

FIREMAGIC®

AURORA

STAND ALONE OUTDOOR COMBO GRILL

A830s 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.

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).

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

⚠ 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 installer, service agency, or the gas supplier.

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.



11-093

Certified to: **ANSI Z21.58a-2008**
CSA 1.6a-2008

Robert H. Peterson Co. • 14724 East Proctor Avenue • City of Industry, CA 91746

- INSTALLATION INSTRUCTIONS ET MANUEL DU PROPRIÉTAIRE -

STAND ALONE GRIL COMBINÉ EN PLEIN AIR

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 utilisation 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 après 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'arrière de l'appareil et la construction combustible (45.7 cm à partir des parois latérales et 45.7cm à partir de l'arrière).
- Le régulateur 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

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 dégâts matériels. Référez-vous à ce manuel. Pour l'aide ou l'information additionnelle, consultez un installateur professionnel qualifié, l'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.

RÉGULATEUR ADDITIONNEL DOIT ÊTRE INSTALLÉ AVANT LE GRIL. VOIR LA SECTION DE CONDITIONS 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 un 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.

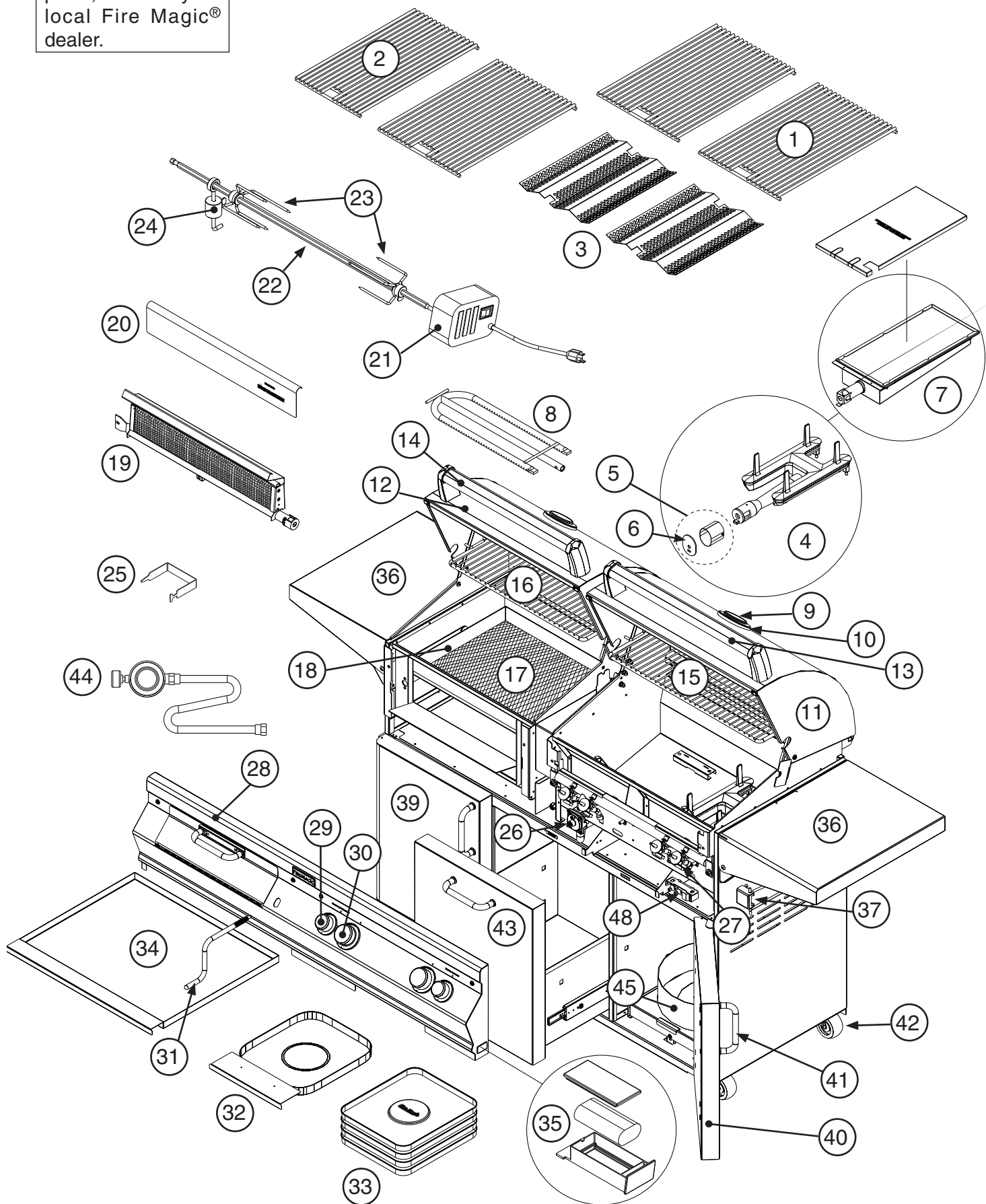
Certifié à la norme: ANSI Z21.58a-2008 / CSA 1.6a-2008

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

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REPLACEMENT PARTS LIST

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



REPLACEMENT PARTS LIST (cont.)

Item	Description	Part No.	Qty.
1.	18x12 stainless cooking grid	3542-S-1	3
2.	18x10 stainless cooking grid	3543-S-1	1
3.	Flavor grid (set of 2)	3063-S-2	1
4.	Main burner	3042-50	2
5.	Heatshield kit	24177-05	2
6.	Silicone gasket	24177-06	2
7.	Infrared burner*	3051	1
8.	Charcoal burner	24133-31	1
9.	Thermometer	24-B-10	2
10.	Thermometer bezel	24-B-29	2
11.	Oven lid (gas grill)	23729-54	1
12.	Oven lid (charcoal grill)	23727-54	1
13.	Oven lid handle w/ mounts (gas grill)	3735-27	1
14.	Oven lid handle w/ mounts (Charcoal grill)	24133-26	1
15.	Warming rack (gas grill)	3672S-M	1
16.	Warming rack (charcoal grill)	3681S	1
17.	Charcoal screen	3306-01	1
18.	Charcoal tray	3306-S	1
19.	Back burner*	24130-11	1
20.	Back burner cover*	24148-010	1
21.	Rotisserie motor*	3600-02	1
22.	Rotisserie rod*	3603-30	1
23.	Meat holder (pair)*	3613	1
24.	Counterbalance*	3620E	1
25.	Grid lifter (equipped or optional)	3519	1
26.	Convertible regulator	PR-4	1
27.	Valve manifold w/ back burner	24330-22	1
or	Valve manifold w/o back burner	24330-24	1
28.	Control panel w/ back burner	24133-05	1
or	Control panel w/o back burner	24133-06	1
29.	Small knob	3016	2
30.	Large knob	3015	2
31.	Crank	23302	1
32.	Drip tray	3084	1
33.	Drip tray liner (set of 4)	3557	1
34.	Charcoal drip tray (set of 4)	3557	1

* Optional

‡ Not shown

REPLACEMENT PARTS LIST (cont.)

Item	Description	Part No.	Qty.
35.	Ignitor battery holder assy (9v)	24180-37	1
36.	Folding shelf	24316-15R/L	2
37.	Paper towel holder assembly	25387-11	1
38.	Tool holder assembly‡	25387-12	1
39.	Door (left)	24370-19L	1
40.	Door (right)	24370-19R	1
41.	Door handle	3900-40	4
42.	Caster kit (set of 4)	3400-7	1
43.	Storage drawer	24370-31	1
44.	Propane regulator / hose assy.	5110-07	1
or	Natural Gas QD hose ‡	5110-03	1
45.	Propane tank tray (propane models only)	25386-21	1
46.	Wire harness assembly‡	24177-24	1
or	Back burner electrode*‡	4199-70	1
47.	Electrode & collector box assy‡	3199-45	2
48.	Ignitor module	3199-44	1
49.	Natural gas orifice(s)‡	3001-42-2	1
50.	Natural back burner gas orifice*‡	3001-52-1	1
51.	Natural charcoal gas orifice(s)‡	3001-40-1	1
52.	Propane gas orifice(s)‡	3001-54-2	1
53.	Propane back burner gas orifice*‡	3001-59-1	1
54.	Propane charcoal gas orifice(s) ‡	3001-53-1	1
55.	Fire Magic® cookbook‡	3595	1

* Optional

‡ Not shown

Fire-Magic® Model Specifications Table

Table 1	A830s
Side to side—shelf extended (in.)	56"
Front handle to back hanger (in.)	26"
Wheel bottom to top of open lid (in.)	57- ¹ / ₂ "
Main burner BTU N/P orifice drill size	25,000 #42/#54
Backburner BTU N/P orifice drill size	16,000 #52/#59
Charcoal burner BTU N/P orifice drill size	26,000 #40/#53
Infrared searing burner BTU N/P orifice drill size	16,500 #49/#56

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.**
 - b. **The propane cylinder, regulator, and rubber hose must be in a location not subject to temperature above 125° F (51° C).**
4. 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).
5. The in-line gas valve or gas cylinder valve must always be shut OFF when the grill is not in use.
6. The drip collector holes must be clear and unobstructed. Excessive grease deposits can result in a grease fire.
7. The backburner or infrared cover must be removed before using the burner.
8. All surfaces of the unit become **HOT** during use. Exercise caution when using this unit, especially when adding charcoal or cranking the charcoal pan up or down.

WARNING: NEVER cover the entire 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.

INSTALLATION REQUIREMENTS

This grill is designed for outdoor use only. **DO NOT** use this grill under unprotected flammable surfaces. **DO NOT** use this grill inside a building, garage, enclosed area, or an unprotected covered area (see EXHAUST REMOVAL below). **DO NOT** use this grill in or on a recreational vehicle or boat.

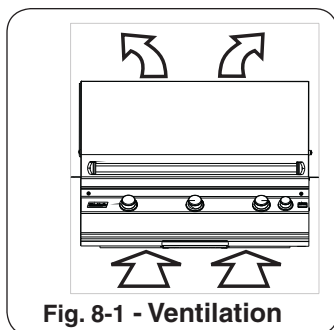
IMPORTANT: This grill is NOT insulated, and therefore the unit, when in operation, must be located with a minimum of 18" (45.7 cm) of side and back clearance from unprotected combustible materials such as wood, plastic, or stucco with wood framing.

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

ENSURING PROPER COMBUSTION AIR AND COOLING AIRFLOW

Proper airflow (Fig. 8-1) **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.



EXHAUST REMOVAL

If installed or used under a patio roof, the cooking grid area must be fully covered by an exhaust hood with a vent. An exhaust fan with a rating of 1,000 CFM (cubic feet per minute) (472 liters per second) or more may be necessary to effectively remove smoke and other cooking by-products from the area under the hood. **Fire Magic Vent Hoods are available to meet this requirement.** This outdoor grill must not be used under unprotected overhead combustible construction. **THIS UNIT MUST NOT BE LOCATED IN A FULLY ENCLOSED AREA OF ANY KIND.**

INCORRECT

Rear oven lid vent



**YOU MUST PROTECT
REAR OVEN VENT FROM
PREVAILING WIND**
Fig. 8-2

CORRECT



**PLACE GRILL SO PREVAILING
WIND BLOWS TOWARD FRONT
OF GRILL**
Fig. 8-3

CAUTION: Wind blowing into or across the rear oven lid vent (Fig. 8-2) can cause poor performance and/or dangerous overheating. Orient the grill so that the prevailing wind blows toward the front of the grill (Fig. 8-3).

CAUTION: To prevent dangerous overheating, the rear of the unit must have a minimum clearance of 4" (10.2 cm) from any backsplash/wall.

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).

INSTALLING THE STAND-ALONE UNIT

LOCATION PREPARATION

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

WHEELS AND CASTERS

To lock a caster press down on the side of the lever with the word "OFF" stamped on it until it stops and the caster will not turn. To unlock, press down on the side stamped "ON."

Caster in locked position

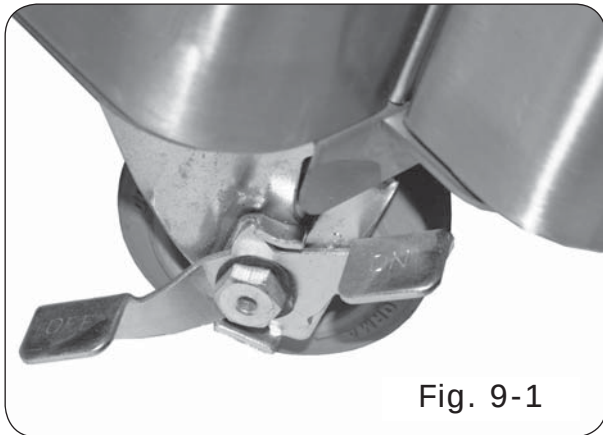


Fig. 9-1

CONNECTING THE GAS SUPPLY

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:

- a. **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 stand-alone unit, to the gas supply. Connect the $\frac{1}{2}$ " NPT socket at the end of the hose to the gas supply. Use pipe joint compound that is resistant to all gasses on the male pipe fitting and tighten securely. **DO NOT use pipe joint compound to connect the flare fittings.**
- b. 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.**

INSTALL THE TOOL HOLDER AND PAPER TOWEL HOLDER

The rectangular mounting bracket for the tool holder and the paper towel holder come pre-attached to the sides of the cart.

Unpack the holder portion, squeeze the open ends together slightly, and install them into the mounting bracket (see Fig. 9-2). Next, release the hanger so that the ends extend out through the holes in the top and bottom of the mounting bracket (Fig. 9-3, 9-4).

When not in use, the racks may be folded back against the wall of the grill (Fig. 9-3, 9-4).

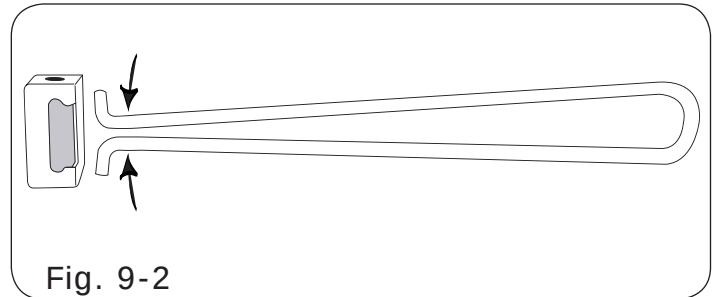


Fig. 9-2

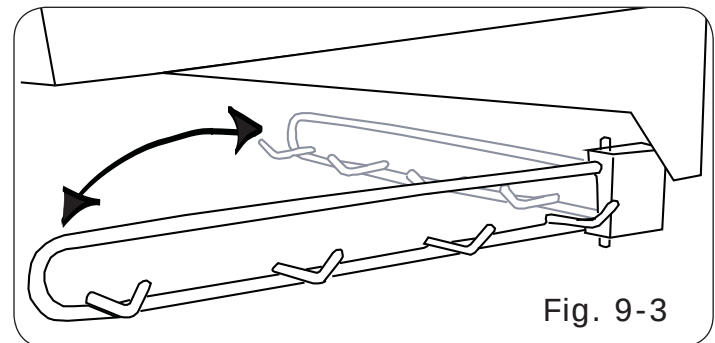


Fig. 9-3

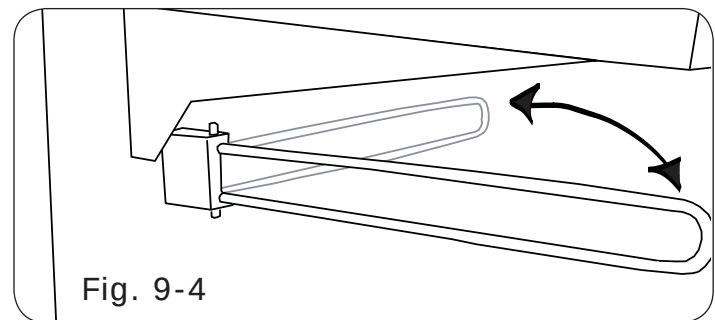


Fig. 9-4

CRANK INSTALLATION

Fit the crank handle into the hole on the front right side of the face. Aligning it carefully, screw it into the nut on the frame. After installation, crank the handle in and out to raise and lower the charcoal pan.



— 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

- 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.
- 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.
- 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.
- 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.
- Le régulateur de pression et l'ensemble de tuyau (fig. 10-1) fourni avec cet appareil à cuire extérieur de gaz doivent être utilisés. Les régulateurs d'original et de pression de remplacement et les ensembles de tuyau doivent être ceux indiqués par le fabricant pour le raccordement avec un dispositif se reliant de cylindre identifié comme type I par la norme ANSI Z 21.58-2007/CGA 1.6-2007 avec la norme ANSI Z 21.58a -1998 d'addenda et CGA 1.6a - M98.
- 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.
- 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.

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. 10-1).

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.

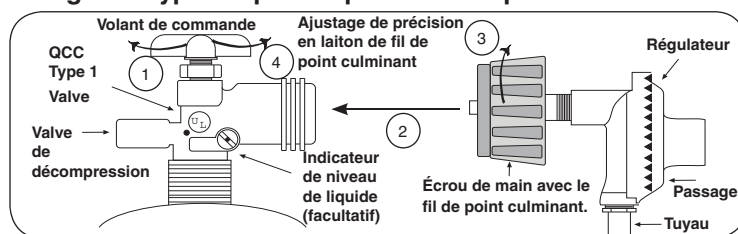
Inspectez soigneusement l'ensemble de tuyau chaque fois avant que le gaz soit allumé. Un tuyau criqué ou frangé devrait être remplacé immédiatement.

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 filettées étroitement installées, et ne doivent pas être stockés dans un bâtiment, le garage, ou n'importe quel autre secteur inclus.

POUR VOTRE SÛRETÉ

- Ne stockez pas un cylindre de gaz disponible de propane dessous ou ne vous approchez pas de cet appareil.
- Ne remplissez jamais cylindre au delà de 80 pour cent de plein.
- 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. 10-1 type coupleur rapide de fil de point culminant d'I



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

FIXATION DU CYLINDRE DE GAZ DE PROPANE

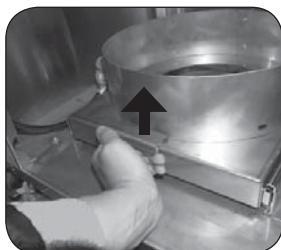


Fig. 10-2

1. Soulevez la poignée de verrouillage pour ouvrir le plateau et pour tirer à l'extérieur.

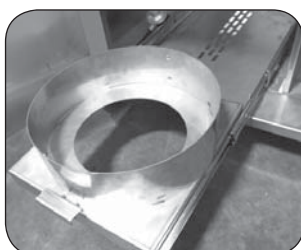


Fig. 10-3

2. Placez le cylindre de gaz de propane gaintement sur le plateau avec la base insérée dans le trou central et le collier s'ouvrant au dos. Suivez les instructions de relier ci-dessus l'approvisionnement.



Fig. 10-4

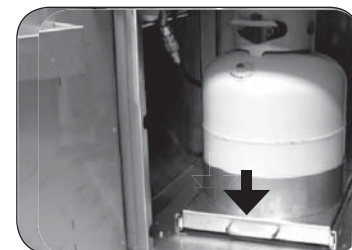


Fig. 10-5

3. Avec le cylindre de gaz en place et relié, glissez le plateau de nouveau dans la poignée de verrouillage de chariot et de serrure en poussant fermement en bas.

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

- 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.**).
- 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.
- 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*.
- The cylinder used must include a collar to protect the cylinder valve, and the cylinder supply system must be arranged for vapor withdrawal.
- The pressure regulator and hose assembly (Fig. 11-1) supplied with this outdoor-cooking gas appliance 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 21.58-2005/CGA 1.6-2005* (see PARTS LIST for ordering information).
- 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.
- 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. 11-1).

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.

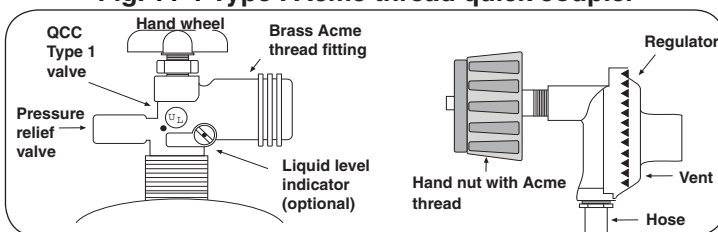
Carefully inspect the hose assembly each time before the gas is turned on. A cracked or frayed hose should be replaced immediately.

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

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

Fig. 11-1 Type I Acme thread quick coupler



SECURING THE PROPANE-GAS CYLINDER



Fig. 11-2

1. Lift latch handle to unlock tray and pull outward.

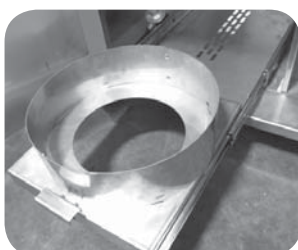


Fig. 11-3

2. Set propane-gas cylinder into the sleeve of the extended tray with base inserted into center hole and collar opening to back. Follow instructions above to connect supply.

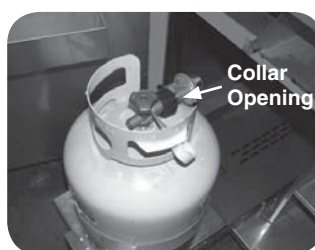


Fig. 11-4

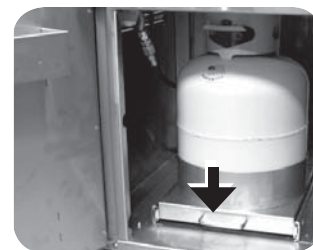
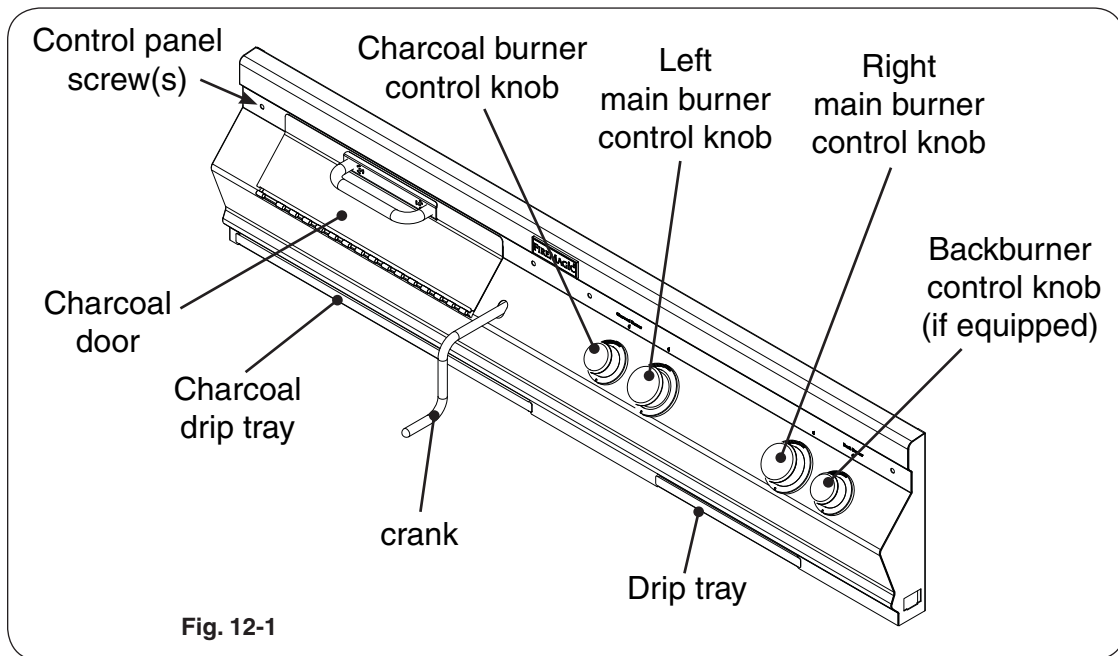


Fig. 11-5

3. With gas cylinder in place and connected, slide tray back into cart and lock latch handle by pushing firmly downward.

IDENTIFICATION OF GRILL CONTROLS



A830 controls

To remove the control panel:

- Turn off the gas shutoff valve.
- Pull off the control knobs. Unscrew and remove the control panel screws and washers. Remove the crank.
- Lift the control panel up and outward, allowing it to rest on the internal chain(s).

Important: During reinstallation; prior to opening the gas shutoff valve, be sure the control knobs are in the OFF position.

LIGHTING (IGNITION) INSTRUCTIONS

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

ELECTRONIC LIGHTING

Note: Electronic lighting requires an installed 9-volt battery with a good charge.

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.

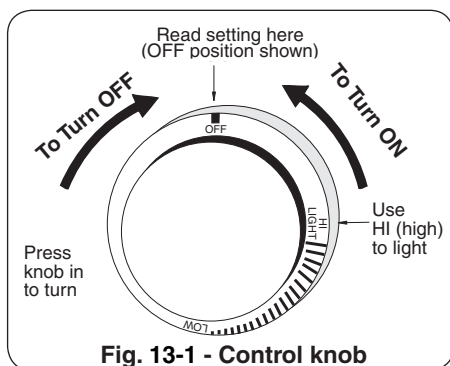


Fig. 13-1 - Control knob

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**, and while pressing turn it 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** 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.

REPLACING IGNITOR BATTERIES

To replace the 9V battery powering the ignitors, pull out the battery holder located on the outside of the control panel. Remove the lid. Disconnect the battery from the connector and replace it connecting the new battery. Replace the lid and close the drawer (see Fig. 13-3).

CHARCOAL GRILL

Remove the cooking grids and lower the charcoal tray all the way down. Pile your charcoal on the screen (avoid spillage). Light the charcoal burner using the charcoal knob, as described above. Allow it to burn for 5-10 minutes, or until the charcoal has independently lit. Then turn off the charcoal burner.

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. (Fig. 13-2). For backburners, hold the flame against the surface of the backburner. For charcoal burners, hold the flame near the burner.
3. While holding the match or lighter flame at the top of the lighting tube or next to the burner (backburner and charcoal burners only), depress the desired 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, **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.

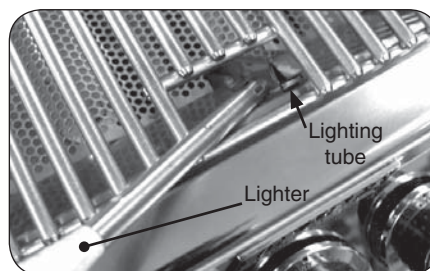


Fig. 13-2 - Manual lighting

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: L'éclairage électronique exige une batterie installée de 9 volts avec une bonne charge.

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.

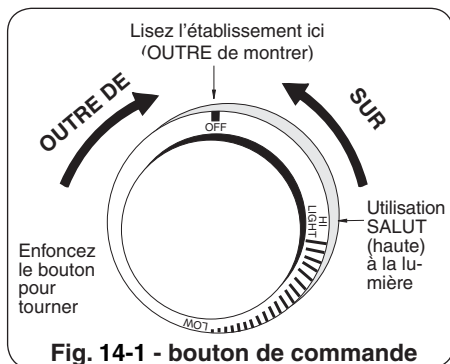


Fig. 14-1 - bouton de commande

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

4. Diminuez le bouton de commande désiré pendant 5 secondes, et tout en pressant le tour il dans le sens contraire des aiguilles d'une montre dans la position LÉGÈRE de HI. Une fois que le brûleur s'allume, libérez le bouton.

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.

REEMPLACEMENT DES BATTERIES D'ALLUMEUR

Pour remplacer la batterie de 9V actionnant les allumeurs, retirez le support de batterie situé sur l'extérieur du panneau de commande. Enlevez le couvercle. Démontez la batterie du connecteur et remplacez-la reliant la nouvelle batterie. Remplacez le couvercle et fermez le tiroir (voir la fig. le 14- 3).

GRIL DE CHARBON DE BOIS

Enlevez les grilles à cuire et abaissez le plateau de charbon de bois toute la manière vers le bas. Empilez votre charbon de bois sur l'écran (évitiez le débordement). Allumez le brûleur à charbon de bois utilisant le bouton de charbon de bois, comme décrit ci-dessus. Permettez-lui de brûler pendant 5-10 minutes, ou jusqu'au charbon de bois a indépendamment Lit. Arrêtez alors le brûleur à charbon de bois.

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. Passez un allumeur brûlant de butane de long-baril ou une allumette brûlante de long-tige dans la grille à cuire s'ouvrant au dessus du tube d'éclairage. (Fig. 14-2). Pour des backburners, tenez la flamme contre le surface du backburner. Pour des brûleurs à charbon de bois, tenez la flamme près du brûleur.
3. Tout en tenant l'allumette ou la flamme plus légère au dessus du tube d'éclairage ou à côté du brûleur (sideburner et brûleurs à charbon de bois seulement), diminuez le bouton et tout en pressant le tour de commande désirés il dans le sens contraire des aiguilles d'une montre dans la position LÉGÈRE de HI. Enlevez l'allumeur ou assortissez quand le brûleur s'allume, et libérez le bouton de commande.
4. Si le brûleur ne s'allume pas, 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.

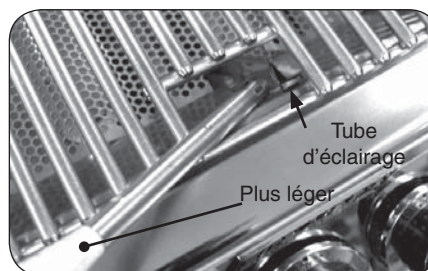


Fig. 14-2 - Éclairage manuel

ARRÊT DU UNITÉ

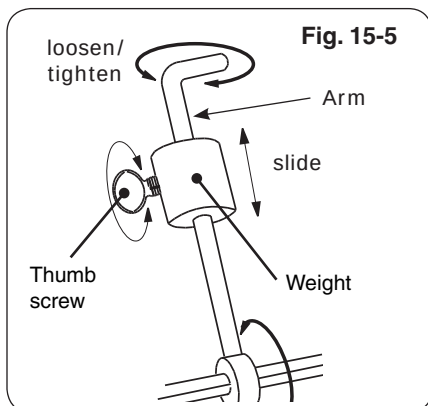
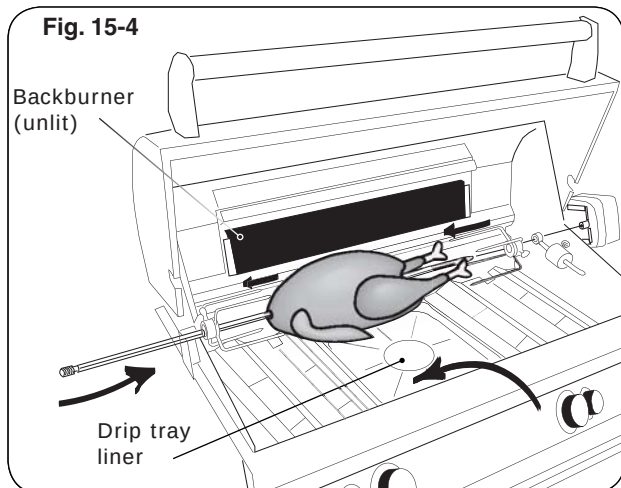
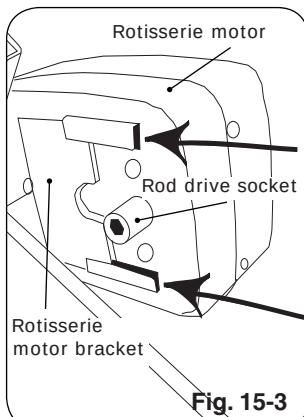
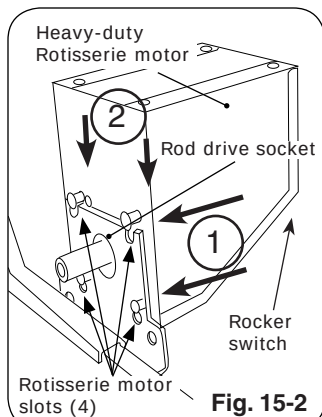
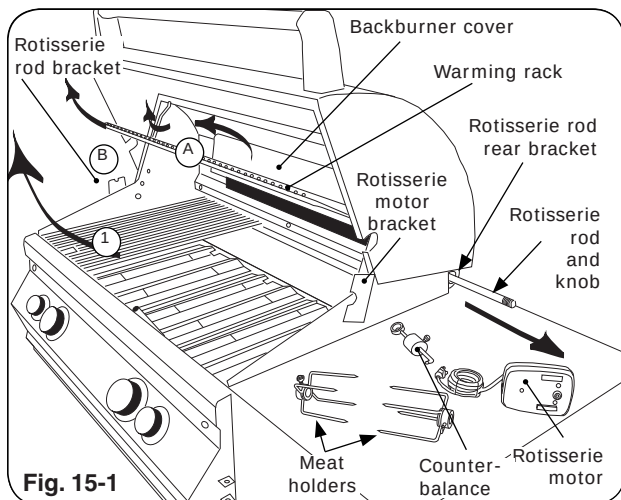
Pour couper le unité, diminuez chaque bouton de commande de valve et, et tout en pressant tour il dans le sens des aiguilles d'une montre à la position de repos.

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



Fig. 14-3

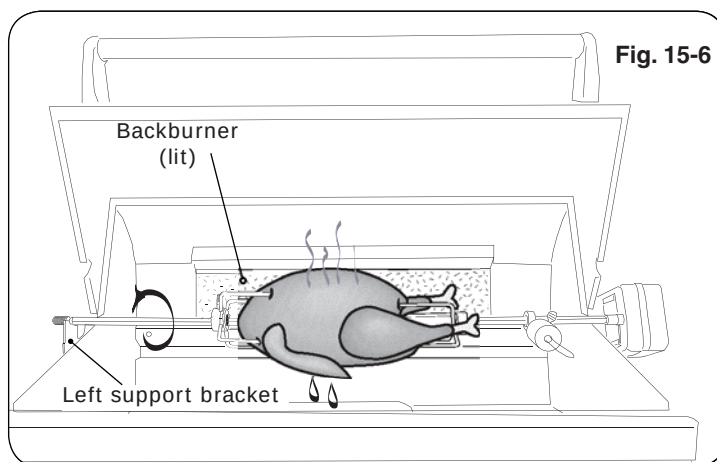
OPTIONAL ROTISSERIE



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.

1. Remove warming rack, backburner cover, and cooking grids. Leave the flavor grids on if possible.
 2. Slide rotisserie motor fully onto motor bracket (right side, Fig. 15-2 or Fig. 15-3, and Fig. 15-1).
 3. Remove rotisserie rod from rear bracket (Fig. 15-1) and attach knob if necessary.
 4. Slide the left meat holder onto the rod (and tighten), the meat onto the rod and into the holder, followed by the right meat holder onto the rod and into the meat as shown in Fig. 15-4. Tighten the right meat holder. Be sure the meat is centered and balanced as well as possible.
 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 counterbalance onto rod next to the meat holder. 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 (Fig. 15-5 and Fig. 15-6).
 10. Insert the pointed end of the rod into the motor drive socket and the groove next to the knob into the left support bracket.
 11. To keep drippings off the burners and simplify cleanup, place Fire Magic® drip tray liners under the meat, if desired (Fig. 15-4).
 12. Plug-in the rotisserie motor and press the rocker switch to start.
 13. Light backburner per lighting instructions in this manual (or on drip tray handle) and close oven lid.
- Important:** Turn the backburner to low or off when stopping the rotisserie to prevent overcooking.

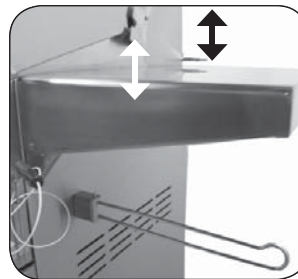


USING THE FOLDING SHELF

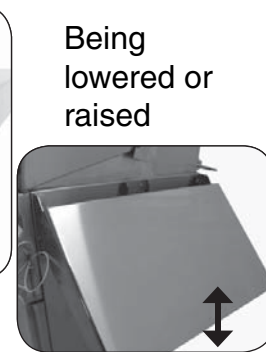
DROP-SHELF OPERATION

- A.** To lower the shelf, grasp the middle of the shelf on both sides and lift upward so that the inner lip of the shelf, along the side of the grill, lifts out of the locking slot. Then use the handle to allow the end of the shelf to slowly rotate down as pictured to the right.
- B.** To raise the shelf, perform the opposite of A. above. Grab the shelf by the handle and raise to the horizontal position. Lift slightly upward from the center of the shelf on both sides, allowing the inner lip to drop down into the locking slot and lock the shelf safely into position.

CAUTION: Do **NOT** place fingers near hinge when closing.



Shelf
up & locked



Being
lowered or
raised



Shelf
down

PAPER TOWEL HOLDER

This Fire Magic® grill comes with a fold-away paper towel holder.

To use the paper towel holder:

1. Make sure the collapsible grill shelf is extended and locked.
2. Grasp the rounded end of the paper towel holder firmly (without compressing it) and pull it away from the side of the grill so that it rotates toward the front of the grill and locks into the extended position.
3. Slide a roll of paper towels over the rounded end of the paper towel holder until the entire roll is on the holder and past the retaining lip.

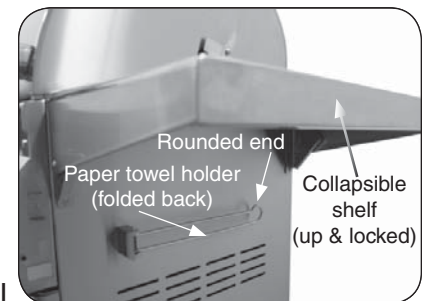


Fig. 16-2

When not in use, the rack may be folded back out of the way by firmly grasping the rounded end of the holder and rotating it back into position against the wall of the grill.

WARNING

Remove paper towels or anything flammable from the holder before folding it back against a hot grill. Placing flammable objects too close to a heat source may cause fire, property damage, or injury.

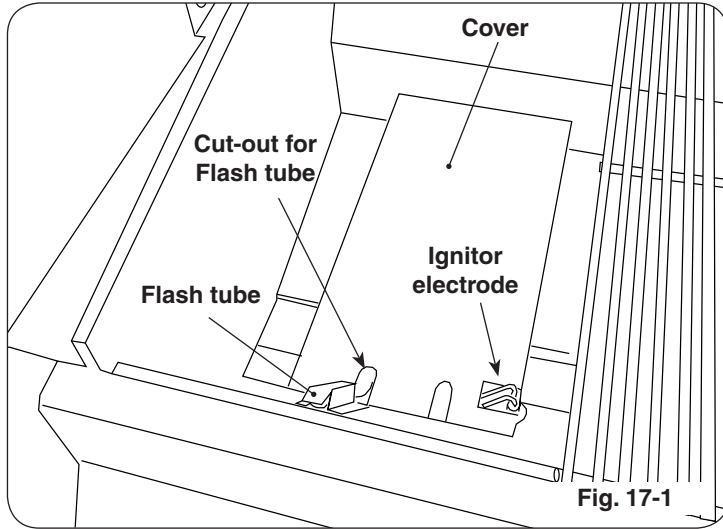


Fig. 16-3

CAUTION: The paper towel holder must be folded back against the grill before lowering the collapsible shelf (see above). Failure to do so could result in damage to the grill.

OPTIONAL INFRARED BURNER OPERATION

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



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. 17-3).** 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. 17-2).
- Do not strike or scratch the burner ceramic as it may chip, crack, or break (Fig. 17-2).

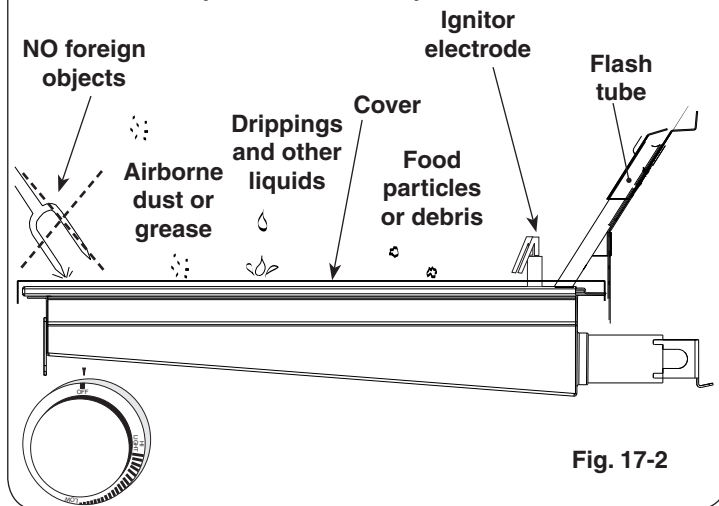
Important: When grilling with the infrared burner, always place a cooking grid above it. The cooking grid must be removed for rotisserie cooking.

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

WARNING

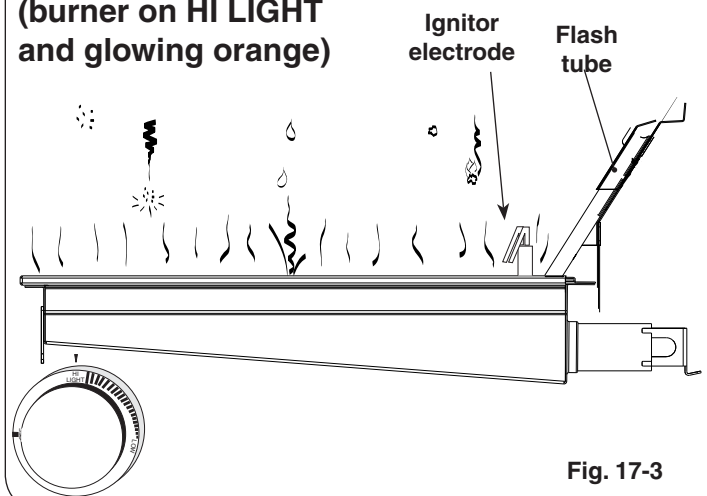
Only handle the infrared burner cover when the grill is cold or with a well-insulated long-handled tool or heat resistant gloves.

SIDE VIEW (with cover on)



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

SIDE VIEW (burner on HI LIGHT and glowing orange)



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

GRILLING TIPS

The art of grilling involves learning the nuances of your grill and knowing how various cuts of meat and other foods cook on it under different settings and conditions.

Each grill will be unique due to its configuration and how it is positioned or installed. This section contains information about how Fire Magic grills were engineered, which will help you in learning how your grill responds to the way you use it.

GRILL HEAT DISTRIBUTION - MAIN BURNERS

The heat level at each part of the grill has been engineered for specific purposes. Knowing the heat distribution for each burner will allow you the best possible food positioning when grilling.

CAUTION: Even the coolest part of the grill is too hot to be touched during operation of the grill.

The front of the grill is designed, for safety reasons, to be the coolest part of the grill. If you look directly down on the grill top, while it is off and cool, you can see this portion of the grill, where the front end of each burner stops and the slope of the inner grill fire wall begins. This area also loses heat most rapidly when the oven lid is opened (see Fig. 18-2).

From the front of the grill moving toward the back, the heat rises gradually until just above the burner's front edge, where it rises rapidly to a fairly even temperature reflected by the digital thermometer. The heat continues to rise gradually until it reaches a maximum directly above the place where the two lobes of each burner connect (see Fig. 18-2). From there to the back of the grill, heat diminishes moderately. This supports the desired temperature for the warming rack and prevents heat from becoming excessive at the back fire wall of the grill.

GRILL HEAT DISTRIBUTION - IR BURNER

Infrared burners are designed for even, searing heat across their whole surface. Because the heat is radiant, it tends to heat the food you are cooking directly without heating the air around it as much as a conventional burner.

CHARCOAL GRILL

The charcoal grill has the added benefit of an adjustable charcoal tray to allow you to change the height of the charcoal while cooking, and gives you the ability to add

fuel without having to remove the cooking grids. This enables the outdoor chef to be in complete control of the cooking heat at the grilling surface.

WARNING

All surfaces of the charcoal unit become **HOT** during use. Exercise caution when using this unit, especially when adding charcoal or cranking the charcoal pan up or down.

Use the access door to add or spread out your coals while cooking.

CAUTION: Use long-handled insulated barbecuing tools to prevent burns from hot metal or coals.

Turning the crank handle raises or lowers the pan to increase or decrease the grilling heat as desired.



Fig. 18-1

WIND CONSIDERATIONS

Wind direction can have an effect on the grill, especially with the oven open. For maximum stability and convenience, position the grill so that the oven opens toward any prevailing wind (Fig. 18-1).

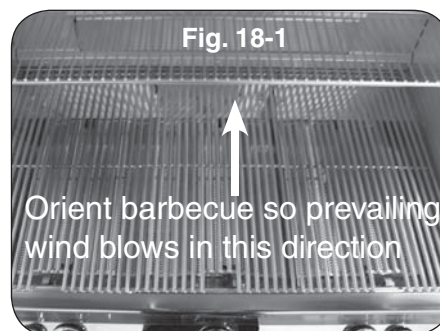


Fig. 18-1
Orient barbecue so prevailing wind blows in this direction

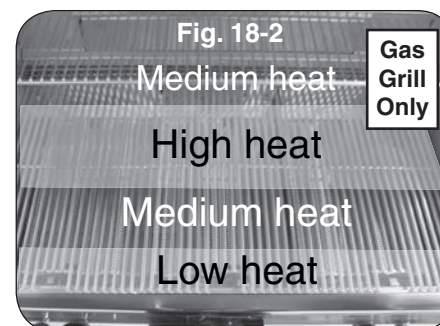


Fig. 18-2

Medium heat

High heat

Medium heat

Low heat

Gas
Grill
Only

THE GRILL BRUSH (OPTIONAL)

Purchase a Fire Magic® stainless-steel grill brush (sold separately) to keep your grill cleaner. It comes with scraper for large particles and a replaceable head with brass bristles for overall cleaning.



Fig. 19-1

Grill brush with replacement head

THE WARMING RACK (if equipped)

The warming rack (Fig. 19-2) is packed separately.

To install the warming rack, lift the front of the rack up slightly and insert the rack hangers into the two holes in the back of the inner oven hood just above the backburner. Then lower the front of the rack into a level position to lock the rack in place.

To remove the warming rack, lift up on the front of the rack until the rack hangers pull free from their supporting holes.

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



Fig. 19-2 Warming rack in place inside oven

THE COOKING GRID LIFTER

Hold the grid lifter by gripping the center section with the prongs pointing down (use an oven mitt or heavy glove if the grill is hot). Insert the notched end of the grid lifter into the cooking grid, in front of the midway point (front to back; Fig. 19-3), and central (left to right; Fig. 19-4). Twist the grill lifter (clockwise or counterclockwise) so the handle is parallel to the grill rods. This “seats” the spiked end of the grid lifter between two rods, enabling you to safely lift out the grid. Lift slowly and adjust the grid lifter, if necessary, for balance.

THE DRIP TRAY

The drip collection system allows you to brush or scrape excess dried residue from the grilling area directly into the drip tray (see PARTS LIST for drip tray location).



Fig. 19-3

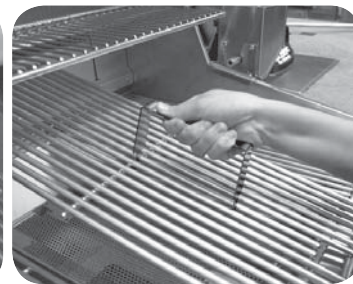


Fig. 19-4

Placement of the grid lifter in cooking grid

THE FLAVOR GRID(S)

Place each flavor grid directly over a burner. The solid areas of the grid should rest over the tabs found on the burner. See Fig. 19-5. **The slightly larger grids are designed to be placed over the outside burners, and the slightly smaller grid(s) are designed to be placed over the interior burner(s).**

Note: This allows heat from the burners to be evenly distributed throughout the cooking area. The flavor grids heat and cool quickly, making the grill very responsive to changes in heat from the burners.

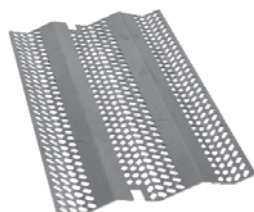


Fig. 19-5
Flavor grid

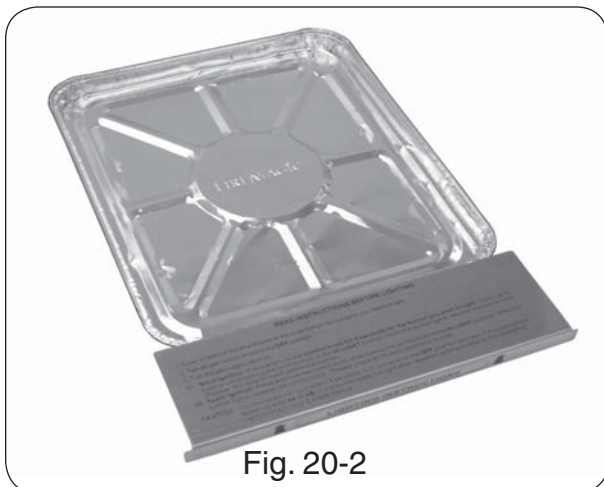


Fig. 20-2

Pull out the drip tray (gas grill side) and place liner

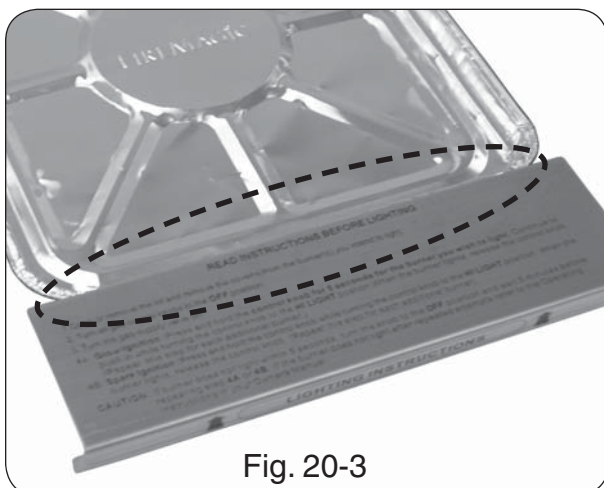


Fig. 20-3

Be sure liner fits under lighting instruction plate

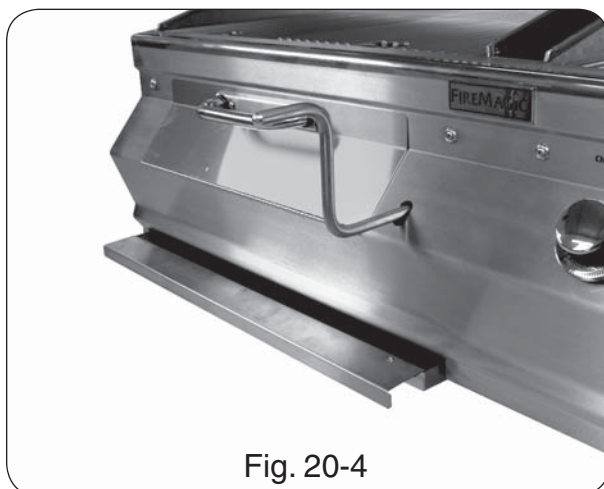


Fig. 20-4

Pull out charcoal drip tray and discard

Drippings from grilling flow through specially designed channels and collect in the drip trays. Check the drip trays regularly and empty when required.

Fig. 20-1



Your grill includes a pack of four (4) Fire Magic® drip tray liners (Fig. 20-1). For your convenience in cleanup, place a liner into the drip tray (gas grill side only) before grilling.

To fit a liner into the drip tray, pull out the tray and set it on a flat, level surface. Place the liner in the drip tray as shown in Fig. 20-2 and carefully insert the tray back under the control panel.

Note: Be sure that the liner is properly placed into the the drip tray. The front of the liner must fit under the drip tray's lighting instruction plate (see 20-3 detail).

After each use, wait for the grill to cool and carefully pull out the drip tray to check it. When a liner is nearing full, carefully lift it out of the drip tray, lifting with both hands to keep the tray level until it is safely discarded. Then insert a new drip tray liner.

Order more drip tray liners through your local Fire Magic® dealer.

Note: The foil tray liner is also useful for setting on burners to cover them and catch drippings directly during rotisserie only cooking.

Note: There are easy to follow lighting instructions etched onto the top of the drip tray handle.

CHARCOAL DRIP TRAY

After each use, wait for the grill to cool and carefully pull out the charcoal drip tray to check it. When nearing full, carefully pull out the drip tray, lifting with both hands to keep the tray level until it is safely discarded.

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.

INTERIOR

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

Remove the burner (see orifice changing instructions) and clean the ports and slots as required. (For Fire Magic grills use Maintenance Kit part #MK-1.) 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.

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 grill cleaner to remove grease and dirt. Always wipe with the grain (See Fig. 21-1). Next, use stainless steel cleaner to restore the stainless steel color (*Note: not for mirror finish*). Finish by wiping your appliance down using polish wipes. **To clean the mirror panel (if applicable), use a quality brand glass cleaner only, not any of the cleaners mentioned above.**

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.



Fig. 21-1 - Wipe with grain

PROTECTING YOUR APPLIANCE FROM THE WEATHER

An optional heavy-duty cover will protect your appliance's finish and protect your investment. The water repellent cover will protect your appliance from the weather. Always cover 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.

IMPORTANT

IN THE EVENT OF A GREASE FIRE, IMMEDIATELY SHUT OFF THE MAIN GAS VALVE TO THE GRILL. 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 GRILL. 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.

CHARCOAL GRILL CLEANING

Empty the charcoal drip tray and screen of all ash and drippings after each use.

Clean the charcoal screen, pan, and the interior of the grill with a water and mild soap solution.

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

TROUBLESHOOTING

If you have trouble with this Fire Magic® grill, 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 grill, please contact your local Fire Magic® dealer or visit our web site at www.rhpeterson.com.

PROBLEM	POSSIBLE CAUSE	CORRECTION
Ignition system failure	1. Low battery. 2. Improper air shutter adjustment 3. Ignition wire disconnected 4. Low gas pressure 5. Front carry-over port 6. Igniter switch malfunction	1. Replace ignitor battery. 2. Adjust air shutters. 3. Plug wires back into ignition switches. 4. Have the gas co. check supply pressure. 5. Clean burner ports 6. Contact dealer for replacement.
Insufficient heat	1. Improper air-shutter adjustment 2. Using propane orifice for natural gas 3. Low gas pressure/flame (propane) 4. Low gas pressure/flame (natural)	1. Adjust air shutters. 2. Check/change orifices. 3. Shut off all valves, including propane tank, and follow lighting instructions exactly. (See important note* below.) 4. Have the gas co. check pressure at grill.
Uneven heating	1. Burner ports partially blocked by debris 2. Small spiders or insects in burner 3. Improper air shutter adjustment	1. Remove burners and clean out ports. 2. Inspect burners and orifices for spider webs or other debris that may block flow. 3. Adjust air shutter.
Thermometer malfunction	1. Battery charge low	1. Replace batteries. Check connections to batteries.
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.

Table 2

*** Important:** 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, shut off all burner control valves and the propane tank valve. Then read and follow the LIGHTING INSTRUCTIONS exactly. Lighting instructions are located in your owner's manual and printed on the grill's metal drip tray. If the problem persists, continue troubleshooting, or contact your local dealer or R. H. Peterson for assistance.

REGULATOR CONVERSION

The gas regulator, located behind the control panel, 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. 23-1). Holding the cap vertical (see Fig. 23-2), the letters at the bottom of the plastic stalk indicate the gas type for which the regulator is currently configured. If the bottom of the regulator stalk does not indicate the gas 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.

Gas regulator
Note the cap on top.

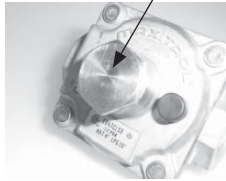


Fig. 23-1



Read gas type here. (LP shown)
Fig. 23-2

GAS ORIFICE CONVERSION

This Fire Magic® grill comes from the factory configured for one type of gas as marked on the label behind the control panel. When the grill is converted, this label must be replaced or updated to identify the new gas.

Each burner has a brass orifice, which can be replaced and must match the gas being used. When converting the grill to a different gas, each burner's orifice must be replaced with the corresponding orifice for the new gas.

Natural-gas to propane-gas conversions using a tank internal to a portable grill require installation of a propane tank holder (not included) for safety and compliance with the ANSI standards referenced on the cover of this document. This tank holder must be purchased separately from the manufacturer.

Consult Table 1 at the beginning of this document to determine the proper orifice sizes for each burner.

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.

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.

Required tools:

- Phillips-head screwdriver (#2 medium)
- Needle-nose pliers
- $\frac{3}{8}$ " hex nut driver (deep socket)
- $\frac{5}{16}$ " hex nut driver

CHANGING THE MAIN BURNER ORIFICES

1. Remove the cooking grid from above the burner you are working on by lifting it first from the front and set it aside.
2. Remove the flavor grid from above the burner you are working on and set it aside.
3. 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 (Fig. 23-3).

CAUTION: The burner is heavy.

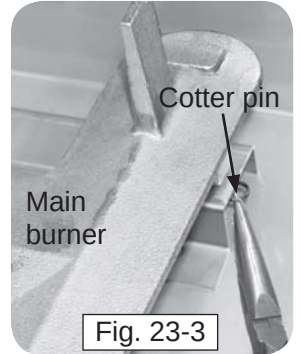


Fig. 23-3

4. Lift the back end of the burner out of the anchor peg holes, then move the burner toward the back of the grill to clear the gas inlet and set it aside.
5. Use a $\frac{3}{8}$ " hex nut driver to remove the exposed orifice (Fig. 23-4) and replace it with the correct orifice for the new gas. (See Table 1 at the beginning of this document for orifice sizes.)
6. Replace the burner by first sliding the open cylindrical end of the burner around the orifice, enveloping it and centering on it, then lower the back end anchor pegs into the anchor peg holes.

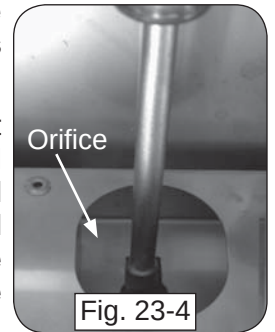


Fig. 23-4

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

7. Reinsert the cotter pin into the right rear burner anchor peg using fingers or needle-nose pliers.
8. Replace the flavor grid and then the cooking grid so that the cutout section of the cooking grid is lined up with the lighting tube.

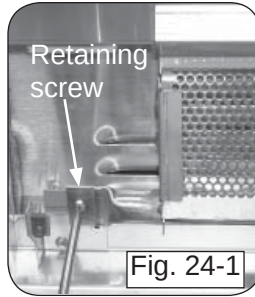
Repeat these steps for each main burner.

CHANGING THE BACKBURNER ORIFICE (IF EQUIPPED)

1. Remove the warming rack if installed and set it aside.
2. Remove the backburner cover.
3. Unscrew all backburner access plate screws using a Phillips-head screwdriver and set them aside.

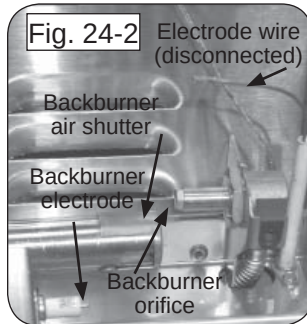
CONVERTING THE GAS TYPE

4. Remove the back panel by pulling the bottom toward the front of the grill and rotating it upward and outward until the two top tabs attached to back wall of the oven can be removed from the slots in the top of the plate.
5. Remove the backburner assembly retaining screw on the lower left of the backburner using a Phillips-head screwdriver and set it aside.
6. Pull the wire from the ignitor electrode (Fig. 24-2), then remove the backburner retaining screw on the left of the backburner (Fig. 24-1) using a Phillips screwdriver.



CAUTION: Be careful not to damage the wires connected to the backburner assembly.

7. Use a $\frac{3}{8}$ " hex nut driver to remove the exposed orifice and replace it with the correct orifice for the gas being converted to (See Table 1 for size).
8. Replace the backburner assembly and reinsert the retaining screw. Center the backburner assembly so that the backburner plate will fit over it. Tighten the retaining screw using a Phillips-head screwdriver.
9. Replace the back panel by first inserting the tabs above into the slots in the top of the plate and then rotating the bottom downward and inward.
10. Replace all the backburner plate screws using a Phillips-head screwdriver.

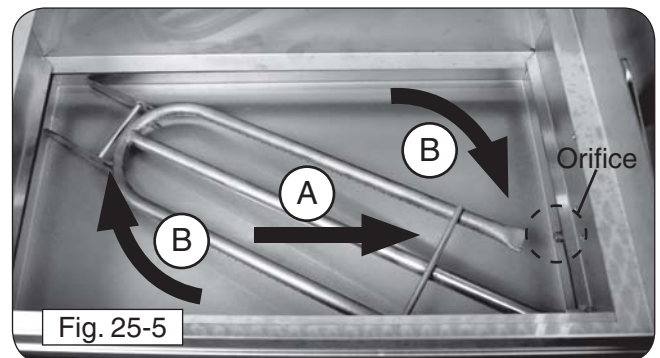
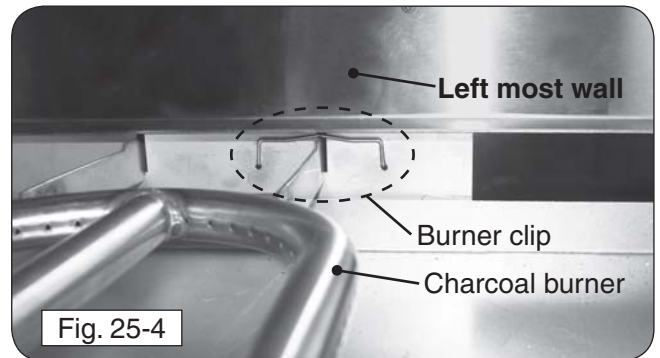
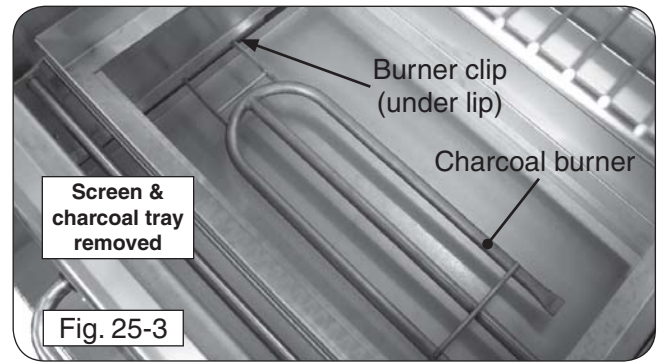


CHANGING AN INFRARED BURNER ORIFICE (IF EQUIPPED)

1. Remove the cooking grid from above the burner on which you are working by lifting it first from the front and set it aside.
2. Unscrew both lighting tube hex head screws with a $\frac{3}{8}$ " hex nut driver.
3. Remove the infrared burner by lifting the back of the burner up so that both tabs are freed from their slots, then lift the burner toward the back of the fire box and upward. Set the burner aside.
4. Use a $\frac{3}{8}$ " hex nut driver to remove the exposed orifice and replace it with the proper orifice for the new gas (see Table 1 for sizing).
5. Replace the infrared burner by first sliding it over the orifice, then lowering the two tabs under the back of the burner into the slots in the back burner rest.
6. Reattach the lighting tube and replace the grid so that the cut-out section is in front.

CHANGING THE CHARCOAL BURNER ORIFICE

1. Remove the two cooking grids from above the charcoal burner.
2. Remove the charcoal screen and charcoal tray (see Fig. 25-3).
3. Remove the burner clip that is located on the inner left most wall. It is located toward the bottom, directly to the left of the charcoal burner (see Fig. 25-3 & 25-4). Use a flathead screwdriver to assist in removal.
4. To unsecure the burner; slightly lift the left side upward, shift the entire burner to the right, then rotate clockwise until the burner clears the orifice (see Fig. 25-5). To remove the free burner; lift the right side upward until it clears the grill interior, then completely lift out the burner (see Fig. 25-6).
5. Use a 3/8" hex nut driver to remove the exposed orifice and replace it with the correct orifice for the gas being converted to (see Table 1 for size).
6. Replace the burner, burner clip, charcoal tray, charcoal screen, and cooking grids.



BURNER AIR SHUTTER ADJUSTMENT

AIR SHUTTER ADJUSTMENT

Important: Air shutters are preset at the factory based on the gas the grill is built to burn. However, altitude or other local conditions may require air shutter adjustment for proper combustion.

MAIN BURNER

Flames from a properly adjusted main burner with no wind or breeze present will appear fairly steady, consistent, and mostly blue. If the tip of a flame were to turn orange, it should only do so briefly and then become blue again. The flames will appear to burn while touching the burner ports (see Figure 26-1).

If the flames have orange in them and appear to undulate slowly from side to side, or if some of them appear to lift off the burner instead of touching it, then adjust the air shutter, as instructed below.

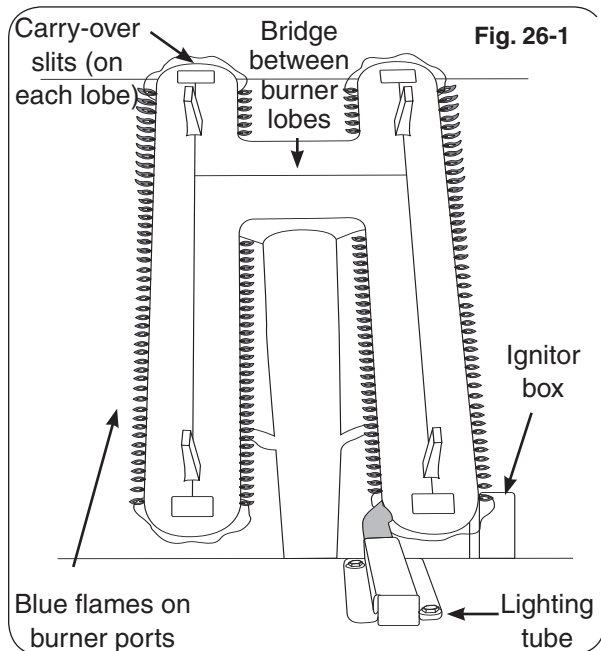


Fig. 26-1

CAUTION: Turn all burner control knobs to the **OFF** position and turn off the gas supply at the source before removing or adjusting a burner.

WARNING

Wait for the burner to be cool or use heavily insulated heat-resistant gloves when handling the burner.

1. Follow the safety precautions and steps for main burner removal in the **CHANGING THE MAIN BURNER ORIFICES** section (steps 1-4).

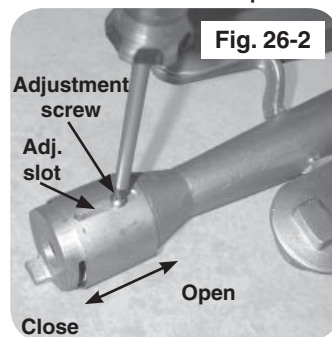


Fig. 26-2

2. Adjust the air shutter opening by loosening the adjustment screw with a screwdriver, then sliding the air shutter backward or forward to open or close the air shutter opening (see Fig. 26-2).

Shutter Setting	Flame Condition
Open too far	Flames shorten and lift off the burner
Ideal setting	Blue flames just touching burner
Closed too far	“Lazy” flames with orange in them

Too large an air shutter opening will allow too much air into the burner, which will cause the flames first to shorten and then to appear to lift up off the ports. For the bottom of the flames to move closer to the ports, close the air shutter more.

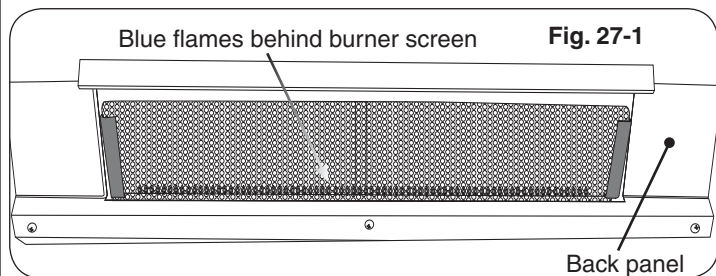
If the air shutter opening is too small or closed, the flames will present consistently orange tips and become “lazy,” slowly undulating back and forth.

For propane gas, ideal settings tend to be just slightly open. For natural gas, which generally requires less primary air than propane, the main burner air shutter may be nearly closed.

3. Adjust the air shutter opening and then replace the burner (steps 6-8 in the **CHANGING THE MAIN BURNER ORIFICES** section)
4. Follow the lighting instructions in this manual to light the burner.
5. Repeat steps 1-4 until the flames appear to touch the burner ports, burning fairly steadily and mostly blue (see Fig. 26-1).

BACKBURNER (IF EQUIPPED)

The air shutter is set at the factory. However, altitude or other local conditions may require air shutter adjustment for proper combustion.



Flames from a properly adjusted backburner will appear as a horizontal line of even blue flames along the bottom of and behind the backburner grating. The grating itself will glow red after it heats up.

Note: It is normal for the backburner to smoke when it is first used. Burning the backburner on **HI LIGHT** for approximately 15 minutes will eliminate the smoking.

If, instead of being blue and even, the backburner flames appear to have orange in them and waver slowly left and right, or if the flames appear to lift off the burner, adjust the backburner air shutter by following the steps below.

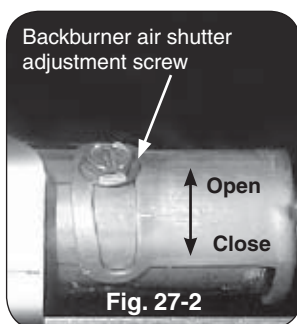
The backburner air shutter adjustment is located behind the right side of the access panel in the back of the oven, above the cooking grid.

Note: It is only necessary to remove the backburner back panel, not the backburner, when adjusting the backburner air shutter.

1. Follow the safety precautions and steps for backburner back panel removal (steps 1-4) in the CHANGING THE BACKBURNER ORIFICE section.

CAUTION: The backburner air shutter can be safely adjusted with the backburner lit if it is adjusted using a long-handled screwdriver or well-insulated fire and heat-resistant gloves.

2. Adjust the air-shutter opening by loosening the adjustment screw with a screwdriver, then sliding the air shutter backward or forward to open or close the air shutter opening (see Fig 27-2). Watch the backburner flames while adjusting the air shutter.



Too large an air shutter opening will allow too much air into the burner, which will cause the flames first to shorten and then to appear to lift up off the ports. For the bottom of the flames to move closer to the ports, close the air shutter more.

If the air shutter opening is too small or closed, the flames will present consistently orange tips and become "lazy," slowly wavering left and right.

3. Continue adjustment until the flames appear to touch the burner ports, burning fairly steadily, consistently, and mostly blue (see Fig. 27-1), then retighten the backburner air shutter adjustment screw.
4. Replace the burner access plate (step 8 in the CHANGING THE BACKBURNER ORIFICE section).

WARRANTY

LIFETIME WARRANTY - Fire Magic® cast stainless-steel burners, stainless-steel rod cooking grids, and stainless-steel housings are warranted for as long as you own your Fire Magic® grill.

FIFTEEN-YEAR WARRANTY - Fire Magic® cast brass burners, brass valves, backburner assemblies (except ignition parts), and manifold assemblies are warranted for fifteen (15) years from the date of purchase of your Fire Magic® grill.

FIVE-YEAR WARRANTY - Fire Magic® charcoal stainless steel grills and smokers (except charcoal pan, thermometer, grid and ash tray) are warranted for five (5) years from the date of purchase of your Fire Magic® grill.

THREE-YEAR WARRANTY - Fire Magic® sideburners and all other Fire Magic® grill components (except ignition and electronic parts) are warranted for three (3) years from the date of purchase of your Fire Magic® grill.

Fire Magic® ignition systems (excluding batteries), electronic components (including lights and thermometers), charcoal pan, charcoal grid, ash tray, and accessories are warranted for one (1) year from date of purchase.

PLEASE KEEP A COPY OF YOUR SALES SLIP FOR PROOF OF PURCHASE

This warranty applies to the original purchaser and to single family residential use only. It commences from date of purchase, and is valid only with proof of purchase.

This warranty does not cover parts becoming defective through misuse, accidental damage, electrical damage, improper handling, lack of routine maintenance, storage, and/or installation. Product must be installed (and gas must be connected) as specified in the instructions or operator's manual, by a **qualified professional installer**. Accessories, parts, valves, remotes, etc., when used must be Peterson Co. product.

This warranty **does not** apply to rust, corrosion, oxidation, or discoloration, unless the affected component becomes inoperable. It **does not** cover labor or labor-related charges.

This warranty specifically excludes liability for **indirect, incidental**, or consequential damages. Some states 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 may vary from state to state.

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.RHPETERSON.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: <u>Nat. / L.P.</u>	Air Shutter: _____	
Side/Power:	_____	_____		Inspector: _____	
Other:	_____	_____			