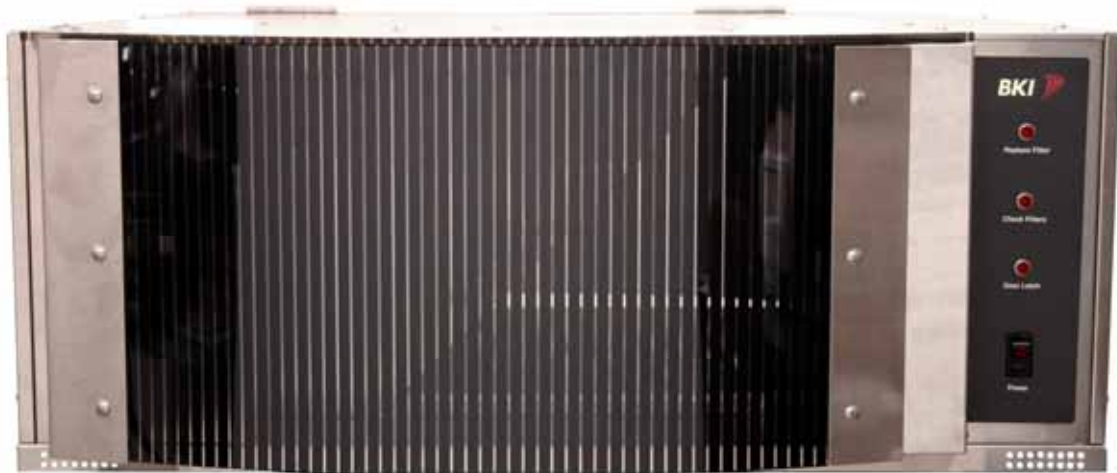


# Rotisserie Ventless Hood

MODEL VGH-Series

Installation & Operation Manual

Serial Numbers 195937 and higher



# Warranty Information

## LIMITED ONE YEAR WARRANTY

BKI (The "Company") warrants to the original purchaser that at time of shipment from the Company factory, this equipment will be free from defect in materials and workmanship. Written notice of a claim under this warranty must be received by the Company within ONE YEAR from the date of installation, but no longer than ONE YEAR AND THREE MONTHS from date of shipment from the factory. Defective conditions caused by abnormal use or misuse, lack of or improper maintenance, damage by third parties, alterations by unauthorized personnel, acts of God, failure to follow installation and/or operating instructions, or any other events beyond the reasonable control of the Company will NOT be covered under this warranty. The obligation of the Company under this warranty shall be limited to repairing or replacing (at the option of the Company) any part, with the exception of lamps, fuses, and glass (which are not covered under warranty), which is found defective in the reasonable opinion of the Company. Any part found defective by the Company will be repaired or replaced without charge F.O.B. factory, Simpsonville, South Carolina or F.O.B. authorized BKI Distributor. The Company and/or its authorized representatives will assume the normal replacement labor expense for the defective part for the period of the warranty as stated above, excluding travel and/or other expenses incidental to the replacement of the defective part, where replacement work is performed during standard business hours and not subject to overtime, holiday rates, and/or any additional fees. IN NO EVENT SHALL THE COMPANY BE LIABLE FOR LOSS OF USE, LOSS OF REVENUE OR LOSS OF PRODUCT OR PROFIT OR FOR INDIRECT OR CONSEQUENTIAL DAMAGES INCLUDING BUT NOT LIMITED TO, FOOD SPOILAGE OR PRODUCT LOSS. WARRANTY DOES NOT COVER GLASS BREAKAGE. THE ABOVE WARRANTY IS EXCLUSIVE AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE EXCLUDED INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

## REPLACEMENT PARTS

Any appliance replacement part, with the exception of lamps, fuses, and glass, which proves to be defective in material or workmanship within ninety (90) days of installation, will be replaced without charge F.O.B. Factory, Simpsonville, SC or F.O.B. authorized BKI Distributor. The user shall have the responsibility and expense of removing and returning the defective part to the Company as well as the cost of reinstalling the replacement or repaired part.

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## Introduction

Congratulations! You have chosen **BKI**'s Rotisserie Ventless Global Hood (VGH) system, a state-of-the-art unit that filters grease laden air and returns it to the room.

The VGH is a simple ventless extraction hood system designed to mount on top of VGG model rotisserie ovens manufactured by BKI. The hood may be shipped on top of new units or retrofitted at a store location. The VGH-5 is designed for use on the VGG-5; while the VGH-8 is designed for use on VGG-8's and VGG-16's. The hood does not employ and is not designed as a fire suppression system. The purpose of the hood is to *limit* the emission of grease laden air drawn out of or rising above the rotisserie oven. Pass thru and solid back versions are available.

The **BKI** name and trademark on this unit assures you of the finest in design and engineering -- that it has been built with care and dedication -- using the best materials available. Attention to the operating instructions regarding proper operation, installation and maintenance will result in long lasting dependability to insure the highest profitable return on your investment.

### **NOTICE**

PLEASE READ THIS ENTIRE MANUAL BEFORE OPERATING THE UNIT. If you have any questions, please contact your **BKI** Distributor. If they do not answer your questions, contact the **BKI** Technical Service Department, toll free: 1-800-927-6887. Outside the U.S., call 1-864-963-3471.

## Safety Precautions

Always follow recommended safety precautions listed in this manual. Below is the safety alert symbol. When you see this symbol on your equipment, be alert to the potential for personal injury or property damage.



## Safety Signs and Messages

The following Safety signs and messages are placed in this manual to provide instructions and identify specific areas where potential hazards exist and special precautions should be taken. Know and understand the meaning of these instructions, signs, and messages. Damage to the equipment, death or serious injury to you or other persons may result if these messages are not followed.



This message indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury.



This message indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.

**CAUTION**

This message indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

**NOTICE**

This message is used when special information, instructions or identification are required relating to procedures, equipment, tools, capacities and other special data.

**Specific Precautions****DANGER**

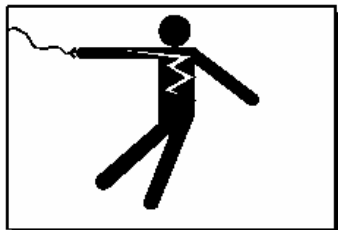
Carbon monoxide poisoning will result from using this hood with any appliance that utilizes combustible fuel. Use only electrical appliances with this hood.

**WARNING**

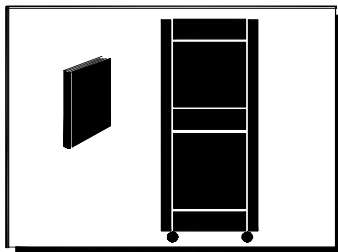
In the event of an appliance fire, serious injury, property damage or death could occur if the appliance is not properly placed on top of the rotisserie. The hood has not been secured by fasteners. To ensure that the appliance remains in the proper position on top of the rotisserie hood during normal operation, **DO NOT TIP, PULL, OR PUSH APPLIANCE WITHOUT PROVIDING ADEQUATE PRECAUTION!**

**NOTICE**

Hood failure could result if the hood is operated without the grease baffle and particle/odor filter installed. This is a special filter designed for this application only; other filters will not work properly. Use only a **BKI** particle/odor filter.

**Safe Work Practices****Beware of High Voltage**

This equipment uses high voltage. Serious injury can occur if you or any untrained or unauthorized person installs, services, or repairs this equipment. Always Use an Authorized Service agent to Service Your Equipment

**Keep this manual with the Equipment**

This manual is an important part of your equipment. Always keep it near for easy access. If you need to replace this manual, contact:

**BKI**

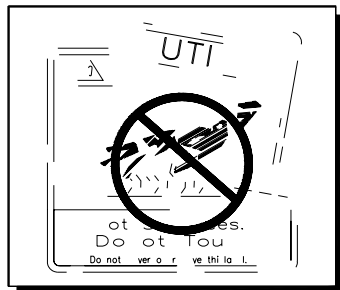
Technical Services Department  
P.O. Box 80400  
Simpsonville, S.C. 29680-0400  
Or call toll free: 1-800-927-6887  
Outside the U.S., call 864-963-3471



### Protect Children

Keep children away from this equipment. Children may not understand that this equipment is dangerous for them and others.

NEVER allow children to play near or operate your equipment.

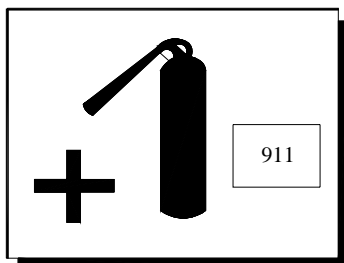


### Keep Safety Labels Clean and in Good Condition

Do not remove or cover any safety labels on your equipment. Keep all safety labels clean and in good condition. Replace any damaged or missing safety labels.

If you need new safety labels, contact:

**BKI**  
 Technical Services Department  
 P.O. Box 80400  
 Simpsonville, S.C. 29680-0400  
 Or call toll free: 1-800-927-6887  
 Outside the U.S., call 864-963-3471

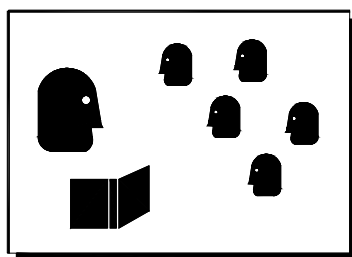


### Prepare for Emergencies

Be prepared for fires, injuries, or other emergencies.

Keep a first aid kit and a fire extinguisher near the equipment. You must use a 40-pound Type BC fire extinguisher and keep it within 25 feet of your equipment.

Keep emergency numbers for doctors, ambulance services, hospitals, and the fire departments near your telephone.



### Know your responsibility as an Employer

- Make certain your employees know how to operate the equipment.
- Make certain your employees are aware of the safety precautions on the equipment and in this manual.
- Make certain that you have thoroughly trained your employees about operating the equipment safely.
- Make certain the equipment is in proper working condition. If you make unauthorized modifications to the equipment, you will reduce the safety and function of the equipment.

## **ETL Information**

**⚠ WARNING**

Failure to adhere to building, fire and electrical codes during installation of this unit could result in death, serious injury or property damage. The authority having jurisdiction, such as the local building inspector or fire marshal, should be consulted prior to installation to insure compliance with applicable codes.

**⚠ WARNING**

In the event of an appliance fire, serious injury, property damage or death could occur if the appliance is powered from a source other than the rotisserie for which it is designed for. The hood used on top of the appliance **MUST** receive its input power from the appliance. This hood has not been installed with Fire Extinguishing System.

**NOTICE**

This filter hood is an Intertek Testing Services, inc. classified ductless hood for use with ETL listed type commercial cooking appliance only (rotisserie).

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## Installation

### *Unpacking and Handling*

#### Inspection for Shipping Damage

**YOU** are responsible for filing all freight claims with the delivering truck line. Inspect all cartons and crates for damage as soon as they arrive. If damage to cartons or pallets is found, or if a shortage is found, note this on the bill of lading (all copies) prior to signing and receiving.

If damage is found when the equipment is opened, immediately call the delivering truck line and follow up the call with a written report indicating concealed damage to your shipment. Ask for an immediate inspection of your concealed damage item. Packaging material **MUST** be retained to show the inspector from the shipping line.

#### Location and Clearance

Make sure the rotisserie is mounted on a level surface capable of supporting the fully loaded oven. Refer to oven installation guidelines in the oven manual.

The hood will be installed in one of two ways. New VGG's may be ordered with the hood already assembled (mounted to the top of the Rotisserie) or shipped with it for installation at the store location. VGG's already in service may be fitted with the hood at a store location as a retro-fit installation.

#### **⚠ WARNING**

Disconnect VGG rotisserie from the electrical supply before attempting installation. VGH-8 Hood for use only with BKI Models VGG-8 or VGG-16 rotisseries.

VGH-5 Hood for use only with BKI Model VGG-5 rotisserie.

### *Detailed Installation Instructions*

1. Remove side panel on the control side of the VGG and both side panels on the VGH.
2. Unscrew the 4 philips head screws of the access plate on the ceiling of the VGG and turn it around allowing hole to access the VGG control compartment. Reattach the plate with the 4 philips head screws.
3. Install the F0155 bushing provided into access hole of VGG.
4. Attach 1 of the FB68943018 (Appliance Lifting/Installation Bracket) handles on each side of the VGH using the bottom two holes that the side panels attach to and with screws removed from the side panels.

#### **⚠ CAUTION**

The hood lifting/installation brackets (FB68943018) are used as lifting mechanism and are attached to the sides of the hood with side panels removed for placing the hood on top of the oven. Failure to install this part could cause damage to the hood and/or oven.

5. Pick up and place the VGH on the VGG making sure the controls are on the same side as the VGG controls.



## Wiring

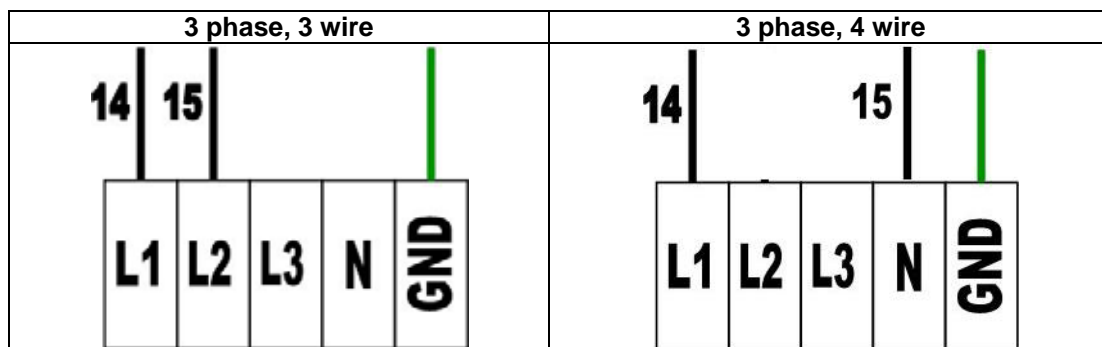
**⚠ WARNING**

Electrocution, equipment failure or property damage could result if an unlicensed electrician performs the electrical installation. Ensure that a licensed electrician perform the electrical installation.

**⚠ WARNING**

In the event of an appliance fire, serious injury, property damage or death could occur if the appliance is powered from a source other than the oven. The hood **MUST** receive its input power from the rotisserie for which it is mounted on.

1. Feed power wires and interlock wires through access hole into VGG.
2. The power wires # 14, 15, and ground are wired as follows:

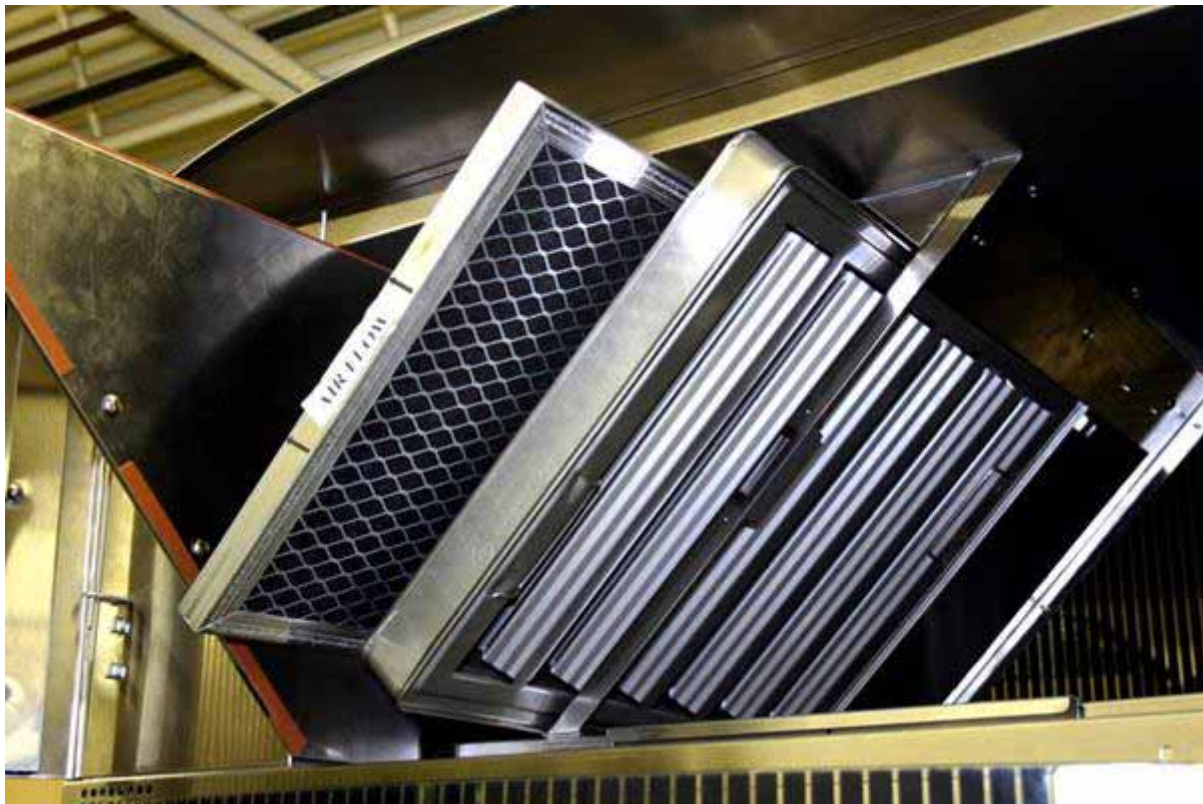


3. For interlock, remove #5 wire from VGG Power Switch. Crimp male connector provided with VGH onto #5 wire and plug into female connector of VGH wire #11. Place VGH wire #10 into VGG Power Switch where #5 wire was.
4. Replace all side panels.

## **Baffle Grease / Odor Filter**

These filters will come already installed in the hood. If not, follow the steps below to install the filters.

1. Remove the filter(s) from the plastic bag.
2. Open the hood and filters doors on the front of the unit by pulling on the handles.
3. Observing the "FRONT" marking on the grease filter and facing the control side of the hood away from the blower, slide the filter into the unit as shown. Repeat for the Charcoal filter with the "ARROW" mark showing air flow direction pointing towards the blower.
4. Close the filters and hood doors.



## Operation

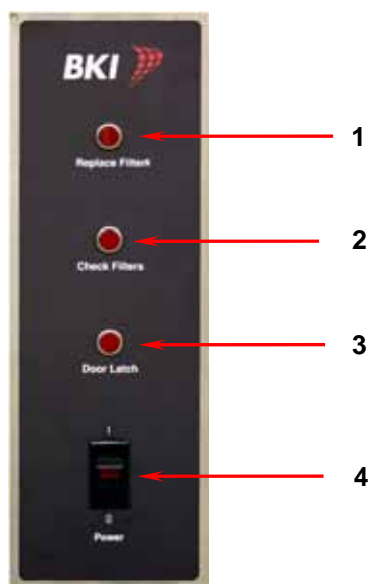
### Principles of Operation

The hood requires a VGG rotisserie power supply, a two-wire connections tapped into the control circuits of the VGG it is mounted to, and the activation of a simple On / Off switch to operate. The wiring change to the VGG ensures that the rotisserie is inoperable until the filter and door switch circuits are satisfied (that is, the filters are present and the door(s) are closed).

A blower inside the ventless hood draws cooking vapors through a grease baffle. Inside the baffle, the air reverses direction two times capturing particles of moisture, grease, and dirt. Material collecting on the baffle drains into the condensation trough located below the baffle. After air passes through the baffle, it then enters a charcoal odor filter. The charcoal odor filter helps to remove cooking odors from the air. The filtered air then passes through the blower and is returned to the room.

The VGG oven may now be energized and operated normally. Refer to the Rotisserie manual on operations of the VGG. If a hood door is opened, the "Door Latch" pilot light illuminates and a relay opens the control circuit in the VGG causing the VGG to immediately power off. If either filter is removed, the "Check Filters" pilot light illuminates and neither the hood or VGG will operate.

### Controls and Indicators



Item	Label	Description	Function
1	<b>Replace Filters</b>	Light Indicator	This light illuminates to indicate time to change out the old filters to new ones.
2	<b>Check Filters</b>	Light Indicator	This light illuminates if either of the two filters or both are not in place. The hood will not run with this light on.
3	<b>Door Latch</b>	Light Indicator	This light illuminates if either of the hood front or rear glass door or both is open. The hood will not run if this light is on.
4	<b>Power (0/1)</b>	Main Power Switch / Light Indicator	Turns power to the entire unit ON (1) or OFF (0).

## Preparation

The following conditions must be met for the Filter Hood to function:

- The charcoal odor filter must be installed.
- The grease baffle must be installed.
- The filters door and hood doors must be shut.
- Power must be supplied to the hood from the VGG.

## Start-Up

To start the Filter Hood, press the power “On / Off” rocker switch button to position **I**.

## Shut-Down

### NOTICE

Power to the appliance is turned off, when the hood is turned off.

### NOTICE

For proper operation, always turn off appliance and allow time for it to cool before turning off the filter hood. This will insure proper capture of grease vapors.

To stop the Filter Hood, press the power “On / Off” rocker switch button to **0**.



## When to Replace the Filter

The vacuum switch is designed to monitor the level of negative/static pressure created by the blower. When the charcoal filter is approximately 70% dirty, the “Replace Filters” pilot light illuminates. This light is

an indication to the operators that the filter needs to be changed soon. Theoretically, the hood may be operated with 100% dirty filter (however, hood performance will be affected), as the hood is not designed to shut-down with dirty filters.

In low to medium volume applications, the charcoal filter may need replacement prior to the REPLACE FILTERS light illuminating. If you smell a strong odor coming from the face of the filter and the REPLACE FILTERS light is not illuminated, the filter needs to be replaced. If necessary, refer to the procedure in this manual for replacing the filters (see page 13).

### ***Cleaning***

Refer to scheduled maintenance in this manual (see page 12).

## Maintenance

**⚠ WARNING**

Electrocution could occur if this unit is hosed down with water. This unit is NOT designed for hose wash-down cleaning! Refer to scheduled maintenance below for proper hood cleaning.

**⚠ WARNING**

Electrocution could occur if power is not removed from this unit before servicing. Remove power at disconnect or circuit breaker **BEFORE** servicing hood.

### Scheduled Maintenance

Use the following table to help manage scheduled maintenance activities.

FREQUENCY	PERFORMED BY	PART	ACTIVITY
Daily	User	Entire Hood	Wipe unit down with a soft rag and mild cleaning agent.
	User	Condensation trough	Check condensation trough. Empty if necessary.
	User	Grease Baffle	Clean grease baffle. If necessary, refer to the procedure in this manual for cleaning the baffle.
Weekly	User	Charcoal/Odor Filter	Inspect charcoal/odor filter. In low to medium volume applications, the filter may need replacement prior to the indicating light turning on. This condition will be evident by a strong odor coming from the face of the filter. If necessary, refer to the procedure in this manual for replacing the filter.
Monthly	User	Door and Filter Interlock	Check door and filter interlock operation. The unit should not operate with the front door open or either the grease baffle or charcoal/odor filter removed. Clean area between grease baffle and charcoal/odor filter.

**⚠ WARNING**

Injury from rotating fan blades could occur if power is not removed from this unit before cleaning the blower section. Remove power at disconnect or circuit breaker **BEFORE** cleaning the blower section.

3 Months	User	Blower Section	Clean the blower section.
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## Cleaning the Grease Baffle

1. Shut down the unit.
2. Open the front Hood door and Filters door, and slide out the grease baffle from the unit.
3. Spray the grease baffle with degreasing type soap.
4. Rinse with hot water; dry, and replace in hood.

## Replacing the Charcoal/Odor Filter

1. Shut down the unit.
2. Open the hood door and the filters door on the front of the unit by pulling out on the handles.
3. Slide the used filter out of the unit.
4. Remove the replacement filter from the plastic bag.
5. Observing the "AIR FLOW DIRECTION" mark on the filter, slide the filter into the unit.

**NOTICE**

When installing a new filter, slight resistance should be observed as the filter is being slid into place. This resistance is generated by flap metal plates located on the top of the filter compartment frames. If this resistance is not felt after a period of time it may become necessary to adjust the pressure that these plates provide by pulling them slightly downwards with your fingers.

6. Close the doors.



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Made and printed in the U.S.A  
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