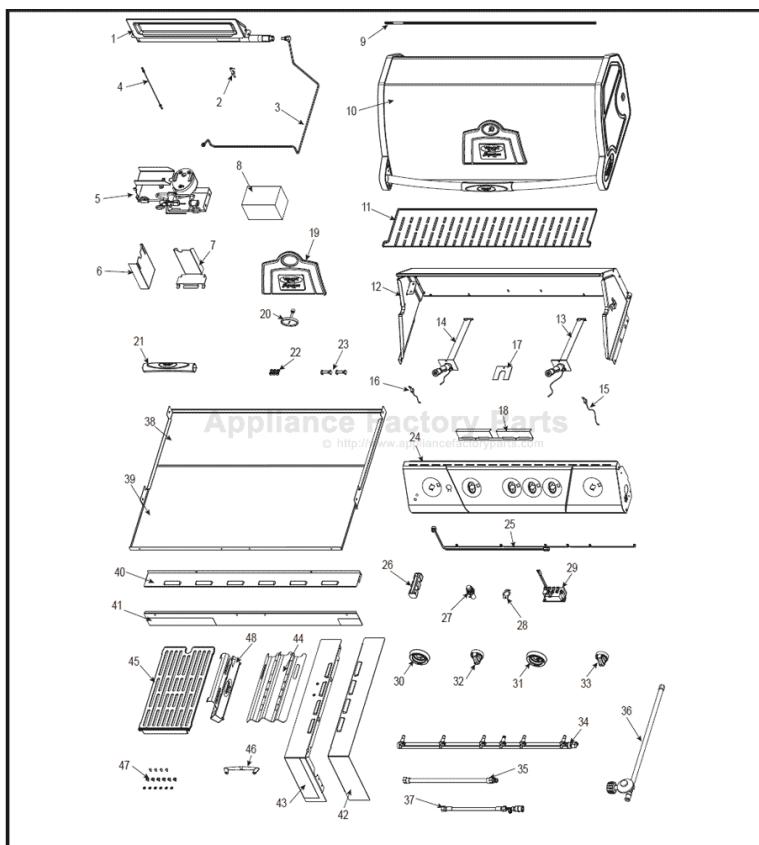




# Vermont Castings VCS5008B1 Owner's Manual

**Shop genuine replacement parts for Vermont Castings  
VCS5008B1**



**[Find Your Vermont Castings Grill Parts - Select From 273 Models](#)**

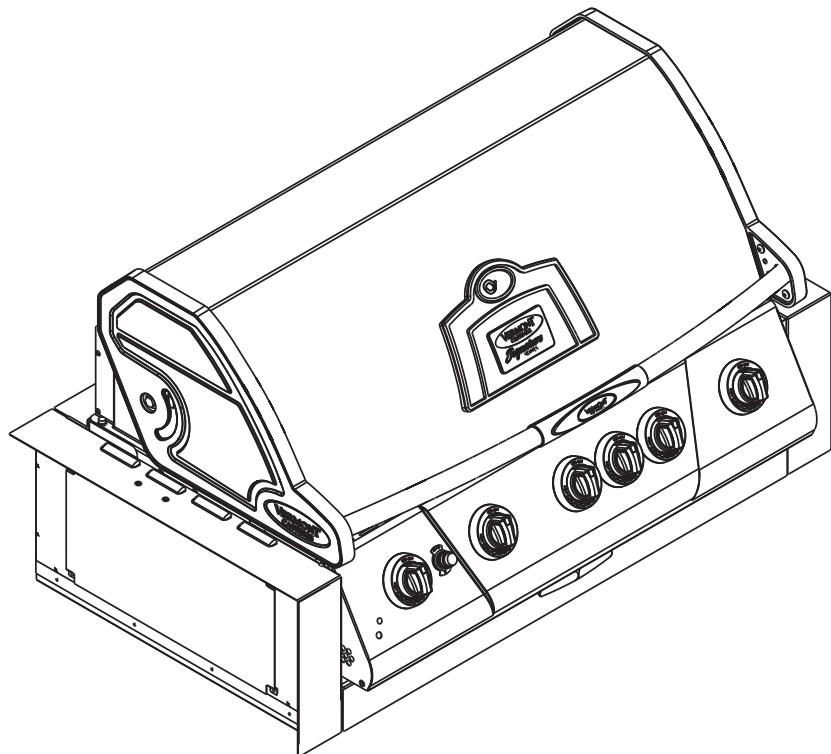
----- Manual continues below -----



## Assembly Procedures

### VCS3008BI Series / VCS5008BI Series

**Tools Required:** Knife or scissors, Phillips or Robertson (square head) screwdriver.



**CAUTION:** This grill is intended ONLY to be built into an enclosure.

**CAUTION:** The assembly of this grill requires two (2) people.

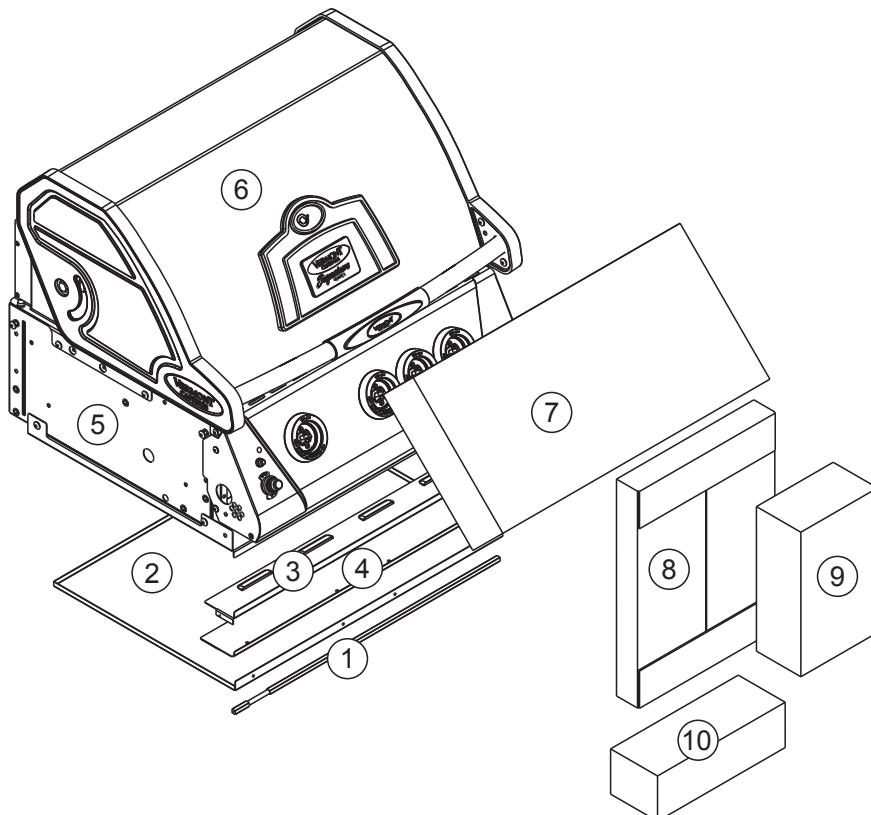
**WARNING:** Some parts may have sharp edges; to avoid injury, wearing gloves during assembly, lifting or moving the grill is recommended. Protective eyewear and long sleeves are also strongly recommended.

**NOTE:** Remove the protective plastic coating from the stainless steel, failure to do so will void the warranty.

## Step 1: Unpack Carton and Verify Contents

Use a sharp cutting tool to cut the straps on the packaging and then lift off the carton top. The sleeve surrounding the barbecue can be removed by lifting it straight up and over the top of the unit. Remove the protective plastic coverings from the metal parts. Be careful not to scratch or damage the finish of the metal parts when removing the protective plastic. Compare all contents to the parts list and the carton content lists below. Refer to the parts list for fastener detail.

**CAUTION:** Some parts may have sharp edges; to avoid injury, wearing gloves during assembly is strongly recommended.

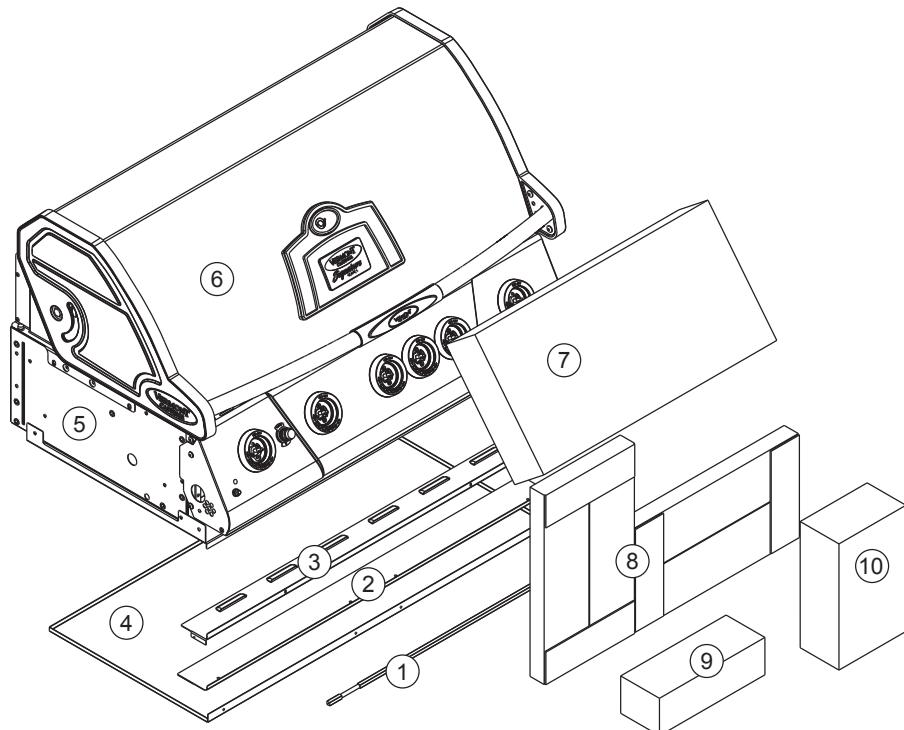


### VCS3008BI Carton Contents

1. Spit Rod	50001326	<b>Box 7</b> (50004737)	<b>Box 8</b> (50004564)
2. Grease Tray	50001955	Hardware Bag	Cook Grates (2)
3. Cover Rear	50004739	Bracket Right	
4. Front Grease Tray Assy	50004823	Bracket Left	<b>Box 9</b> (50004801)
5. Firebox Assy	50004822	Handle	Rotisserie Kit
6. Lid Assembly		Knob Long Stem (4)	<b>Box 10</b> (50004555)
		Battery "AAA"	Smoker Box
		Support Battery Holder	
		Battery Case	
		Heat Plate (3)	

**CAUTION:** Some parts may have sharp edges; to avoid injury, wearing gloves during assembly, lifting or moving the grill is recommended.

## Step 1: Unpack Carton and Verify Contents (continued)

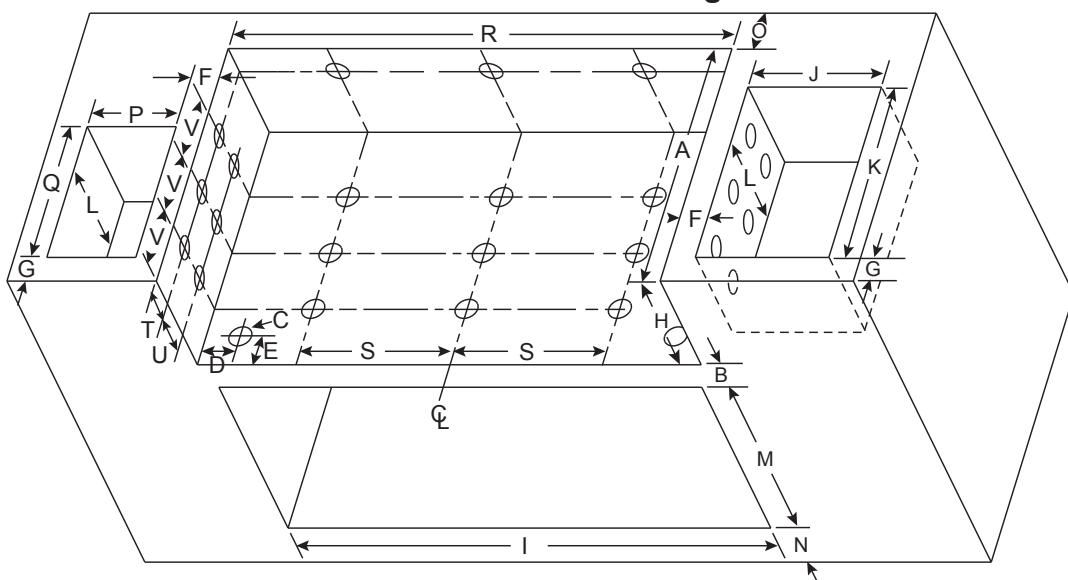


### VCS5008BI Carton Contents

1. Spit Rod	50000962	<b>Box 7 (50004789)</b>	<b>Box 8 (50004559)(2)</b>
2. Front Grease Tray Assy	50004903	Hardware Bag	Cook Grates (2)
3. Cover Rear Burner	50004799	Bracket Right	
4. Grease Tray	50001950	Bracket Left	<b>Box 9 (50004555)</b>
5. Firebox Assy	50004778	Handle	Smoker Box
6. Lid Assy		Knob Long Stem (4)	
		Knob Short Stem (2)	<b>Box 10 (50004801)</b>
		Battery "AA"	Rotisserie Kit
		Support Battery Holder	
		Battery Case	
		Heat Plate (5)	

**CAUTION:** Some parts may have sharp edges; to avoid injury, wearing gloves during assembly, lifting or moving the grill is recommended.

50004808

**VCS3008BI / VCS5008 BI Framing Dimensions**

	<b>Noncombustible Clearances</b>		<b>Combustible Clearances with ZC Insulated Jacket</b>	
Ref.	<b>VCS3008BI</b>	<b>VCS5008BI</b>	<b>VCS3008BI</b>	<b>VCS5008BI</b>
A	24 $\frac{5}{8}$ " (624 mm)	24 $\frac{5}{8}$ " (624 mm)	24 $\frac{5}{8}$ " (624 mm)	24 $\frac{5}{8}$ " (624 mm)
B	4 $\frac{3}{4}$ " (120 mm)	4 $\frac{3}{4}$ " (120 mm)	3" (76 mm)	3" (76 mm)
C	2" (51 mm) Dia.	2" (51 mm) Dia.	2" (51 mm) Dia.	2" (51 mm) Dia.
D	3 $\frac{1}{16}$ " (78 mm)	3 $\frac{1}{16}$ " (78 mm)	3 $\frac{1}{16}$ " (78 mm)	3 $\frac{1}{16}$ " (78 mm)
E	3" (76 mm)	3" (76 mm)	3" (76 mm)	3" (76 mm)
F	2 $\frac{1}{2}$ " (64 mm) Min.	2 $\frac{1}{2}$ " (64 mm) Min.	2 $\frac{1}{2}$ " (64 mm) Min.	2 $\frac{1}{2}$ " (64 mm) Min.
G	2 $\frac{1}{2}$ " (64 mm) Min.	2 $\frac{1}{2}$ " (64 mm) Min.	2 $\frac{1}{2}$ " (64 mm) Min.	2 $\frac{1}{2}$ " (64 mm) Min.
H	9 $\frac{3}{8}$ " (239 mm)	9 $\frac{3}{8}$ " (239 mm)	11 $\frac{1}{8}$ " (283 mm)	11 $\frac{1}{8}$ " (283 mm)
I	31 $\frac{3}{8}$ " (797 mm)	43 $\frac{3}{8}$ " (1102 mm)	31 $\frac{3}{8}$ " (797 mm)	43 $\frac{3}{8}$ " (1102 mm)
J	12" (305 mm)	12" (305 mm)	12" (305 mm)	12" (305 mm)
K	18" (457 mm)	18" (457 mm)	18" (457 mm)	18" (457 mm)
L	10" (254 mm)	10" (254 mm)	10" (254 mm)	10" (254 mm)
M	18 $\frac{3}{4}$ " (476 mm)	18 $\frac{3}{4}$ " (476 mm)	18 $\frac{3}{4}$ " (476 mm)	18 $\frac{3}{4}$ " (476 mm)
N	4" (102 mm) Min.	4" (102 mm) Min.	4" (102 mm) Min.	4" (102 mm) Min.
O	4" (102 mm) Min.	4" (102 mm) Min.	4" (102 mm) Min.	4" (102 mm) Min.
P	8" (203 mm)	8" (203 mm)	8" (203 mm)	8" (203 mm)
Q	13 $\frac{13}{16}$ " (351 mm)	13 $\frac{13}{16}$ " (351 mm)	13 $\frac{13}{16}$ " (351 mm)	13 $\frac{13}{16}$ " (351 mm)
R	33 $\frac{5}{16}$ " (845 mm)	45 $\frac{5}{16}$ " (1150 mm)	33 $\frac{5}{16}$ " (845 mm)	45 $\frac{5}{16}$ " (1150 mm)
S	n/a	n/a	9 $\frac{7}{8}$ " (250 mm)	13 $\frac{13}{16}$ " (350 mm)
T	n/a	n/a	3" (76 mm)	3" (76 mm)
U	n/a	n/a	4" (102 mm)	4" (102 mm)
V	n/a	n/a	5 $\frac{15}{16}$ " (150 mm)	5 $\frac{15}{16}$ " (150 mm)

**CAUTION:** Some parts may have sharp edges; to avoid injury, wearing gloves during assembly, lifting or moving the grill is recommended.

**NOTE:** Ensure your grill enclosure has been constructed according to the exact specifications shown in Figure 2. If the enclosure is constructed of wood or other similar combustible materials, the use of the insulated jacket Model VCS3008IJ or VCS5008IJ is required.

If you have an LP model with a 20lb cylinder stored in the enclosure, ensure there are at least two (2) air ventilation openings of 10 sq. inches (64.5 cm<sup>2</sup>) 180 degrees apart and they are level with the cylinder valve. Another two (2) openings with the same dimensions and distance are required to be level with the base of the cylinder. An enclosure for an LP gas cylinder shall be ventilated by openings at both the upper and lower levels of the enclosure. The effectiveness of the opening(s) for purposes of ventilation shall be determined with the LP gas supply cylinder in place. This shall be accompanied by one of the following:

- a. One side of the enclosure shall be completely open; or
- b. For a cylinder enclosure having four (4) sides, a top and a bottom and intended for installation in a built-in enclosure:
  1. At least one (1) ventilation opening shall be provided on the exposed exterior side of the enclosure located within 5 in. (127 mm) of the top of the enclosure and unobstructed. The opening(s) shall have a total free area of not less than 1 in<sup>2</sup>/lb (14.2 cm<sup>2</sup>/kg) of stored fuel capacity.
  2. At least one ventilation opening shall be provided on the exposed, exterior side of the enclosure 1 in (25.4 mm) or less from the floor level and shall have a total free area of not less than 1/2 in<sup>2</sup>/lb (7.1 cm<sup>2</sup>/kg) of stored fuel capacity. The upper edge shall be no more than 5 in (127 mm) above the floor level.
  3. Every opening shall have a minimum dimension so as to permit the entrance of a 1/8 in (3.2 mm) rod.

Always confirm the installation of this grill conforms with the requirements of all local codes or, in the absence of any applicable local codes, with either the National Fuel Gas Code, ANSI Z223.1/NFPA 54, or CSA B149.1, Natural Gas and Propane Installation Code.

**CAUTION: Some parts may have sharp edges; to avoid injury, wearing gloves during assembly, lifting or moving the grill is recommended.**

## Step 2: Assemble Fascia Brackets

### Parts Required:

- (1) Main Grill Unit
- (1) Left Fascia Bracket
- (1) Right Fascia Bracket
- (4) #10 x 1/2" Bolts
- (4) #10 Lock Nuts

*Figure 1*

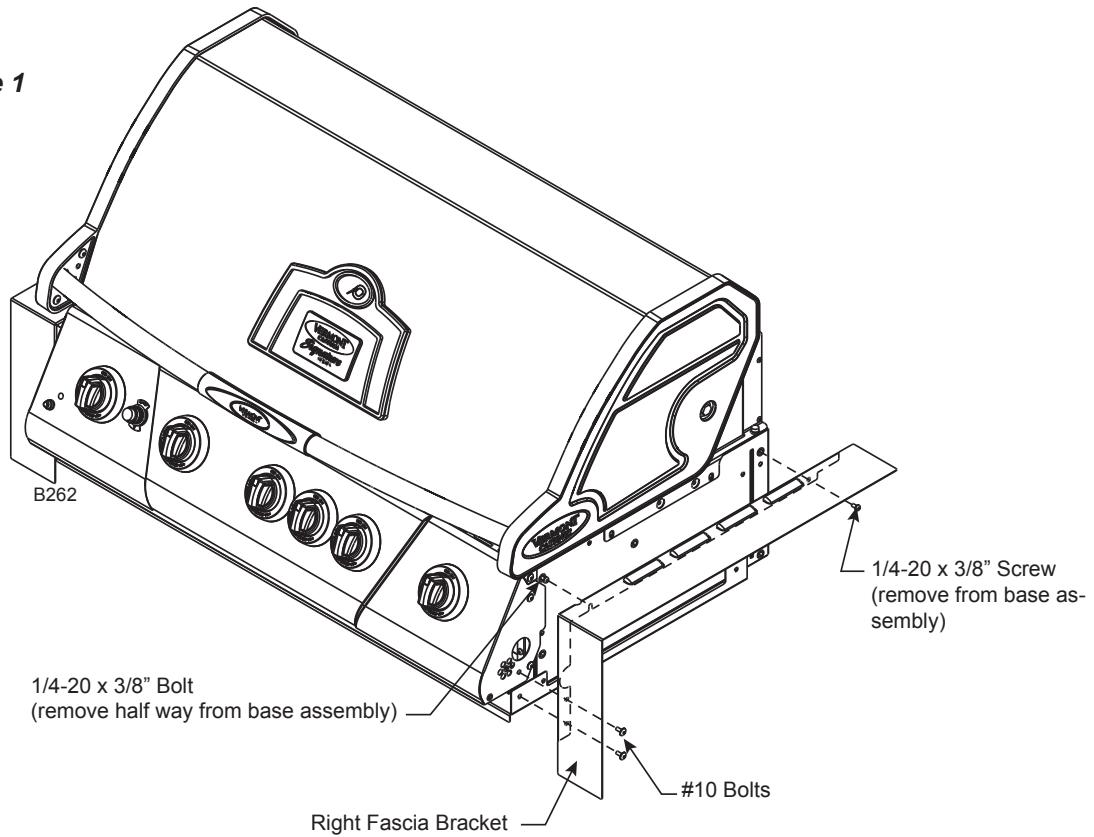
Prop up the front of the grill unit on a 2" or 3" block of wood or some other similar item. Remove the two (2) 1/4-20 x 3/8" bolts located at the top, right corner on the left and right side of the base assembly and loosen the two (2) front 1/4-20 x 3/8" bolts as shown.

Attach the right fascia bracket to the grill base by aligning the holes over the loosened bolts and gently pushing down on the fascia until the bolts settle into the grooves.

**NOTE:** Ensure the bottom of the flanges on the left and right fascia brackets slide between the flange of the bottom cover and the console.

Secure the rear of the brackets to the grill unit using the 1/4-20 x 3/8" bolts initially removed. Secure the brackets to the lower, front of the grill body by inserting two (2) #10 x 1/2" bolts and two (2) #10 nuts as shown.

*Figure 1*



**CAUTION:** Some parts may have sharp edges; to avoid injury, wearing gloves during assembly, lifting or moving the grill is recommended.

## Step 3: Assemble the Rear Panel

### Parts Required:

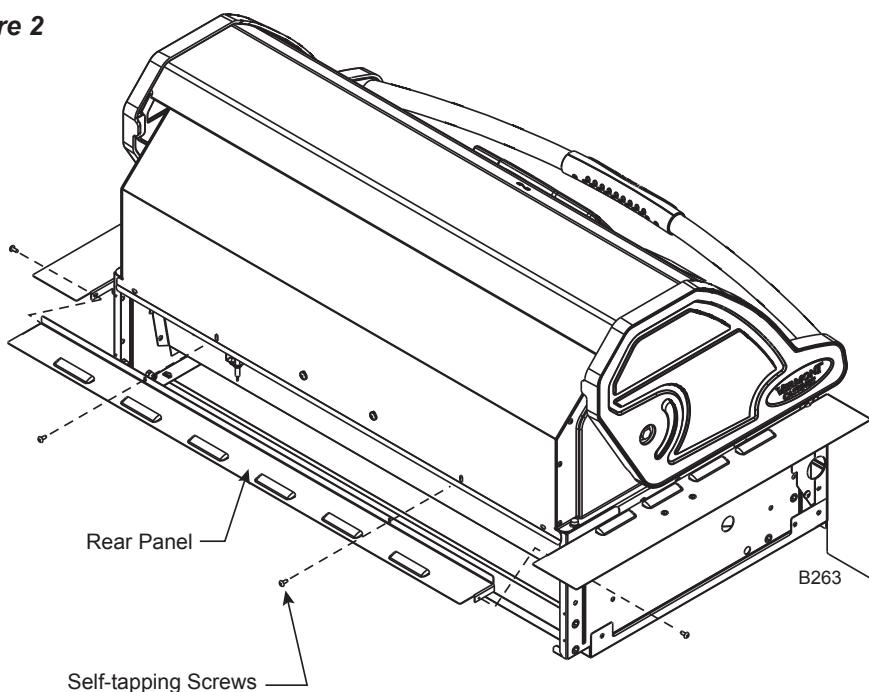
- (1) Rear Panel
- (1) Back Flange
- (4) Self-tapping Screws

*Figure 2*

Attach the back flange of the rear panel to the grill base with two (2) self-tapping screws.

Fasten the ends of the rear panel to the left and right fascia brackets with two (2) self-tapping screws.

*Figure 2*



**CAUTION:** Some parts may have sharp edges; to avoid injury, wearing gloves during assembly, lifting or moving the grill is recommended.

50004808

## Step 4: Assemble the Grease Tray Front and Handle

### Parts Required:

- (1) Grease Tray Front
- (1) Handle (with screws)
- (2) #10 Bolts
- (2) #10 Nuts

*Figure 3*

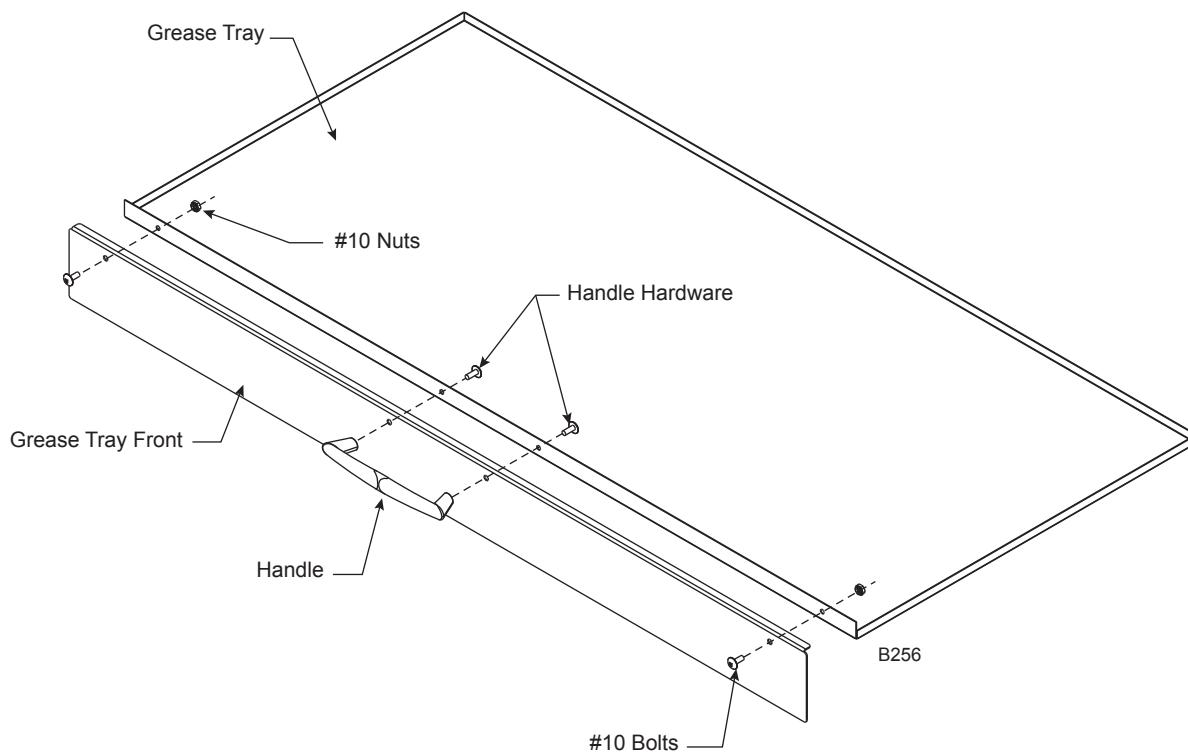
Remove the grease tray from the front of the grill base (below the control console). Remove the protective plastic from the grease tray front. Attach the grease tray front to the front lip of the grease tray with two (2) #10 bolts and tighten using two (2) #10 nuts.

Attach the handle to the tray with the two (2) screws supplied with the handle.

**NOTE:** Do not reinsert the grease tray into the grill base at this time.

**SERVICE NOTE:** Due to the shallow depth of the grease tray, ensure it is cleaned frequently to avoid a possible grease fire.

*Figure 3*



**CAUTION:** Some parts may have sharp edges; to avoid injury, wearing gloves during assembly, lifting or moving the grill is recommended.

## Step 5: Assemble the Grill Unit to the Enclosure

**NOTE:** This step should be performed by two (2) persons wearing gloves.

*Figure 4*

Before positioning the grill unit into the prepared enclosure or insulated jacket, depending on the available access, it may be necessary to temporarily disconnect the LP regulator or Natural Gas connector hose from the steel flex line.

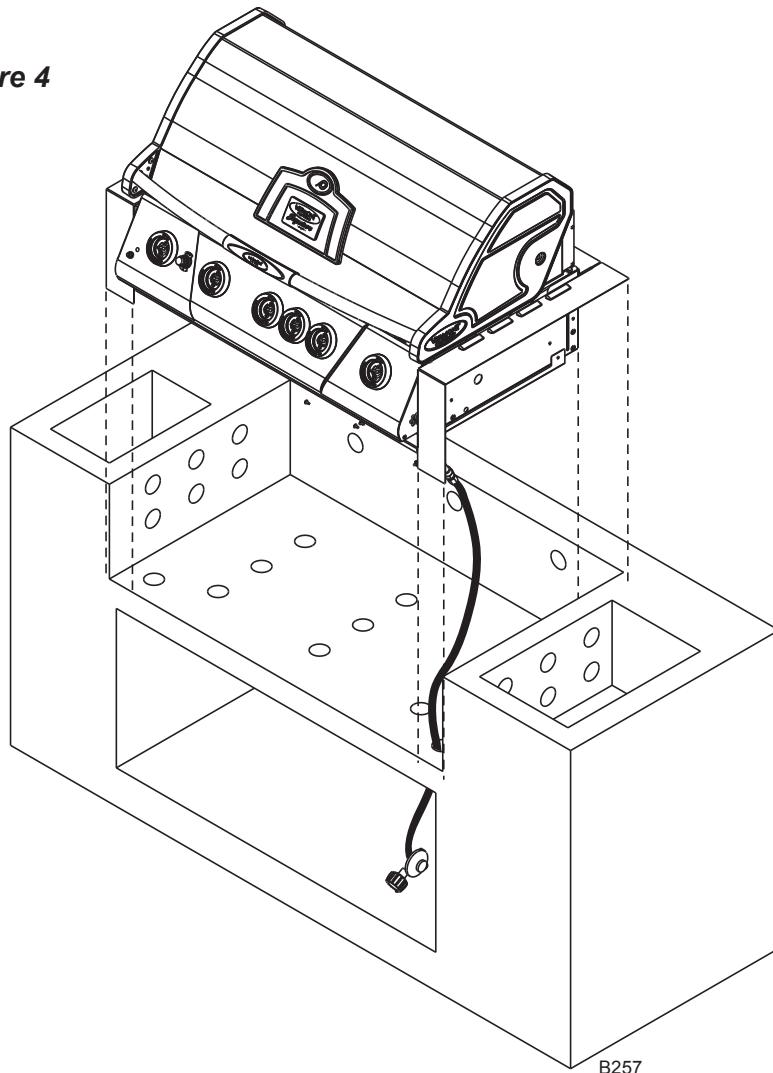
Carefully position the grill unit into the opening from the front and raised slightly, while ensuring the gas feed tubing is fed through the hole provided in the bottom of the enclosure opening. Push the unit back into its final position and check for proper fit.

Reattach the LP regulator or Natural Gas connector hose if it was removed and check all connections for leaks. Reinsert the grease tray into its place.

**CAUTION:** The end of the steel flex line should be clamped to the surrounding structure to prevent excessive movement.

**CAUTION:** Do not turn on the grill unit until after performing a leak check at all connection points and fittings. Use a spray solution of 50% dish soap and 50% water onto all connection points and fittings. Formation of bubbles indicates air leaks.

*Figure 4*



**CAUTION: Some parts may have sharp edges; to avoid injury, wearing gloves during assembly, lifting or moving the grill is recommended.**

## Step 6: Install Internal Components and Knobs

### Parts Required:

#### VCS3008BI

- (3) Sear Plates
- (2) Cooking Grates
- (1) Warming Rack
- (4) Knobs
- (1) Smoker Box

#### VCS5008BI

- (5) Sear Plates
- (4) Cooking Grates
- (1) Warming Rack
- (6) Knobs
- (1) Smoker Box

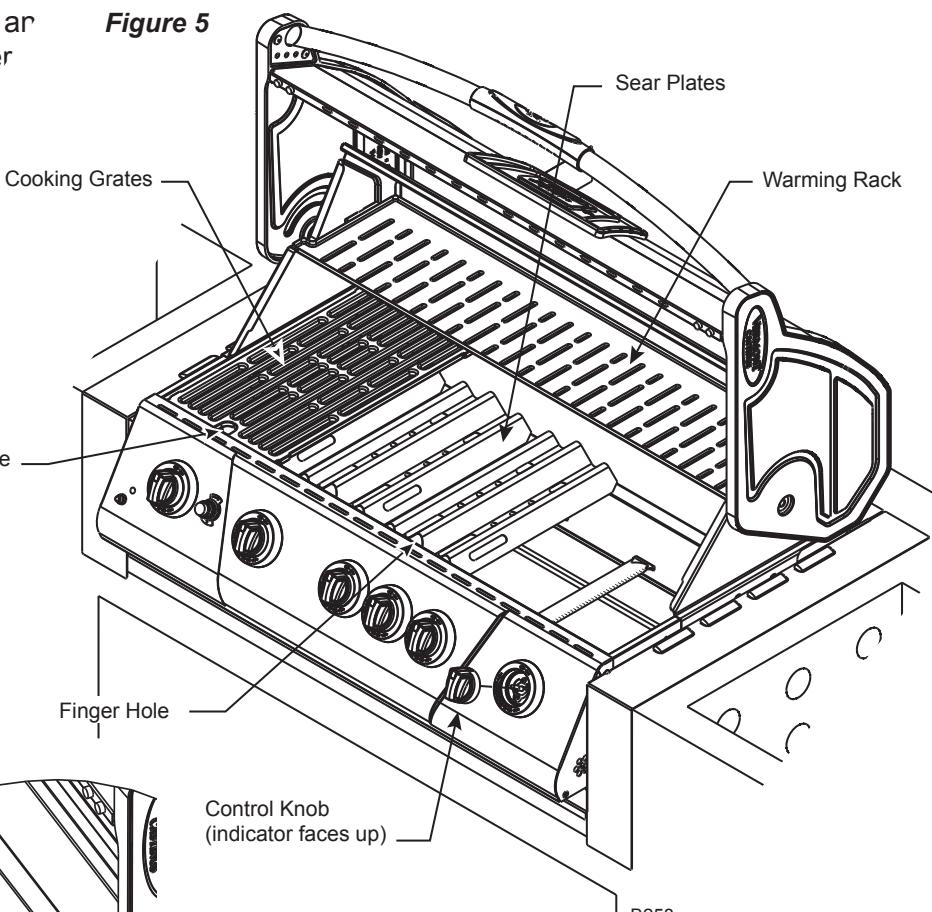
**Figure 5**

Carefully place each of the sear plates side by side inside the grill by making sure the semicircular finger groove is facing toward the front of the grill. Do the same with the cooking grates, making sure the finger groove is facing toward the front of the grill. Set the warming rack into the supports located on either side of the rear lid.

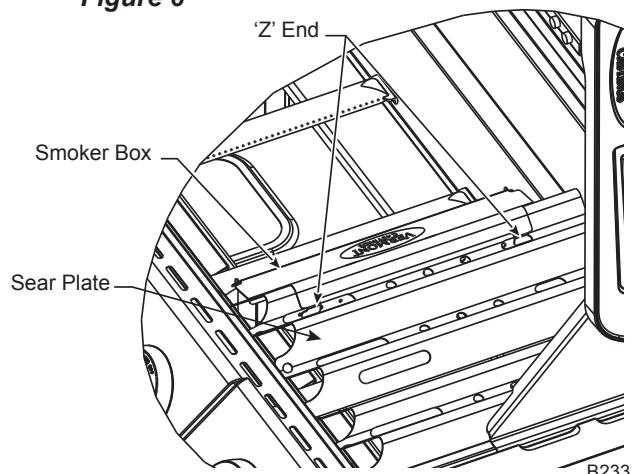
Place the smoker box assembly on an sear plate by laying the bracket over the sear plate so the 'z' ends of the bracket fit into the 'z' slots of the sear plate. Slide the smoker box assembly back into the locked position. (Fig. 6) Continue placing the remaining sear plates. The sm box may be left in place when not used. **CAUTION:** Only add wood to the smoker box when grill is coc

Align the knobs on the valve stems and push in until the knob sits snugly on the stem.

**Figure 5**



**Figure 6**



**CAUTION:** Some parts may have sharp edges; to avoid injury, wearing gloves during assembly, lifting or moving the grill is recommended.

**Cooking Tips - Smoker Box**

- To produce more smoke and prevent fast burning, pre-soak the wood chips in a separate bowl of water for at least 20 minutes.
- To add wood chips before cooking, fill the smoker box with your choice of flavored chips (remove wood chips from water first). The amount and type of wood you use is entirely up to you. Once the box is filled with the desired amount, close the lid and place the cooking grids in the proper position on the grill.
- Tips: Small wood chips work best inside the wood chip box.
- Allow grill to heat up before placing your food on the grill. This will allow time for the wood chips to begin to smoke.
- Do not use resinous woods such as pine or plywood. These will produce an unpleasant flavor.
- Do not try to add more wood chips while cooking. It is recommended that you allow grill to cool before replacing wood chips or handling the cooking grates which may still be hot.

**CAUTION: Some parts may have sharp edges; to avoid injury, wearing gloves during assembly, lifting or moving the grill is recommended.**

50004808

11



**CFM Corporation**

---

2695 Meadowvale Blvd. • Mississauga, Ontario, Canada L5N 8A3  
800-668-5323 • [www.cfmcorp.com](http://www.cfmcorp.com)