

MASTER  
**Chef**<sup>TM/MC</sup>



# **SELECT 3-BURNER PROPANE BARBECUE**

## **Assembly Manual**

**85-3096-2 (G31221) Propane**  
**1 YEAR LIMITED WARRANTY**

**READ AND SAVE MANUAL FOR FUTURE REFERENCE.**

Assemble your grill immediately.

Missing or damaged parts claims must be submitted within 30 days of purchase date.

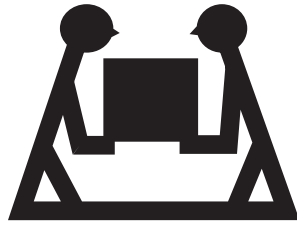
**For product inquiries, parts, warranty and troubleshooting support,  
please call 1-855-453-2150.**



ANSI Z21.58-2015 / CSA 1.6-2015  
Outdoor Cooking Gas Appliances



ANSI Z21.58-2015 / CSA 1.6-2015  
Outdoor Cooking Gas Appliances



**HEAVY ARTICLE NEEDS 2 TO LIFT**

**THIS MANUAL MUST REMAIN WITH THE PRODUCT AT ALL TIMES**

To ORDER non-warranty replacement parts or accessories, or to register your warranty, please visit us on the web at  
[www.masterchefbbqs.com](http://www.masterchefbbqs.com)

**⚠ CAUTION**

Sharp edges. Wear gloves when assembling your grill.

**⚠ CAUTION**

Read and follow all safety statements, assembly instructions, use and care directions before attempting to assemble and cook.

**⚠ INSTALLER OR ASSEMBLER/CONSUMER**

This manual should be kept with the BBQ at all times.

**⚠ WARNING**

Failure to follow all of the Manufacturer's instructions could result in hazardous fires, explosions, property damage, or serious personal injury or even death.

Follow all leak check procedures carefully prior to operation of barbecue, even if grill was dealer assembled. Do not try to light this barbecue without reading the Lighting Instructions section of this manual.

**⚠ DANGER**

1. If you smell Gas:
  - a. Shut off gas to the appliance.
  - b. Extinguish any open flame.
  - c. Open lid.
  - d. If odor continues, keep away from the appliance and immediately call your gas supplier or your fire department.
2. Requires two people to complete the assembly process.
3. Beware of sharp edges.

**⚠ WARNING**

1. Do not store or use gasoline or other flammable liquids or vapours 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**

IN DIRECT SUN, AND IN OPERATION, YOUR BBQ'S STAINLESS STEEL AND PAINTED STEEL PARTS CAN BECOME VERY HOT.

**THIS BARBECUE IS FOR OUTDOOR USE ONLY.**

**CONTACT CALL CENTRE IF ANY PARTS ARE MISSING.**

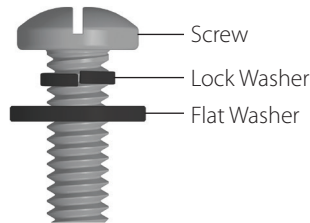
**1-855-453-2150**

# HARDWARE PACK

## TOOLS NEEDED FOR ASSEMBLY


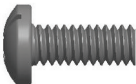
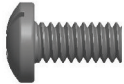
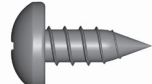
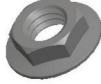







- #2 Star-head screwdriver (long and short)
- ¼" Slotted screwdriver (long and short)
- Adjustable wrench
- Pliers

For correct hardware assembly, always position the lock washer between the screw and the flat washer.



| KEY # | DESCRIPTION               | PART NUMBER     | QUANTITY |
|-------|---------------------------|-----------------|----------|
| 1     | NO.10-24UNC X23 Screw     | 20124-10023-036 | 2        |
| 2     | NO.10-24UNC X13 Screw     | 20124-10013-036 | 30       |
| 3     | NO.8-32UNC X10 Screw      | 20132-08010-250 | 2        |
| 4     | ST4.2X8 Tapping Screw     | 24200-42008-136 | 8        |
| 5     | NO.10-24UNC Nut           | 31224-10000-036 | 2        |
| 6     | φ5 Lock Washer            | 41400-05000-036 | 6        |
| 7     | φ5 Washer                 | 40300-05000-036 | 6        |
| 8     | NO.8 Wing Nut             | 33300-08000-032 | 1        |
| 9     | Venturi Clip, Side Burner | G305-0057-9000  | 1        |
| 10    | Wheel Spacer              | G305-0024-9088  | 2        |
| 11    | Hitch Pin                 | G306-0005-9088  | 1        |
| 12    | Washer (Wheel)            | 40300-08000-036 | 1        |

**Caution:**  
Sheet metal can cause injury. Wear gloves when installing the grill.

|  |   |  |
|--|---|--|
| <p><b>1</b></p>  <p>NO.10-24UNC X23 Screw<br/>X 2</p>  | <p><b>2</b></p>  <p>NO.10-24UNC X13 Screw<br/>X30</p> | <p><b>3</b></p>  <p>NO.8-32UNC X10 Screw<br/>X 2</p>       |
| <p><b>4</b></p>  <p>ST4.2X8 Tapping Screw<br/>X 8</p> | <p><b>5</b></p>  <p>NO.10-24UNC Nut<br/>X 2</p>      | <p><b>6</b></p>  <p>φ5 Lock Washer<br/>X 6</p>            |
| <p><b>7</b></p>  <p>φ5 Washer<br/>X 6</p>             | <p><b>8</b></p>  <p>NO.8 Wing Nut<br/>X 1</p>        | <p><b>9</b></p>  <p>Venturi Clip, Side Burner<br/>X 1</p> |
| <p><b>10</b></p>  <p>Wheel Spacer<br/>X 2</p>         | <p><b>11</b></p>  <p>Hitch Pin<br/>X 1</p>           | <p><b>12</b></p>  <p>Washer (Wheel)<br/>X 1</p>           |

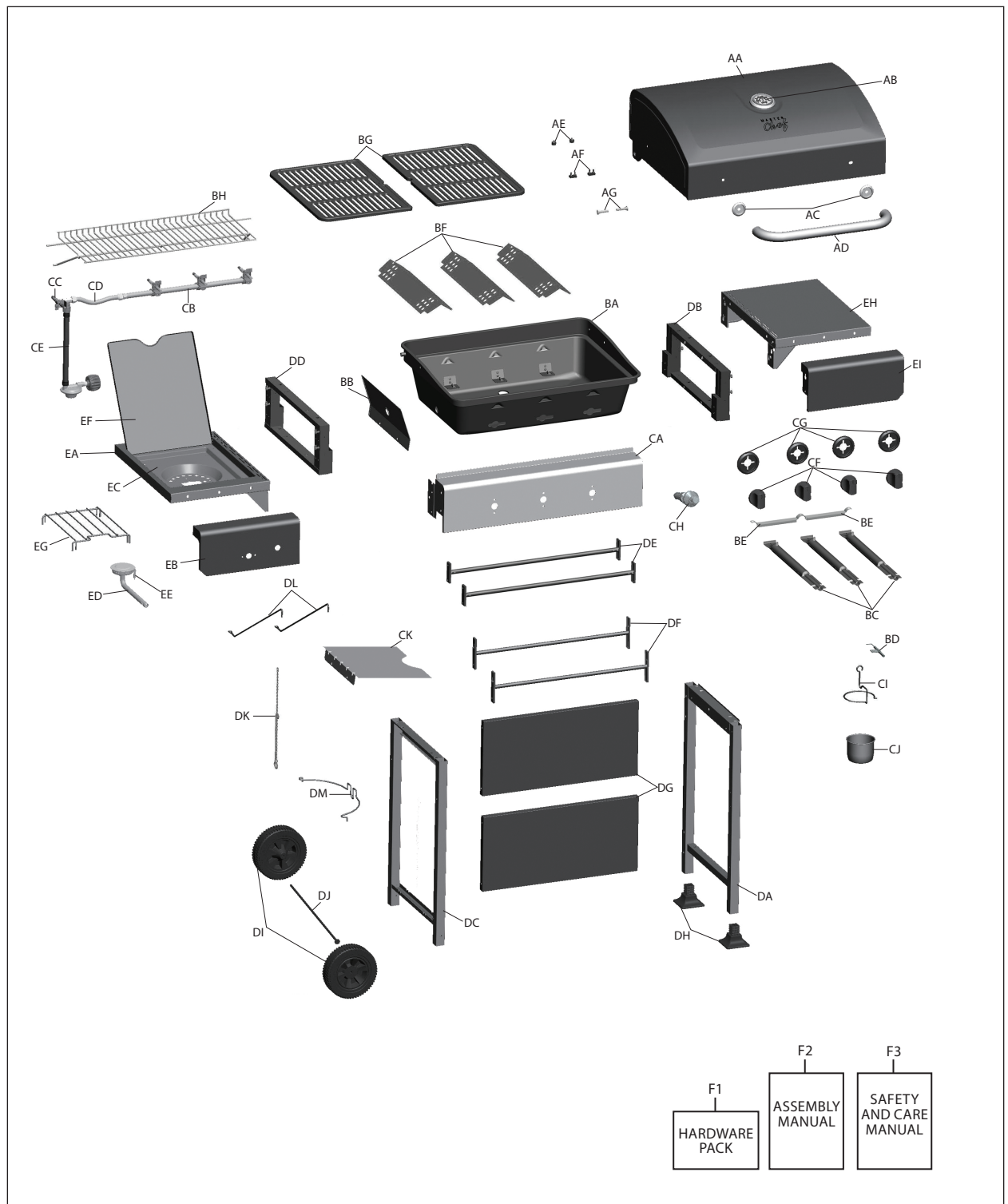
**BEFORE ASSEMBLING THIS BARBECUE, READ THE INSTRUCTIONS CAREFULLY.**

Assemble the barbecue on a flat, clean surface. Grill is heavy. Two people are recommended to complete assembly.

## PARTS LIST (PROPANE) FOR 85-3096-2 (G31221)

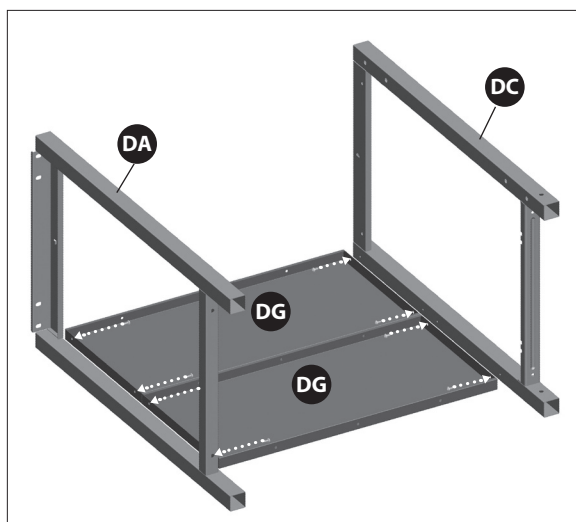
| KEY # | QUANTITY | DESCRIPTION                | PART NO.     |
|-------|----------|----------------------------|--------------|
| AA    | 1        | Top lid assembly           | G312-BA00-01 |
| AB    | 1        | Thermometer and bezel      | G312-B201-01 |
| AC    | 2        | Lid handle brackets        | G352-0015-01 |
| AD    | 1        | Top lid handle             | G312-B203-01 |
| AE    | 2        | Lid bumpers-back           | G527-0002-01 |
| AF    | 2        | Lid bumpers-front          | G430-00B8-01 |
| AG    | 2        | Screws for lid             | G309-0008-01 |
| BA    | 1        | Burner box assembly        | G312-9200-01 |
| BB    | 1        | Side heat shield           | G312-2201-01 |
| BC    | 3        | Burner                     | G312-OD00-01 |
| BD    | 1        | Electrode set, main burner | G312-B103-01 |
| BE    | 2        | Carryover assembly         | G312-0012-01 |
| BF    | 3        | Flame tamer                | G312-0205-01 |
| BG    | 2        | Cooking grate              | G312-2102-01 |
| BH    | 1        | Warming rack               | G312-0010-01 |
| CA    | 1        | Control panel              | G312-BJ00-01 |
| CB    | 1        | Manifold assembly          | G312-BD00-01 |
| CC    | 1        | Side burner valve, LP      | G312-BD02-01 |
| CD    | 1        | Metal hose, side burner    | G430-2403-01 |
| CE    | 1        | Regulator                  | G311-0503-01 |
| CF    | 4        | Control knob               | G312-B102-01 |
| CG    | 4        | Bezel, control knob        | G430-0027-02 |
| CH    | 1        | Ignitor                    | G206-0301-01 |
| CI    | 1        | Grease cup hook            | G305-0043-01 |
| CJ    | 1        | Grease cup                 | G307-0025-01 |
| CK    | 1        | Heat shield (tank)         | G312-0408-01 |
| DA    | 1        | Lower cart frame, right    | G312-B600-01 |
| DB    | 1        | Upper cart frame, right    | G312-B900-01 |
| DC    | 1        | Lower cart frame, left     | G312-B500-01 |
| DD    | 1        | Upper cart frame, left     | G312-B800-01 |
| DE    | 2        | Upper cart brace           | G312-AF00-01 |
| DF    | 2        | Back brace                 | G312-B700-01 |
| DG    | 2        | Front panel                | G312-B001-01 |
| DH    | 2        | End caps                   | G312-OL07-01 |
| DI    | 2        | Wheel                      | G437-0037-01 |
| DJ    | 1        | Wheel axle                 | G312-B004-01 |
| DK    | 1        | Match holder               | G401-0079-01 |
| DL    | 2        | Tank exclusion             | G312-B002-01 |
| DM    | 1        | Gas tank support           | G312-B003-01 |
| EA    | 1        | Side shelf table, left     | G312-BC00-01 |
| EB    | 1        | Side shelf fascia, left    | G312-B301-01 |
| EC    | 1        | Side burner drip pan       | G651-0038-01 |
| ED    | 1        | Side burner                | G432-Y300-01 |
| EE    | 1        | Electrode set, side burner | G431-0034-02 |
| EF    | 1        | Side burner lid            | G430-0018-A1 |
| EG    | 1        | Side burner grate          | G430-0053-01 |
| EH    | 1        | Side shelf table, right    | G312-BL00-01 |
| EI    | 1        | Side shelf fascia, right   | G312-B401-01 |
| F1    | 1        | Hardware pack              | G312-B021-01 |
| F2    | 1        | Assembly instructions      | G312-M021-01 |
| F3    | 1        | Safe use and care manual   | G453-M015-02 |

# EXPLODED DIAGRAM (PROPANE) FOR 85-3096-2 (G31221)

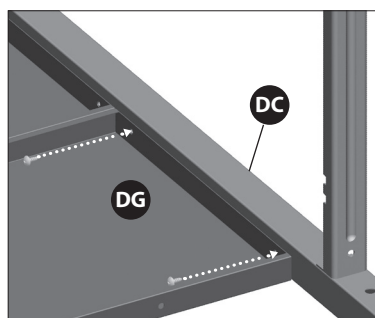


# ASSEMBLY INSTRUCTIONS

## 1



Front View

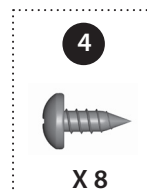


Close Up

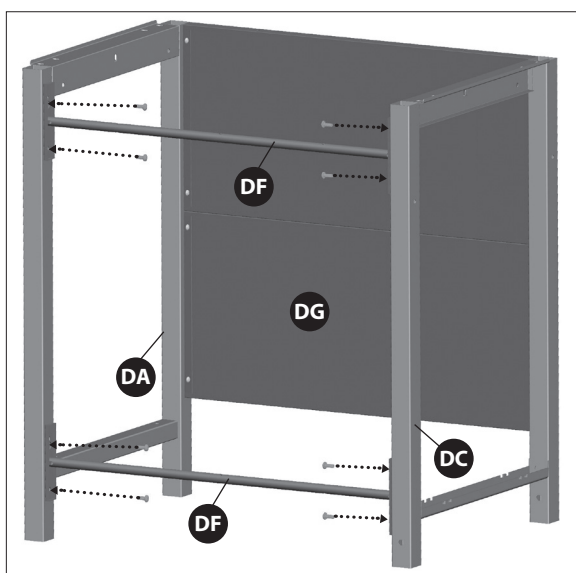
**Note: Two people required for all assembly steps.**

Assemble two front panels (DG) to the lower left and right cart frames (DA and DC) as shown.

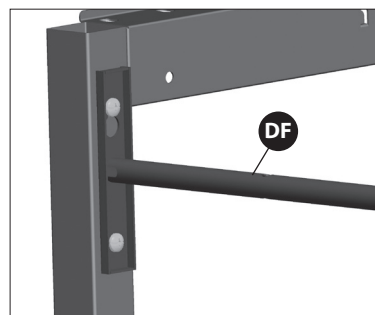
YOU WILL NEED:



## 2



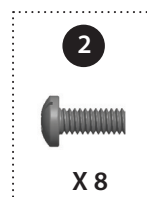
Back View



Close Up

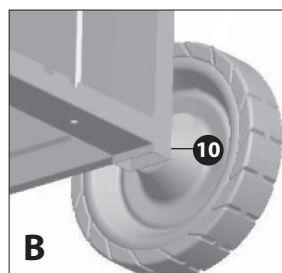
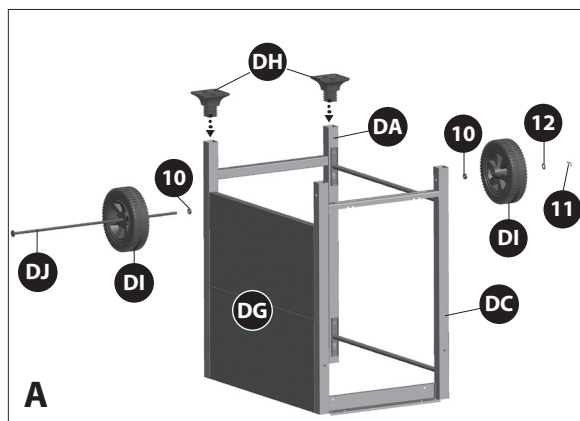
Assemble two back braces (DF) to the lower left and right cart frames (DA and DC) as shown.

YOU WILL NEED:

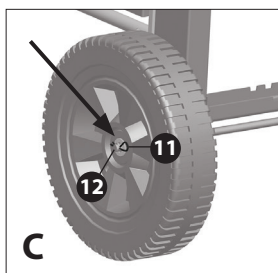


# ASSEMBLY INSTRUCTIONS

## 3



Close up

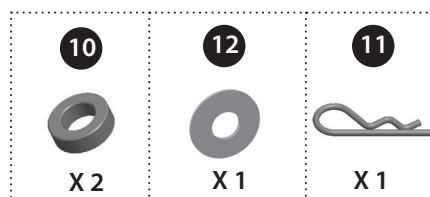


Close up

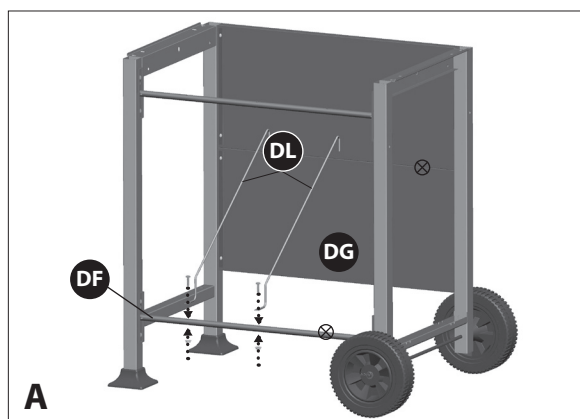
**Note: Turn Cart assembly upside down.**

- Place wheel (DI) and wheel spacer (#10) onto the wheel axle (DJ). "Cone" side of wheel should be against cart side panel, figure B.
- Insert wheel axle assembly (DJ) through wheel axle hole in the front and rear of the left cart side panel (DC), as shown.
- To complete wheel assembly position the wheel spacer (#10), wheel (DI), wheel washer (#12) and hitch pin (#11), onto wheel axle (DJ) as shown.
- Insert end caps (DH) into right cart side panel (DA).

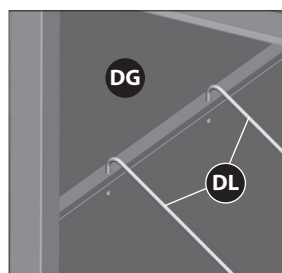
YOU WILL NEED:



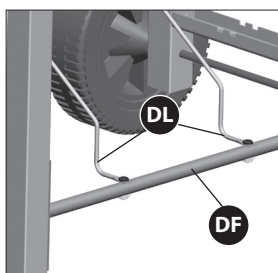
## 4



Back View



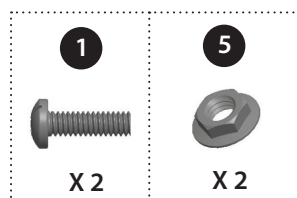
Close up - front view



Close up - back view

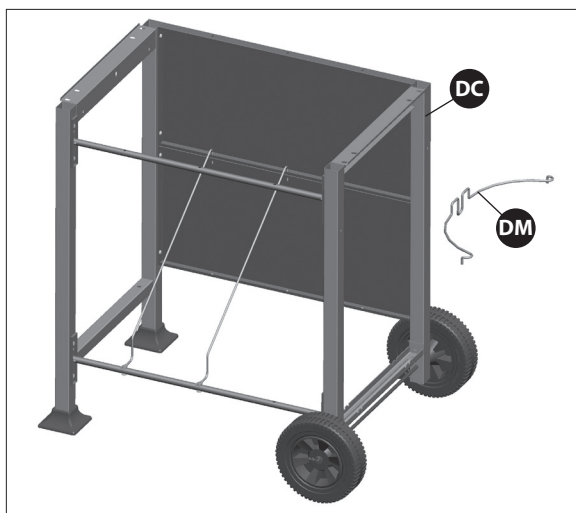
Assemble two tank exclusion wires (DL) to the back brace (DF) and the front panel (DG), as shown. Use left and middle hole only.

YOU WILL NEED:

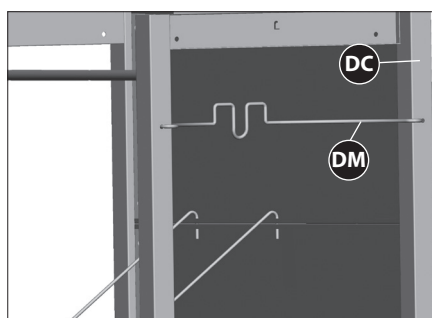


## ASSEMBLY INSTRUCTIONS

5



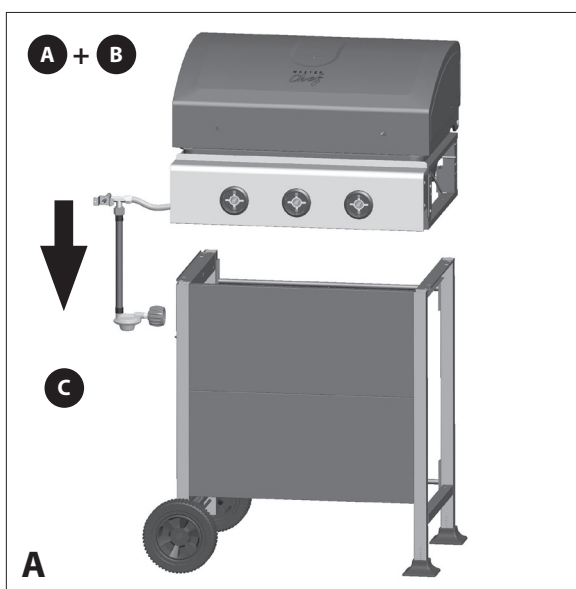
Back View



Close up

Assemble the gas tank support (DM) to left cart frame (DC).

6



**Note: TWO PEOPLE required for this step. Ensure that the regulator hose (CE) (Propane models only) is hanging outside of cart.**

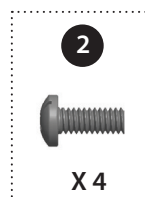
- Position the lid and burner box assembly (A & B), onto the cart assembly (C).



# 6

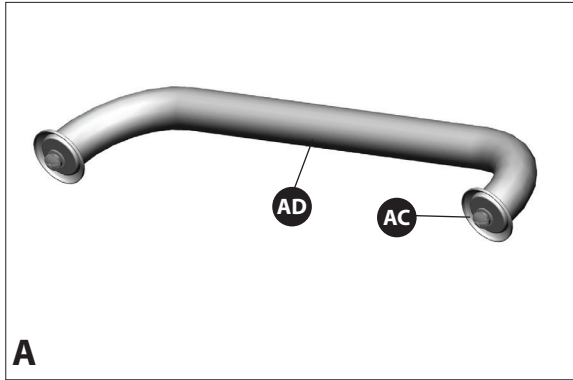


**YOU WILL NEED:**

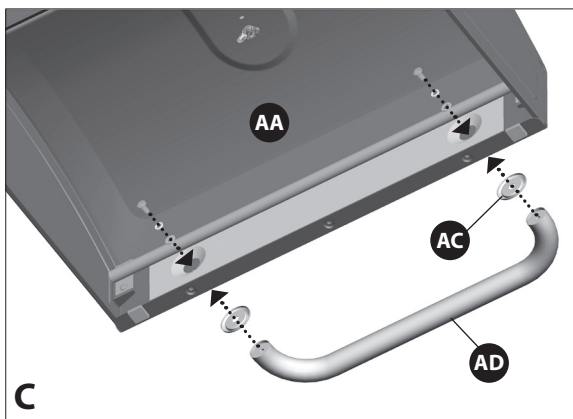
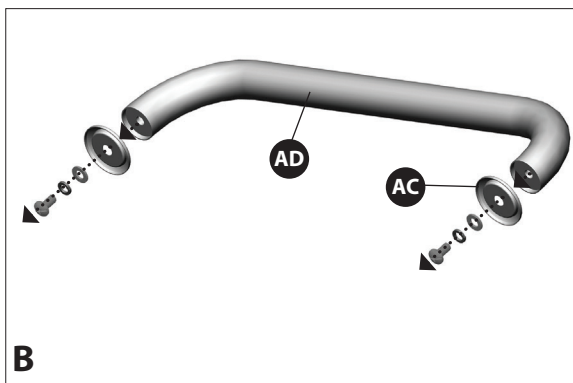


## ASSEMBLY INSTRUCTIONS

# 7



- a. Remove the hardware and lid handle brackets (AC) that are pre-assembled to the lid handle (AD), as shown in figure A and B.

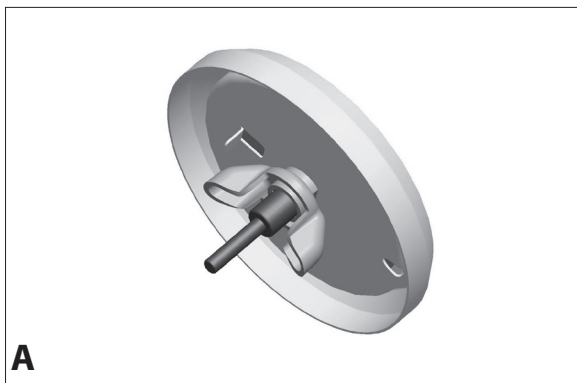


- b. Assemble the lid handle (AD) to the top lid assembly (AA) using the hardware from step A, as shown in figure C.

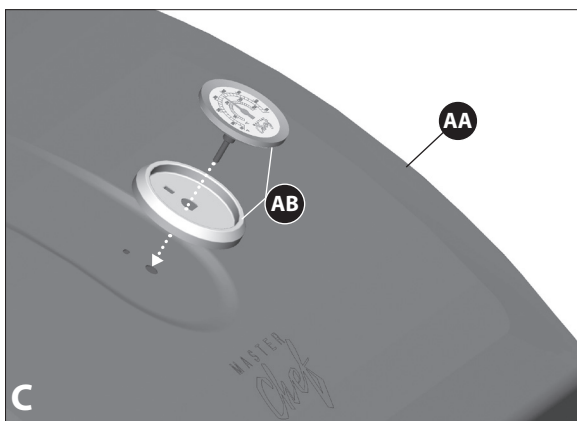
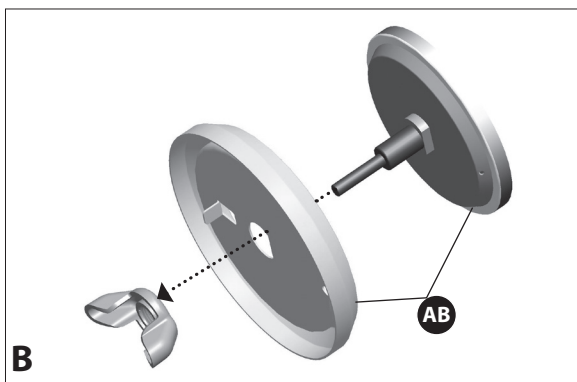
View from inside of the lid

## ASSEMBLY INSTRUCTIONS

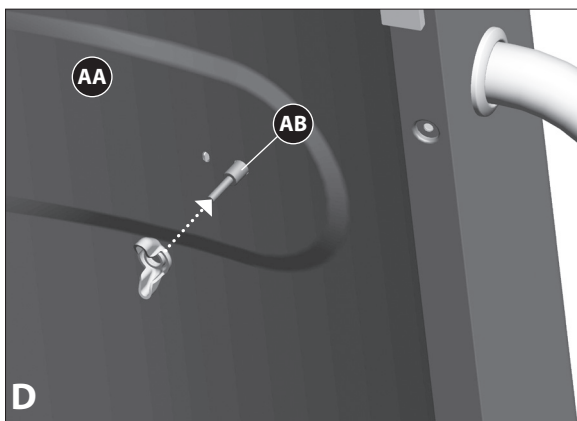
# 8



- a. Remove the hardware and thermometer bezel that are pre-assembled to the thermometer (AB), as shown in figure A and B.



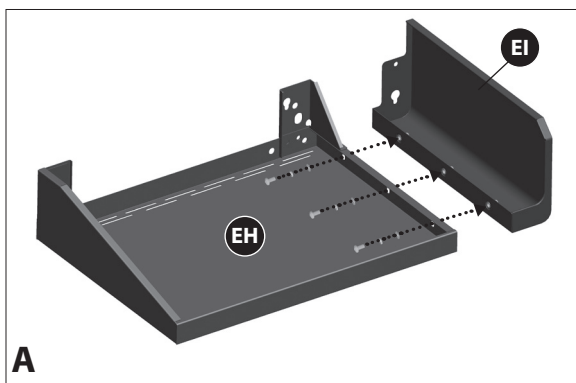
- b. Assemble the thermometer and bezel (AB) to the top lid assembly (AA), using the hardware from step A, as shown in figure C and D.



View from inside of the lid

# ASSEMBLY INSTRUCTIONS

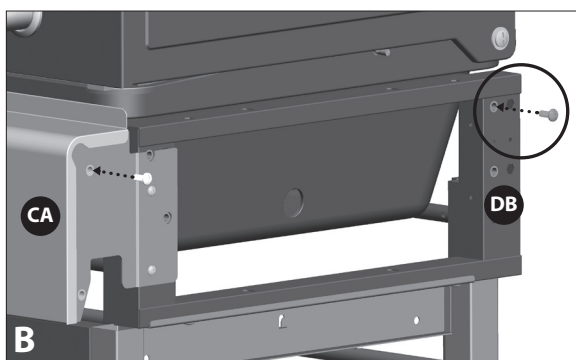
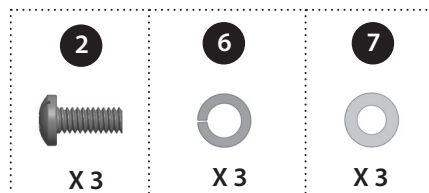
## 9



### RIGHT SIDE SHELF ASSEMBLY

- a. Assemble the right side shelf fascia (EI) to right side shelf table (EH).

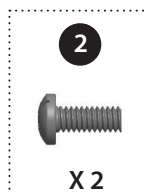
YOU WILL NEED:



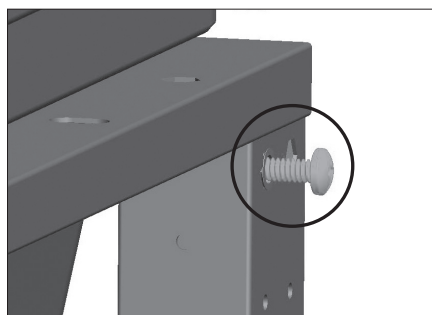
Right side view

- b. Assemble the hardware to the right upper cart frame (DB) and control panel (CA).  
Do not tighten.

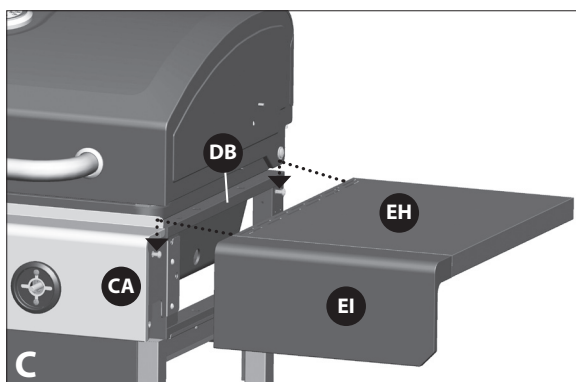
YOU WILL NEED:



**TIP: Only assemble to brass nut.**



Close up

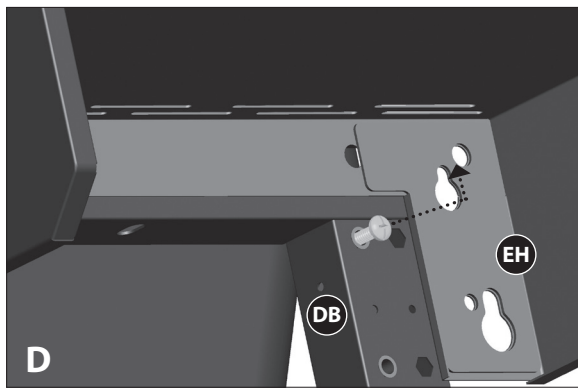


Right side view

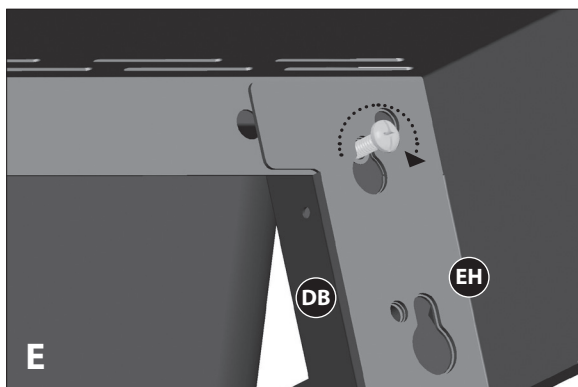
- c. Position the right side shelf assembly (EH and EI) onto the hardware half-tightened in Step 9B, as shown in figure C and D.

# ASSEMBLY INSTRUCTIONS

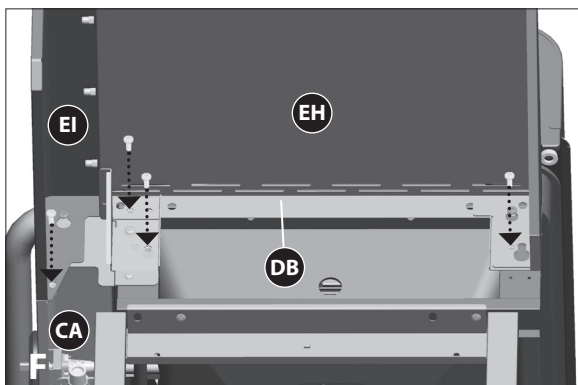
9



Back view, under right side shelf



Back view, under right side shelf

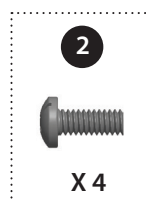


View, under right side shelf

d. Tighten screws.

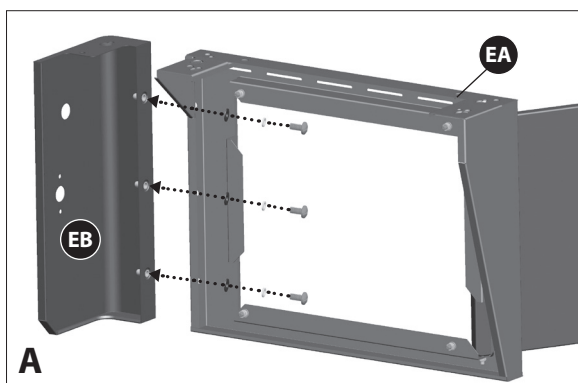
e. Assemble the right side shelf assembly (EH and EI) to the control panel (CA) and right upper cart frame (DB).

YOU WILL NEED:



**TIP: Only assemble to brass nut.**

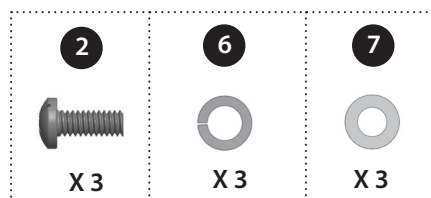
10



## LEFT SIDE SHELF ASSEMBLY

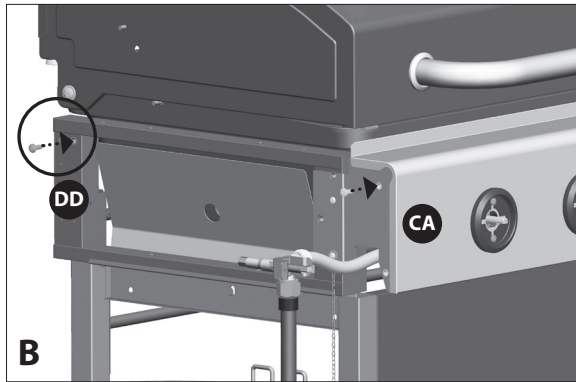
a. Assemble the left side shelf fascia (EB) to left side shelf table (EA).

YOU WILL NEED:

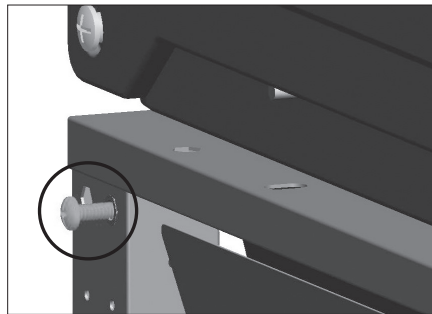


# ASSEMBLY INSTRUCTIONS

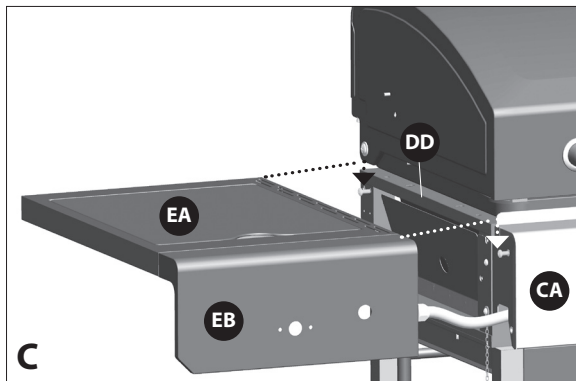
## 10



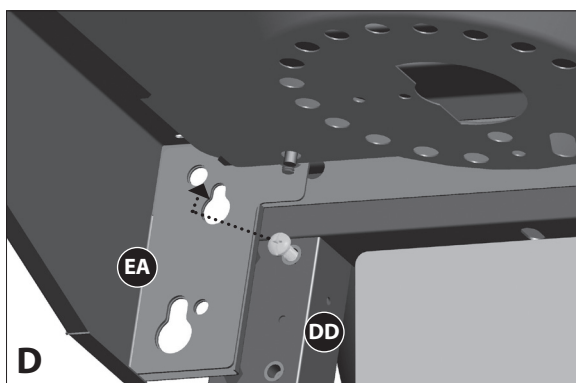
Left side view



Close up



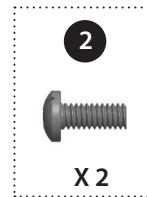
Left side view



Back view, under left side shelf

b. Assemble the hardware to the left upper cart frame (DD) and control panel (CA).  
Do not tighten.

YOU WILL NEED:

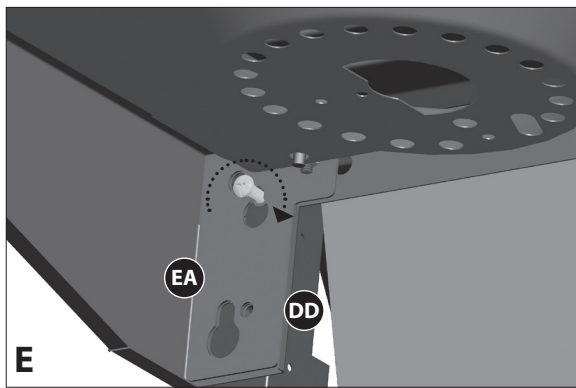


**TIP: Only assemble to brass nut.**

c. Position the left side shelf assembly (EA and EB) onto the hardware half-tightened in Step 10B, as shown in figure C and D.

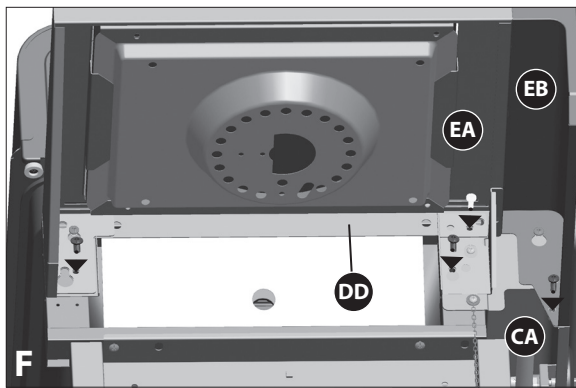
# ASSEMBLY INSTRUCTIONS

## 10



Back view, under left side shelf

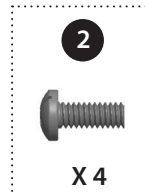
d. Tighten screws.



View, under left side shelf

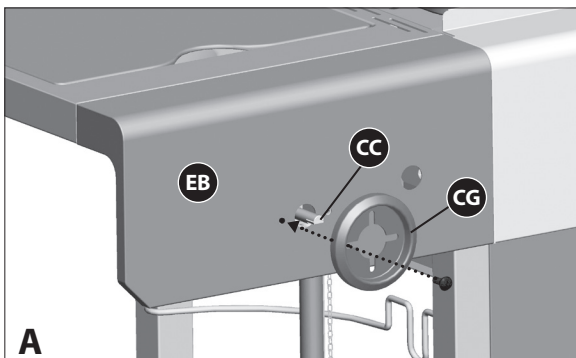
e. Assemble the left side shelf assembly (EA and EB) to the control panel (CA) and left upper cart frame (DD).

YOU WILL NEED:



**TIP: Only assemble to brass nut.**

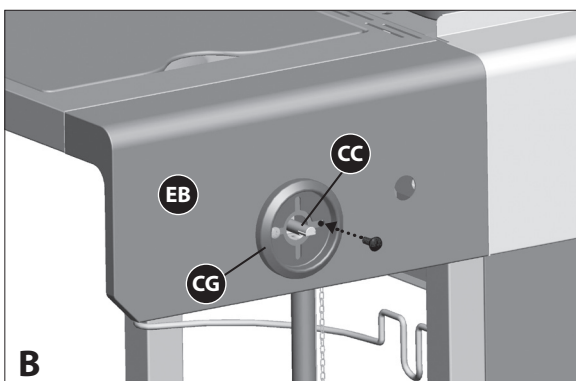
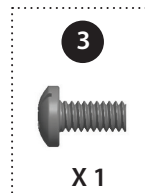
## 11



Front view

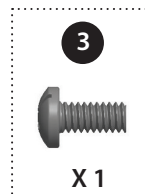
a. Assemble the control knob bezel (CG) to the left side shelf fascia (EB) and the side burner valve (CC), as shown in figure A and B.

YOU WILL NEED:



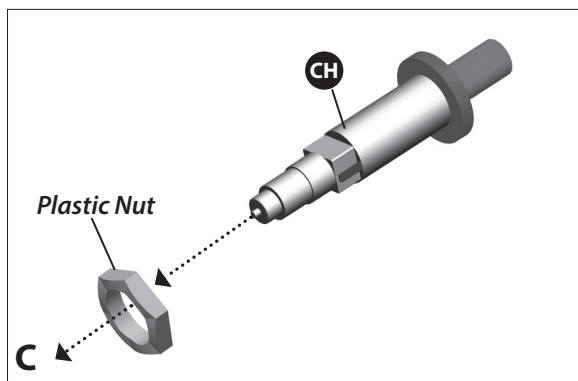
Front view

YOU WILL NEED:

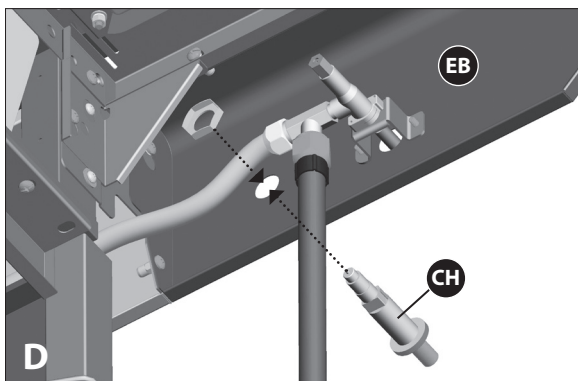


# ASSEMBLY INSTRUCTIONS

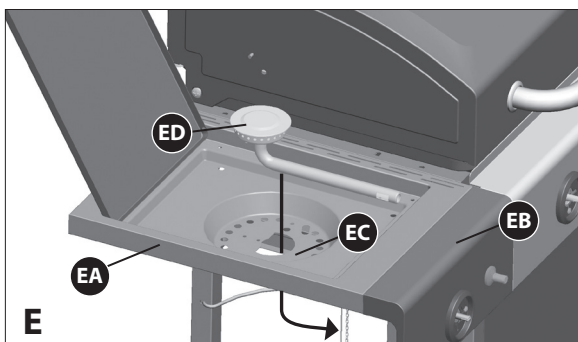
## 11



- b. Remove the plastic nut from the ignitor (CH). Assemble it through the front of the left side shelf fascia (EB), as shown in figure C and D.

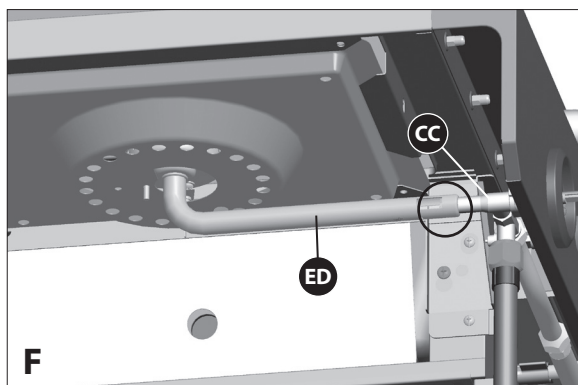


View, under left side shelf



Left side view

- c. Position the side burner (ED) through the opening in the left side burner drip pan (EC).



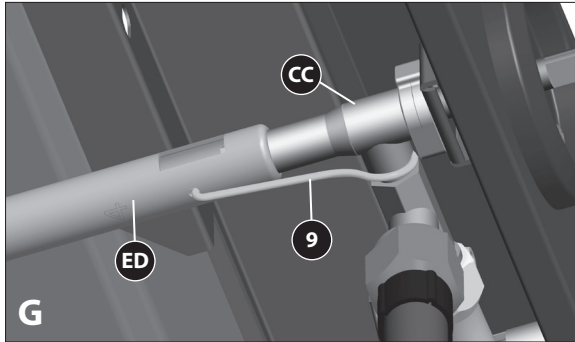
View, under left side shelf

- d. Make sure that the side burner (ED) engages the side burner valve (CC) as shown in figure F.



# ASSEMBLY INSTRUCTIONS

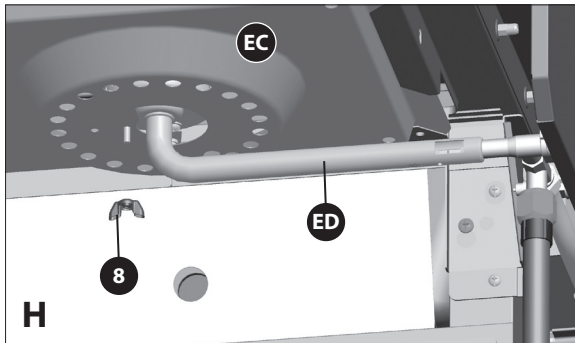
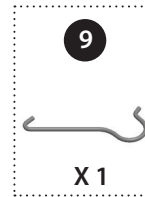
# 11



View, under left side shelf

- e. Use the side burner venturi clip (#9) to connect the side burner (ED) and the side burner valve (CC), as shown in figure G.

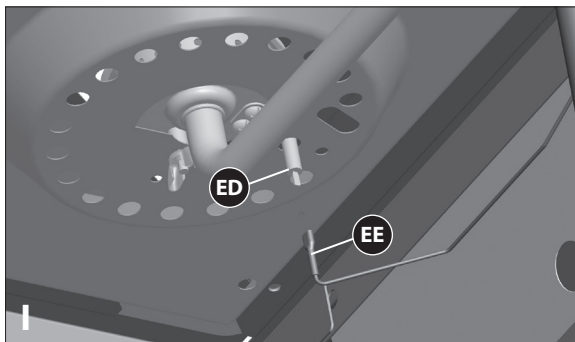
YOU WILL NEED:



View, under left side shelf

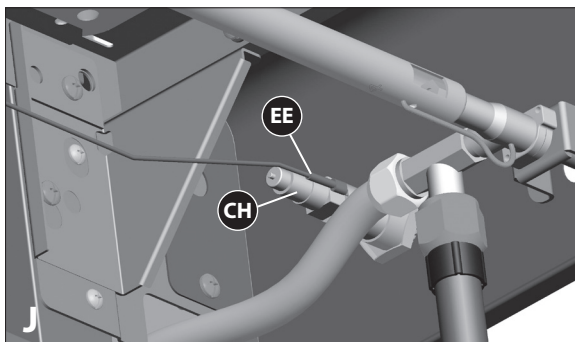
- f. Assemble the side burner (ED) to the side burner drip pan (EC) as shown in figure H.

YOU WILL NEED:



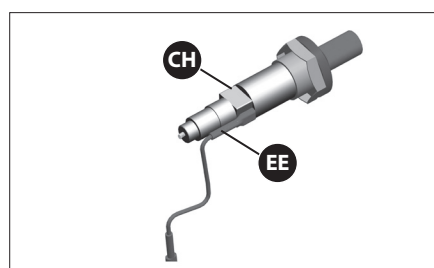
View, under left side shelf

- g. Assemble the side burner electrode wire (EE) to the underside of the side burner electrode (ED) as shown in figure I. Make sure the electrode wire (EE) is pushed in firmly.



View, under left side shelf

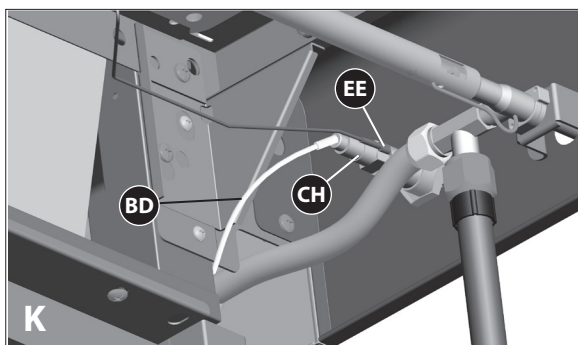
- h. Attach the other end of the side burner electrode wire (EE) to the ignitor (CH) as shown in figure J. Make sure the electrode wire (EE) is pushed in firmly.



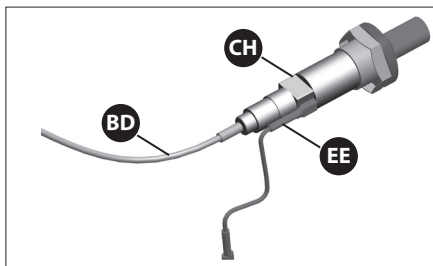
Close up

# ASSEMBLY INSTRUCTIONS

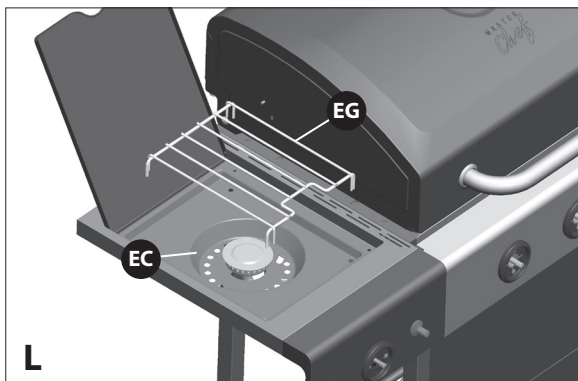
## 11



View, under left side shelf



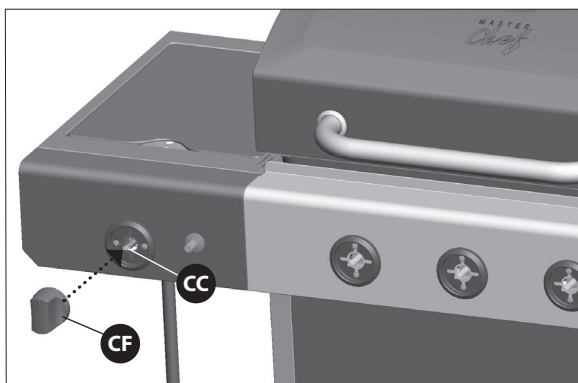
Close up



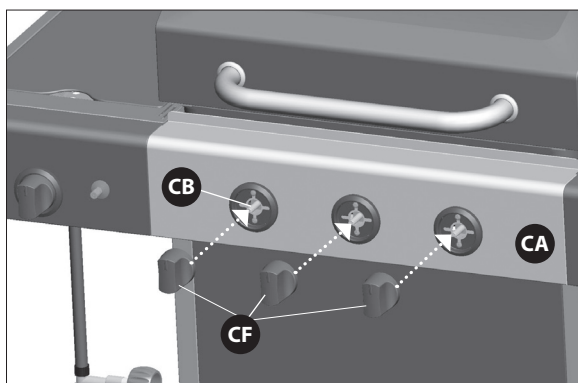
- i. Attach the main burner electrode wire (BD) to the ignitor (CH) as shown in figure K. Make sure that the electrode wire (BD) is pushed in firmly.

- j. Position the side burner grate (EG) onto the side burner drip pan (EC).

## 12



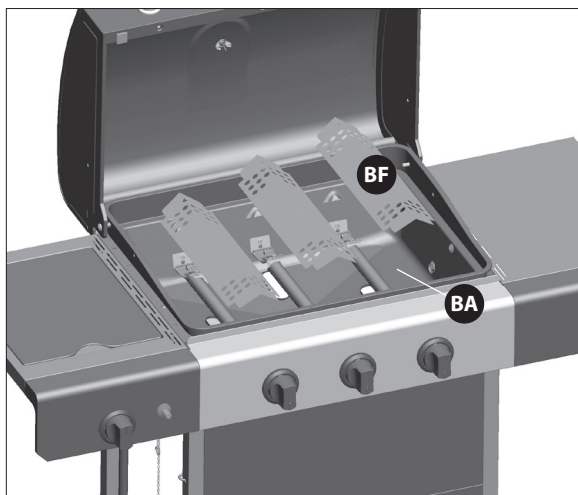
- a. Assemble the side burner control knob (CF) onto the side burner valve (CC).



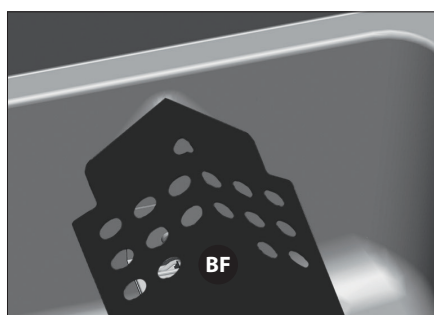
- b. Assemble the three control knobs (CF) onto the valve stems of the manifold assembly (CB) located on the control panel (CA).

## ASSEMBLY INSTRUCTIONS

13



Place the flame tamers (BF) into the burner box assembly (BA).



Close up

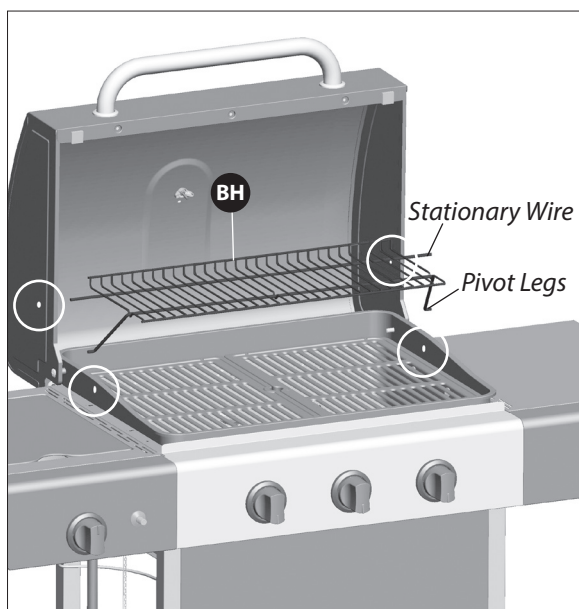
14



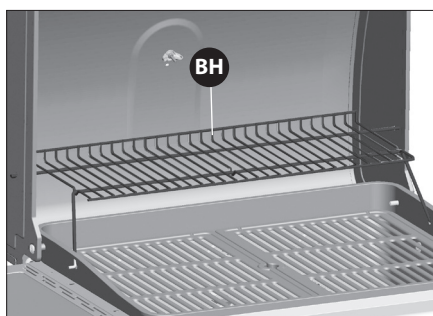
Place the cooking grate (BG) into the burner box assembly (BA).

## ASSEMBLY INSTRUCTIONS

15

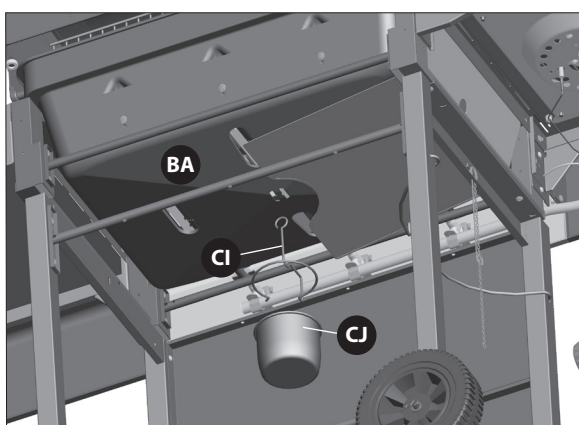


To assemble the warming rack (BH), insert the stationary wire into the holes on the sides of the lid. Insert warming rack pivot legs into the holes on the inside of the burner box assembly, as shown.



Close up

16

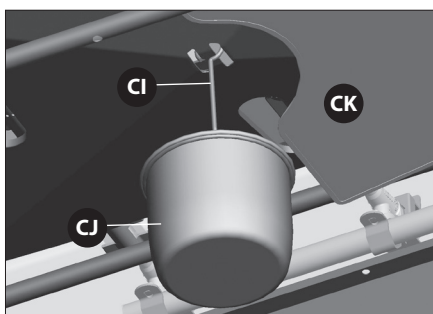


View from underneath burner box

Hang the grease cup hook (CI) from the bottom of the burner box (BA), and place grease cup (CJ) into position.

### **⚠ CAUTION ⚠**

***Failure to assemble grease cup hook and grease cup will cause hot grease to drip from the bottom of the BBQ burner box, with the risk of fire, property damage, or personal injury.***



Close up

## ASSEMBLY INSTRUCTIONS

# 17



Position the 20 lb propane tank into the notches located on the bottom of the left lower cart frame (DC). Position the gas tank support (DM) onto the tank collar. Attach the regulator coupling nut (CE) to the propane tank valve.

### ⚠ ATTENTION ⚠

*LP Cylinder is sold separately. Use only LP tanks that are equipped with an OPD (Overfill protection device). Fill and leak check before attaching to the BBQ hose and regulator. See Safe Use and Care Manual, leak test procedure for more information*

### ⚠ WARNING ⚠

*When assembling regulator onto LP cylinder, ensure that the regulator is assembled below the support bar, as shown.*

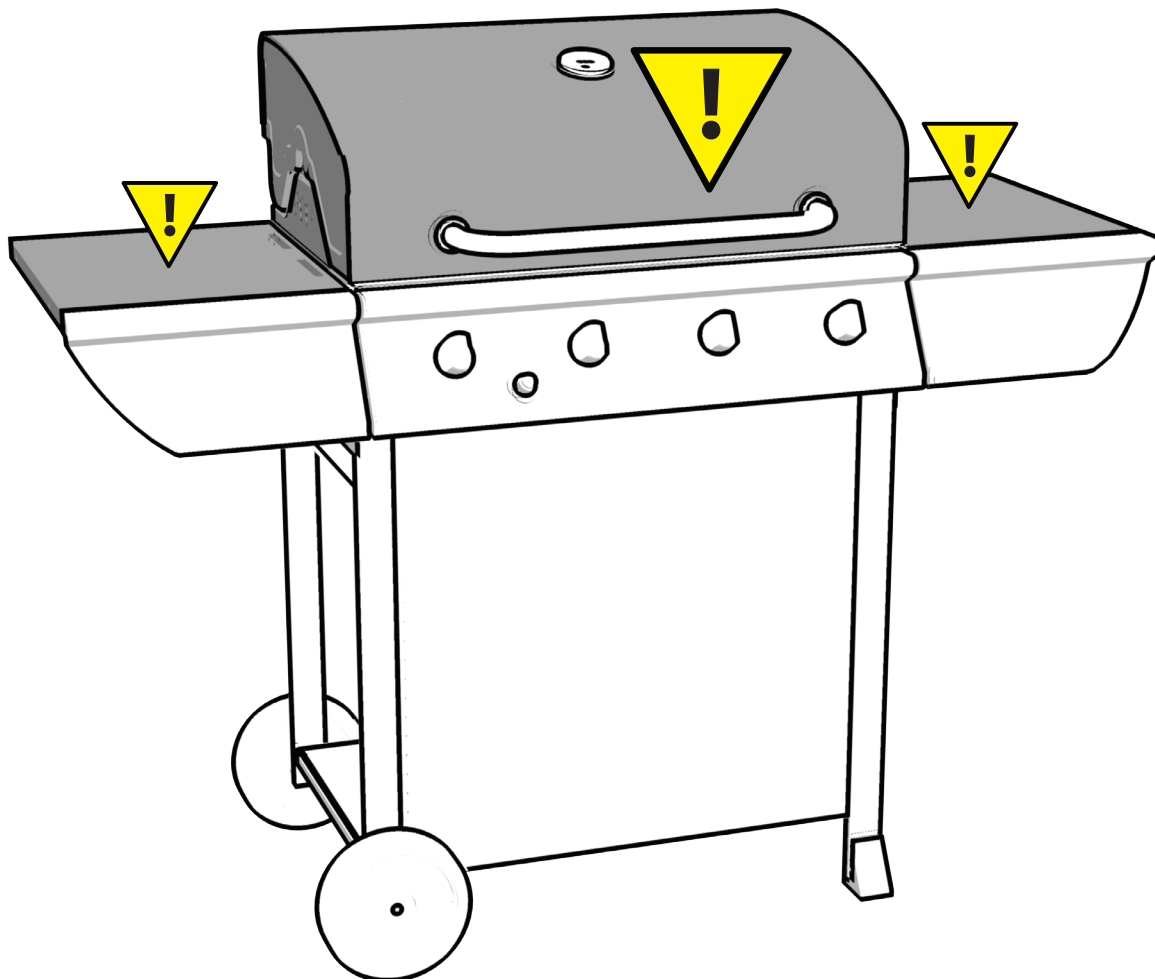
### ⚠ CAUTION ⚠

*Cylinder valve must face to the front of cart once the tank is attached. Failure to install cylinder correctly may allow gas hose to be damaged in operation, resulting in fire.*

### ⚠ WARNING ⚠

*Always keep LP cylinder in upright position during use, transport and storage.*

**⚠ WARNING HOT SURFACES**



- **CAUTION!**
  - **AVOID BURNS!**
  - **DO NOT TOUCH WHEN BBQ IS IN USE!**
  - **EXTREMELY HOT SURFACE!**
- \* SHADED AREAS BECOME EXTREMELY HOT WHEN IN USE.**



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