Viking Installation Guide



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VGBQ "T" / VGIQ "T" Series Conversion Kit

F20122B EN (022208J)

IMPORTANT: PLEASE READ AND FOLLOW

- 1. Before beginning, please read these instructions completely and carefully.
- 2. Do not remove permanently affixed labels, warnings, or plates from product. This may void the warranty.
- 3. Please observe all local and national codes and ordinances.

CAUTION: Before proceeding with the conversion, shut off the gas supply to the appliance prior to disconnecting the electrical power.

GAS CONVERSION

To convert a grill from natural to LP/Propane gas or LP/Propane to natural, you must use the conversion kit supplied by the manufacturer. When converting to Natural Gas, use the TNKVGBQ kit for VGBQ models and TNKVGIQ kit or VGIQ models. When converting to LP/Propane, use the TLPKVGBQ kit for VGBQ models and TLPKVGIQ kit for VGIQ models. Conversions should only be done by an authorized service technician.

NOTE: WHEN THE CONVERSION IS COMPLETED, THE CONVERSION LABEL MUST BE PLACED NEXT TO THE RATING LABEL UNDER THE DRIP TRAY IN THE REAR LEFT CORNER NEXT TO THE INLET PIPE.

WARNING

This conversion kit shall be installed by a qualified service agency in accordance with the manufacturer's instructions and all applicable codes and requirements of the authority having jurisdiction. If the information in these instructions is not followed exactly, a fire, explosion or production of carbon monoxide may result causing property damage, personal injury or loss of life. The qualified service agency is responsible for the proper installation of this kit. The installation is not proper and complete until the operation of the converted appliance is checked as specified in the manufacturer's instructions supplied with the kit.

Depending on the grill model, all orifices in the kit may not be used.

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TNK-VGBQ Conversion Kit Part List

- (1) Natural Regulator Assembly
- (1) Natural Orifice Kit
 - (4) #40 Grill Burner Orifices
 - (2) #51 Smoker Burner Orifice
 - (2) #49 Side Burner Orifies
 - (2) #48 Infrared Burner Orifices
- (1) Natural Conversion Kit Label
- (1) F20122 Conversion Kit Installation Instructions

TLPK-VGBQ Conversion Kit Part List

- (1) LP/Propane Regulator Assembly
- (1) LP/Propane Orifice Kit
 - (3) #54 Grill Burner Orifices
 - (2) #62 Smoker Burner Orifice
 - (3) #57 Side Burner/Infrared Burner Orifices
- (1) LP/Propane Conversion Kit Label
- (1) F20122 Conversion Kit Installation Instructions

TNK-VGIQ Conversion Kit Part List

- (1) Natural Regulator Assembly
- (1) Natural Orifice Kit
 - (3) #40 Grill Burner Orifices
 - (2) #51 Smoker Burner Orifice
 - (2) #49 Side Burner Orifies
 - (2) #48 Infrared Burner Orifices
 - (1) TruSear™ Infrared Burner Valve
- (1) Natural Conversion Kit Label
- (1) F20122 Conversion Kit Installation Instructions

TLPK-VGIQ Conversion Kit Part List

- (1) LP/Propane Regulator Assembly
- (1) LP/Propane Orifice Kit
 - (3) #54 Grill Burner Orifices
 - (2) #62 Smoker Burner Orifice
 - (2) #57 Side Burner Orifices
 - (2) #57 Infrared Burner Orifice
 - (1) TruSear™ Infrared Burner Valve
- (1) LP/Propane Conversion Kit Label
- (1) F20122 Conversion Kit Installation Instructions

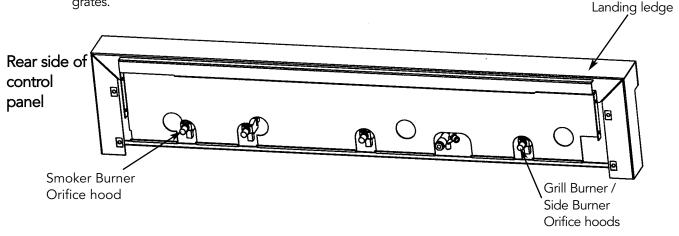
VGBQ "T" SERIES CONVERSIONS

To convert grill burners, side burner and smoker burner:

- 1. Remove all grates, flavor generators and stainless steel burners from the unit.
- 2. Look into the burner box back toward the control panel in order to located the orifice hoods. Remove the gas orifice hoods located on the grill burner valves.
- 3. Replace the orifice hoods with the correct gas orifice hoods supplied in the conversion kit. (See chart)

	1 1		•			
4.	Replace the stainless	steel	burners,	flavor	generators	and
	grates.					

	Natural	LP/Propane
	Orifice Hood	Orifice Hood
Grill		
Burners	(4) - 40	(4) - #54
Smoker		
Burners	(2) - #51	(2) - #62
Side		
Burners	(2) - #49	(2) - #57

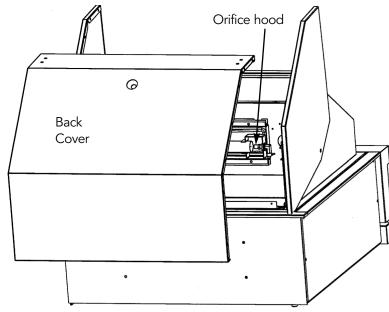


To convert the rotissiere infrared burner:

- 1. Remove the back cover from the unit to expose the orfice hood to the infrared burner.
- 2. Remove the gas orifice hood located on the grill.
- 3. Replace with the gas orifice hood supplied in the conversion kit.
- 4. Replace the back cover

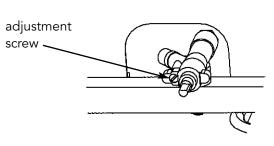
	Natural Orifice Hood	LP/Propane Orifice Hood
Infrared Burner	(1) or (2) - #48	(1) or (2) - #57

Depending on grill model



To check LP/Propane to Natural Conversion of the rotissiere infrared burner:

Ignite the rotissere burner and set it to low. If the burner will not hold a flame, it will be necessary to adjust the low setting. Remove the control panel to expose the rotissiere safety valve. Using a small flat head screwdriver turn the adjustment screw counterclockwse. Visually check the flame. When the burner is able to hold a flame on the low setting, the setting is complete. Replace the control panel.



NOTE: For installation in areas with altitudes greater than 2000 feet, the orifices must be derated at 4% for every 1000 feet above 2000 feet.

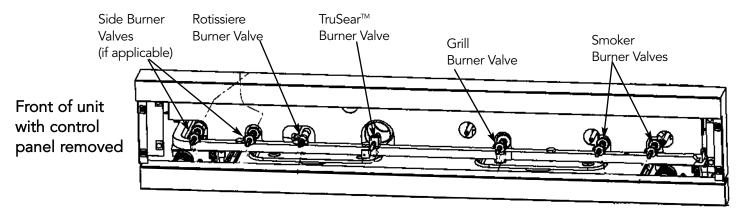
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VGIQ "T" SERIES CONVERSIONS

To convert grill burners, TruSear™ burner, side burner and smoker burner:

- 1. Remove all grates, flavor generators and stainless steel burners from the unit except for ones over TruSear™ infrared burner.
- 2. Remove control panel to expose the burner valves. Remove the orifice hoods located on the valve for the grill burners, side burners, and smoker burner.
- Replace the orifice hoods with the correct gas orifice hoods supplied in the conversion kit for the grill burners, side burners, and smoker burners. The complete burner valve will have to be replaced on the TruSear™ infraredd burner. (See chart)
- 4. Replace the stainless steel burners, flavor generators and grates.

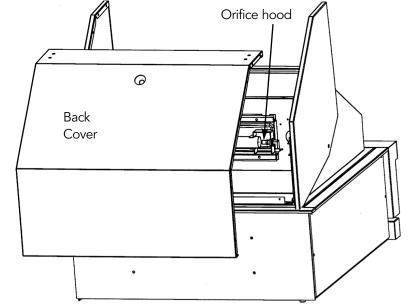
	Natural	LP/Propane
	Orifice Hood	Orifice Hood
Grill		
Burners	(3) - 40	(3) - #54
Smoker		
Burners	(2) - #51	(2) - #62
Side		
Burners	(2) - #49	(2) - #57
TruSear™		
Infrared Burner	(1) - #35	(1) - #51



To convert the rotissiere infrared burner:

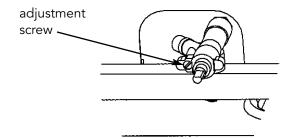
- Remove the back cover from the unit to expose the orfice hood to the infrared burner.
- 2. Remove the gas orifice hood located on the arill.
- 3. Replace with the gas orifice hood supplied in the conversion kit.
- 4. Replace the back cover

	Natural	LP/Propane
	Orifice Hood	Orifice Hood
Infrared	(2) - #48	(2) - #57
Burner (20")		



To check LP/Propane to Natural Conversion of the rotissiere infrared burner:

With the control panel off, Ignite the rotissere burner and set it to low. If the burner will not hold a flame, it will be necessary to adjust the low setting. Remove the control panel to expose the rotissiere safety valve. Using a small flat head screwdriver turn the adjustment screw counterclockwse. Visually check the flame. When the burner is able to hold a flame on the low setting, the setting is complete. Replace the control panel.



NOTE: For installation in areas with altitudes greater than 2000 feet, the orifices must be derated at 4% for every 1000 feet above 2000 feet.

Natural or LP/Propane Connection

Fixed Connection: Standard Residential 1/2" gas service line - 1/2" NPT male with 3/8" flare adapter.

LP/Propane Cylinder Connection: 1/2" NPT male with 3/8" flare adapter Operating Pressure: 4.0 W.C.P. Natural or 10.0" W.C.P. LP/Propane

Supply Pressure: Natural gas - 6" to 14" W.C.P. If in excess of 14" W.C.P., a step down regulator is required.

LP/Propane - 11" to 14" W.C.P. If in excess of 14" W.C.P., a step down regulator is required.

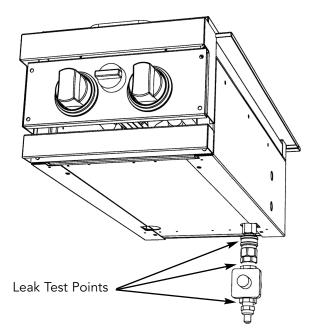
The installer must check the supply pressure and operating pressure. To check operating pressure, remove one burner and hook a manometer to the orifice hood. Ignite one of the remaining burners and turn the valve for the removed burner to high. Read the pressure on the manometer.

Check with your local gas utility company or with local codes for instructions on installing gas supply lines. Be sure to check on type and size of run, and how deep to bury the line. If the gas line is too small, the unit will not function properly. Any joint sealant used must be an approved type and be resistive to the actions of natural gas.

LEAK TESTING

Although all gas connections on the grill are leak tested at the factory prior to shipment, a complete gas tightness check must be performed at the installation due to possible mishandling in shipment or excessive pressure unknowingly being applied to the unit. Periodically check the whole system for leaks, or immediately check if the smell of gas is detected.

- 1. Do not smoke while leak testing. Extinguish all flames.
- 2. Never leak test with an open flame.
- 3. Make a soap solution of one part liquid detergent and one part water. You will need a spray bottle, brush or towel to apply the solution to the fittings.
- 4. Check that all control knobs are in the "OFF" position.
- 5. Blowing bubbles in the soap solution indicates that a leak is present.
- 6. Stop a leak by tightening the loose joint or by replacing the faulty part with a replacement part recommended by the manufacturer.
- 7. If you are unable to stop a leak, shut off the gas supply and call an authorized gas appliance service technician or LP/Propane gas dealer. Do not use the grill until the leak is corrected.
- 8. After checking for leaks, push in and turn any control knob to release the pressure in the hose and manifold. Turn off the control knob.



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INITIAL IGNITION OF BURNERS

All burners are tested before leaving the factory. Field adjustments may be necessary for proper mixture of gas and air for proper operation. When the grill is connected to the gas service, it should be adjusted by a qualified technician. For lighting instructions, refer to the Outdoor Gas Grill Use and Care Manual.

BURNER ADJUSTMENT

Each burner is tested and adjusted at the factory prior to shipment; however, variations in the local gas supply may make it necessary to adjust the burners. The flames of the burners (except the rotisserie infrared and $TruSear^{TM}$ infrared burner) should be visually checked and compared with Fig. 1, Fig. 2, and Fig. 3.

Flames should be blue and stable with no yellow tips, excessive noise or lifting. If any of these conditions exist, check if the air shutter or burner ports are blocked by dirt, debris, spider webs, etc. With a proper flame height, adjust the air shutter to obtain a blue flame with no yellow tipping that sits on the burner at the burner ports. The air shutter is locked in place by a set screw which must be loosened prior to lighting the burner for adjustments.

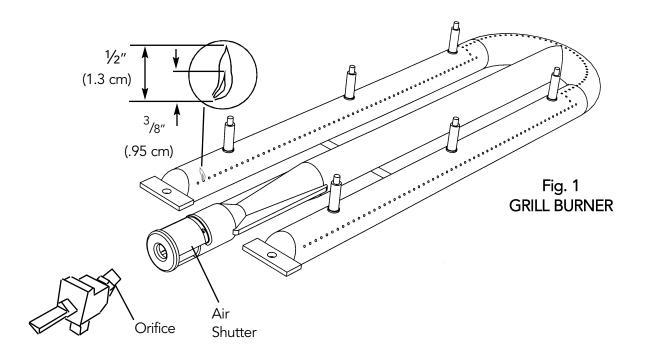
To access the air shutter on the grill burners and smoker burner, remove the valve panel. To access the air shutter on the side burners, remove the grates, burner bowls, and grate support. With a screw driver, loosen the lock-screw on the face of the air shutter. Light the burner and adjust according to the directions below.

- 1. If the flame is yellow, turn the air shutter counter clockwise to allow more air to the burner.
- 2. If the flame is noisy and lifting away from the burner, turn the air shutter clockwise to reduce the amount of air to the burner.

Once adjusted, turn the burner off, tighten the set screw on the air shutter, replace the valve panel for the grill burners and the grate support, burner bowls, and grates for the side burners.

To ensure proper installation of the grill burners, side burners, and smoker burner:

- 1. Slide opening in air shutters over the orifice located in the front of the grill.
- 2. For the smoker burner, secure back of the burner by placing over screw slot on rear of grill and replacing screw.



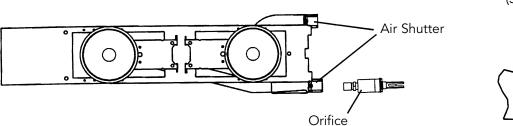
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Fig. 2
SMOKER BURNER
(If applicable)

Distance between ignitor and burner - 3/16" (.45 cm)

Air Shutter

Orifice



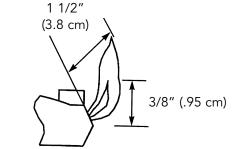
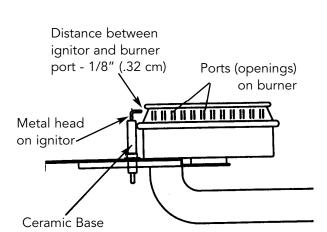


Fig. 3 SIDE BURNER (If applicable)

Spark Ignitor Adjustment

Occasionally a burner may not ignite within a few seconds after turning the appropriate control knob counter-clockwise. To adjust the spark ignitor, use a small needle nose plier to turn the metal head of the ignitor towards the port (opening) on the burner. DO NOT TURN THE IGNITOR BY THE CERAMIC BASE. This could cause damage to the spark ignitor.



BURNER RATINGS

	Natural	LP/Propane
Grill Burners	25,000 BTU	22,500 BTU
Smoker Burner	12,500 BTU	11,250 BTU
Side Burners	15,000 BTU	13,500 BTU
Rotissiere Infrared Burner	15,000 BTU	13,500 BTU
TruSear™ Infrared Burner	30,000 BTU	30,000BTU

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