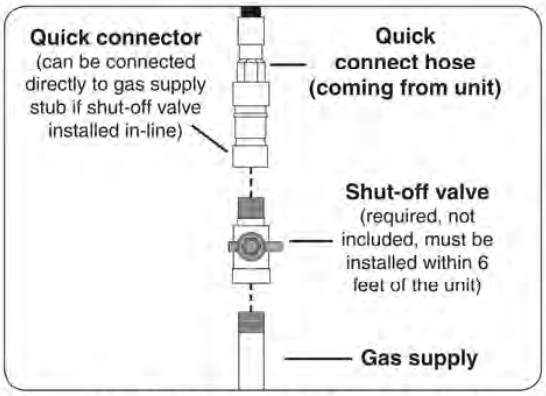


Fig. 16-2 Connecting to a gas line

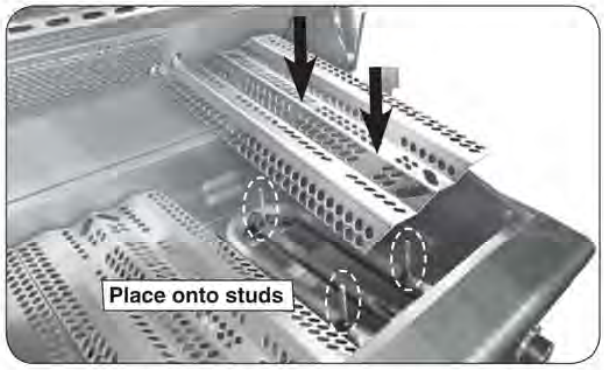


Fig. 16-3 Install vaporizer panels

INSTALL THE VAPORIZER PANELS

Place the vaporizer panels directly onto the studs on the burners. See Fig. 16-3. The panels allow heat from the burners to be evenly distributed throughout the cooking area. The panels are stainless steel and will heat and cool quickly, making your barbecue very responsive to the changes you specify in grill temperature. They are rust resistant and may be cleaned with standard oven cleaners. Some discoloring will be seen with use. This is normal for stainless steel and does not affect the function.

INSTALL THE COOKING GRIDS

Carefully place each cooking grid onto the front and rear grid rests of the grill. See Fig. 17-1.

INSTALL THE DRIP TRAY

Install the drip tray heat shield onto the drip tray as shown in Fig. 17-2, then fully insert the drip tray into the bottom front of the control panel. See Fig. 17-3.

The drip tray heat shield provides protection to the grill controls from high heat. When cleaning the drip tray, the heat shield must be removed. To re-install, slide the front lip of the heat shield into the front portion of the drip tray, then orient the front and side tabs as shown in Fig. 17-2 to properly drop in place.

INSTALL THE WARMING RACK

The warming rack (Fig. 17-4) is packed separately. To install the warming rack, carefully insert the rack hangers into the two holes in the back of the inner oven hood, then lower the front of the rack to a level position.

Note: Removing the warming rack before using the rotisserie will leave more clearance for the meat being cooked (if applicable).

CONNECT THE POWER SUPPLY TO LINE POWER

Connect the cord coming from the rear of the unit to a **120VAC (15 AMP minimum) GFCI GROUNDED 3-wire receptacle.** The GFCI 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.

Fig. 17-1 Install cooking grids

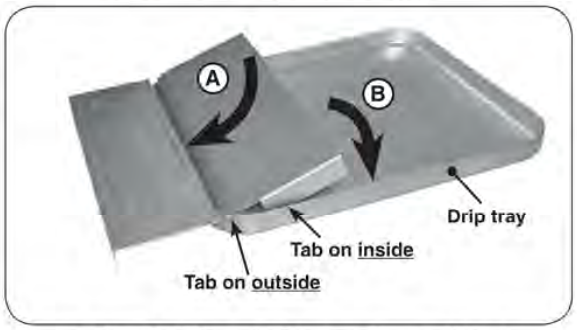


Fig. 17-2 Install drip tray heat shield

Fig. 17-3 Install drip tray

Fig. 17-4 Install warming rack

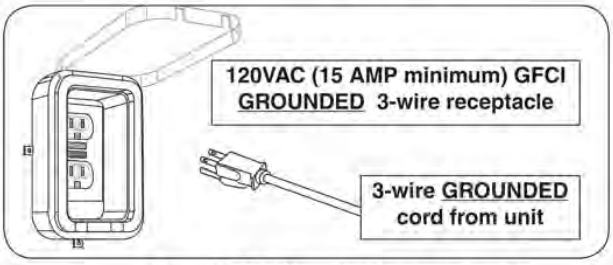
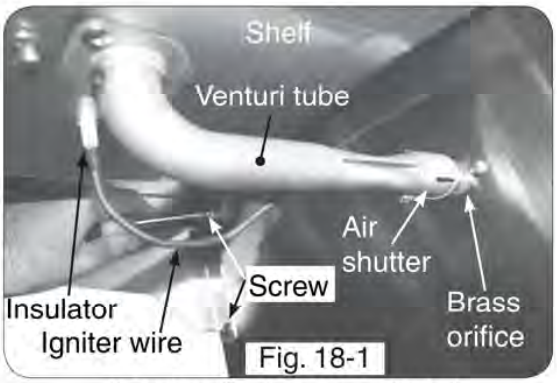
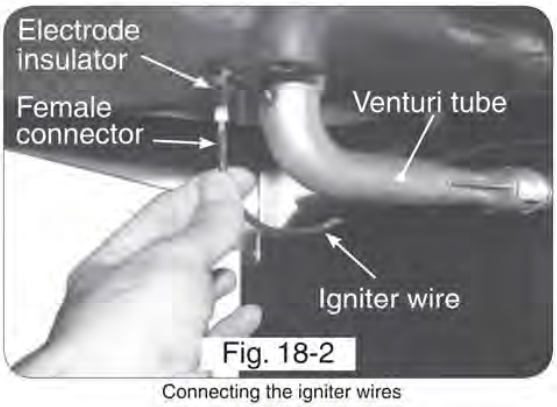


Fig. 17-5 Electrical setup detail

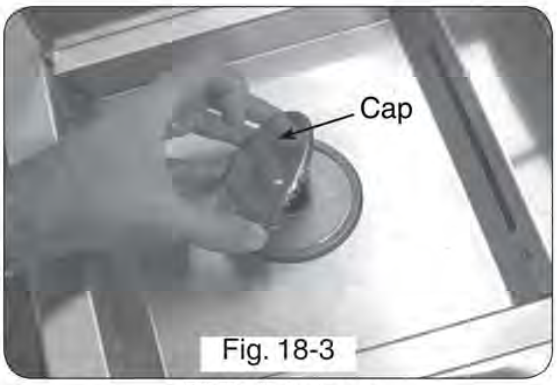
INSTALL THE SIDEBURNER SHELF (IF EQUIPPED)



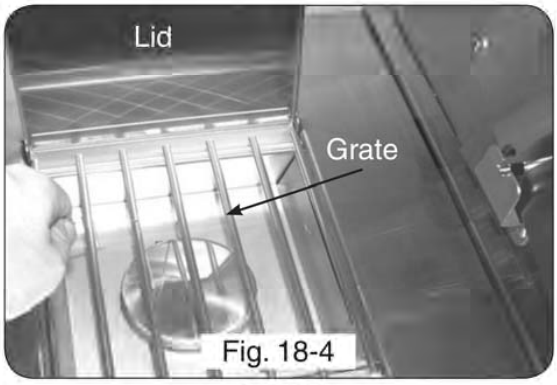
Air shutter orifice placement - under shelf



Connecting the igniter wires



Placing the burner cap



Final look

This shelf comes separate from the grill for convenience in shipping. The sideburner shelf must be installed using the following instructions before hooking up the grill to a gas source.

INSTALL THE SIDEBURNER SHELF

1. Remove the protective plastic from the grill, sideburner, and sideburner lids by carefully peeling it off with your fingers. Do not use tools.
2. Hold the sideburner shelf up against the left side wall of the grill so that the holes in the shelf line up with the four (4) threaded screw holes in the side wall and the air-shutter end of the sideburner venturi tube fits around the brass orifice protruding from the side of the cart.

WARNING: It is critical for safety and for the proper function of the sideburner that the sideburner venturi tube with air shutter be centered around and completely cover the gas orifice.

3. Insert and start screws with fingers and then tighten using a Phillips screwdriver.

Important: Take caution to **not cross-thread** when tightening the screws.

Note: Upon completion, the air shutter must still fit around the brass orifice.

4. Connect the female connector on the end of the igniter wire to the male igniter connector protruding from the bottom of the white insulator.
5. Place the burner cap on top of the burner, as shown in Fig. 18-3.
6. Place the grid so that it rests on the front and back lips of the sideburner opening (Fig. 18-4).
7. Proceed to the section on AIR SHUTTER ADJUSTMENT and complete the installation by adjusting the air shutter. This will also test the sideburner installation.

RIGID SHELF INSTALLATION

This barbecue comes with one rigid shelf that must be attached. It can be attached using the four support screws provided and a Phillips-head screwdriver.

Important: Take caution to **not cross-thread** when tightening the screws.

1. Insert the top two screws into the side of the barbecue and screw them in about half way.
2. Line up the larger, bottom portion of the two keyhole openings with the two top screws and fit the two keyhole openings over the two screws. With the shelf pushed all the way against the side of the barbecue, lower the shelf so that the screws lock into the narrower, upper portions of the keyholes.

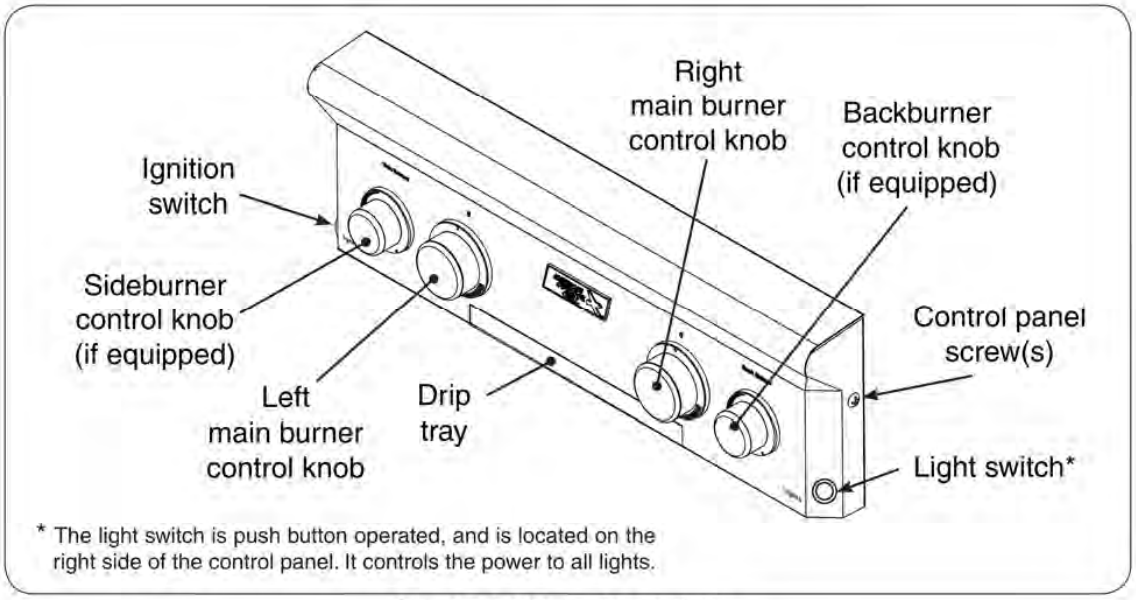
Note: The shelf will now stay in place on it's own.

3. Insert the bottom two screws into their holes and tighten them all the way.
4. Finally, tighten the upper two screws, completely.

To detach, reverse the process above.

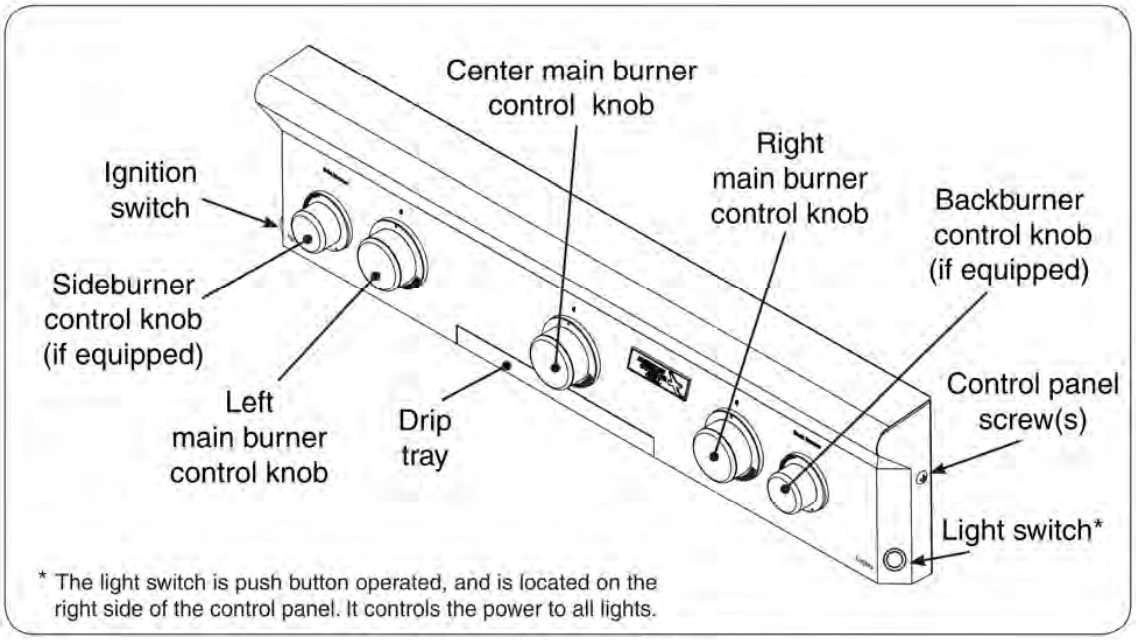
View from under right shelf

IDENTIFICATION OF GRILL CONTROLS



* The light switch is push button operated, and is located on the right side of the control panel. It controls the power to all lights.

Fig. 20-1 24" model controls



* The light switch is push button operated, and is located on the right side of the control panel. It controls the power to all lights.

Fig. 20-2 30" and 36" model controls

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 120VAC 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.

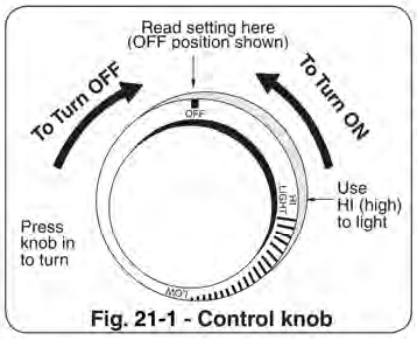


Fig. 21-1 - Control knob

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

4. Depress the control knob for the burner to be lit and turn it to the **HI LIGHT** position, then press the ignition button. Once the burner lights, release the ignition button.

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* 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 TANK

Propane tanks are equipped with a safety shutdown device that may cause low or no gas pressure/flame 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, a burning long-stem match, or a burning match held by a wire extension holder (Fig. 21-2) through the cooking grids to the burner (Fig. 21-3). For backburners, hold the flame against the perforated material of the backburner. For sideburners, hold the flame against the burner.
3. While holding the match or lighter flame next to the burner, 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.

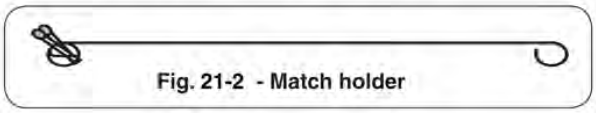


Fig. 21-2 - Match holder

Fig. 21-3 **- Manual lighting**

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.

ALLUMAGE DES INSTRUCTIONS (D'ALLUMAGE)

Lisez toutes les instructions avant l'allumage, et suivez ces instructions chaque fois vous lumière le unité.

ÉCLAIRAGE ÉLECTRONIQUE

Note: Le unité doit être relié à la puissance 120VAC pour l'éclairage électronique.

1. Ouvrez les couvercles ou enlevez les couvertures des brûleurs pour être Lit.
2. Tournez tous les boutons de commande de gaz à leurs positions de repos.
3. Allumez le gaz à sa source.

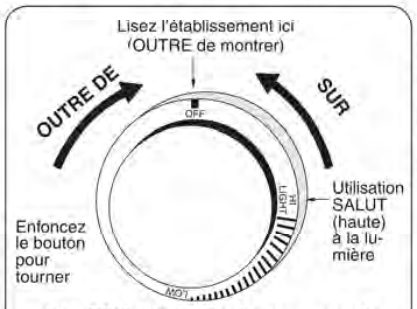


Fig. 22-1 - bouton de commande

Note: N'ouvrez pas plus d'une valve à la fois pour l'éclairage électronique ou manuel.

4. Enfoncez le bouton de commande pour que le brûleur soit allumé et tournez-le dans la position LÉGÈRE de HI, puis appuyez sur le bouton d'allumage. Une fois que le brûleur s'allume, libérez le bouton d'allumage.

ATTENTION : Si un brûleur ne s'allume pas dans cinq (5) secondes d'allumer le bouton de commande, enfoncez le bouton et tournez-le à la position de repos. ATTENDEZ CINQ (5) MINUTES avant de répéter l'étape 4. Si vous sentez le gaz, suivez les instructions sur la couverture de ce manuel. Si les brûleurs ne s'allument toujours pas après que plusieurs tentatives, se rapportent aux instructions pour l'éclairage manuel.

5. Répétez l'étape 4 pour que chaque brûleur additionnel soit Lit.

EN EMPLOYANT UN RÉSERVOIR DE PROPANE PORTATIF

Des réservoirs de propane sont équipés d'un dispositif d'arrêt de sûreté qui peut ne pas causer le bas ou aucunes pression de gaz/flamme aux brûleurs si le fonctionnement et l'allumage des instructions ne sont pas suivis exactement (voir la note importante dans la section de dépannage pour plus de détails.)

ÉCLAIRAGE MANUEL

ATTENTION: Attendez toujours cinq (5) minutes le gaz pour se dégager après que n'importe quelle tentative non réussie d'éclairage.

1. Suivez les étapes 1 à 3 (à gauche).
2. Insérez soit un brûlant long baril briquet au butane, un match à longue tige de brûlure, ou une allumette en feu détenues par un titulaire d'extension de fil (Fig. 22-2) À travers les grilles de cuisson du brûleur (Fig. 22-3). Pour backburners, maintenez la flamme contre le matériau perforé de la veilleuse. Pour sideburners, maintenez la flamme contre le brûleur.
3. Tout en maintenant le match ou flamme d'un briquet à proximité du brûleur, appuyez sur le bouton de contrôle approprié et en appuyant son tour dans le sens antihoraire à la position **LIGHT HI**. Enlevez l'allumeur ou assortissez quand le brûleur s'allume, et libérez le bouton de commande.
4. Si le brûleur ne se allume pas dans les cinq (5) secondes de tourner le bouton de commande, enfoncez immédiatement le bouton et tournez la valve à AU LOIN. ATTENDEZ CINQ (5) MINUTES avant de répéter les étapes 2 à 4 des instructions manuelles d'éclairage.

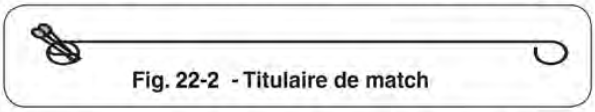


Fig. 22-2 - Titulaire de match

Fig. 22-3 **- MAllumage manuel**

ARRÊT DU UNITÉ

Pour couper le unité, diminuez chaque bouton de commande de valve et tout en pressant tour il dans le sens des aiguilles d'une montre à la position de repos.

Fermez toujours la valve de la fourniture de gaz après chaque utilisation du unité.

OPTIONAL INFRARED BURNER OPERATION

The infrared (IR) searing burner (optional) cooks with a powerful radiant heat.

NOTE: ONLY ONE INFRARED BURNER IS PERMITTED FOR USE ON AOG GRILLS.

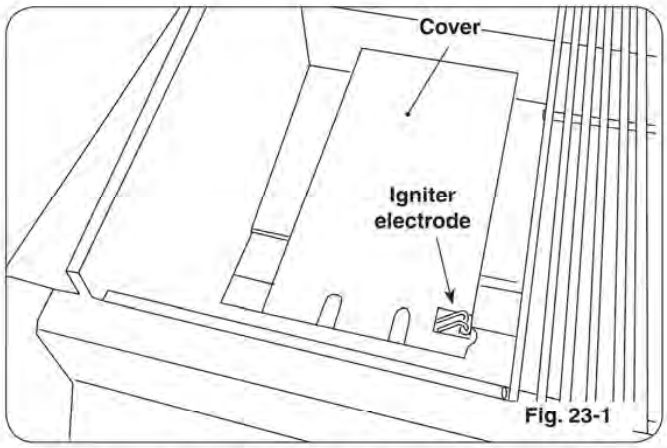


Fig. 23-1

Light the infrared burner following the LIGHTING INSTRUCTIONS in this manual or printed on the drip tray. Follow these guidelines when operating the Infrared burner:

- **DO NOT place food on the cooking grid until the IR burner glows orange (Fig. 23-3).** Drippings are heated and evaporate instead of sticking to and impairing burner function.
- **For cleaning purposes; always leave your burner on (after cooking) for an additional 5 minutes, to allow for a burnoff period. This is important to keep your burner clean and operating properly.**

  As the burner is self cleaning (at full temperature); avoid the use of cleaners or abrasives.
- When not in use, **always** cover the infrared burner with the stainless-steel cover. This protects the burner from drippings (from other cooking), airborne particles, and foreign objects (Fig. 23-2).
- Do not strike or scratch the burner ceramic as it may chip, crack, or break (Fig. 23-2).

Important: When grilling with the infrared burner, always place a cooking grid above it. The cooking grid must be removed for rotisserie cooking.

CAUTION: DO NOT operate your IR burner with the oven hood closed.

CAUTION: Never attempt to operate the IR burner with the protective cover in place.

WARNING

Only handle the infrared burner cover when the unit is cold or with a well-insulated long-handled tool or heat resistant gloves.

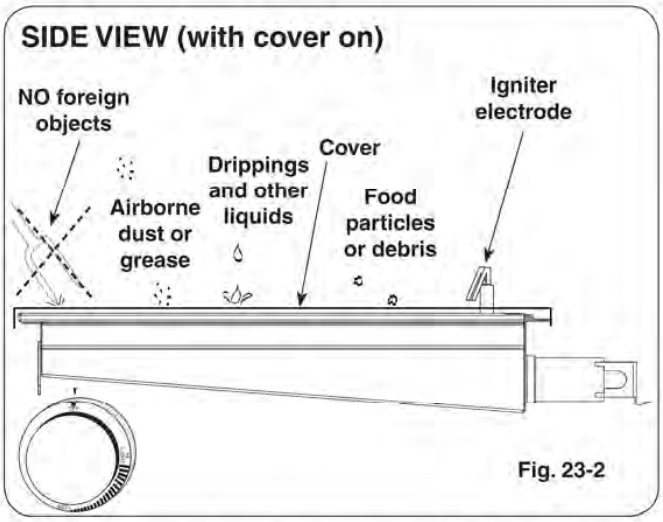


Fig. 23-2

Burner ceramic must be protected with cover when burner is not in use.

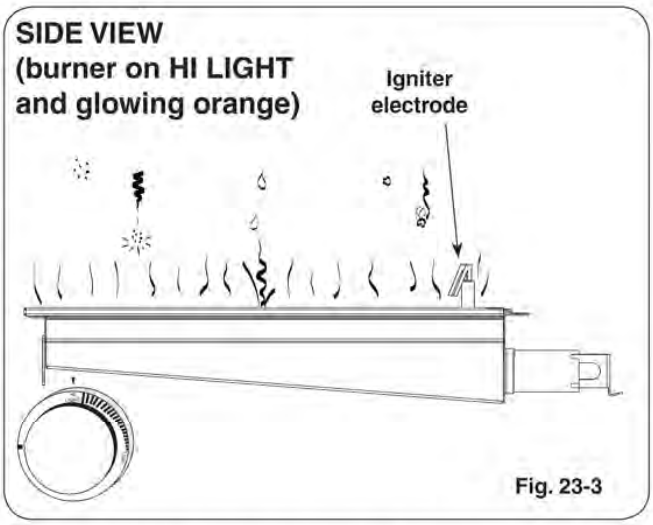


Fig. 23-3

Drips and particles evaporate before hitting infrared burner when cooking at the maximum setting.

Note: Vaporizer panels are not to be used with infrared burners.

To ensure proper operation, all infrared burners (back and main) must be operated on the HI setting for a minimum of 10 minutes. Thereafter, the flame may be lowered as desired.

CAUTION: Always monitor the infrared burner flame when operated on low, as it may blow out in high-wind conditions.

ROTISSERIE INSTRUCTIONS (IF EQUIPPED)

CAUTION: <u>WHEN USING THE BACKBURNER; KEEP THE OVEN LID</u> 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.

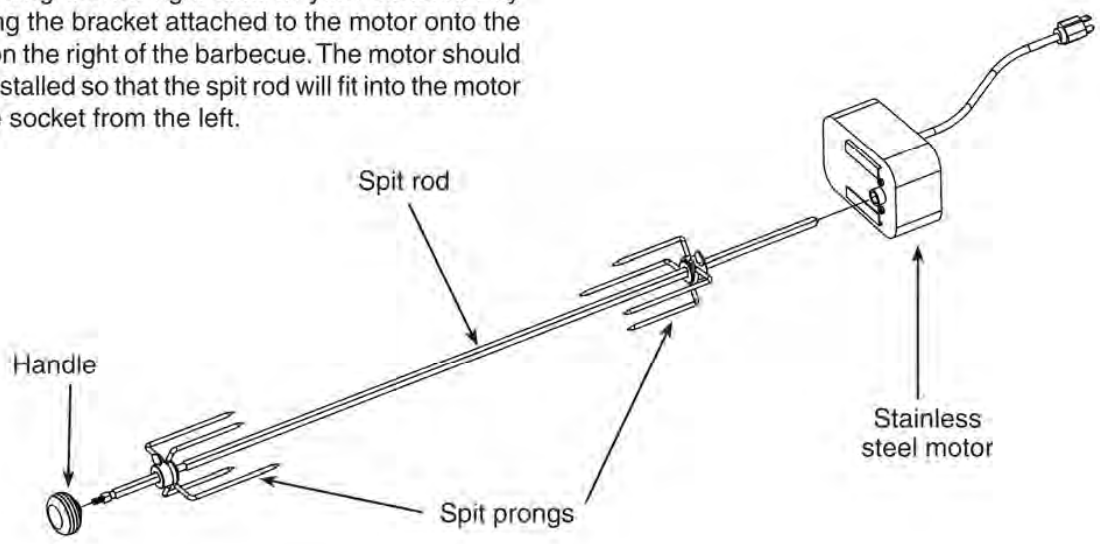
1. Remove the warming rack and cooking grids from the barbecue. The vaporizer panels may also be removed if required.

Tip: Aluminum foil or a baking pan is recommended and may be placed over the main burners / vaporizer panels, a little forward of center, to catch excess drippings from the meat.

2. Attach the rotisserie motor to the rotisserie mounting on the right side of your barbecue by sliding the bracket attached to the motor onto the tab on the right of the barbecue. The motor should be installed so that the spit rod will fit into the motor drive socket from the left.
3. Slide the left spit prong onto the rod (and tighten), the meat onto the rod and into the prong, followed by the right spit prong onto the rod and into the meat. Tighten the right spit prong. Be sure the meat is centered and balanced as well as possible.
4. Insert the pointed end of the rod into the motor drive socket and the groove next to the handle into the left support bracket.
5. Plug in (if necessary) and turn on the rotisserie motor.
6. Light backburner per lighting instructions in this manual (or on drip tray handle) and close oven lid.
7. Allow the backburner to preheat for approximately 10 minutes on **HI LIGHT** setting.

Note: When burning properly, the backburner grating will glow red. The first time it is used the backburner may smoke a little.

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



CARE & CLEANING

APPLIANCE MUST BE COMPLETELY COOL WHEN CLEANING. DO NOT SPRAY ANY CLEANER OR LIQUIDS ON THE APPLIANCE WHEN HOT.

The appliance *must* be cleaned as often as once a month (depending on use) to prevent grease build-up and other food deposits.

A clean and well maintained appliance prevents the risk grease fires. Reference the GRILL MAINTENANCE AND SAFETY section.

COOKING GRIDS

Before and after each use, clean the cooking grids with a Fire Magic Grill Brush (sold separately). Before initial use and periodically, it is suggested that the cooking grids be washed with a mild soap and warm water solution.

Fig. 25-1 Wipe with grain

INTERIOR

THE **BURNER PORTS** AND **CARRY-OVER PORTS/SLOTS** MUST BE KEPT CLEAN TO ENSURE PROPER IGNITION AND OPERATION.

Remove the burner (see the CHECK BURNER ORIFICES section) and clean the ports and slots as required. Also inspect and clean the burner inlet for insects and nests. A clogged burner can lead to a fire in the bottom of the appliance.

The inside of the appliance may be cleaned periodically with oven cleaner if desired. Follow the oven cleaner instructions for proper use.

Be careful not to get oven cleaner on the outside surface of the appliance as it can permanently damage the finish. DO NOT use glass cleaner that contains ammonia when cleaning glass surfaces inside of the unit.

EXTERIOR

Stainless steel surfaces when exposed to temperatures produced by the grilling process will change color. The stainless steel will change color from silver to brown and blue. This can be removed by using stainless steel cleaner.

Clean your appliance by first using stainless steel grill cleaner to remove grease and dirt. Always wipe with the grain (See Fig. 25-1). Next, apply stainless steel polish and wipe down using polish wipes to restore the stainless steel color.

If your appliance is installed in a seaside (salt air) or poolside (chlorine) location, it will be more susceptible to corrosion and must be maintained/cleaned more frequently. Do not store chemicals (such as chlorine or fertilizer) near your stainless steel appliance.

Due to the nature of stainless steel, surface iron oxide deposits may appear. Do not be alarmed – these deposits are removable with stainless steel cleaner through prompt and periodic maintenance. If not attended to promptly, permanent pitting may occur.

By following these recommendations, you will enjoy the beauty and convenience of your appliance for many years to come.

DRIP TRAY

The drip collector allows you to brush or scrape residue from the unit's inner liner into the drip tray. Regular cleaning of the unit's interior with oven cleaner will help prevent grease fires.

Note: When cleaning the drip tray, the drip tray heat shield will first need to be removed to properly clean/empty the tray of its contents.

PROTECTING YOUR APPLIANCE FROM THE WEATHER

An optional cover will protect your appliance when not in use. Allow to cool before covering. Please specify the model number and serial number of your appliance when ordering a cover.

REPLACING HALOGEN BULBS

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

To replace any 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 (tank valve for propane units or gas line shut-off valve for natural gas units.)
2. Disconnect supply of external electrical power to the grill.

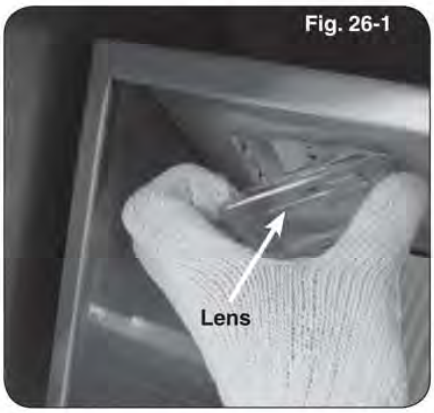
CAUTION: Wait for the grill, oven, lens, light bulb, and fixture to cool before proceeding to the next step.

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.

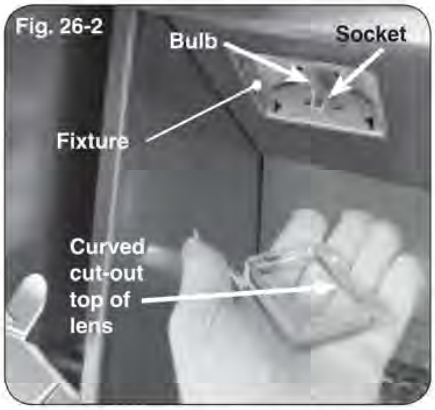
Note: You may wish to take this opportunity to clean the lens with a standard household window cleaner and then dry it completely.



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.

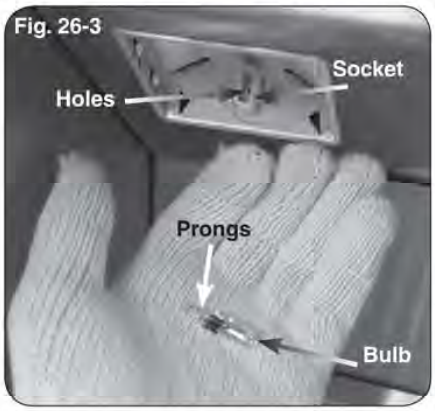
Important: Bulb is halogen. DO NOT TOUCH with bare hands. Oils from hands drastically reduce bulb life.

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 cut-out on the bottom and snap it back into place.

CONVERT GAS TYPE / CHECK BURNER ORIFICES

CAUTION: Make sure the grill is at a safe temperature and isolated from gas and electrical supplies before beginning.

For your safety, exercise caution, and make sure you have adequate hand protection, such as gloves, when handling metal parts.

A kit is available from the manufacturer to convert your appliance from L.P. gas to natural gas. Contact your dealer for ordering information.

Follow the instructions included with the conversion kit. This section only provides an overview.

To simply check orifices, refer to the CHECK ORIFICE sections.

APPLY CONVERSION LABEL

This grill comes from the factory configured for one type of gas as marked on the label inside the cabinet.

When the grill is converted, the label for the new gas MUST be filled out and applied next to the existing label mentioned above.

CONVERT REGULATOR

The gas regulator, equipped only on natural gas models and located beneath the grill, must be set for the type of gas used to fuel the grill. To check the regulator setting, remove the cap in the center of the regulator (Fig. 27-1, A). Holding the cap vertical (see Fig. 27-2, B), the letters at the bottom of the plastic stalk indicate the gas type for which the regulator is currently configured.

If the text on the bottom of the regulator stalk does not match the gas type connected to the grill, remove the stalk from the cap, invert, and replace into center of cap. Replace cap on the regulator, screwing down until snug.

Note: Models to be connected to household propane or natural gas lines require the regulator (contact your dealer if a regulator needs to be ordered). For models to be connected to L.P. cylinders, the regulator is optional.

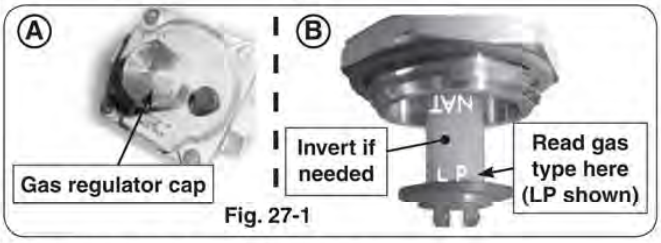


Fig. 27-1

CONVERT GAS ORIFICES

When converting the grill to a different gas type, each burner's orifice must be replaced with the corresponding orifice for the new gas (not included).

See MODEL SPECIFICATIONS TABLE, Table 1 at the beginning of this document to determine the proper orifice sizes for each burner.

See the following sections for details on orifice conversion.

Important: It is critical to the operation of each burner that its orifice be fully inserted into the center of its orifice opening.

WARNING

HAZARDOUS OVERHEATING WILL OCCUR IF A NATURAL-GAS ORIFICE IS USED WITH PROPANE GAS.

CONNECT TO NEW GAS SUPPLY

Plumb the unit as appropriate for the new gas supply. (Additional components may be needed for your specific setup.) **Be sure to leak test at all connections.**

Natural-gas to propane-gas conversions using a tank internal to a portable grill require installation of a propane tank holder (not included). This tank holder must be purchased separately from the manufacturer.

CONVERT/CHECK MAIN BURNER ORIFICES

Note: It may be necessary to remove the rotisserie rod before beginning this procedure.

1. Remove the cooking grid and vaporizer panel from above the burner you are working on and set them aside.
2. Locate the burner. Slightly pinch and remove the burner clip (located over the rear center of the burner) from the burner support and set aside (see Fig. 27-2, A).
3. Carefully lift the burner from the burner support and out from the hole in the forward fire wall (see Fig. 27-2, B).

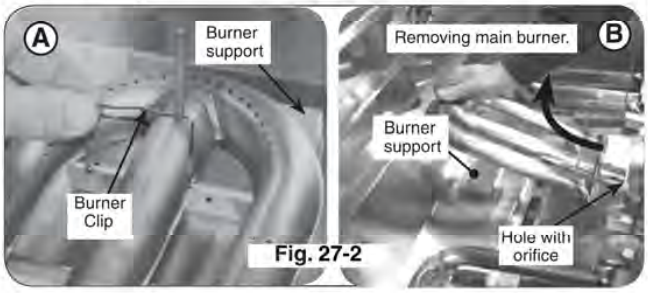


Fig. 27-2

4. Use a $^1/_2$" hex deep socket nut driver to remove the exposed orifice. Access it through the hole in the forward firebox plate inside the grill (Fig. 27-2). Check orifice. If needed, replace it with the correct orifice for the new gas.

   Alternatively, the orifice can be accessed through the inside of the control panel if the proper tool is not available. This allows a $^1/_2$" open-end wrench to be used instead of a $^1/_2$" hex deep socket nut driver. To open the control panel, see the CONTROL PANEL REMOVAL section.

Procedure continued on next page

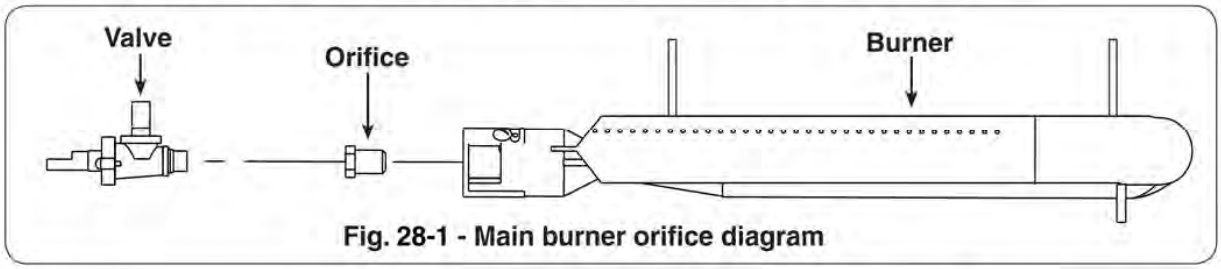


Fig. 28-1 - Main burner orifice diagram

5. Replace the burner over the orifice fitting, sliding it forward, from behind the forward fire wall, so the orifice is centered inside the burner gas inlet, and set it gently onto the burner support. The studs on the bottom back of the burner must each fit through their respective holes in the burner support.

Note: It is critical to the continued safe functioning of the burner that the orifice is centered and completely inside the burner gas inlet.

6. Re-install the burner clip around the burner and into the holes in the burner support.
7. Replace the vaporizer panel and then the cooking grid.
8. Repeat for each burner as necessary.
9. If applicable, reinstall the control panel.

CONVERT/CHECK BACKBURNER ORIFICE (IF EQUIPPED)

Note: It may be necessary to remove the rotisserie rod before beginning this procedure.

1. Remove the backburner electrode mounting screw (1/4" hex) (see Fig. 28-2, A) and loosen the electrode. Carefully pull the electrode assembly slightly from the grill wall to give enough clearance for the backburner to be removed (see Fig. 28-2, B).
2. Remove the backburner mounting screws ($^1/_4$" hex) located at the left end of the backburner assembly (see Fig. 28-3).
3. Carefully pull the left end of the backburner forward until the burner can be moved to the left pulling it free from the orifice located on the right side (see Fig. 28-4).
4. Use a $^3/_8$" hex nut driver to remove the exposed orifice. Check orifice. If needed, replace it with the correct orifice for the new gas.
5. Replace the backburner assembly and the electrode by reversing the procedure in steps **1.** through **3.**

Fig. 28-2 Remove electrode

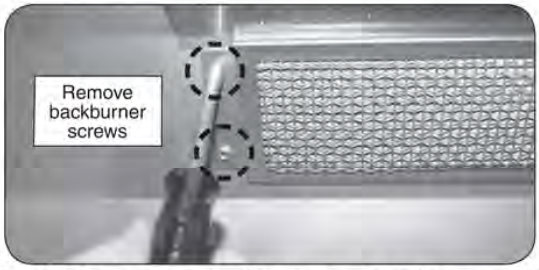


Fig. 28-3 Remove backburner mounting screws

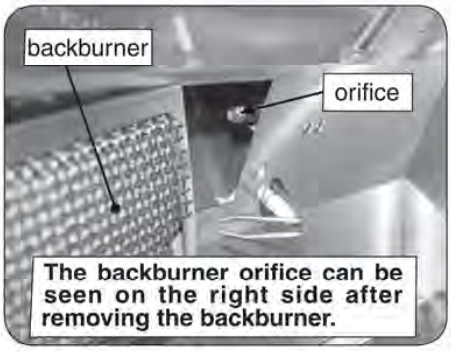


Fig. 28-4 Remove backburner

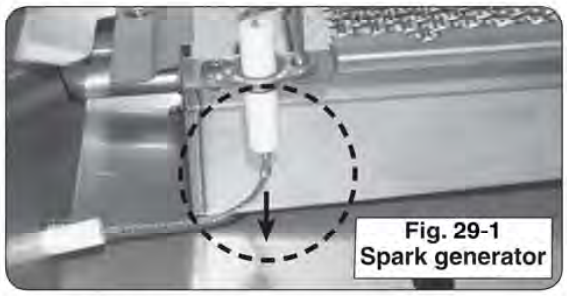
CONVERT/CHECK INFRARED BURNER ORIFICE (IF EQUIPPED)

Note: It may be necessary to remove the rotisserie rod before beginning this procedure.

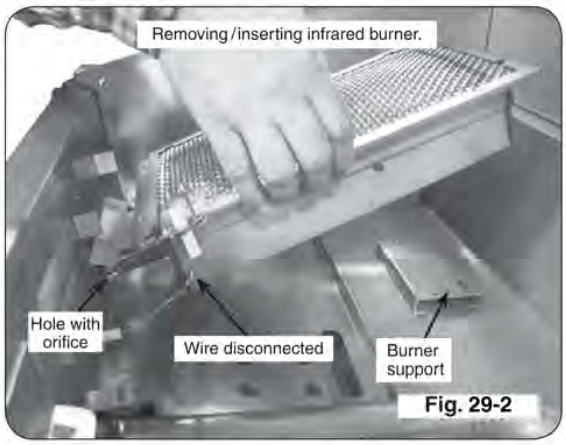
1. Remove the cooking grid from above the burner you are working on and set it aside.

Procedure continued on next page

2. Disconnect the ignitor wire from the bottom of the electrode assembly on the infrared burner (see Fig. 29-1).



3. Carefully lift the infrared burner from the burner support and out from the hole in the forward fire wall (see Fig. 29-2).



4. Use a $^1/_2$" hex nut driver to remove the exposed orifice. Access it through the hole in the forward firebox plate inside the grill (Fig. 29-2). Check orifice. If needed, replace it with the correct orifice for the new gas.

   Alternatively, the orifice can be accessed through the inside of the control panel if the proper tool is not available. This allows a $^1/_2$" open-end wrench to be used instead of a $^1/_2$" deep socket nut driver. To open the control panel, see the CONTROL PANEL REMOVAL section.

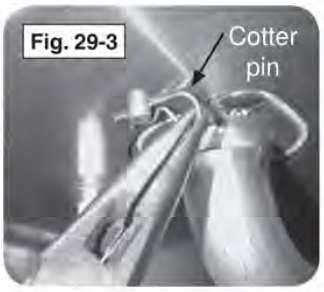
5. Replace the infrared burner over the orifice fitting, sliding it forward, from behind the forward fire wall, so the orifice is centered inside the burner gas inlet, and set it gently onto the burner support. The tabs on the bottom back of the burner must each fit through their respective slots in the burner support.

Note: It is <u>critical</u> to the continued safe functioning of the burner that the orifice is centered and completely inside the burner gas inlet.

6. Reconnect the ignitor wire to the bottom of the electrode assembly on the infrared burner.
7. Replace the cooking grid.
8. Repeat for each infrared burner as necessary.
9. If applicable, reinstall the control panel.

CONVERT/CHECK SIDE BURNER ORIFICE (IF EQUIPPED)

1. Lift the side burner lid. Then remove the grid and side burner cap and set them aside.



2. Locate and remove the cotter pin from the side burner assembly underneath the side burner shelf using needle-nose pliers. Set it aside.
3. From the top of the side burner shelf, lift the side burner upward while rotating the attached tubing underneath away from the orifice near the cart wall. Set it aside.
4. Use a $^3/_8$" hex nut driver to remove the exposed orifice. Check orifice. If needed, replace it with the correct orifice for the new gas.

Note: To protect the manifold threads when placing the new orifice, start the threading manually, and then tighten with the nut driver.

5. Rotate the burner assembly back into place over the orifice and ensure it is firmly seated in the shelf.
6. Reinsert the cotter pin underneath the side burner assembly using needle-nose pliers. It may be necessary to push downward on the burner assembly from above to fully expose the cotter pin hole. Rotate the inserted cotter pin so that it is flush with the underside of the shelf.
7. Replace the burner cap by centering it on the side burner assembly and ensuring it drops in place.
8. Replace the grid with the grating running front to back so that it drops fully down onto the shelf.

BURNER AIR SHUTTER ADJUSTMENT

Important: This appliance may not light or heat evenly or cook properly unless the air shutters are adjusted following installation (see AIR SHUTTER ADJUSTMENT section).

Burner air shutters are easily accessed by removing the control panel. See the CONTROL PANEL REMOVAL section for access.

The air shutters are located on the front portion of each burner and have a locking screw that prevents the air shutter from inadvertent movement (see Fig. 30-1).

Remove the cooking grids & vaporizer panels from the grill.

To close or open the air shutters, simply loosen the locking screw, using a long stemmed Phillips screwdriver, and turn the air shutter to open or close it. Tighten the screws down when the desired setting is achieved.

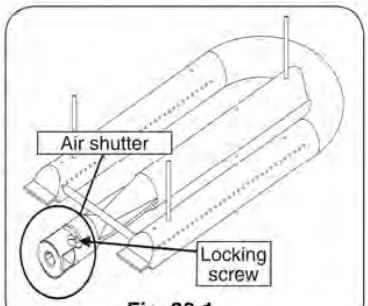


Fig. 30-1

MAIN BURNER

Light the burner to be adjusted in accordance with the LIGHTING INSTRUCTIONS and burn for 2 minutes with the burner control knob set to **HIGH** and the oven open. After burning for 2 minutes, open the air shutter until the flames lift off, or appear not to be touching the burner. Then begin closing the air shutter until the flames appear to burn while touching the burner ports (Fig. 30-2). If flames are a lazy yellow, open the air shutters until the flame is mostly blue.

Note: Grills in some installations achieve a better air/gas mixture and will ignite more quickly if the valve is first turned beyond **HIGH** to **MEDIUM** or **LOW** for lighting.

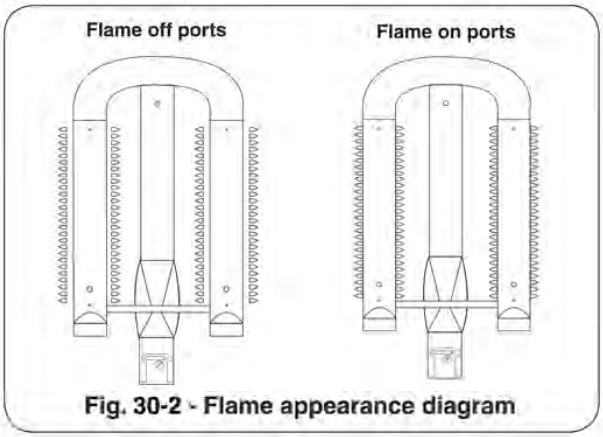


Fig. 30-2 - Flame appearance diagram

SIDEBURNER (IF EQUIPPED)

The flames from a properly adjusted sideburner will touch the burner ports and appear mostly blue.

If the flames are orange, "lazy", or lift off the burner ports, then adjust the sideburner air shutter using the following steps.

Sideburner adjustment is the most accessible (not requiring any hardware to be removed first) and is located underneath the sideburner shelf on the left side of the grill, near the wall of the cart. The sideburner air shutter can safely and easily be adjusted while the sideburner is lit.

CAUTION: Do not touch the sideburner or the shelf immediately around it. They will be hot while adjusting the sideburner air shutter.

1. Light the sideburner following the lighting instructions in this manual.
2. Loosen the sideburner air-shutter adjustment screw, then use the tip of the screwdriver to open or close the air shutter until the flames appear blue and touch the burner ports.
3. Re-tighten the adjustment screw.

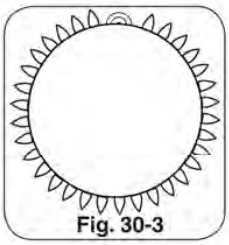


Fig. 30-3

Fig. 30-4

CONTROL PANEL REMOVAL

To open the control panel:

1. **Turn the control knobs to the OFF position and turn off the gas supply to the grill.**
2. Turn off the light switch and disconnect the unit from the power source.
3. Pull the control knobs from their stems and set them aside.
4. Using a Phillips screwdriver, unscrew the control panel fastener screws (located on the sides of the control panel). Retain the screws for later re-installation.
5. Carefully open the control panel by lifting and pulling the control panel from the frame.

Important: When opening, take caution to not damage any wiring. The drip tray can be opened slightly to support the control panel.

To completely remove the control panel:

1. Follow steps 1-5 above.
2. Disconnect the main wire harness connections (**A**), the left light connection (**B**), the right light connection (**C**), and the igniter wires (**D**). It is recommended to temporarily label the wires for reference when reconnecting. See Fig. 31-1. When disconnecting, be sure to pull from the connectors, and not the wires.

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

3. Carefully remove the control panel.

Note: Whenever reconnecting <u>any wires</u>, apply a small amount of dielectric grease to the <u>male</u> 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.

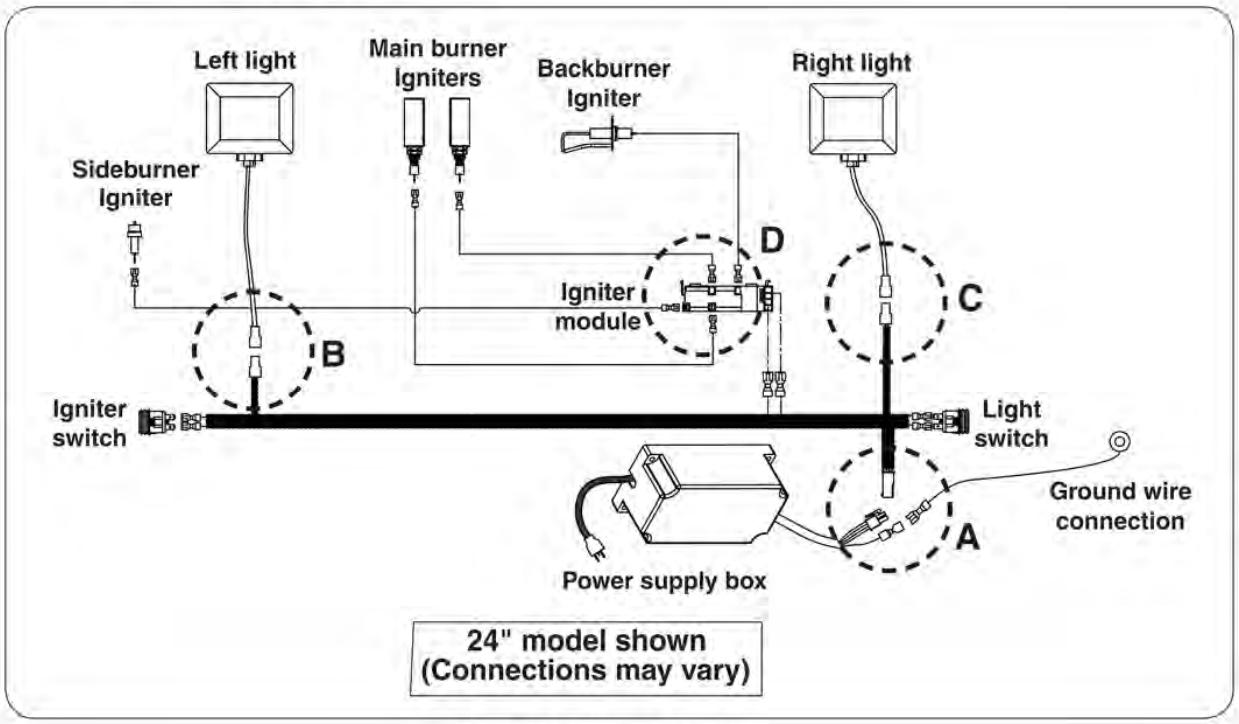


Fig. 31-1 - Wire diagram

NOTES PAGE

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	1. Power supply failure	1a. **System reset:** Disconnect (wait 10 minutes minimum) and reconnect power to unit. With lights OFF, test ignition. 1b. Replace power supply.
	2. Improper air shutter adjustment	2. Adjust air shutters.
	3. Ignition wire disconnected	3. Reconnect wires into igniter module.
	4. Low gas pressure	4. Have the gas co. check supply pressure.
	5. Front carry-over port	5. Clean burner ports.
	6. Igniter switch malfunction	6. Contact dealer for replacement.
	7. Igniter malfunction	7. Contact dealer for replacement.
Insufficient heat / low flame	1. Burner ports clogged	1. Remove burners and clean out ports.
	2. Improper air-shutter adjustment	2. Adjust air shutters.
	3. Using propane orifice for natural gas	3. Check/change orifices.
	4. Low gas pressure/flame (propane)	4. Refill propane tank, or reset propane tank safety*: Shut off all valves (including propane tank) and follow lighting instructions exactly.
	5. Low gas pressure/flame (natural)	5. Have the gas co. check pressure at unit.
	6. L.P. regulator hose cracked due to age	6. Replace L.P. regulator hose.
Uneven heating	1. Burner ports partially blocked by debris	1. Remove burners and clean out ports.
	2. Small spiders or insects in burner	2. Inspect burners and orifices for spider webs or other debris that may block flow.
	3. Improper air shutter adjustment	3. Adjust air shutter.
Rotisserie noisy	1. Rotisserie out of balance	1. Adjust rotisserie counterbalance.
Burner goes out on LOW	1. Valve "Low" setting needs adjustment	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 1/4" in height from burner ports.
Interior light(s) not operating	1. Light switch not functioning	1. Re-connect external power to grill or contact dealer for replacement.
	2. Bulb(s) burned out	2. Contact dealer for replacement.
	3. Power supply failure	3. See 1a of **Ignition system failure** section above and/or replace power supply.
No power to grill	1. Input power source failure	1. Check GFCI / circuit breaker.
	2. Power supply failure	2. See 1a of **Ignition system failure** section above and/or replace power supply.

Table 2

Note: *Propane tanks 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 tank safety shutoff is in effect:** 1) Shut off all grill valves. 2) Shut off tank valve. 3) Open and close a main burner valve. 4) Open tank 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

AMERICAN OUTDOOR GRILL
LIMITED WARRANTY

American Outdoor Grill warrants your grill to be free from defects in material and workmanship.

American Outdoor Grill stainless-steel burners are warranted for **FIFTEEN (15) YEARS**. All other American Outdoor Grill parts are warranted for **TEN (10) YEARS.** (Except as noted below.)

American Outdoor Grill infrared burners and vaporizer panels are warranted for **THREE (3) YEARS**.

American Outdoor Grill ignition systems (excluding batteries) and accesories (including sideburners, motors, and thermometers) 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 in 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, shall commence on the date of purchase, and shall terminate (both as to original and any replacement products) on the anniversary date of the original purchase of the product stated on 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 Owner's Manual/Installation Instructions, accidental damage, improper handling, improper storage, improper installation, **lack of required routine maintenance** (as specified in the Owner's Manual/Installation Instructions), electrical damage, local gas impurities or failure to protect against combustibles. Product must be installed (and gas must be connected) as specified in the Owner's Manual/Installation Instructions by a **qualified professional installer**. Modifications to products which are not specifically authorized will void this warranty. Accessories, parts, valves, remotes, etc. when used 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** apply to rust, corrosion, oxidation, or discoloration unless the affected part becomes inoperable.

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.

Peterson may require the defective product or part to be returned to the factory to determine the cause of failure. Peterson will pay freight charges if the product or part is determined to be defective. 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. Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion may not apply to you. This warranty gives you specified legal rights, and you may have other rights that vary from state to state or province.

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

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

Quality Check			**Date:**_____		
Burner Orifices	**Nat.**	**L.P.**	**Leak Test:** _____	**Model#:**	_____
Main:	____	____	**Burn Test:** _____	**Serial#:**	_____
Back:	____	____	**Gas Type:** Nat. / L.P.	**Air Shutter:**	_____
Side/Power:	____	____		**Inspector:**	_____
Infrared:	____	____			
Other:	____	____			