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# Kenmore 259.16504 Owner's Manual

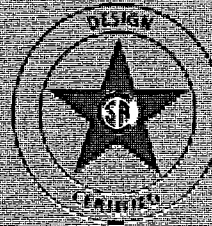
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# FIESTA GAS GRILLS



## Outdoor Gas Barbeque / Grill

Use and Care Manual

TROUBLESHOOTING GUIDE...PAGE 19

### ! WARNING!

**Hazardous Fire or Explosion may result if these instructions are ignored.**

It is your responsibility to see that your new grill is assembled, installed, maintained and cared for properly. Failing to carefully follow the instructions in this manual could result in serious bodily injury and/or property damage.

### WARRANTY INFORMATION

Full Model # (from outer carton):  
\_\_\_\_\_

Date Purchased:  
\_\_\_\_\_

Serial Number (from rating plate):  
\_\_\_\_\_

**SAVE THIS MANUAL FOR YOUR FUTURE REFERENCE**

### ! DANGER!

#### IF YOU SMELL GAS:

1. Shut off gas supply 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 your fire department.

### ! WARNING!

1. Do not store or use gasoline or other flammable liquids or vapors 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.

KEEP YOUR RECEIPT AS PROOF OF PURCHASE TO VALIDATE THE WARRANTY. ATTACH YOUR RECEIPT TO THE INSIDE COVER OF THIS MANUAL FOR EASY REFERENCE.

**NOTE: CUSTOMER SERVICE  
TOLL FREE 1-800-396-3838**

# THANK YOU FOR PURCHASING A FIESTA GRILL AND WELCOME TO THE FIESTA FAMILY!

Fiesta is dedicated to creating the ultimate grill experience by providing you with all the right tools, starting with this manual. It is important to read through the entire booklet prior to using your grill to ensure you fully understand all of the features and how to operate your grill for optimum performance.

The purchase of this grill is only the first step in becoming a member of the Fiesta family, and like good families, we are here to help. Our dedicated team of customer care support specialists are available year-round to answer any questions you may have including; assembly, cooking questions or tips, warranty issues, locating a retailer close to you or placing an order for replacement or upgraded parts.

It is important to register your new grill with us by mailing in the enclosed warranty card.

Please retain this manual for the lifetime of your grill after recording the serial and model number in the appropriate space allocated on the front cover.

- **The serial number** can be found on the silver rating plate located on the grill base or the back support.
- **The full model number** can be found on the white label of your barbecue box or above the serial number on the silver rating plate.

**WARNING:** Combustion byproducts produced when using this product contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

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# GETTING FAMILIAR WITH YOUR GRILL

## WARNING

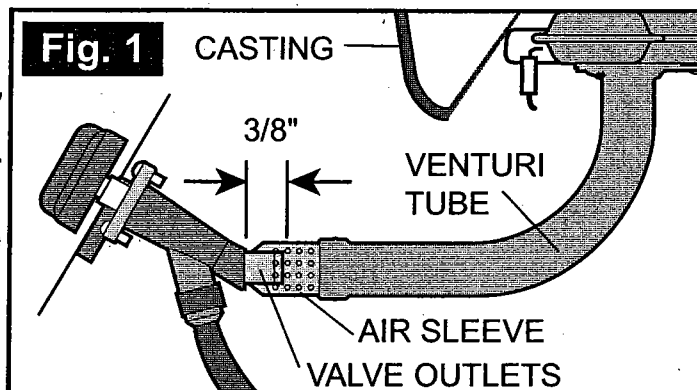
DO NOT USE YOUR GRILL UNTIL YOU HAVE READ AND UNDERSTOOD ALL THE INFORMATION IN THIS MANUAL. IT IS EXTREMELY IMPORTANT TO BE SURE THAT:

### BEFORE YOU USE THIS APPLIANCE

- Your grill is properly assembled.
- There are no leaks in the gas supply system (see 'Leak Testing' section).
- The burner is properly assembled with the venturi tubes seated over the valve outlets (Figure 1 below) and there are no blockages present in the venturi tubes (see 'Cleaning Venturi Tubes' section).
- Electrical supply cords and/or gas supply hoses are kept away from any heated surfaces.
- Your grill is positioned in a safe location (see 'Installation' section).

### Figure 1.

- Ensure valve outlets (orifices) are assembled  $3/8"$  (1 cm) into the venturi tubes.
- Check to see that the valve outlets and venturi tubes are parallel to the bottom of the base casting of your appliance.



## WARNING

FAILURE TO ENSURE THE ABOVE MAY RESULT IN A HAZARDOUS FIRE OR EXPLOSION CAUSING SERIOUS BODILY INJURY AND/OR PROPERTY DAMAGE.

# CARING FOR YOUR EQUIPMENT

## INSTALLATION

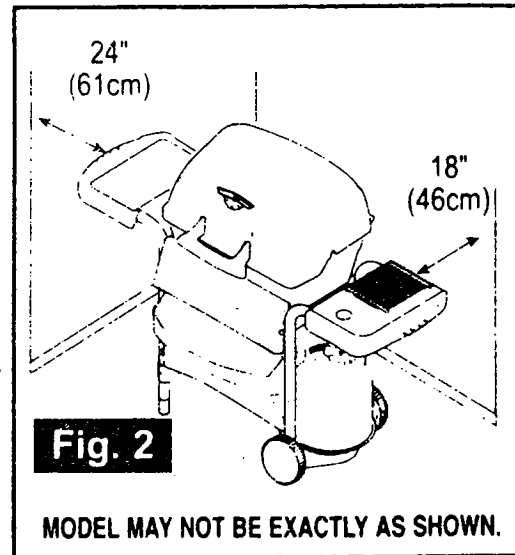
THE INSTALLATION OF THIS APPLIANCE MUST CONFORM WITH LOCAL CODES or, in the absence of local codes, with either the National Fuel Gas Code ANSI Z223.1/NFPA 54, Natural Gas and Propane Installation Code, CSA B149.1, or Propane Storage and Handling Code, B149.2, or the Standard for Recreational Vehicles, ANSI A 119.2, and CSA Z240 RV Series, Recreational Vehicle Code, as applicable.

## WARNING

WHEN DECIDING WHERE TO PLACE YOUR APPLIANCE, FOLLOW THESE MINIMUM CLEARANCE DISTANCES TO ADJACENT COMBUSTIBLE MATERIALS:

## FOR YOUR OWN SAFETY, PRIOR TO EACH USE:

- Only use your grill OUTDOORS in a well ventilated area -- preferably 10 feet (3m) from your residence or any outbuildings.
- Always keep the area around your grill clear of any combustible materials, gasoline, or other flammable liquids.
- Keep the ventilation opening(s) of the cylinder enclosure free and clear of debris.
- **DO NOT** operate this grill under overhead or unprotected construction.
- **DO NOT** obstruct the flow of combustion and ventilation air to the grill.
- **DO NOT** use in garages, sheds, breezeways, or other enclosed areas.
- **DO NOT** store a spare L.P. (propane) cylinder under or near your grill.
- **DO NOT** leave your grill unattended while in operation.
- **DO NOT** allow children to operate or play near your grill.
- **DO NOT** use while under the influence of alcohol or drugs.
- **DO NOT** install/use in or on recreational vehicles and/or boats.



## ELECTRICAL CAUTION

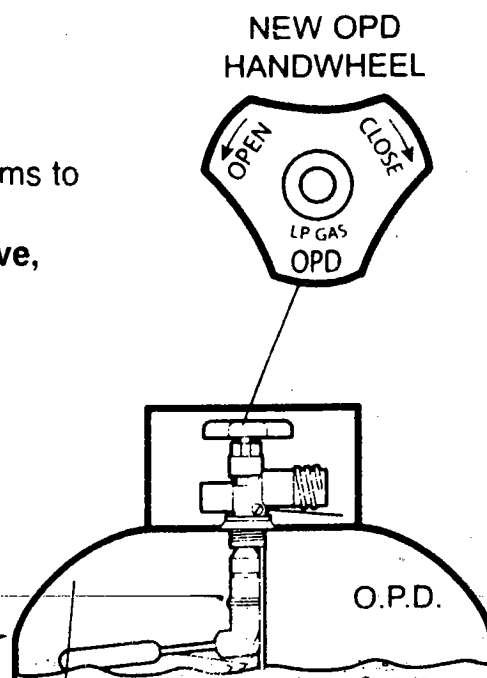
- If any accessory installed on this grill requires an external electrical power source, it must be electrically grounded in accordance with local laws or in the absence of local laws, with the Canadian Electrical Code CSA C22.1 or in the U.S., with the National Electrical Code ANSI-NFPA 70.
- The three-prong plug provides 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.
- Ensure all electrical supply cords and fuel supply hoses are kept well away from any heated surfaces.

## L.P. GAS CYLINDER

Gas cylinders manufactured today have mechanisms to provide worry free grilling year round:

**Q.C.C.1 or Type 1-Quick Connect Coupling Valve**, ensure fast tank hook-ups requiring only hand tightening. The redundant valve system inhibits the flow of gas to the burner if the connection is not 100% correct.

**O.P.D. or Overfill Protection Device** prevents accidental gas leaks caused by cylinder 'over-pressurization', the leading cause of cylinder gas leaks. The float in the tank will automatically stop filling at 80% capacity, leaving a 20% area for the expansion of liquid. Without this safety feature,



## 1. SPECIFICATIONS

Self-contained propane gas grill systems are designed to be used only with a 20 lb (9.1 kg) propane cylinder, equipped with a Type 1 cylinder valve and incorporating an overfill protection device (O.P.D). This grill cannot be connected to an existing #510 P.O.L. type valve (ones with left-hand threads). The cylinder for your gas grill must be constructed and marked in accordance with the specifications of L.P. gas cylinders:

In Canada: The National Standards of Canada CAN/CSA-B339, Cylinders, Spheres and Tubes for Transportation of Dangerous Goods; and Commission.

In the U.S.: U.S. Department of Transportation (D.O.T.)

**DO NOT CONNECT TO A PROPANE GAS CYLINDER EXCEEDING THIS CAPACITY, OR USE A CYLINDER WITH ANY OTHER TYPE OF VALVE CONNECTION DEVICE.**

The Type 1 valve is recognizable by the large external thread on the outlet part of the valve. Standard existing valves do not have these exterior threads. Any attempt to connect a regulator, with other than the:

- i) Mating Type 1 connector (recognized by the large black coupling nut)

**THE CYLINDER MUST ALSO BE EQUIPPED WITH:**

a. A shut-off valve terminating in a proper cylinder valve outlet specified in current standards:

- Canada: CAN/CGA - 1.6a - M98 - Outdoor Gas Grills - Amend. 1.
- U.S.: ANSI Z 21.58a-1998 OUTDOOR COOKING APPLIANCES.

b. A listed overfilling protection device (O.P.D.).

c. A safety relief valve having direct communication with the vapor space of the cylinder.

d. A collar to protect the tank shut off valve.

e. An arrangement for vapor withdrawal.

f. A bottom ring for mounting.

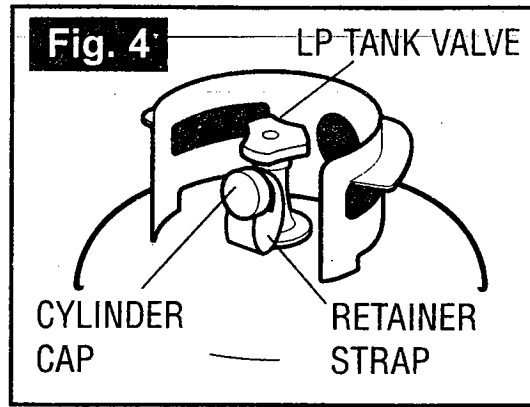
**THE CYLINDER SHOULD NOT EXCEED 18 1/2" (472 MM) IN HEIGHT AND 12 1/2" (317 MM) IN DIAMETER.**

### SAFETY:

- Always turn off the cylinder valve tightly when your grill is not in use.
- Handle tank valves with care.
- Never connect an unregulated L.P. gas cylinder to your grill.
- Never store a spare cylinder under or near your grill when in use.
- Never subject any cylinder to excessive heat or direct sunlight.
- Always keep your in-use cylinder securely fastened in an upright position.
- Do not insert any foreign objects into the valve outlet. You may damage the back-check. A damaged back-check can be the source of a leak. Leaking propane may result in explosion, fire, severe personal injury or death.
- **DO NOT** fill the cylinder beyond 80% full.

**PROPANE GAS IS HEAVIER THAN AIR, AND WILL COLLECT IN LOW AREAS, INCREASING THE ABOVE RISKS. THEREFORE:**

- **ALWAYS** use the cylinder cap provided with your cylinder whenever the cylinder is not connected to your grill. (Figure 4)
- **DO NOT** store in a building, garage or any other enclosed area. Store in a well-ventilated area.
- **DO NOT** store near any gas burning apparatus or in any high-heat areas such as a closed car or trunk.
- Transport and store the cylinder in an upright position -- do not tip on its side.
- Store out of reach of children.
- **DO NOT** smoke while transporting a cylinder in your vehicle.



#### FILLING:

**FOR SAFETY REASONS, IF AN OPTIONAL L.P. GAS CYLINDER WAS SUPPLIED WITH YOUR GRILL, IT HAS BEEN SHIPPED EMPTY. THE CYLINDER MUST BE PURGED OF AIR AND FILLED PRIOR TO USING ON YOUR GRILL. WHEN GETTING YOUR CYLINDER FILLED:**

- Allow only a qualified L.P. gas dealer to fill or repair your cylinder.
- **DO NOT** allow the cylinder to be filled beyond 80% full.
- Make sure the L.P. gas dealer checks the cylinder for leaks after filling.

### WARNING

If the above instructions are not followed exactly, a fire causing death or serious injury may occur.

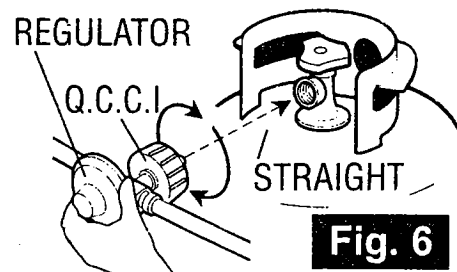
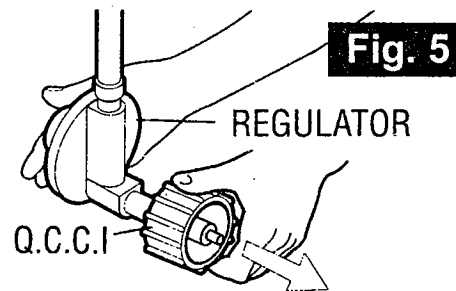
## HOSE & REGULATOR

#### PROPANE GAS MODELS:

Your grill is designed to operate on L.P. (propane) gas at a pressure regulated at 11" water column (2.74 kPa). A regulator preset to this pressure is supplied with the grill and **MUST** be used.

This regulator is equipped with the Q.C.C. Type 1, quick connect coupling system, which incorporates the following safety features: (Figure 5)

- It will not allow gas to flow until a positive seal has been made. (Figure 6)
- It has a thermal element that will shut off the flow of gas between 240 and 300°F (115 and 150°C).



- It also has a flow-limiting device which, when activated, will restrict the flow of gas to 10 cubic feet per hour (0.28 cubic meters per hour).

Prior to attaching the propane cylinder to the hose and regulator, be sure the cylinder valve and the appliance valves are OFF. The cylinder valve is turned off by rotating the handwheel (see Figure 3) clockwise (left to right) until it stops and all appliance valves should be in the twelve o'clock position. When attaching the regulator to the cylinder, make sure that the small probe in the nipple is centered in the mating Q.C.C. 1

cylinder valve (see Figure 6). Turn the right hand threaded Q.C.C.1 black nut onto the valve in a clockwise motion until there is a positive stop. **DO NOT USE A WRENCH, HAND TIGHTEN ONLY.**

Should the large black thermally sensitive coupling nut be exposed to temperatures above 240 and 300°F, it will soften and allow the regulator probe to disengage from the cylinder valve -- thereby shutting off the flow of gas. Should this occur, do not attempt to reconnect the nut. Remove the entire regulator assembly, and replace it with a new one. (See '**REPLACEMENT PARTS**' section in assembly instructions or contact us at 1-800-396-3838)

**The cause of the excessive heat should be determined and corrected** before operating your grill again. The regulator probe also contains a flow-sensing element, which will limit the flow of gas to the regulator to a manageable amount (10 cubic feet per hour) in the event of a hose or regulator rupture. If it is evident that the flow control device has been activated, the cause of the excessive flow should be determined and corrected before using your grill again.

**Please refer to the troubleshooting guide on page 19 or contact us 1-800-396-3838.**

**NOTE: IMPROPER LIGHTING PROCEDURES CAN CAUSE THE FLOW CONTROL TO ACTIVATE, RESULTING IN REDUCED HEAT OUTPUT. IF THIS IS SUSPECTED, RESET THE FLOW CONTROL BY SHUTTING OFF ALL BURNER CONTROLS AND THE CYLINDER VALVE. WAIT 30 SECONDS, THEN TURN THE CYLINDER VALVE ON EXTREMELY SLOWLY - WAIT 5 SECONDS AND TURN THE BURNER VALVE ON AND LIGHT AS NORMAL.**

- Never connect a propane gas grill to an unregulated propane gas supply or **any other gas**. Do not attempt to alter the hose or regulator in any way.
- The connection fitting must be protected when disconnected from the propane tank. If the fitting is allowed to drag on the ground, nicks and scratches could occur resulting in a leak when connected to the propane tank.

#### **PROPANE AND NATURAL GAS MODELS:**

- Do not allow any grease (or other hot material) to fall onto the hose, or allow the hose to come in contact with any hot surfaces of the grill.
- Visually inspect the entire length of the hose assembly before each use of the grill. If it is evident there is excessive abrasion/wear, or the hose is cut, it must be replaced prior to using your grill. Only the hose assembly as specified in the Parts List should be used.
- Follow the **LEAK TEST** instructions before lighting your grill for the first time,

## NATURAL GAS MODELS:

- Never use with propane, or **any other gases**.
- The appliance and its individual shut-off valve must be disconnected from the gas supply piping during any pressure testing of the system at test pressure in excess of 1/2 p.s.i. (3.5 kPa).
- The appliance must be isolated from the gas supply piping system by closing its individual manual shut-off valve during any pressure testing of the gas supply piping system at pressures equal to or less than 1/2 p.s.i. (3.5 kPa).
- The gas supply hose must be a minimum of 10 ft (3.1 m) and a maximum of 12 ft (3.6 m). Always disconnect hose at quick connect coupling when storing your grill.
- Inspect and clean quick connect coupling, and keep it protected when it's not in use.

## WARNING

Failure to ensure the above may result in a hazardous fire or explosion causing serious bodily injury and/or property damage.

## CLEANING & MAINTENANCE

To keep your grill working at its peak efficiency as well as contribute to the safe operation of this unit, perform all of the operations below at least once a year -- preferably at the start of each cooking season.

## PERFORM A LEAK TEST

A leak test ensures that there are no gas leaks prior to lighting your grill.

### WHEN A LEAK TEST MUST BE PERFORMED:

- Before lighting your grill for the first time.
- Every time the propane cylinder is refilled
- If any gas component is changed
- At a minimum once per season.
- After prolonged period of storage or non-use.
- If the regulator flow-limiting device has been activated.

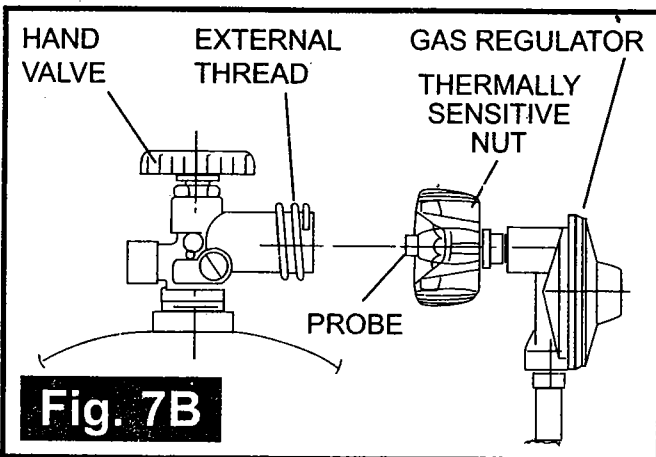
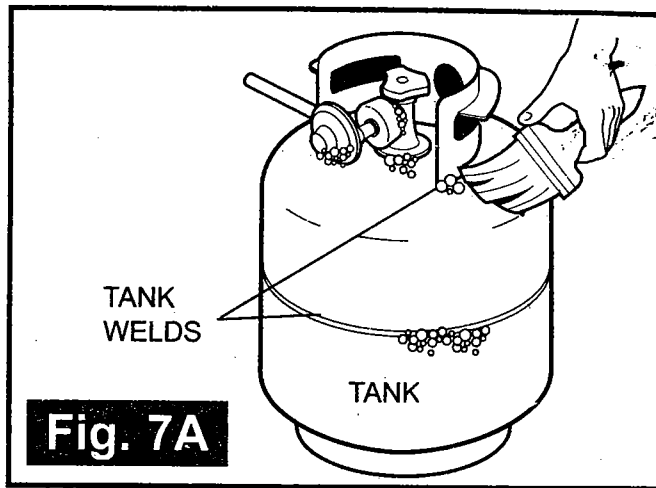
The leak test should be performed in a well-ventilated area away from any open flame, heat or ignition sources. **DO NOT USE A MATCH, OPEN FLAME OR SMOKE DURING LEAK TESTING.**

### WHAT YOU'LL NEED FOR TESTING:

1. A mixture of 50% liquid dish soap and 50% water.
2. A brush or cloth to apply the mixture.

**AREAS TO TEST ON PROPANE GRILLS:**

- All propane cylinder welds (see Figure 7A)
- Propane cylinder valve -- including threads into cylinder (see Figure 7B)
- Regulator fitting and propane cylinder connection (see Figure 7B)
- All hose connections (see Figure 7C) including side burner tubing, if equipped (see Figure 7D)
- All valve connections (see Figure 7C & D)



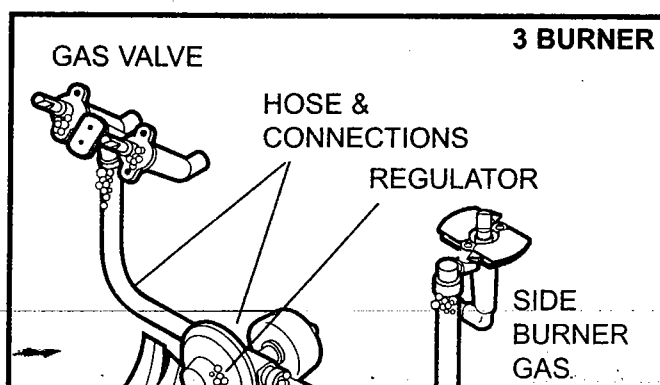
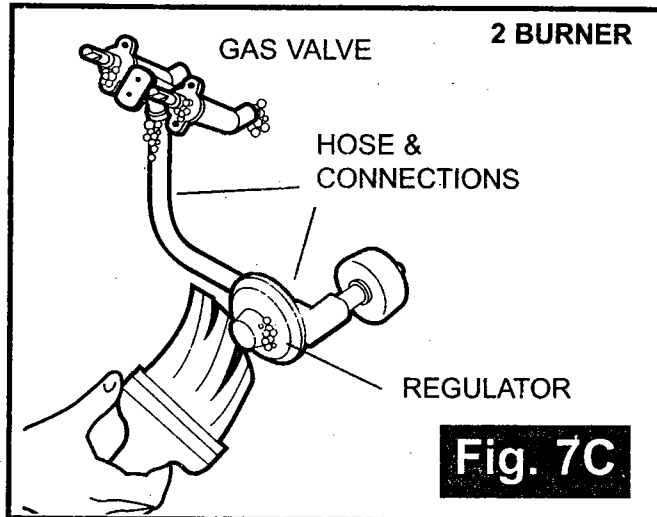
**AREAS TO TEST ON NATURAL GAS GRILLS:**

- All hose connections (see Figure 7C)
- All valve connections (see Figure 7C & 7D)

**HOW TO DO THE TESTING:**

1. With the grill console control knobs in the 'OFF' position, twist the valve on your propane cylinder 1 turn, or the main natural gas valve on. **DO NOT IGNITE THE BURNERS WHILE PERFORMING THE LEAK CHECK.**
2. Brush your soap and water solution on all connections and components as outlined above.
3. Observe each place for growing bubbles, which indicate that a leak is present.

(continued on next page)



4. Shut off the flow of gas while fixing the leak. Tighten any leaking connection and repeat test until no leaks are detected.
5. If the leak(s) cannot be stopped **DO NOT USE**. Shut off the fuel source at the valve immediately (if appropriate, remove propane cylinder). Call a certified gas appliance service person, or a gas dealer for proper repairs.

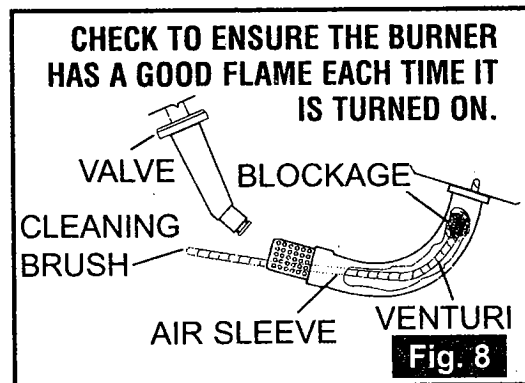
**WARNING** Failure to ensure the above may result in a hazardous fire or explosion causing serious bodily injury and/or property damage.

## CLEANING VENTURI TUBES

Periodic cleaning of the venturi tubes is recommended for optimum burner performance, especially after prolonged storage or a period of non-use.

### How to Clean:

- Remove the burner (refer to 'ASSEMBLY PROCEDURE')
- Use a venturi cleaning brush and insert the brush into the venturi tube 1 inch at a time, then remove to prevent moving the debris upwards. (see Figure 8)
- As you remove the brush head inspect and discard any debris
- Continue this procedure until the entire lengths of all venturi tubes are free of debris
- Reinstall burner (as per assembly instructions), ensure the venturi tubes are seated over the valve orifices (see Figure 1)
- Perform a Leak Test (see pages 8, 9 & 10)



### WARNING

It is possible that very small insects could make webs or nest in the venturi tubes, as they are naturally attracted to the smell of gas. This will partially or completely block the flow of gas through the venturi and is indicated by a smoky yellow flame, and/or a burner that is difficult or impossible to light. Ultimately, it may cause the gas to burn outside the venturis, which can cause a fire resulting in damage to your grill and potential personal injury. **IF THIS HAPPENS IMMEDIATELY SHUT OFF THE PROPANE AT CYLINDER, OR NATURAL GAS AT MAIN SHUT-OFF VALVE.** When the grill has cooled, follow the "How to Clean" steps above.

**CHECK TO ENSURE THE BURNER HAS A GOOD FLAME EACH TIME IT IS TURNED ON.**