



**CONVERTIBLE
VALVE SYSTEMTM**

NATURAL GAS CONVERSION KIT



USER MANUAL

MODEL #: 85-2261-4 / G501-0057-03



**ONLY Compatible with
Barbecues that bear this SYMBOL:**



**CONVERTIBLE
VALVE SYSTEMTM**

MK_01-18-2024



FOR YOUR SAFETY

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

▲ WARNING: The information in these instructions must be followed to minimize the risk of fire or explosion or to prevent property damage, personal injury or death.

INSTALLER/ASSEMBLER: Leave this manual with consumer.

INSTALLATION SAFETY PRECAUTIONS

- Not for use with LP gas.
- This kit converts your barbecue for natural gas use at 7 inch water column supply pressure. Verify supply pressure with your local gas company. If supply pressure is different than 7 inch, contact a certified plumber for assistance.
- Barbecue installation must conform with local codes, or in their absence with National Fuel Gas Code, NFPA 54 / ANSI Z223.1. National Electrical Code, ANSI / NFPA 70.
- Barbecue is not for use in or on recreational vehicles and/or boats.
- Keep any electrical cords and/or fuel supply hoses away from any hot surfaces.

The CONVERTIBLE VALVE SYSTEMTM Kit
is used on the following brands:



Only models with this logo are compatible.



CONVERTIBLE
VALVE SYSTEMTM

Check if your barbecue is compatible with this kit,
please visit www.cvsbbq.com

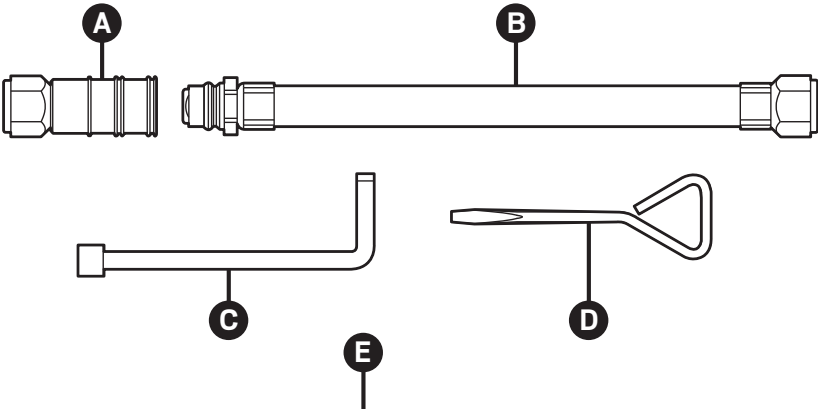


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* If you have questions or need assistance during conversion, contact your barbecue manufacturer's customer support centre.

PARTS LIST



| | |
|---|--|
| <p>Gas Type: NG</p> <p>Manifold Pressure: at 7 iwc</p> <p>Btus: Same as rating label</p> <p>Conversion Kit: 85-2261-4 / G501-0057-03</p> <p>“This appliance was converted on _____ (day-month-year) to _____ gas with Kit No. _____ by _____ (name and address of organization making this conversion), which accepts the responsibility that this conversion has been properly made.”</p> <p><i>Affix the label as close as possible to the conversion plate on the appliance.</i></p> | <p>Type de gaz : NG</p> <p>Pression du collecteur: à 7iwc</p> <p>Btus: Identique au plaque signalétique</p> <p>Kit de conversion: 85-2261-4 / G501-0057-03</p> <p>“Cet appareil a été converti sur _____ (jour-mois-année) à _____ gaz avec kit numéro _____ par _____ (le nom et l'adresse de l'organisme qui réalise cette conversion), qui accepte la responsabilité que cette conversion a été correctement effectuée.”</p> <p><i>Avec des instructions explicites pour apposer l'étiquette le plus près possible de la plaque de conversion sur l'appareil.</i></p> |
|---|--|

| ITEM # | QUANTITY | DESCRIPTION | PART NO. |
|--------|----------|---------------------------|-----------------|
| A | 1 | 5/8" quick connect socket | G501-0099-9000 |
| B | 1 | 10 ft. natural gas hose | G501-0099-9000 |
| C | 1 | Orifice removal tool | G453-000U-9082 |
| D | 1 | Valve screwdriver | G453-000T-9082 |
| E | 1 | Warning label | G453-003-000910 |



Additional tools required (not included in kit):

- Adjustable wrench or #17 wrench and #19 wrench



BEFORE YOU BEGIN

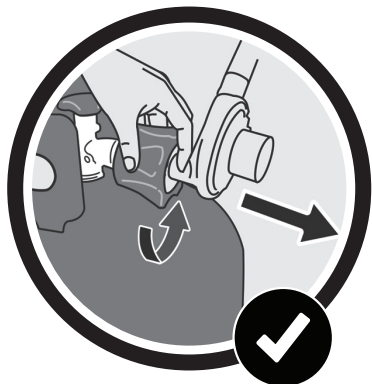
1. All control knobs must be in the OFF position.



2. Ensure that the propane tank is closed.



3. Disconnect the BBQ regulator from the propane tank.



Estimated time to convert to Natural Gas:

20—30 minutes



ASSEMBLY INSTRUCTIONS: Vida by PADERNO™

- SEE PAGE 18

ASSEMBLY INSTRUCTIONS: COLEMAN PRO SERIES

- SEE PAGE 31

**ASSEMBLY INSTRUCTIONS: MASTER CHEF GRILL TURISMO™
GRILL AND GRIDDLE BBQ**

- SEE PAGE 42

ASSEMBLY INSTRUCTIONS: VERMENT CASTING™ GRIDDLE

- SEE PAGE 63

*** ALL OTHER BRANDS CONTINUE TO THE NEXT PAGE**

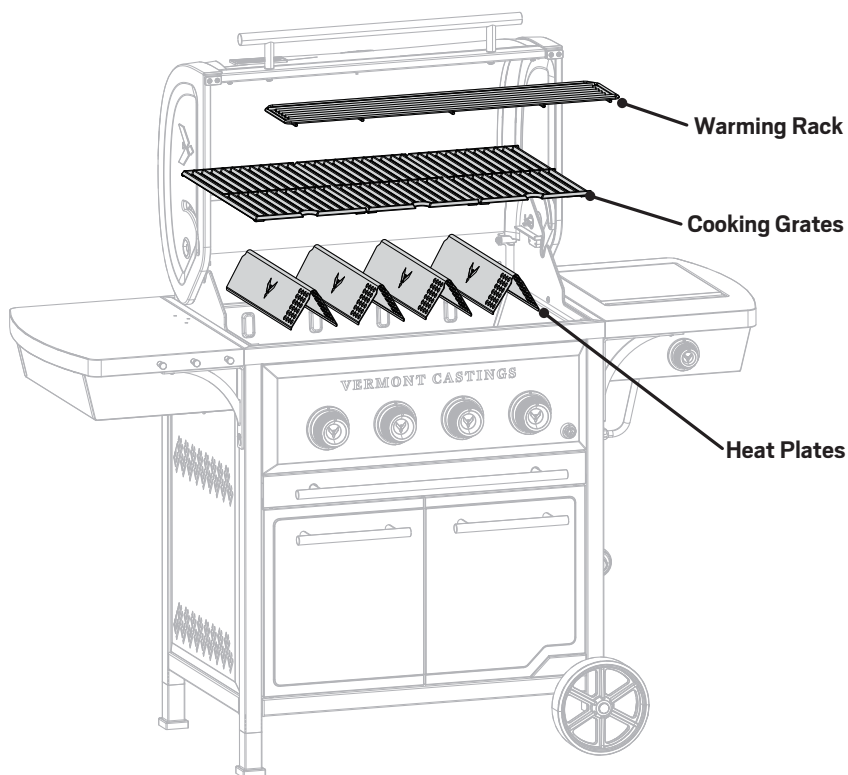


**CONVERTIBLE
VALVE SYSTEM®**

MAIN BURNER VALVE CONVERSION

1

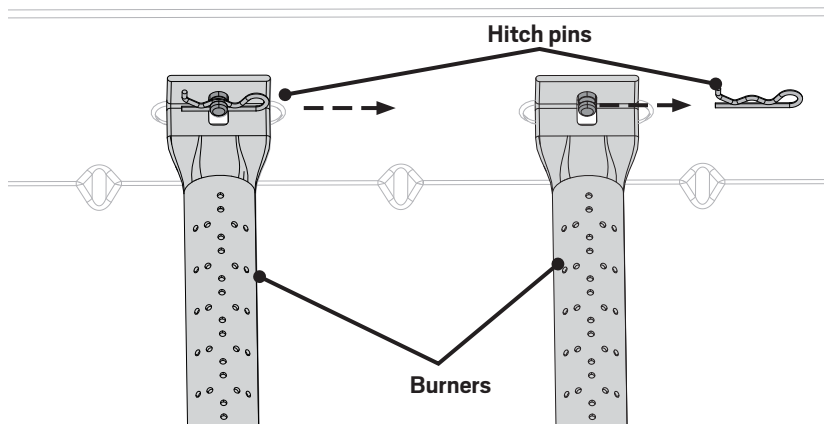
Open lid, remove and set aside the warming rack, all cooking grates, and all heat plates.



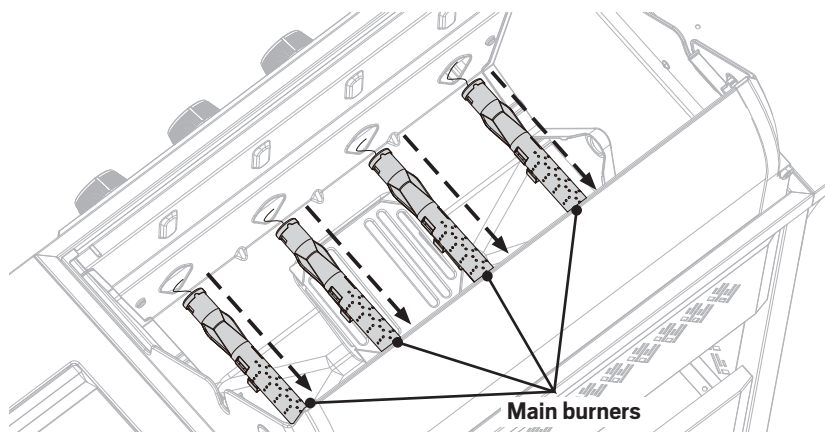
**2A**

Remove the hitch pins from the burners and carryover tubes (if applicable to your model).

NOTE: Depending on your barbecue's configuration your burners and carryovers may be slightly different.

**2B**

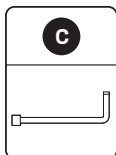
If one or more burners has an electrode attached, remove the burner from valve and lay inside the burner box.



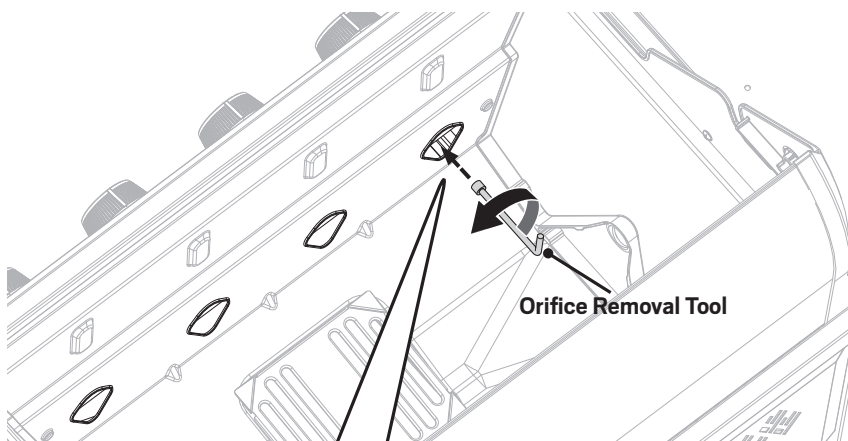


3

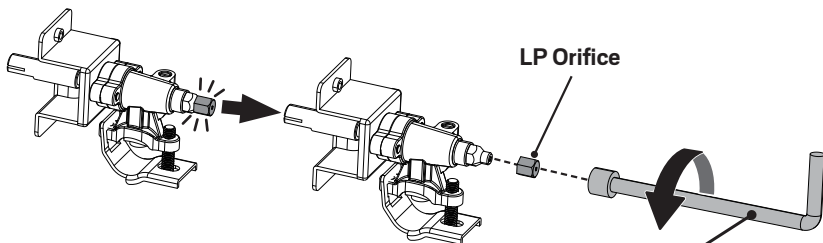
Insert the orifice removal tool into the burner box opening to locate the valve orifice. Once the tool is positioned correctly on the orifice, turn the orifice removal tool counter clockwise to remove the LP orifice.



Repeat this step for all main burner valves.



Orifice Removal Tool



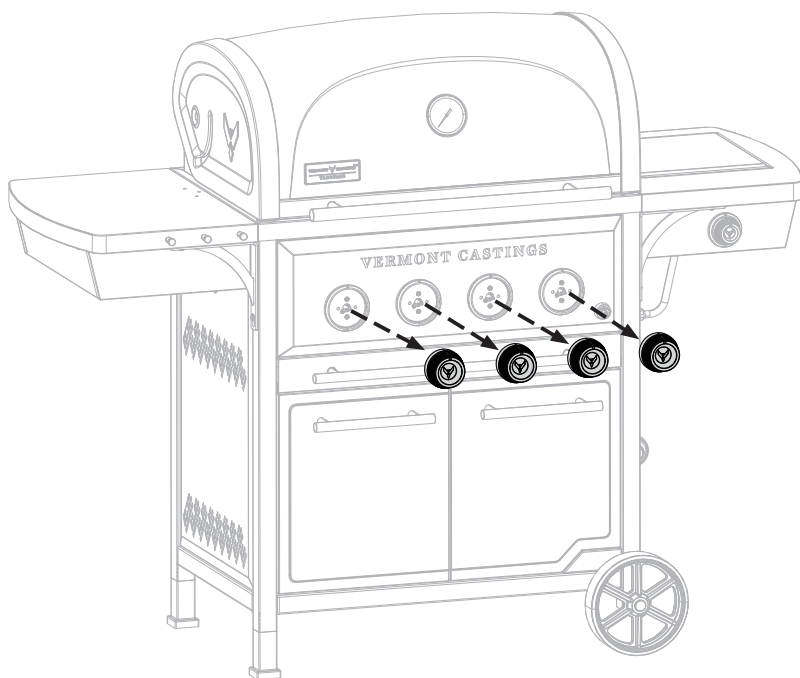
LP Orifice

Orifice Removal Tool



4A

Remove all control knobs to access the valve switch plate.

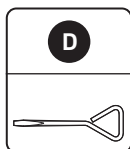




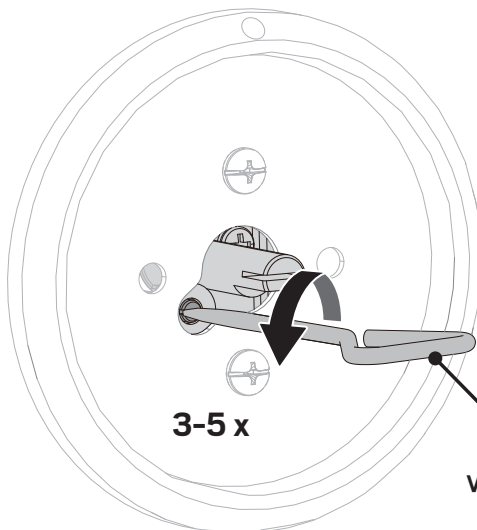
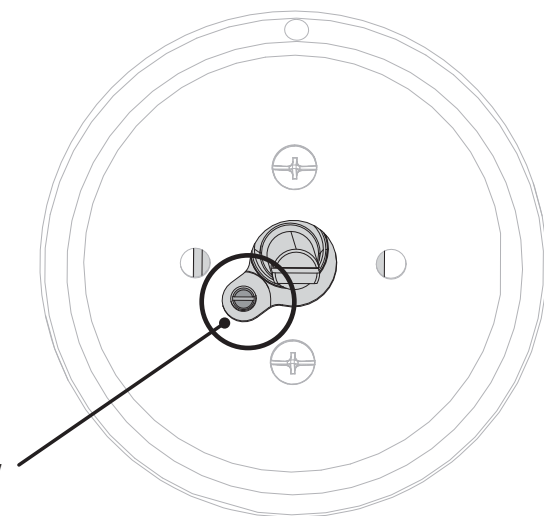
4B

Locate the switch screw circled in the diagram. Using the screwdriver supplied with this kit, turn the screw counter clockwise 3-5 turns until it stops, to complete the valve conversion.

⚠ DO NOT USE FORCE.



Switch screw

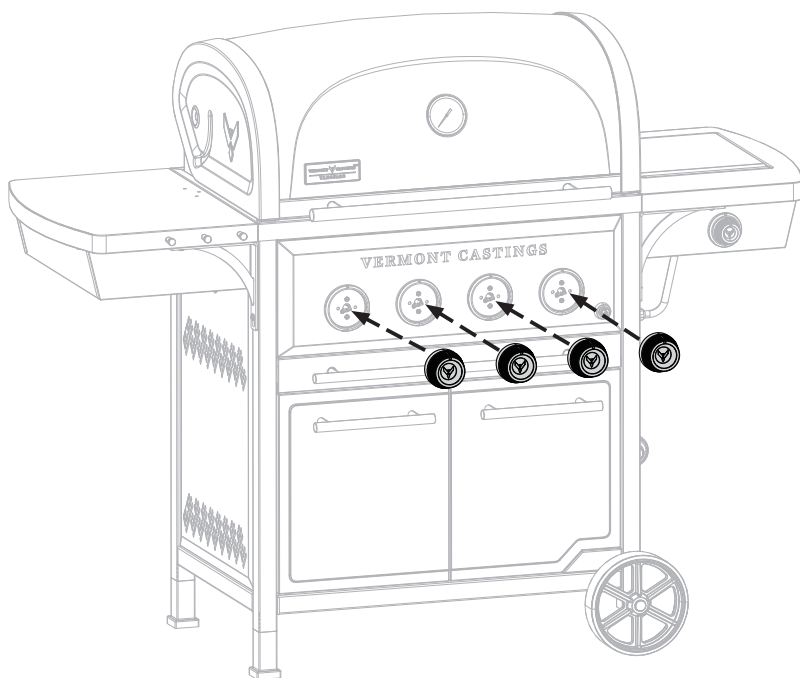


Valve screwdriver



4C

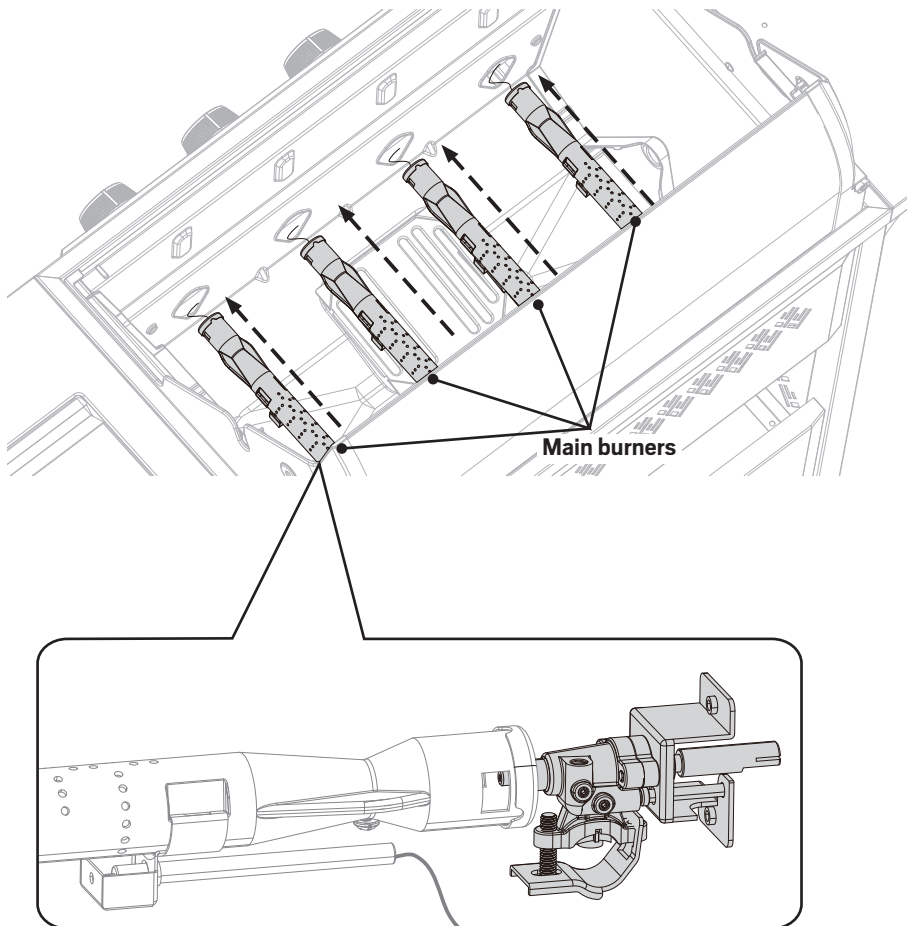
Reassemble the control knobs.





5A

Assemble main burners, one at a time, making sure that the burner engages the valve, before reassembling the hitch pin.

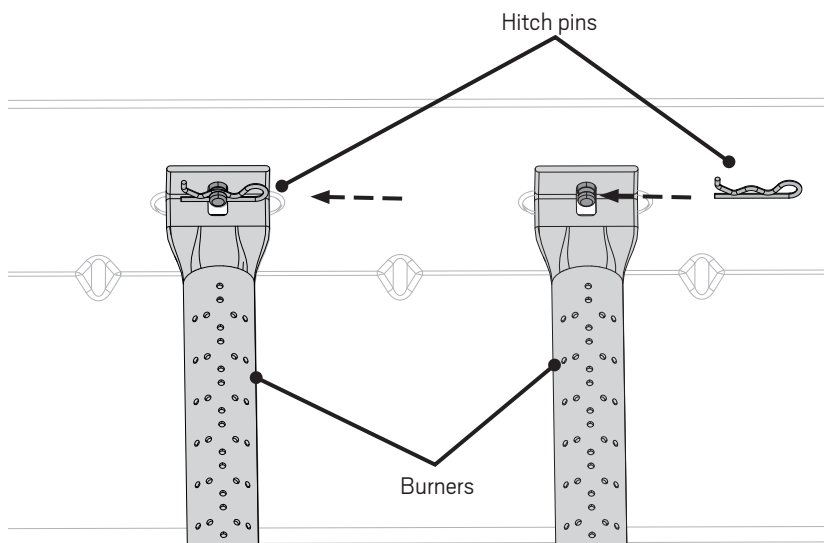




5B

Reattach burners and carryovers using the hitch pins (if applicable to your model).

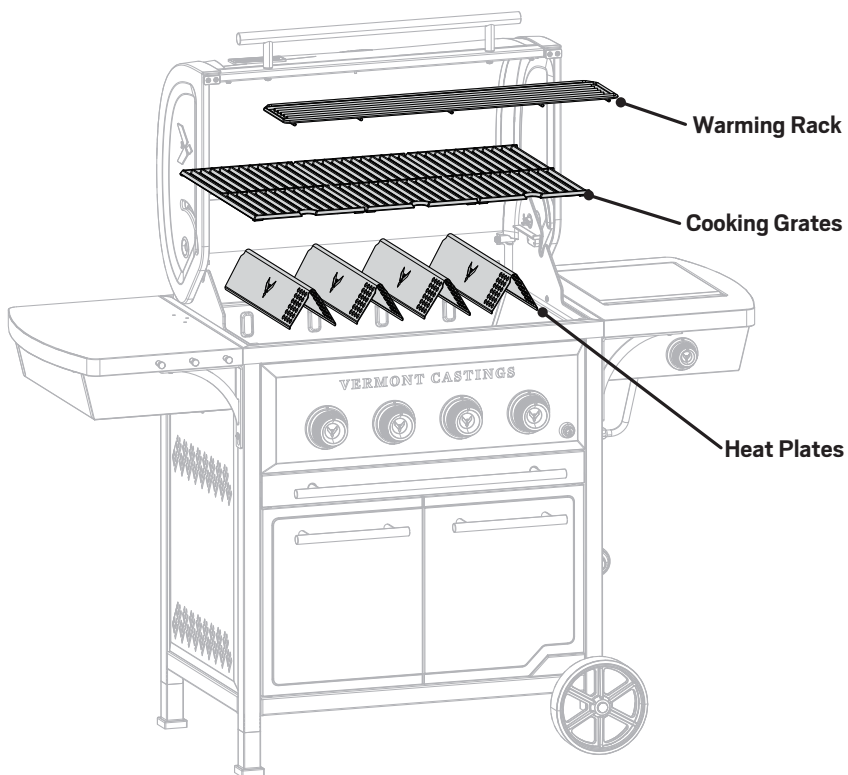
NOTE: Depending on your barbecues configuration your burners and carryovers may be slightly different.





6

Reposition the heat plates, cooking grates and warming rack.





SIDE BURNER CONVERSION

- SEE PAGE 75

INFRARED SEAR BURNER CONVERSION

- SEE PAGE 82

NATURAL GAS CONNECTION

- SEE PAGE 93



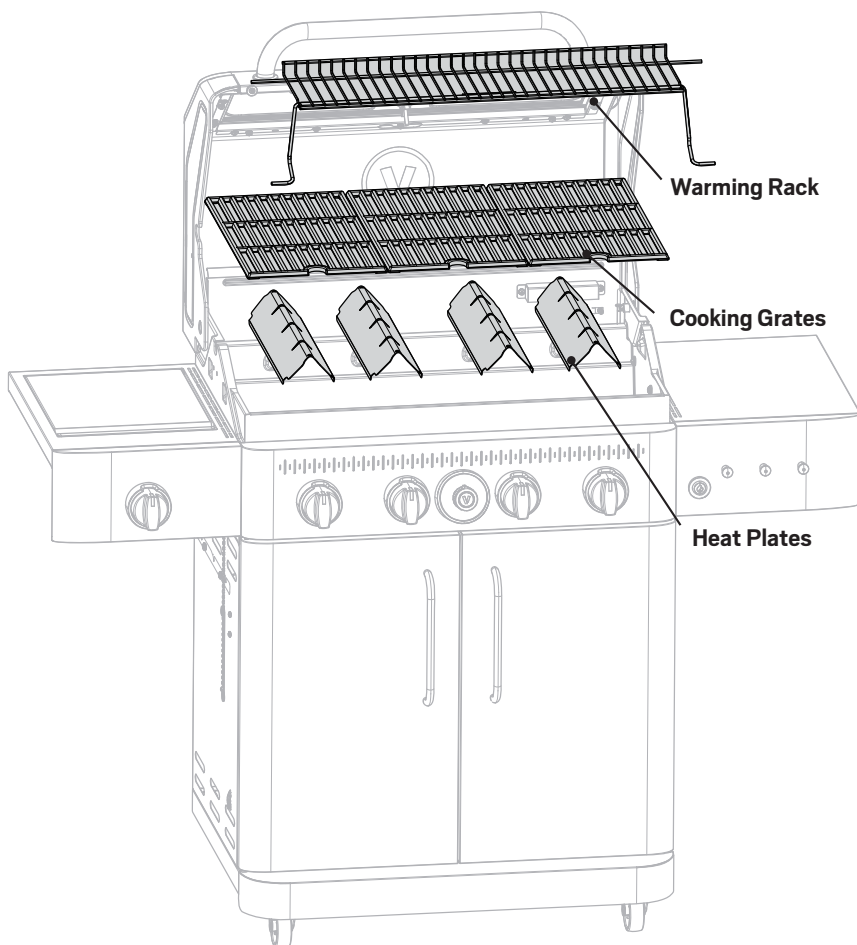
**CONVERTIBLE
VALVE SYSTEM®**

Vida by PADERNO™

⚠ For Vida by PADERNO™ ONLY.

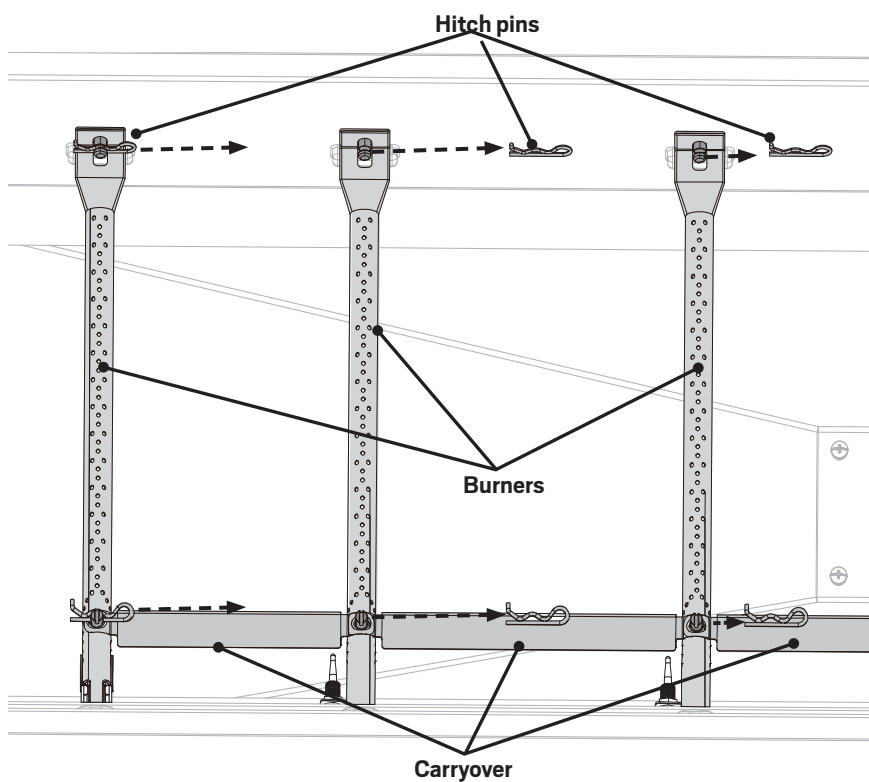
1

Open lid, remove and set aside the warming rack, all cooking grates, and all heat plates.



2A

Remove the hitch pins from the burners and carryover assemblies.



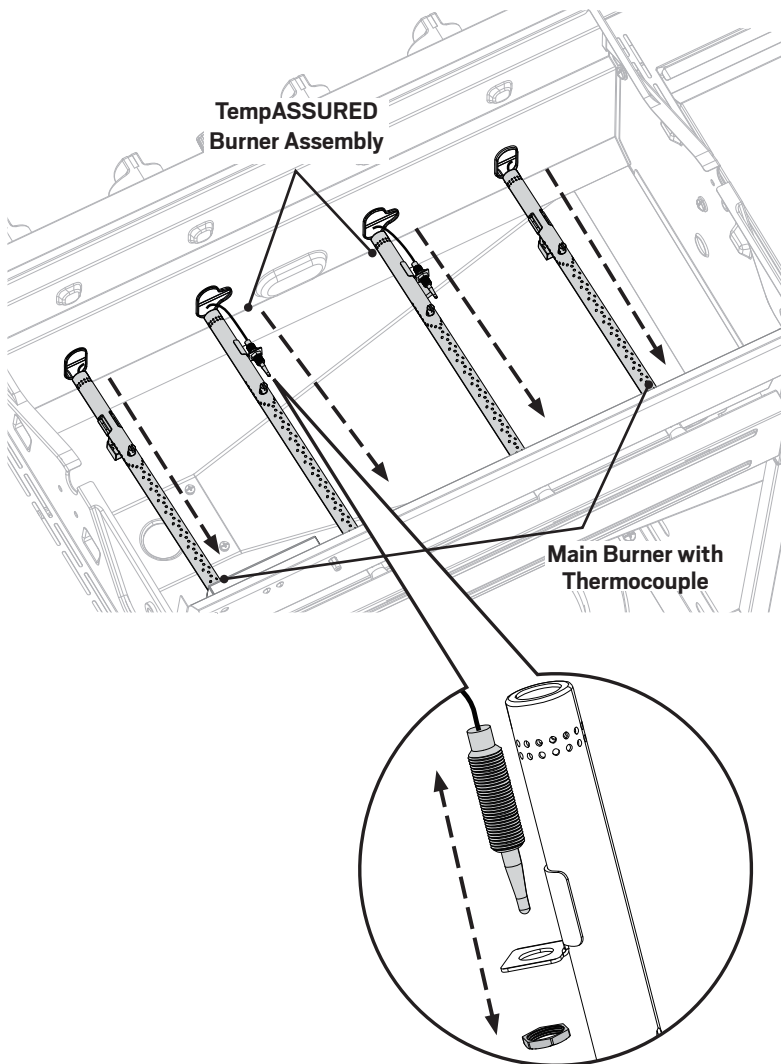


2B

Remove the burners from the valve and lay them inside the burner box.

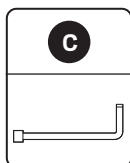


4-BURNER MODEL ONLY: If you cannot pull out the thermocouple burner, remove the nut to remove the thermocouple from the burner first.

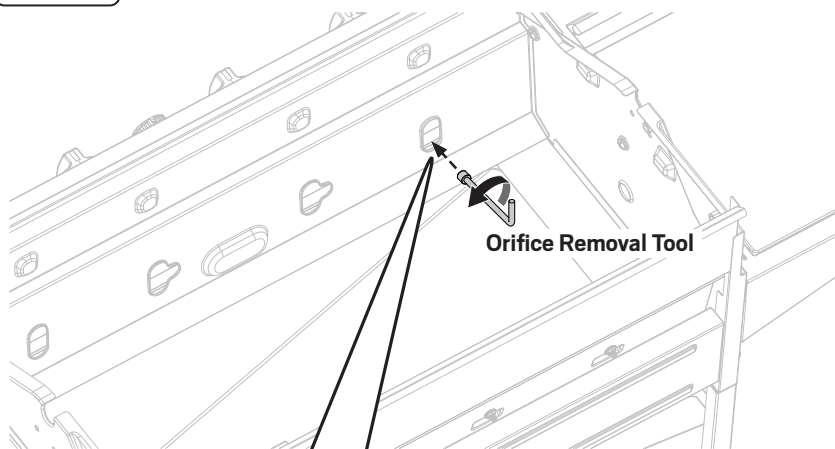


3A

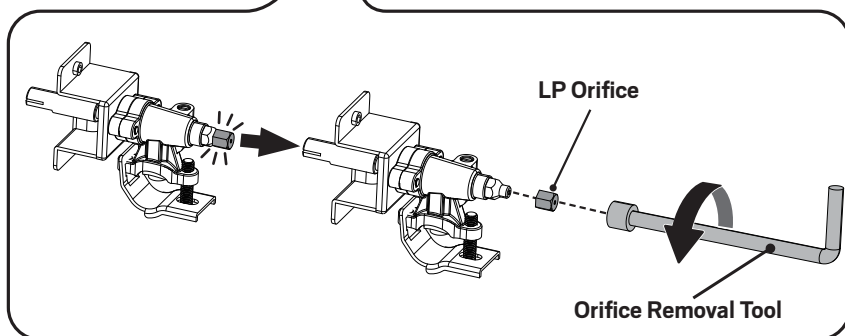
Insert the orifice removal tool into the burner box opening to locate the valve orifice. Once the tool is positioned correctly on the orifice, turn the orifice removal tool counter clockwise to remove the LP orifice.



Repeat this step for all main burner valves.



Orifice Removal Tool



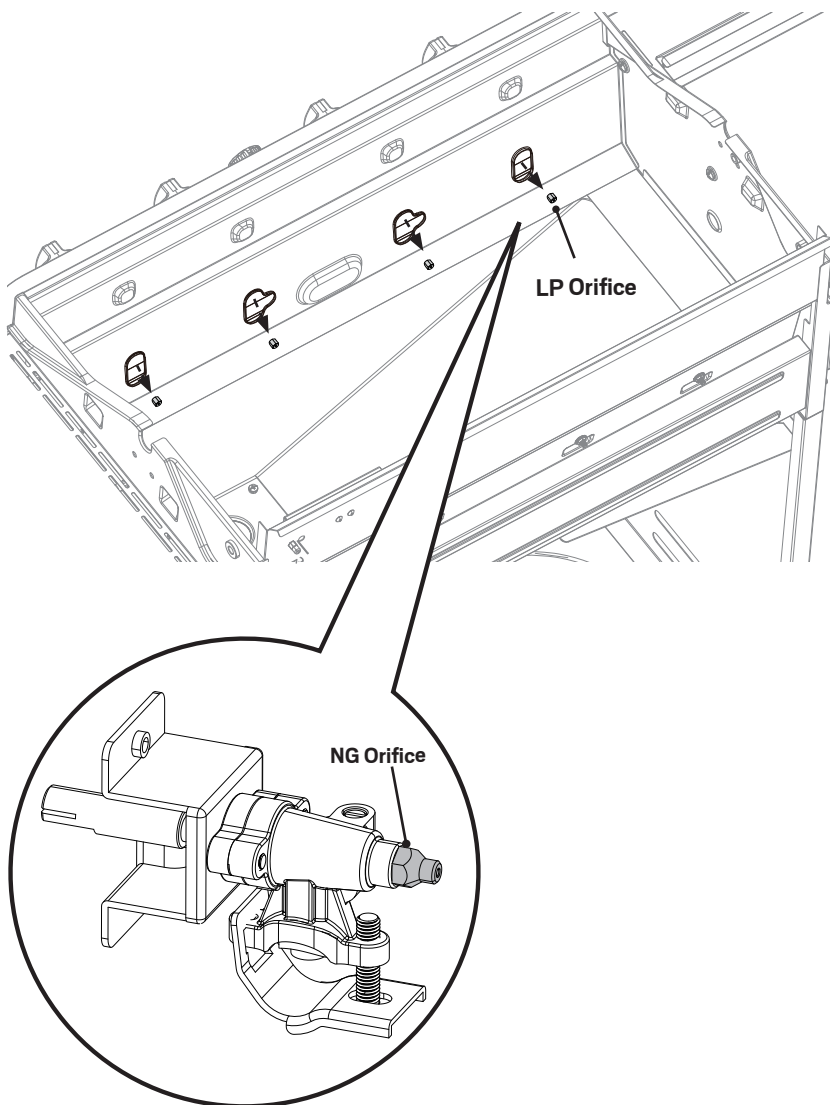
LP Orifice

Orifice Removal Tool



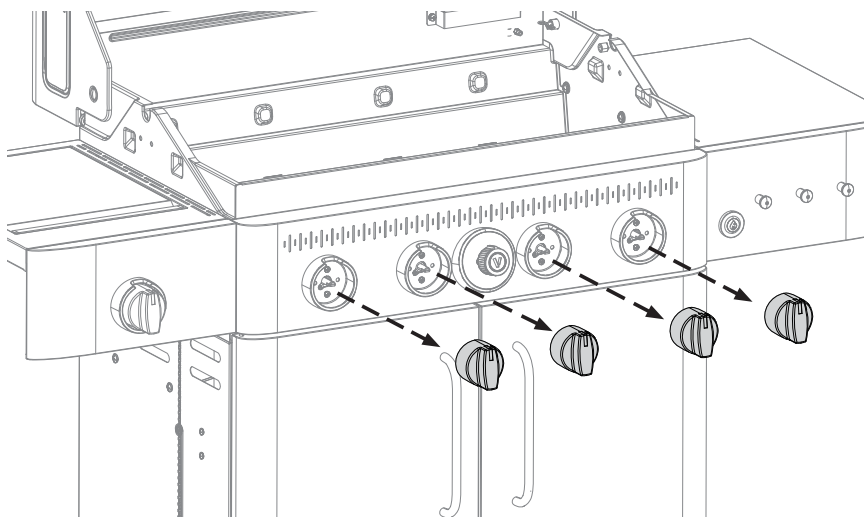
3B

Confirm that you have **removed all** LP main burner orifices.



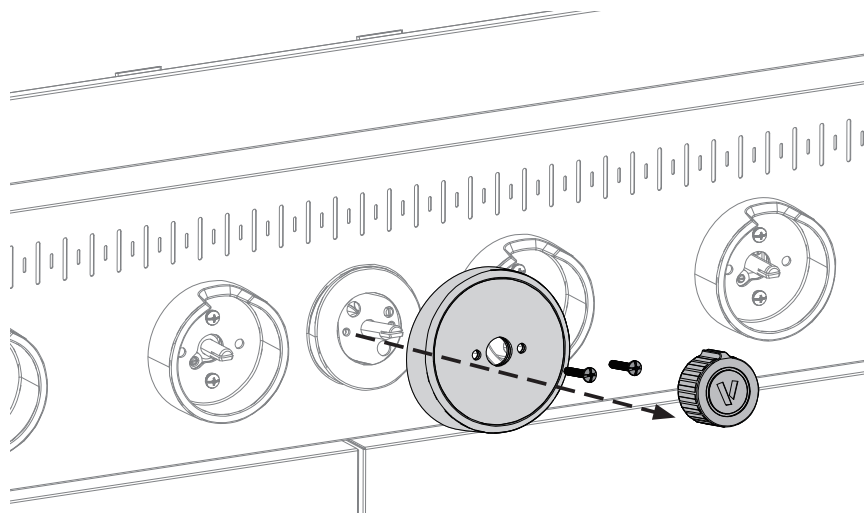
4A

Remove all control knobs to access the valve switch plate.



4B

Remove the TempASSURED control knob and TempASSURED control to access the valve switch plate.



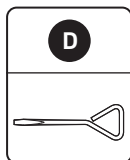


4C

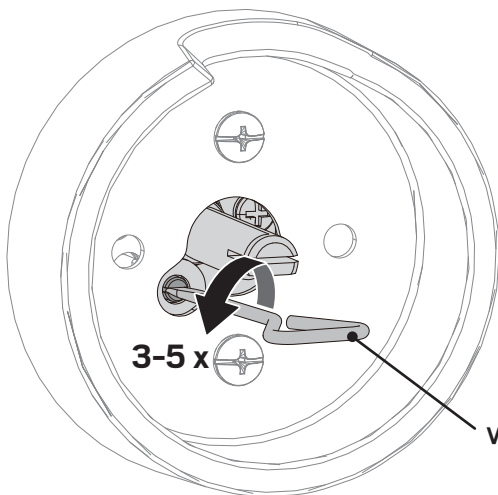
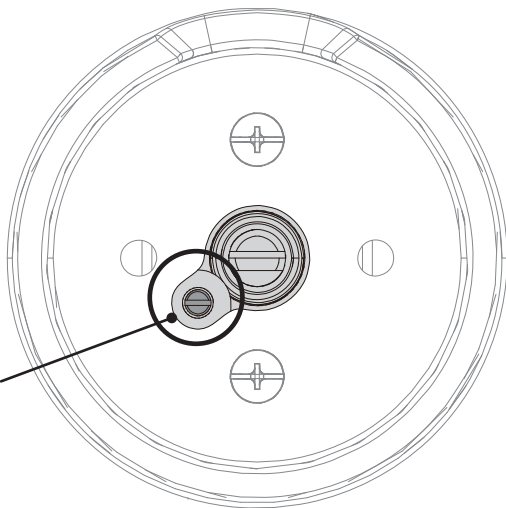
Main Burners

Locate the switch screw circled in the diagram. Using the screwdriver supplied with this kit, turn the screw counter clockwise 3-5 turns until it stops, to complete the valve conversion.

⚠ DO NOT USE FORCE.



Switch screw



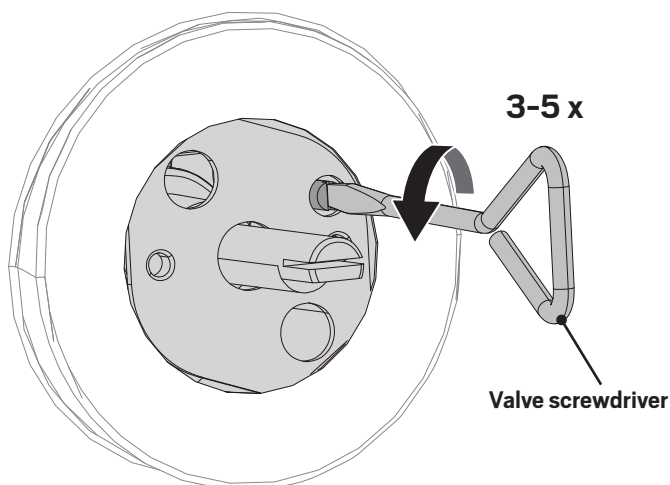
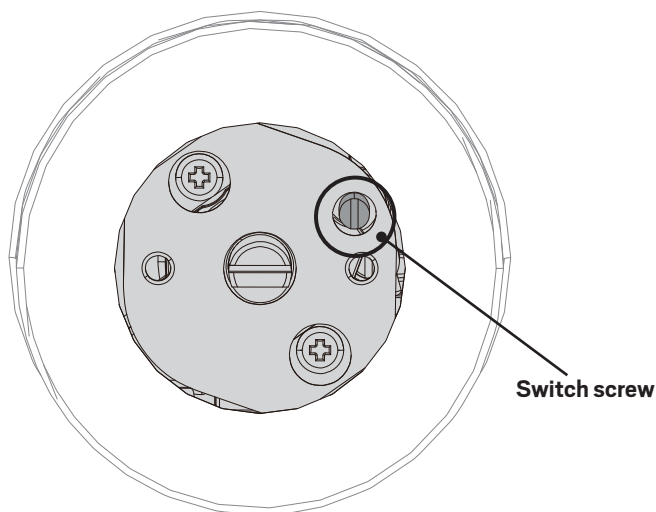
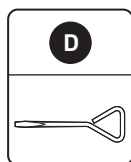
Valve screwdriver

4D

TempASSURED Control

Locate the switch screw circled in the diagram. Using the screwdriver supplied with this kit, turn the screw counter clockwise 3-5 turns until it stops, to complete the valve conversion.

⚠ DO NOT USE FORCE.

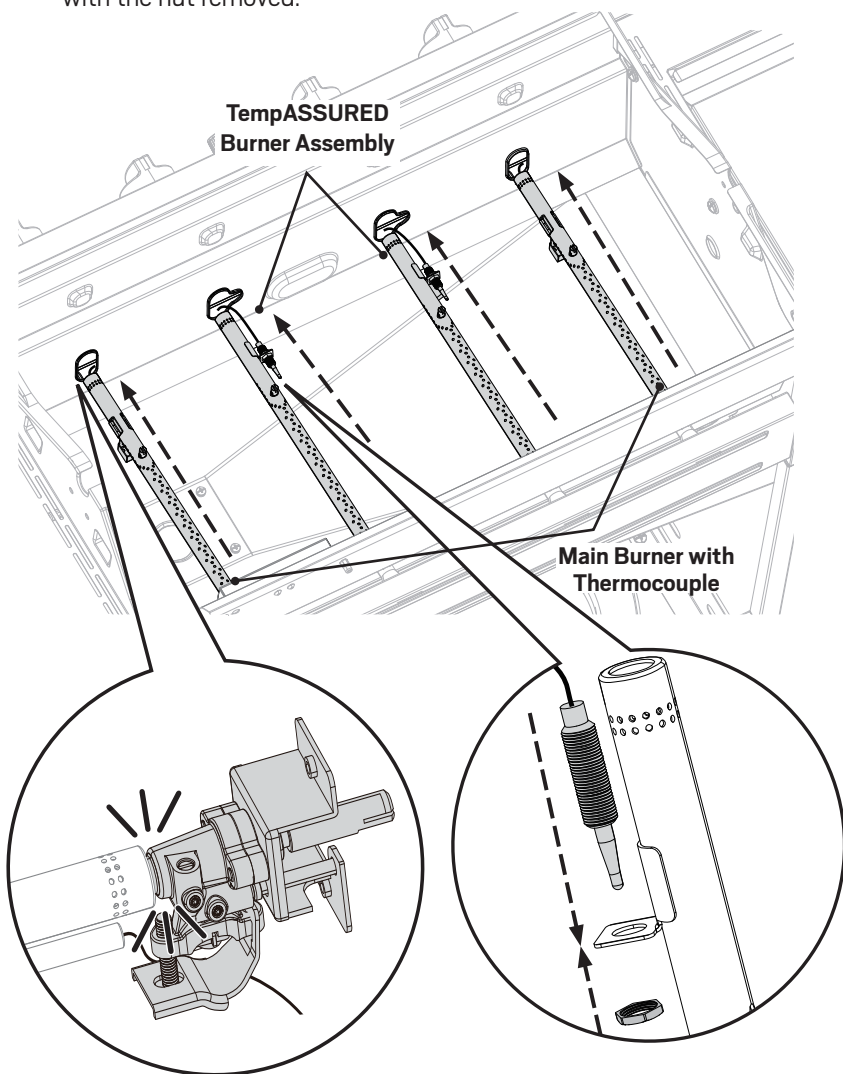




5A

Assemble the burners, one at a time, making sure that the burner engages the valve.

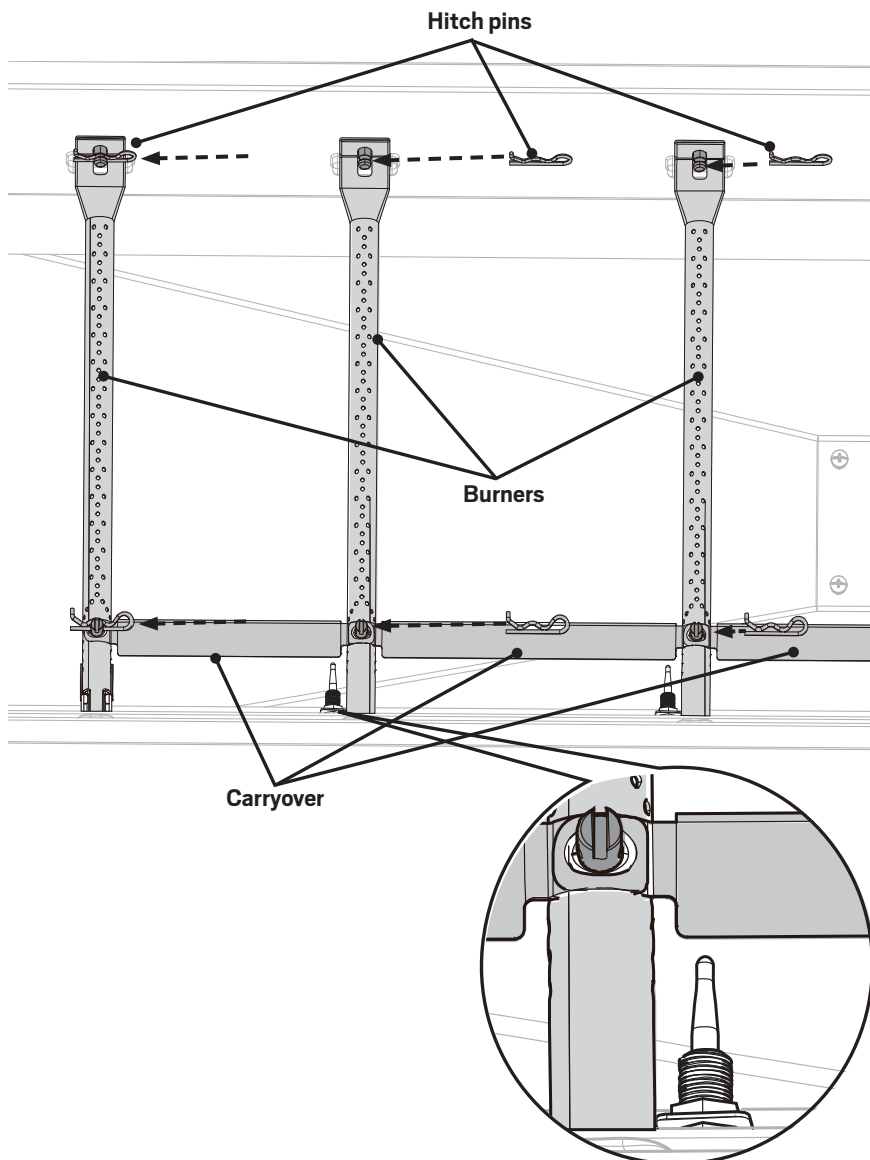
4-BURNER MODEL ONLY: If you removed the thermocouple in step 2B, reattach the thermocouple to the main burner and secure with the nut removed.



5B

Reattach burners and carryovers using the hitch pins removed.

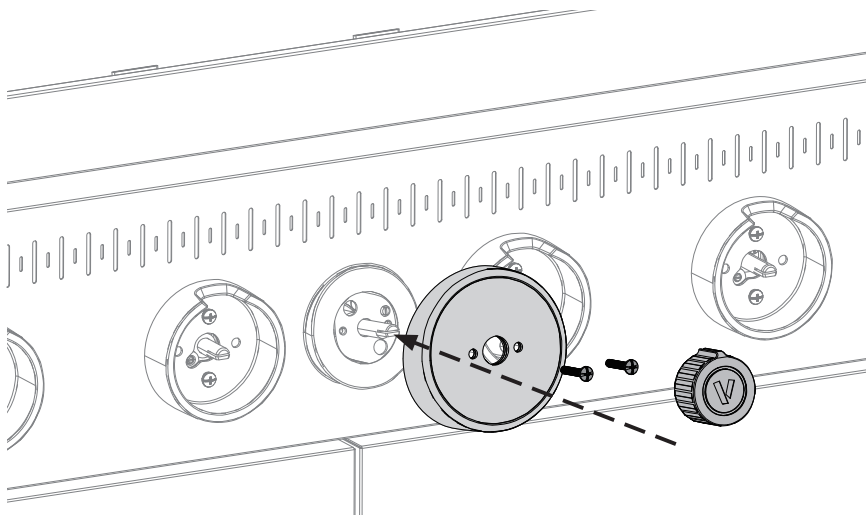
NOTE: The thermocouple must not touch the carryover as seen in the diagram.





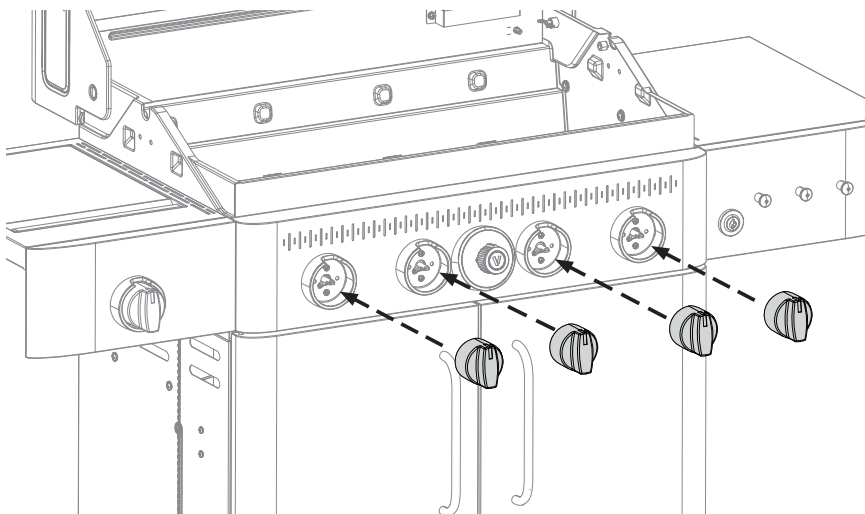
6A

Reassemble the TempASSURED controller and TempASSURED control knob.



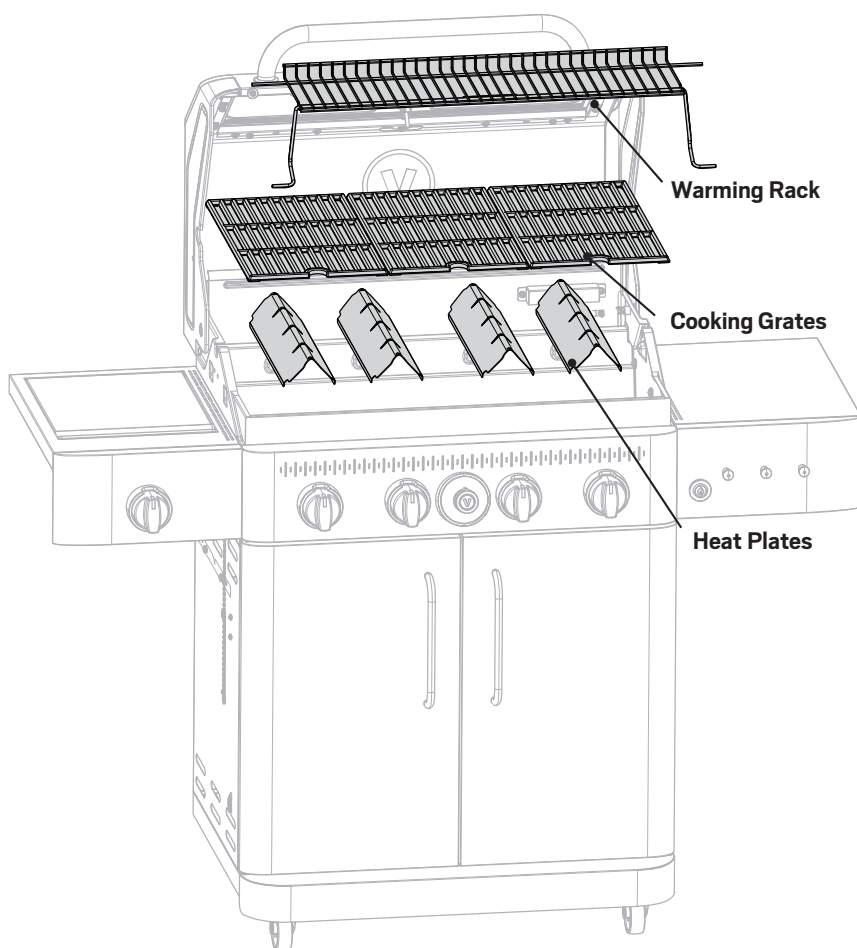
6B

Reassemble the control knobs.



6C

Reposition heat plates, cooking grates and warming rack.





SIDE BURNER CONVERSION

- SEE PAGE 75

INFRARED SEAR BURNER CONVERSION

- SEE PAGE 82

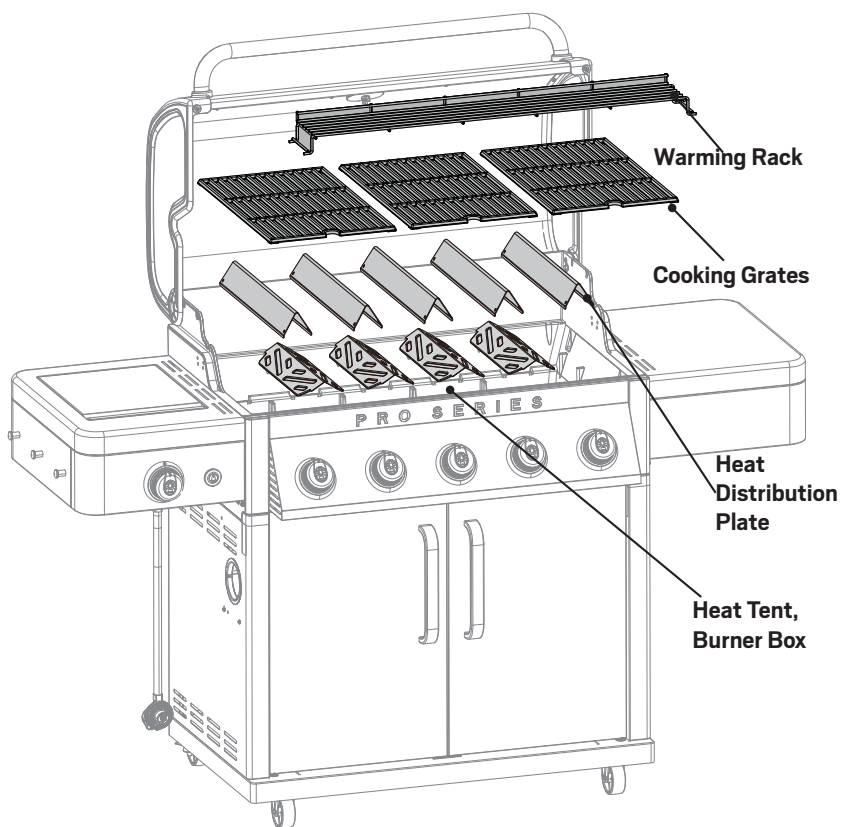
NATURAL GAS CONNECTION

- SEE PAGE 93

! For Coleman Pro Series ONLY.

1

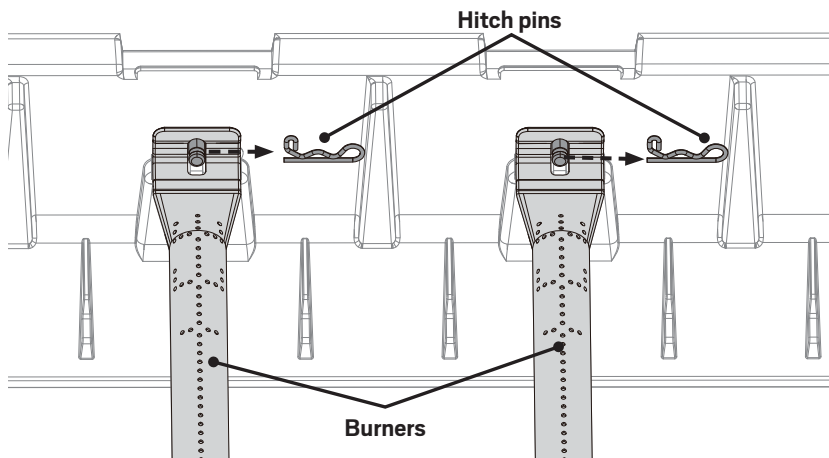
Open lid, remove and set aside the warming rack, all cooking grates, all heat plates and all heat tent.





2A

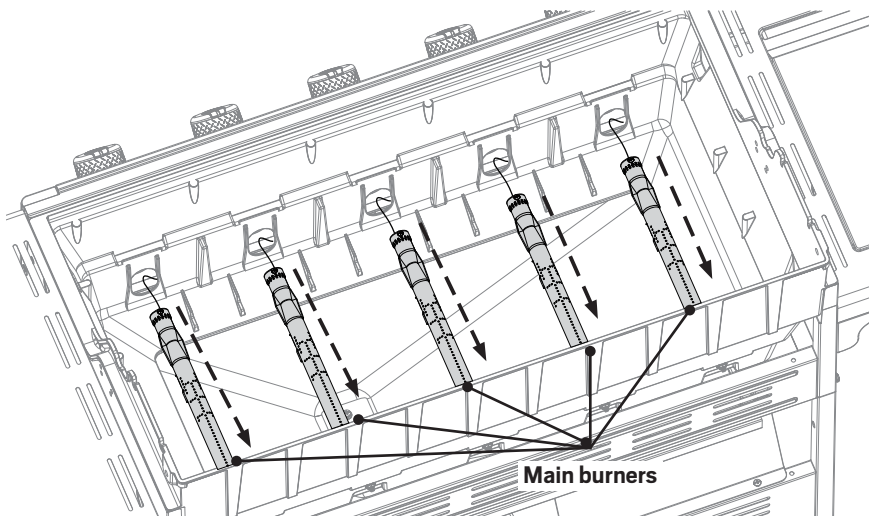
Remove the hitch pins from the burners.



2B

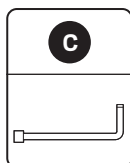
Remove burners and carryovers.

If one or more burners has an electrode attached, remove the burner from valve and lay inside the burner box.

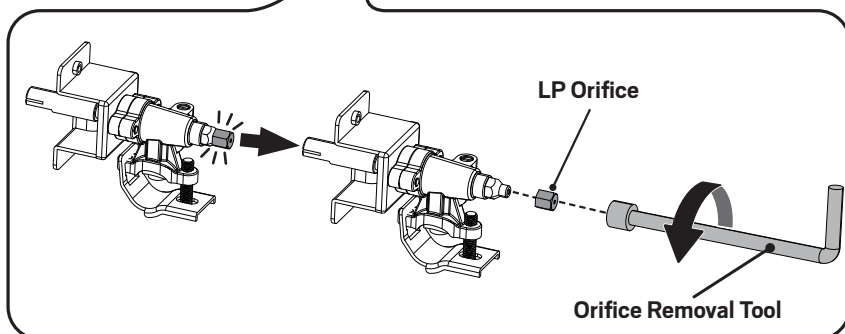
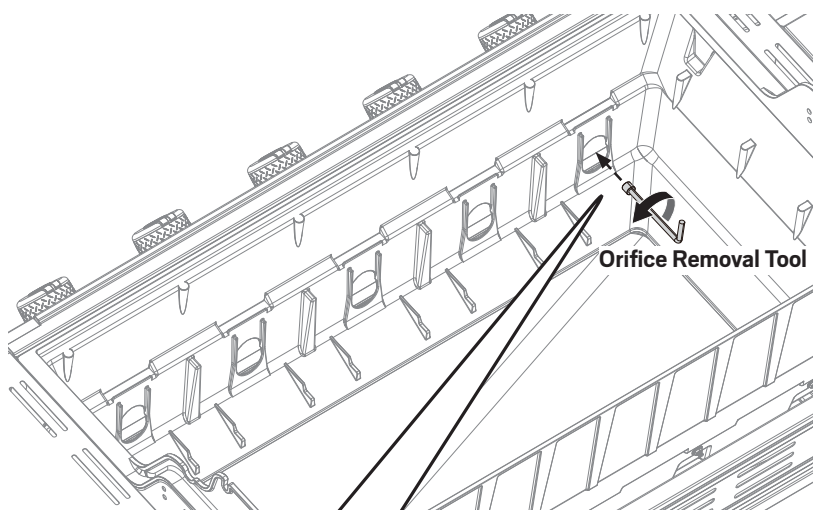


3

Insert the orifice removal tool into the burner box opening to locate the valve orifice. Once the tool is positioned correctly on the orifice, turn the orifice removal tool counter clockwise to remove the LP orifice.



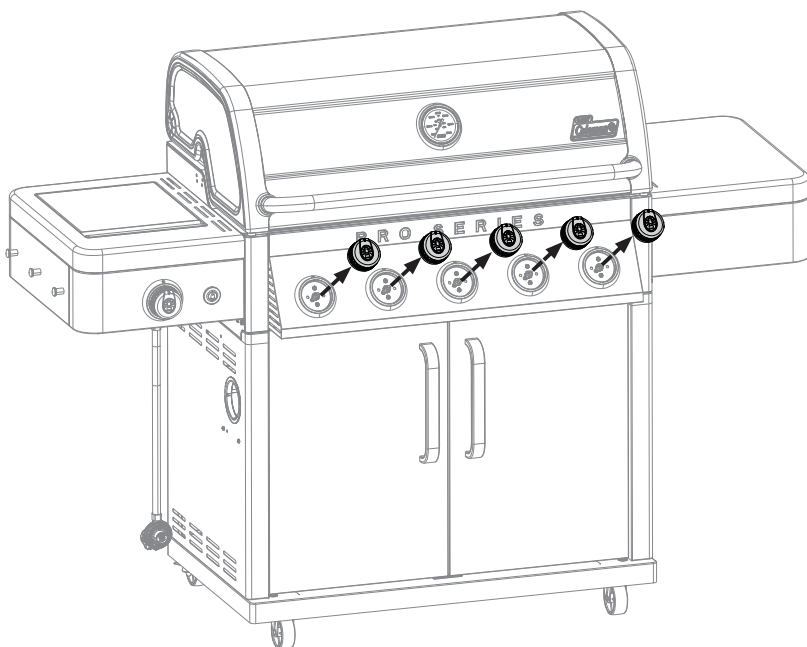
Repeat this step for all main burner valves.





4A

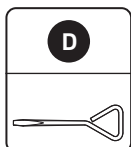
Remove all control knobs to access the valve switch plate.



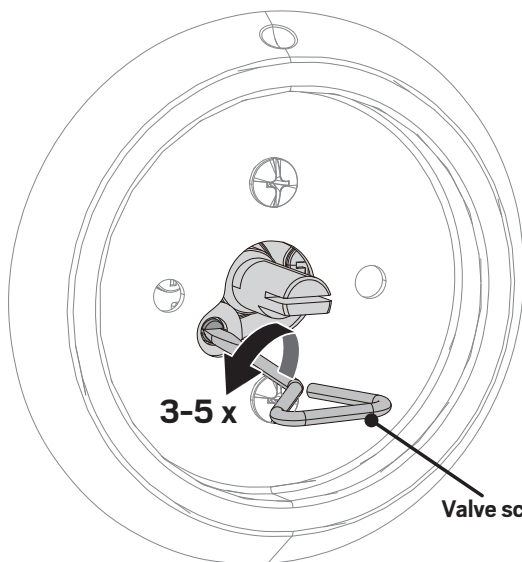
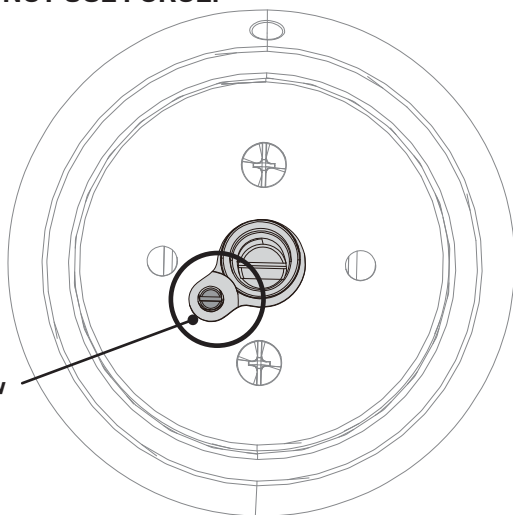
4B

Locate the switch screw circled in the diagram. Using the screwdriver supplied with this kit, turn the screw counter clockwise 3-5 turns until it stops, to complete the valve conversion.

⚠ DO NOT USE FORCE.



Switch screw



Valve screwdriver

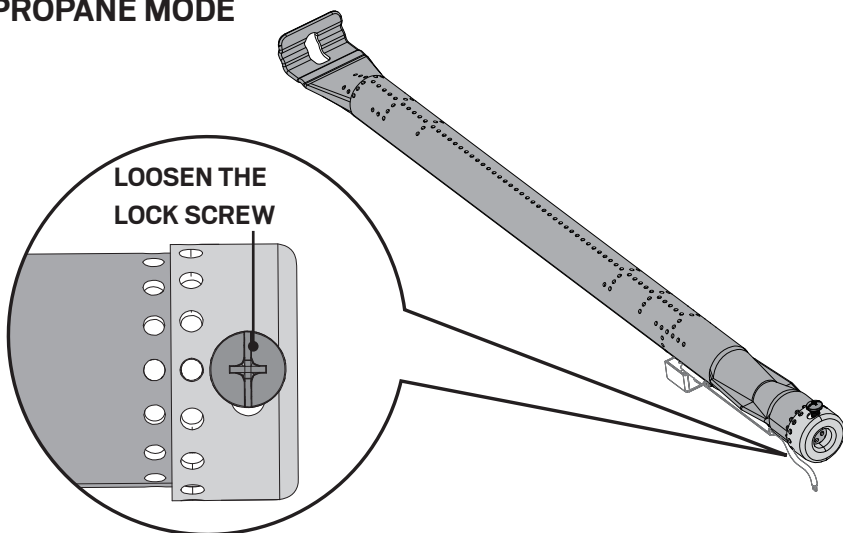


4C

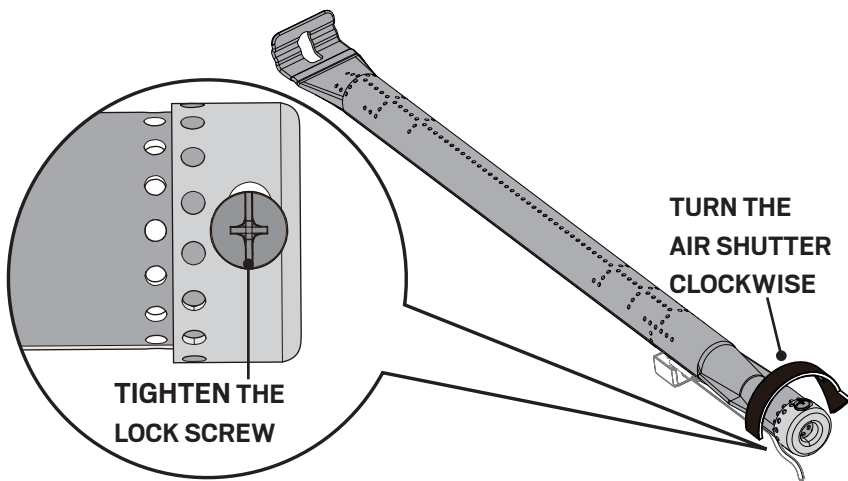
Burner Air Shutter Adjustment

The adjustable air shutter to adjust the burner orifice from Propane to Natural Gas.

PROPANE MODE

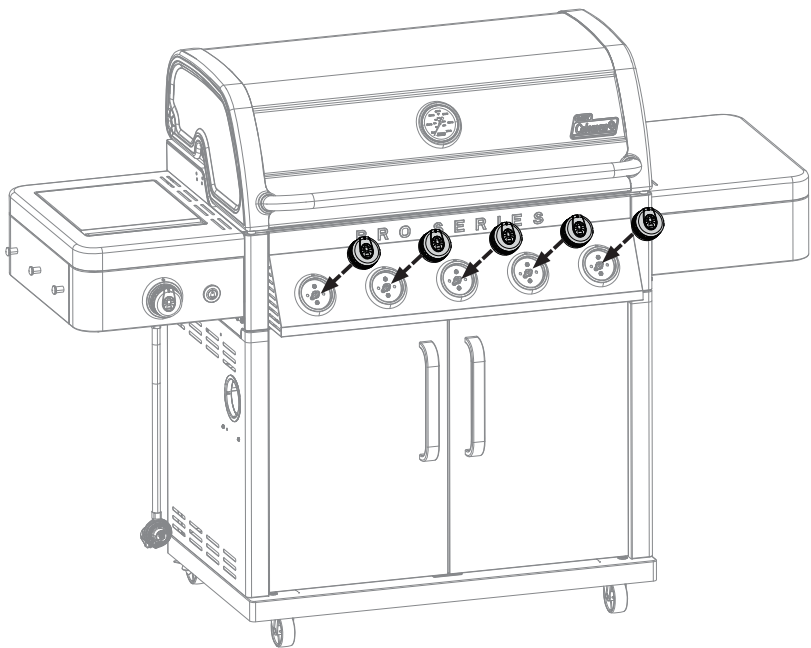


NATURAL GAS MODE



4D

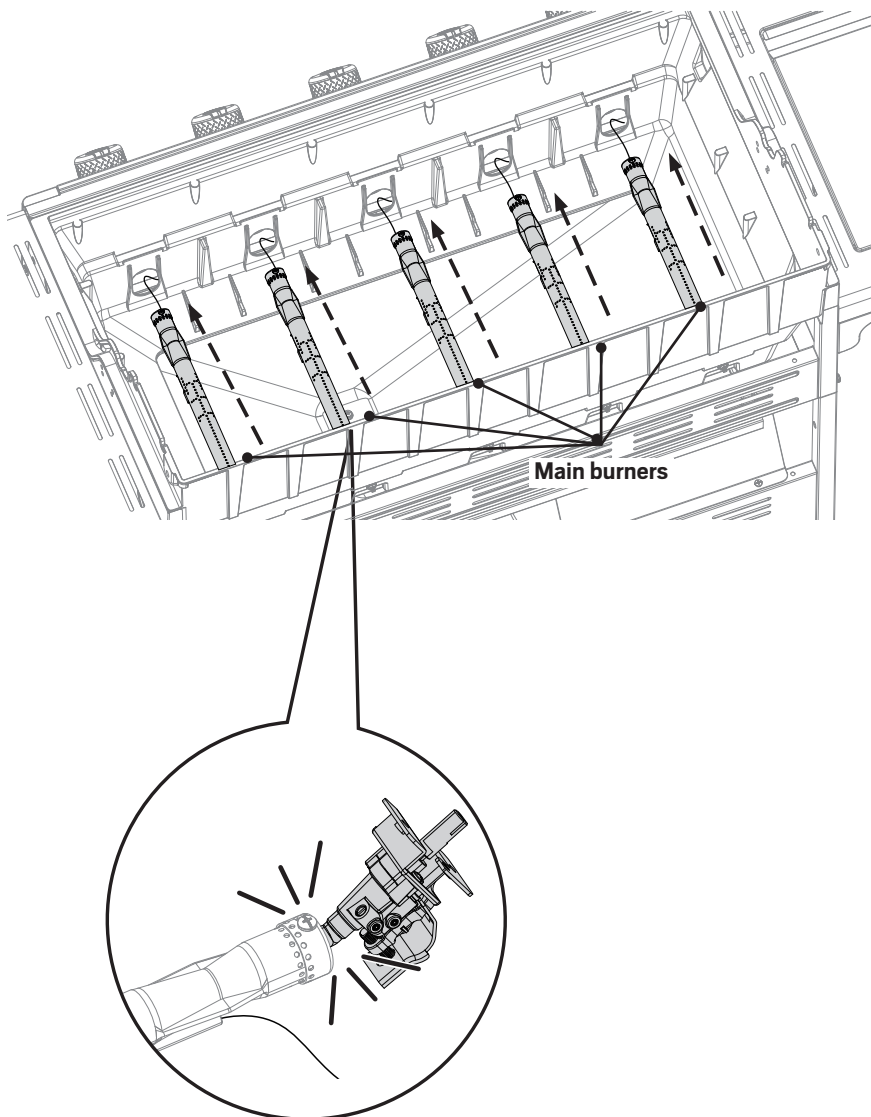
Reassemble the control knobs.





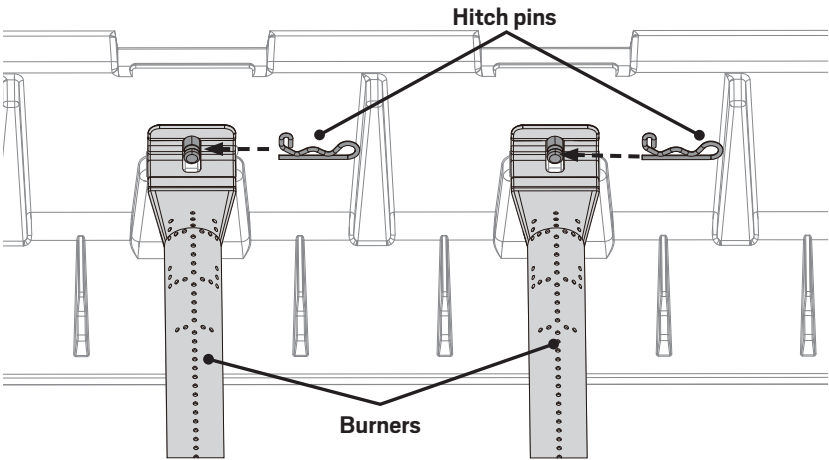
5A

Assemble main burners, one at a time, making sure that the burner engages the valve, before reassembling the hitch pin.



5B

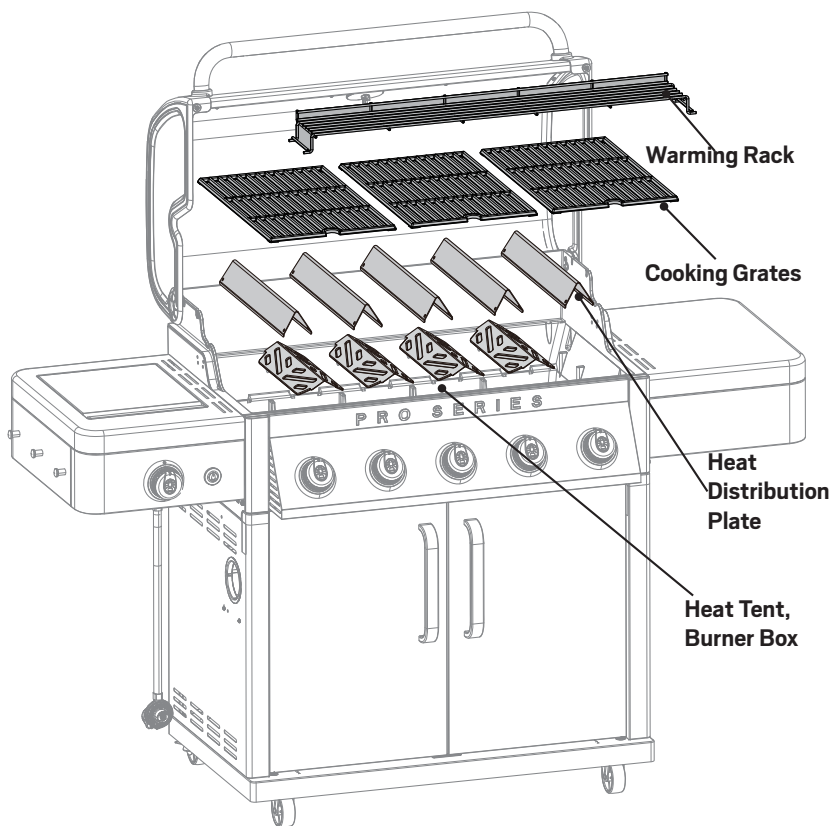
Reattach burners using the hitch pins removed.





6

Reposition the heat plates, cooking grates and warming rack.





SIDE BURNER CONVERSION

- SEE PAGE 75

INFRARED SEAR BURNER CONVERSION

- SEE PAGE 82

NATURAL GAS CONNECTION

- SEE PAGE 93



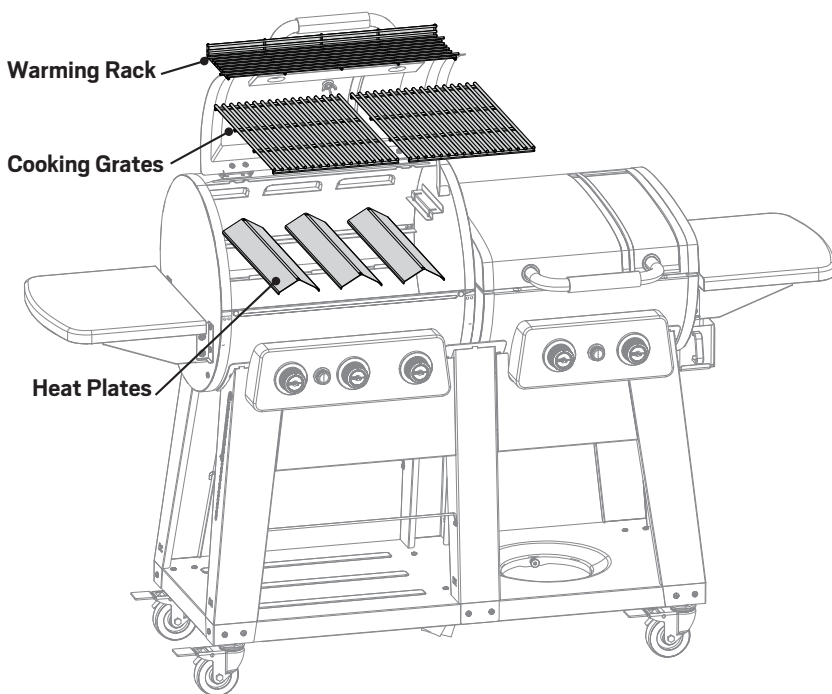
CONVERTIBLE
VALVE SYSTEM®

Master Chef Grill Turismo™ Grill and Griddle BBQ

⚠ For Master Chef Grill Turismo™ Grill and Griddle ONLY.

1

Open lid, remove and set aside the warming rack, all cooking grates, and all heat plates.



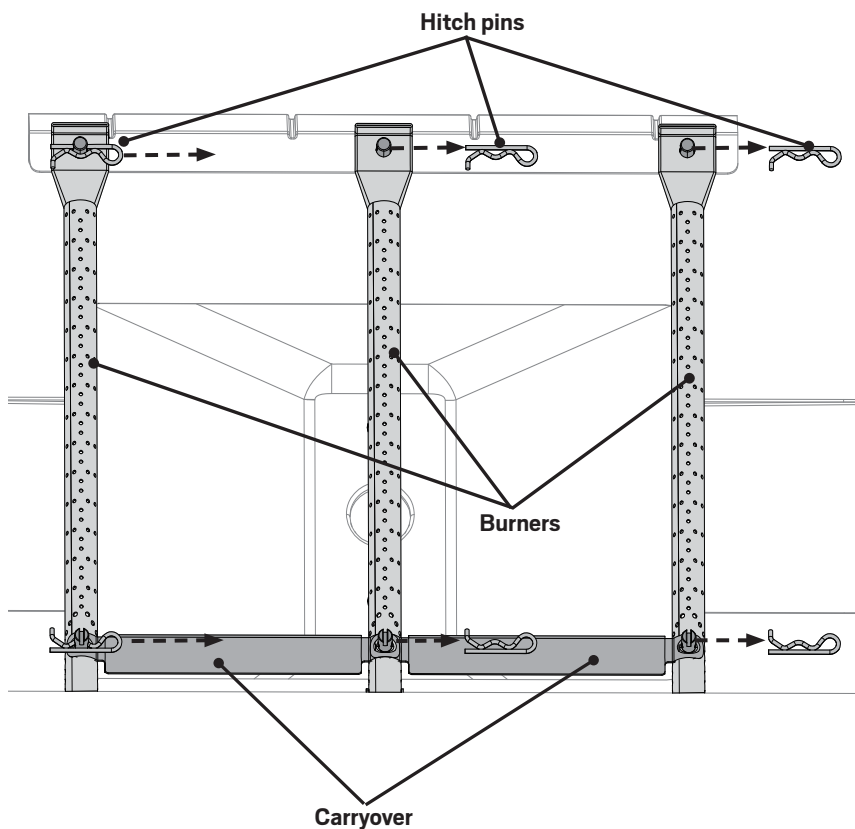
Master Chef Grill Turismo™

Grill and Griddle BBQ



2A

Remove the hitch pins from the burners and carryover assemblies.



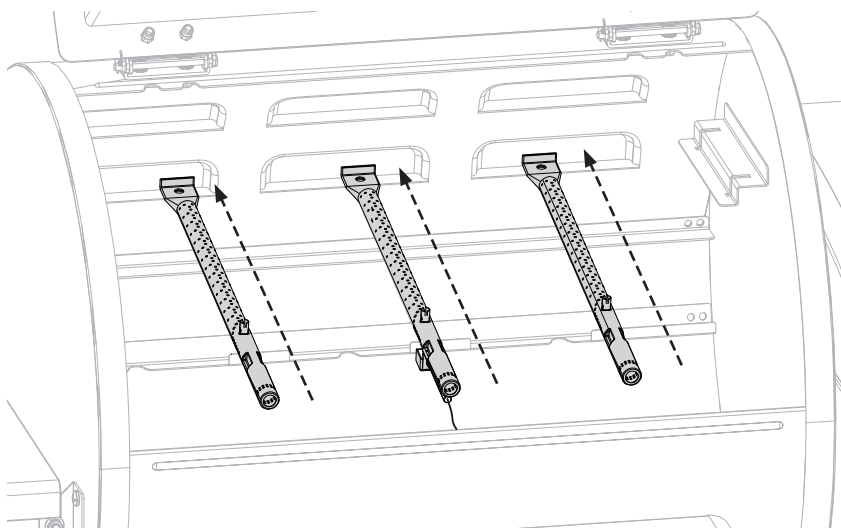


CONVERTIBLE
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Master Chef Grill Turismo™ Grill and Griddle BBQ

2B

Remove the burners from the valve and lay them inside the burner box.



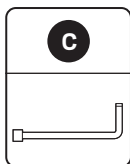
Master Chef Grill Turismo™

Grill and Griddle BBQ

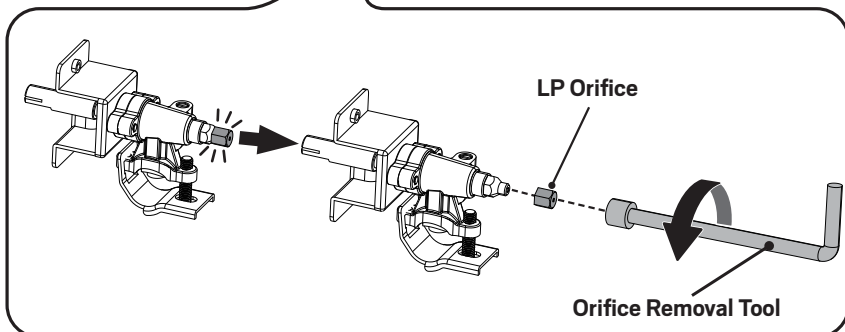
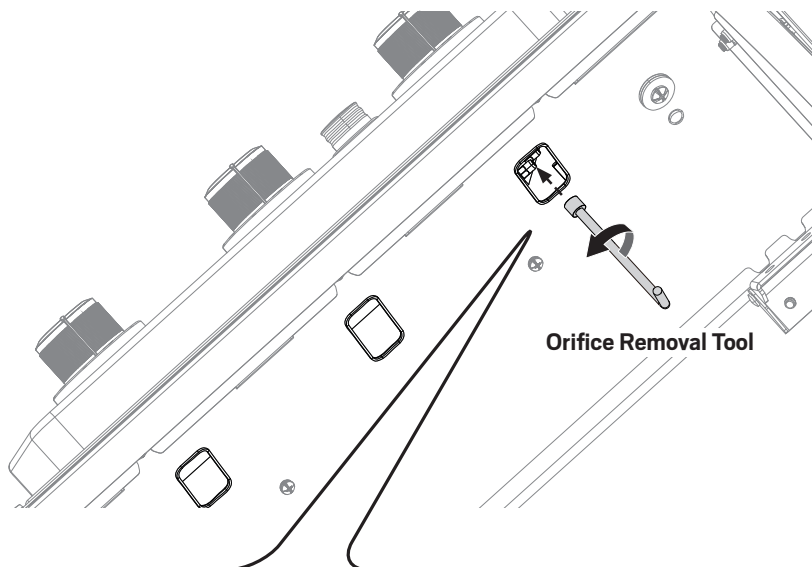


3

Insert the orifice removal tool into the burner box opening to locate the valve orifice. Once the tool is positioned correctly on the orifice, turn the orifice removal tool counter clockwise to remove the LP orifice.



Repeat this step for all main burner valves.



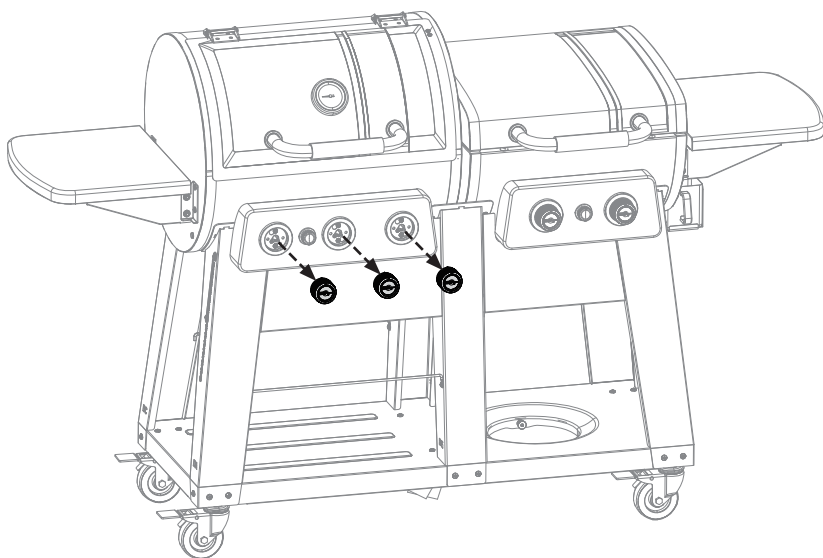


**CONVERTIBLE
VALVE SYSTEM®**

Master Chef Grill Turismo™ Grill and Griddle BBQ

4A

Remove all control knobs to access the valve switch plate.

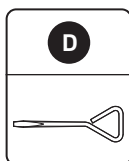


4B

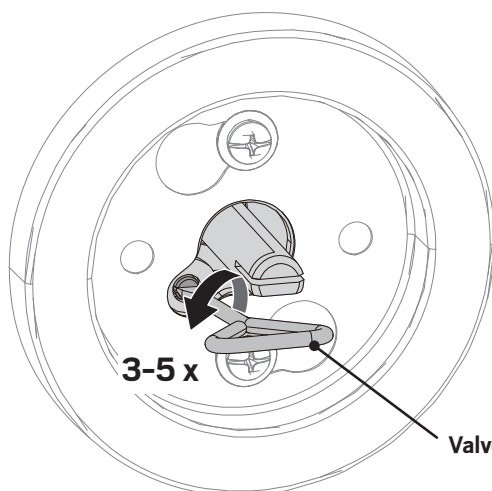
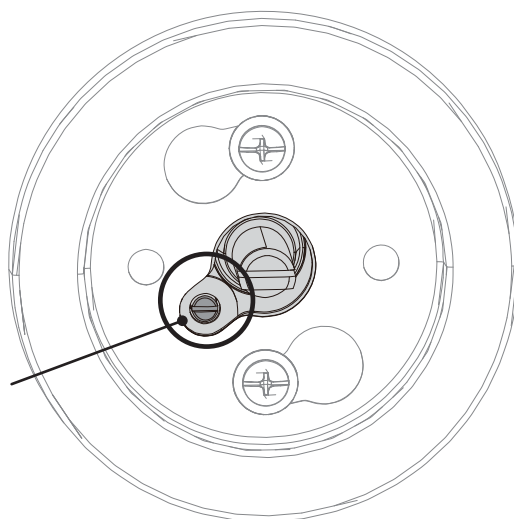
Main Burners

Locate the switch screw circled in the diagram. Using the screwdriver supplied with this kit, turn the screw counter clockwise 3-5 turns until it stops, to complete the valve conversion.

▲ DO NOT USE FORCE.



Switch screw



3-5 x

Valve screwdriver

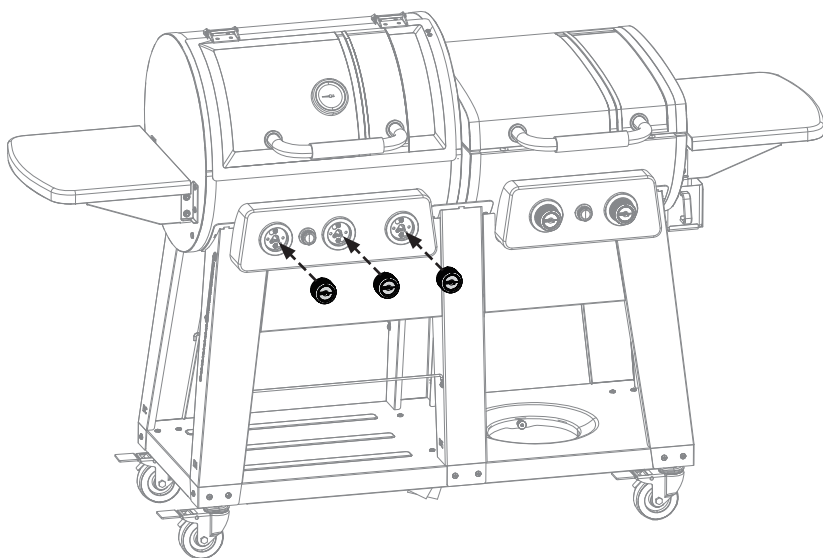


CONVERTIBLE
VALVE SYSTEM®

Master Chef Grill Turismo™ Grill and Griddle BBQ

5

Reassemble the control knobs.

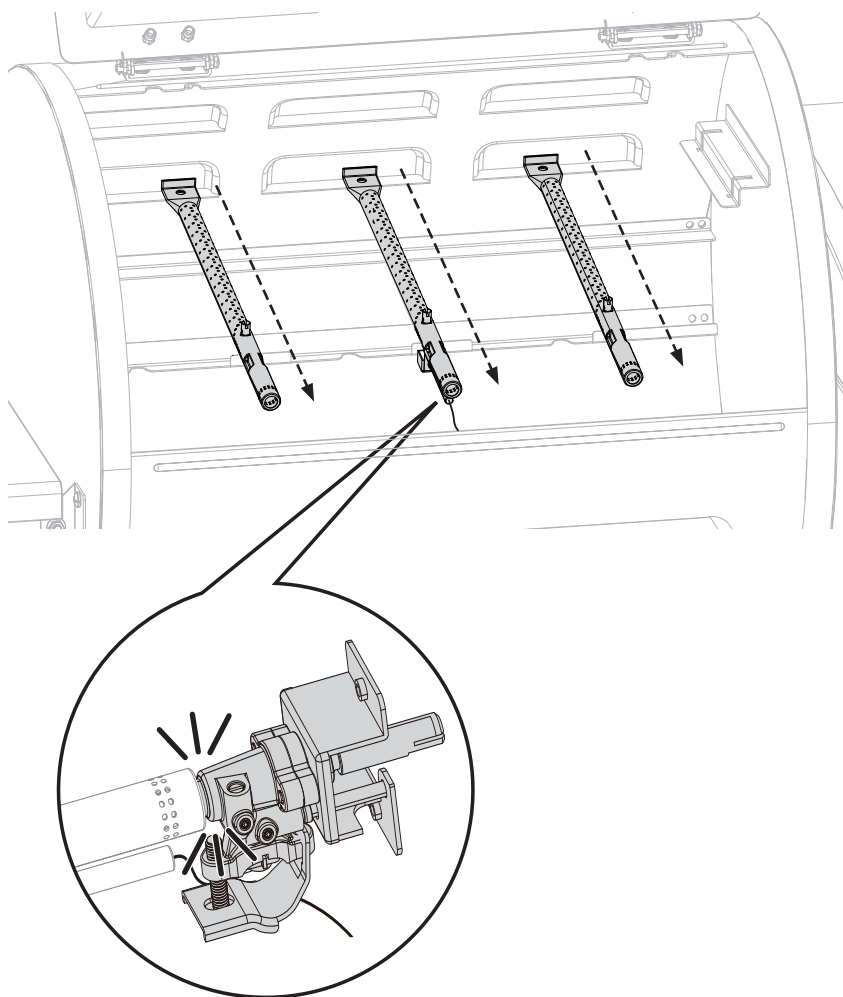


Master Chef Grill Turismo™ Grill and Griddle BBQ



6A

Assemble main burners, one at a time, making sure that the burner engages the valve, before reassembling the hitch pin.



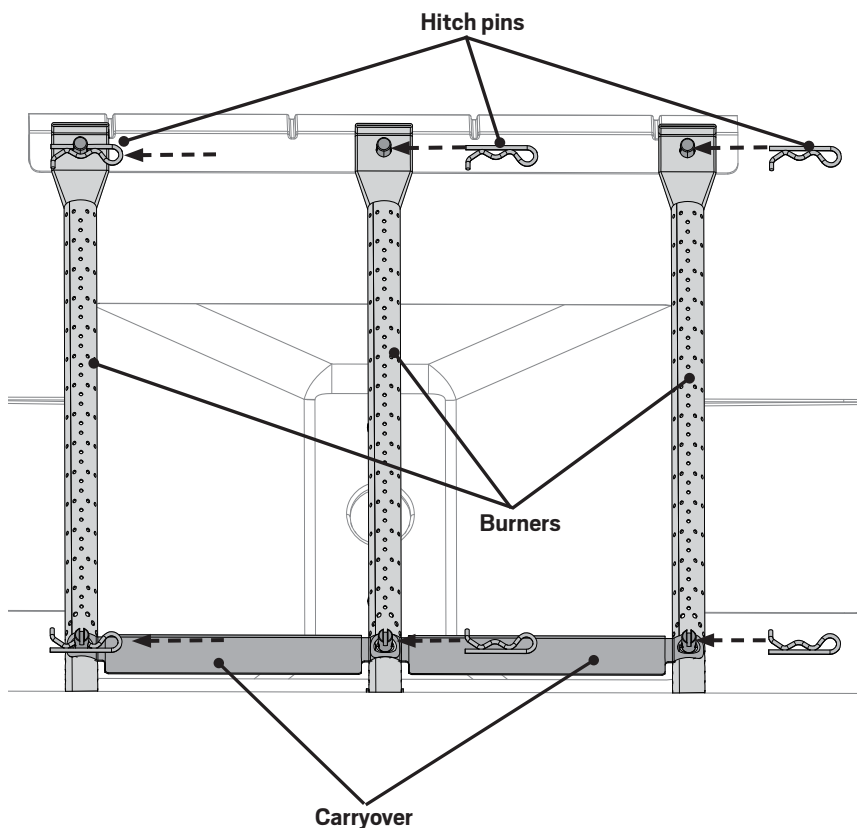


CONVERTIBLE
VALVE SYSTEM®

Master Chef Grill Turismo™ Grill and Griddle BBQ

6B

Reattach burners and carryovers using the hitch pins removed.

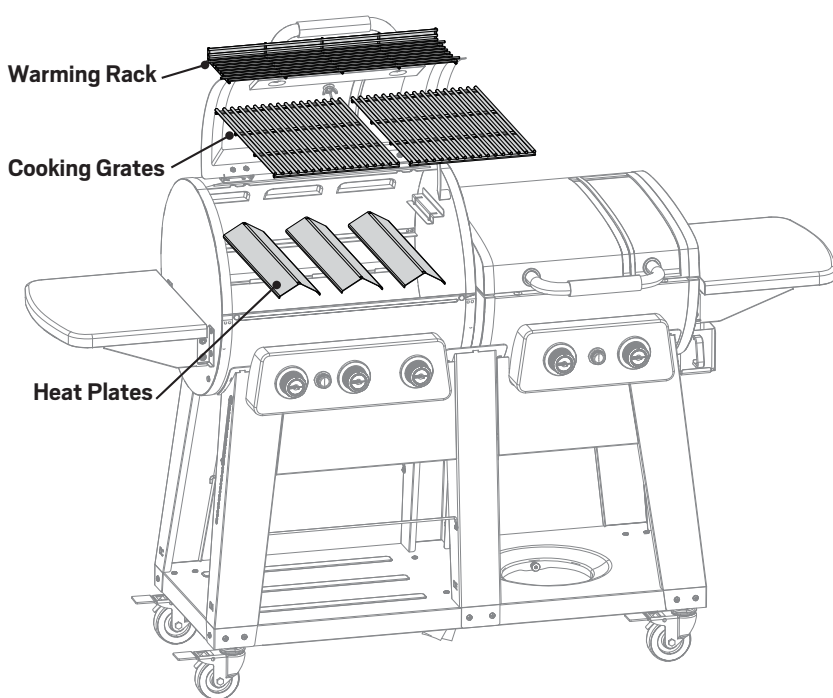


Master Chef Grill Turismo™ Grill and Griddle BBQ



7

Reposition the heat plates, cooking grates and warming rack.



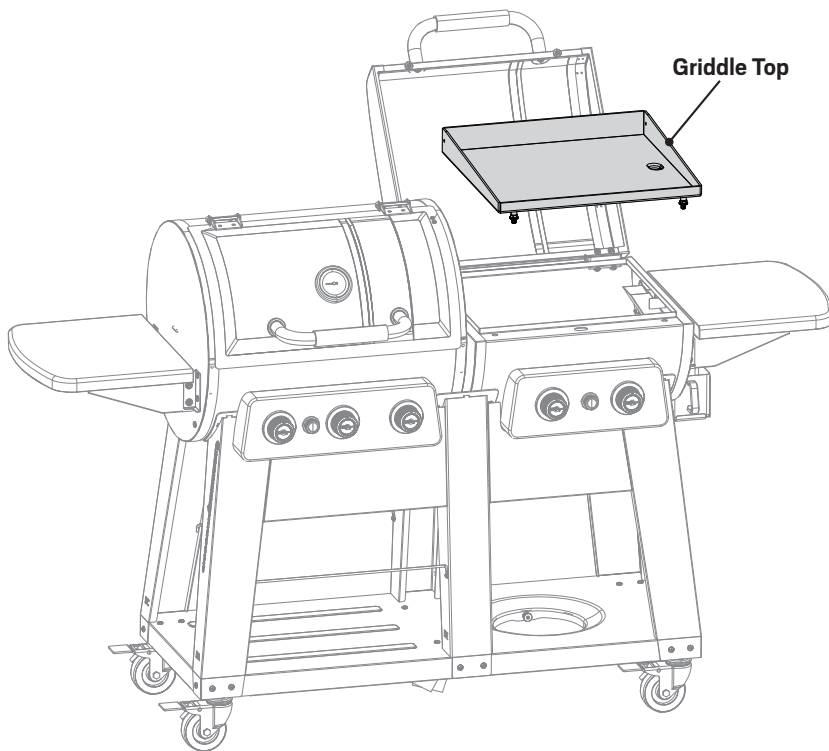


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VALVE SYSTEM®**

Master Chef Grill Turismo™ Grill and Griddle BBQ

8

Open lid, remove and set aside the griddle top.

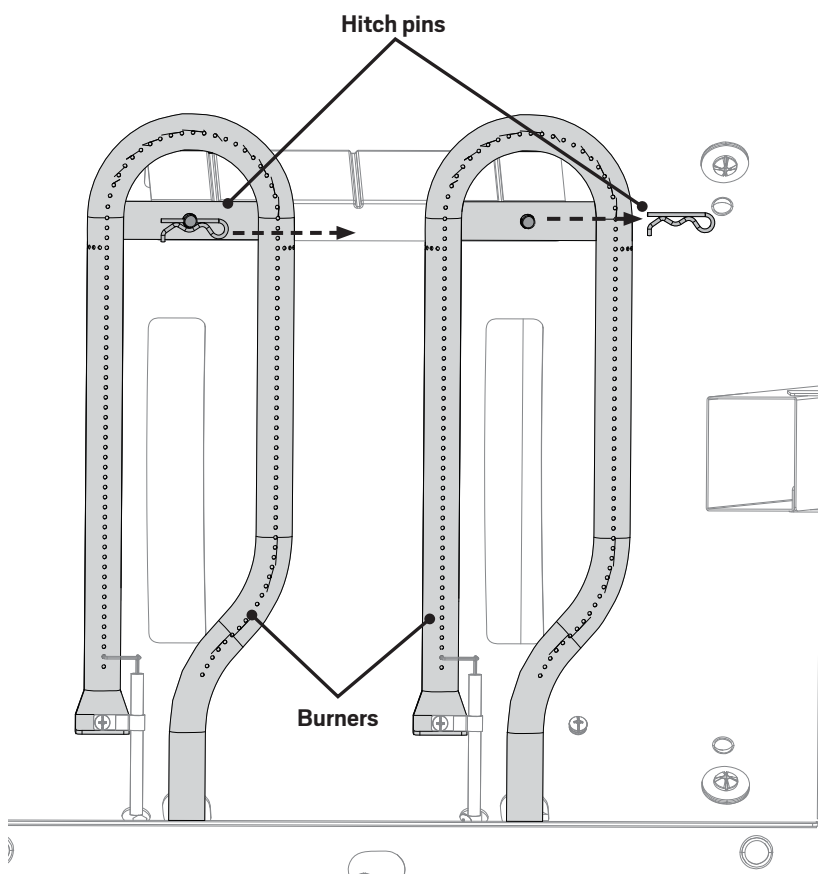


Master Chef Grill Turismo™ Grill and Griddle BBQ



9A

Remove the hitch pins from the burners.



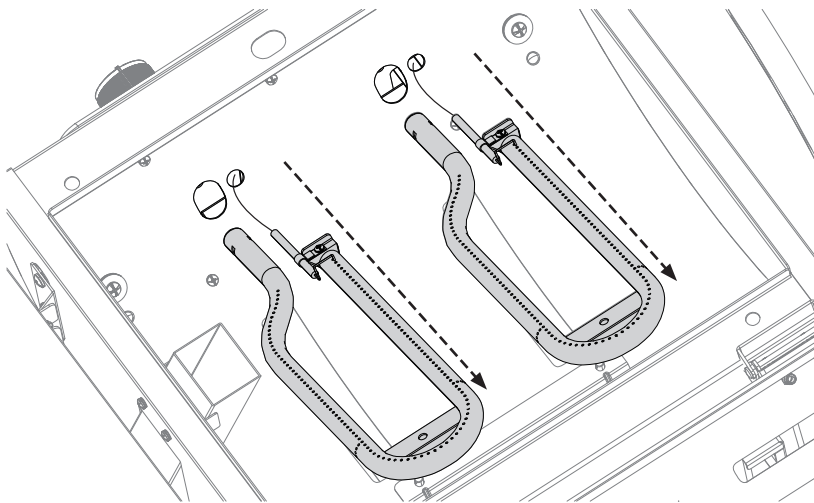


CONVERTIBLE
VALVE SYSTEM®

Master Chef Grill Turismo™ Grill and Griddle BBQ

9B

Remove the burners from the valve and lay them inside the burner box.

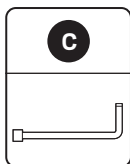


Master Chef Grill Turismo™ Grill and Griddle BBQ

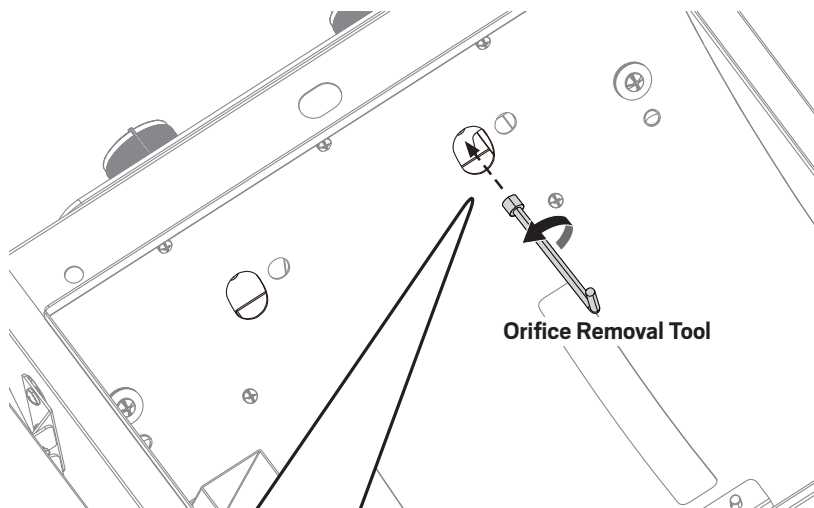


9C

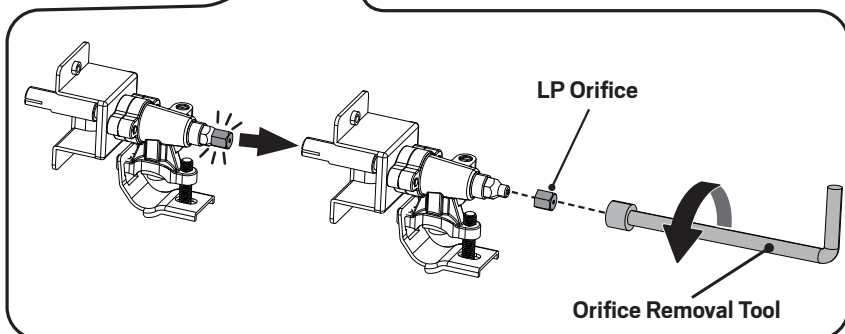
Insert the orifice removal tool into the burner box opening to locate the valve orifice. Once the tool is positioned correctly on the orifice, turn the orifice removal tool counter clockwise to remove the LP orifice.



Repeat this step for all main burner valves.



Orifice Removal Tool



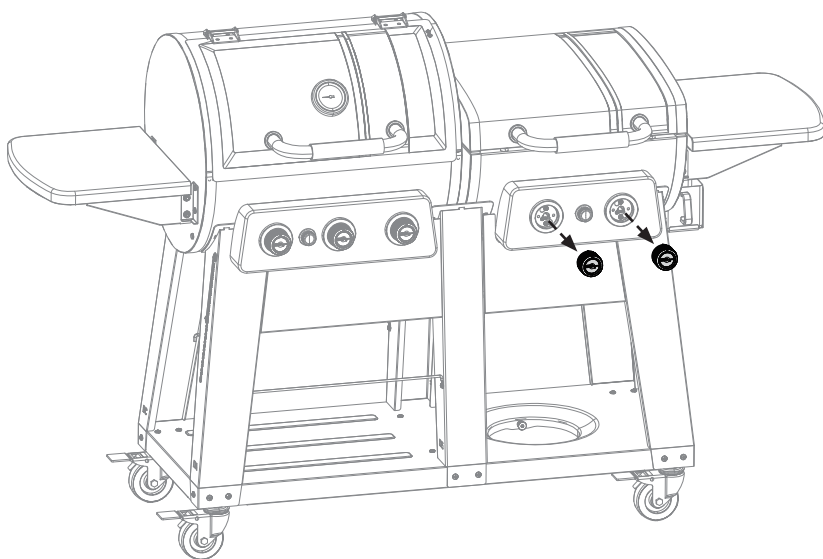


**CONVERTIBLE
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Master Chef Grill Turismo™ Grill and Griddle BBQ

10A

Remove the control knobs.



Master Chef Grill Turismo™

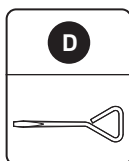
Grill and Griddle BBQ



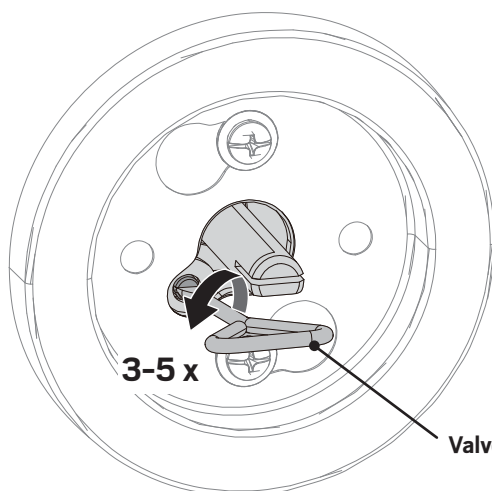
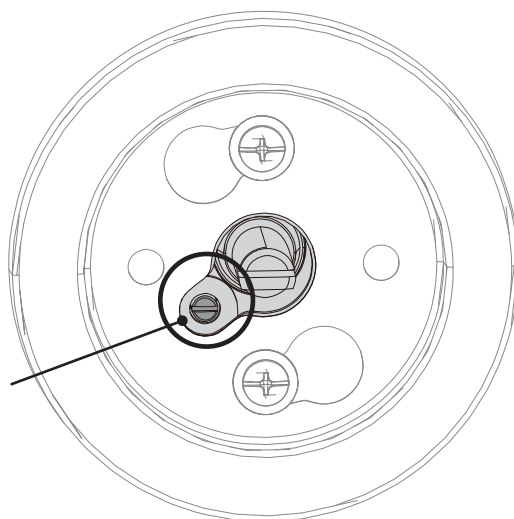
10B

Locate the switch screw circled in the diagram. Using the screwdriver supplied with this kit, turn the screw counter clockwise 3-5 turns until it stops, to complete the valve conversion.

⚠ DO NOT USE FORCE.



Switch screw



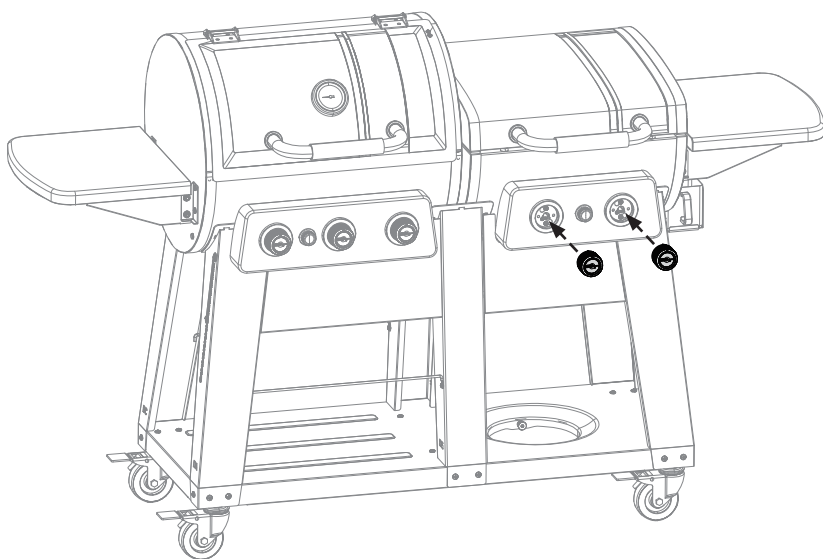


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Master Chef Grill Turismo™ Grill and Griddle BBQ

11

Reassemble the control knobs.

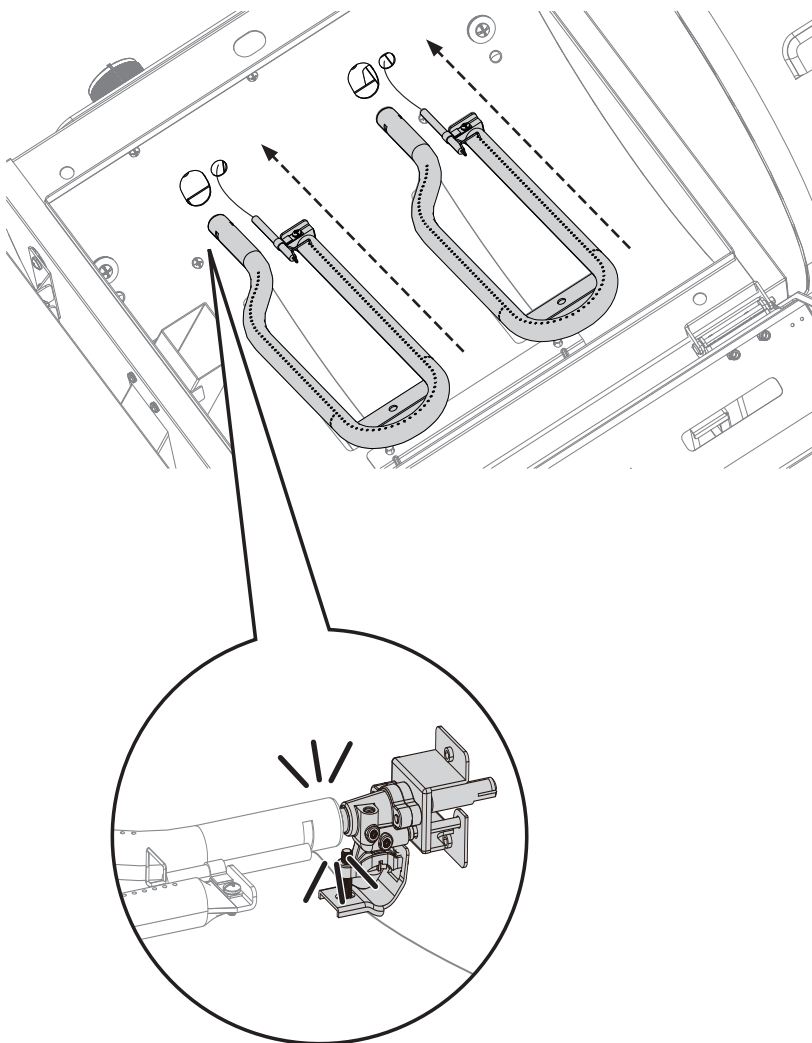


Master Chef Grill Turismo™ Grill and Griddle BBQ



12A

Assemble main burners, one at a time, making sure that the burner engages the valve, before reassembling the hitch pin.



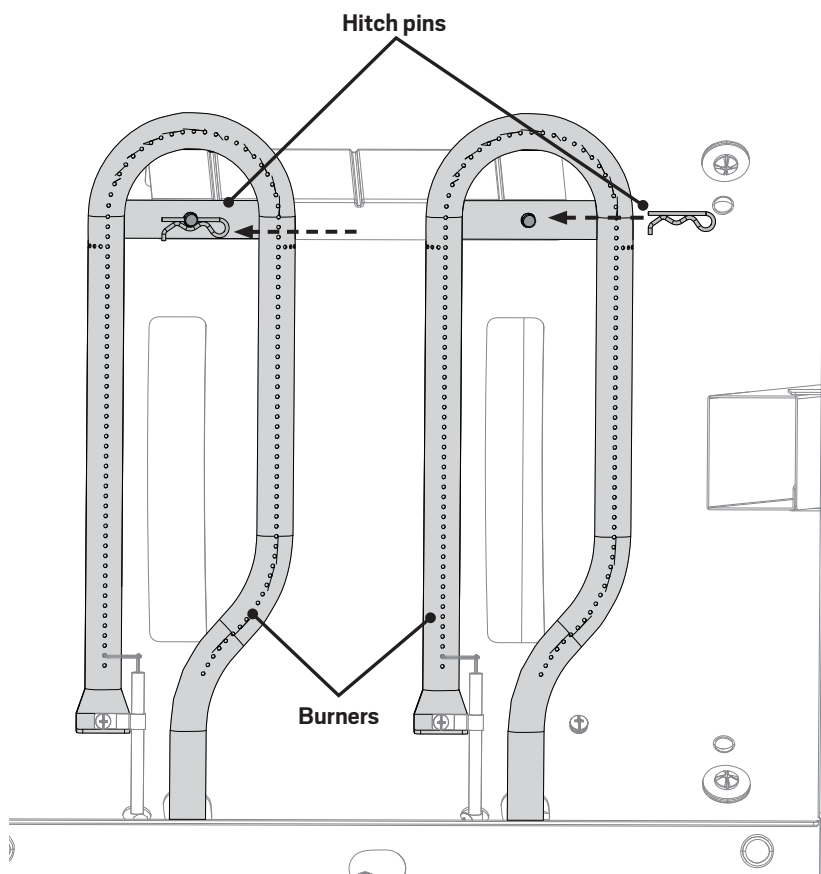


CONVERTIBLE
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Master Chef Grill Turismo™ Grill and Griddle BBQ

12B

Reattach burners using the hitch pins removed.

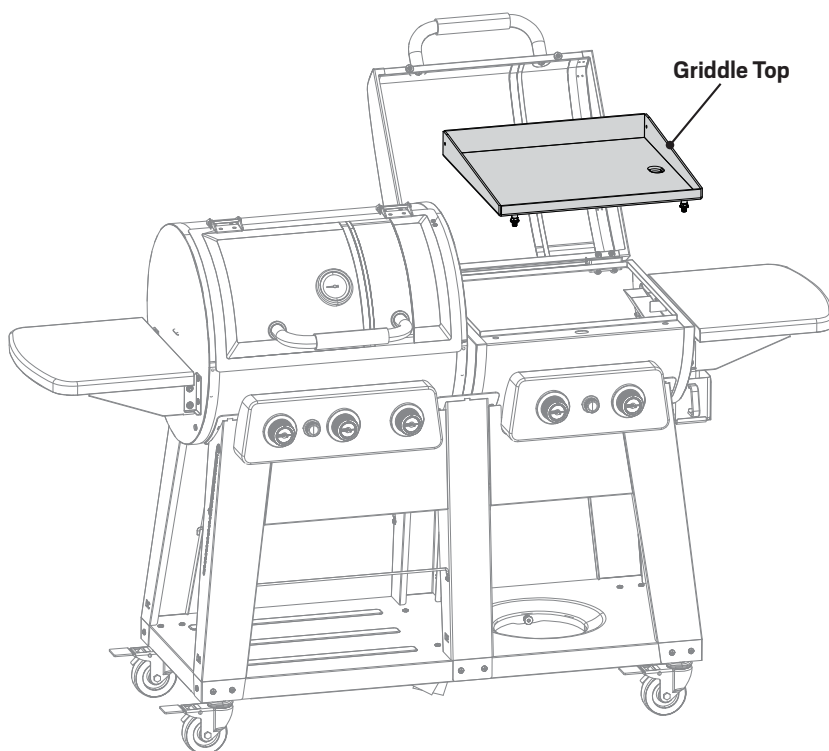


Master Chef Grill Turismo™ Grill and Griddle BBQ



13

Reposition the griddle top.





SIDE BURNER CONVERSION

- SEE PAGE 75

INFRARED SEAR BURNER CONVERSION

- SEE PAGE 82

NATURAL GAS CONNECTION

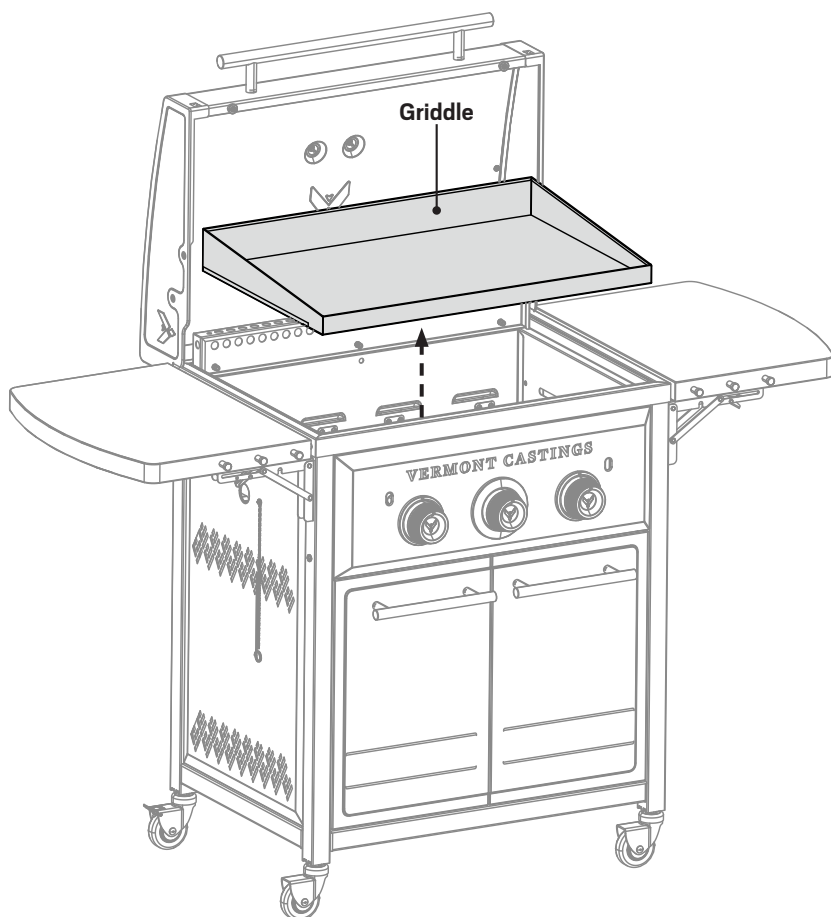
- SEE PAGE 93



⚠ For Vermont Castings™ Griddle ONLY.

1

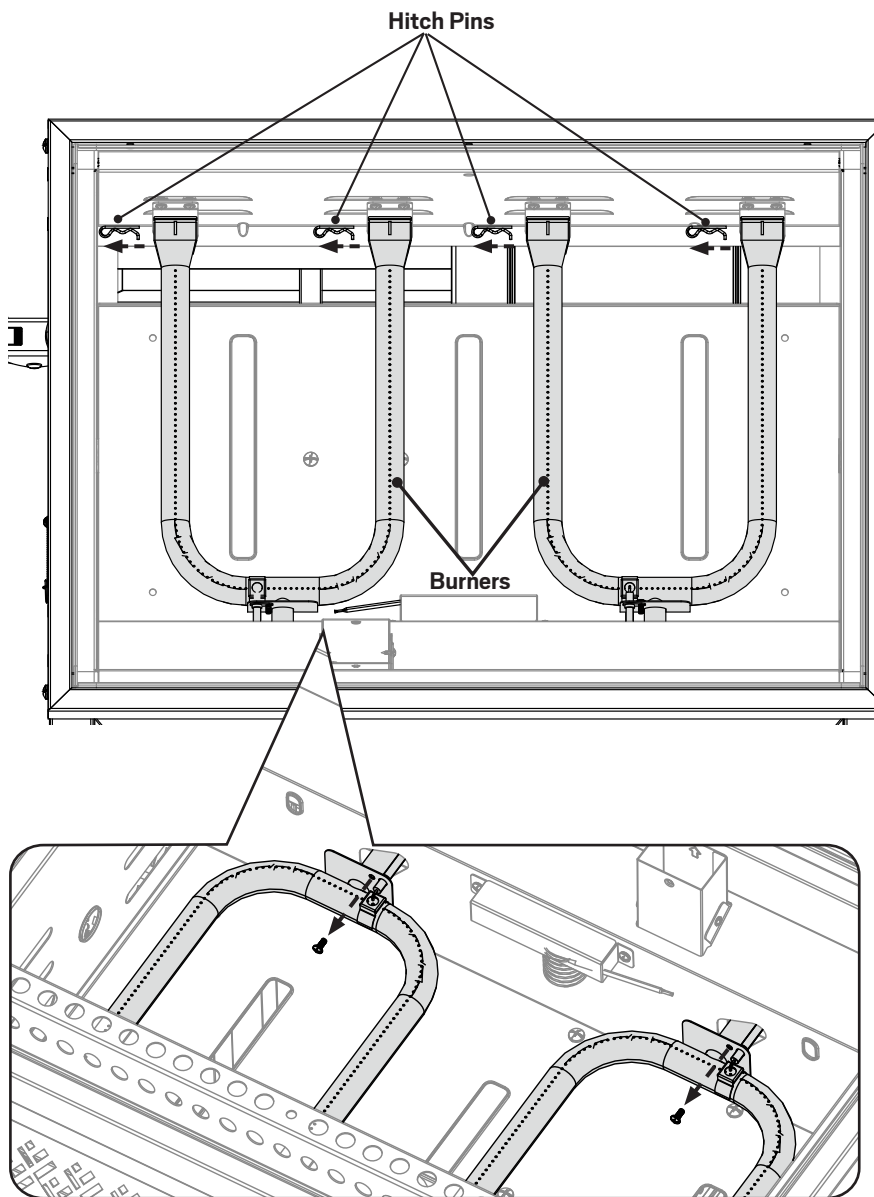
Remove the griddle.





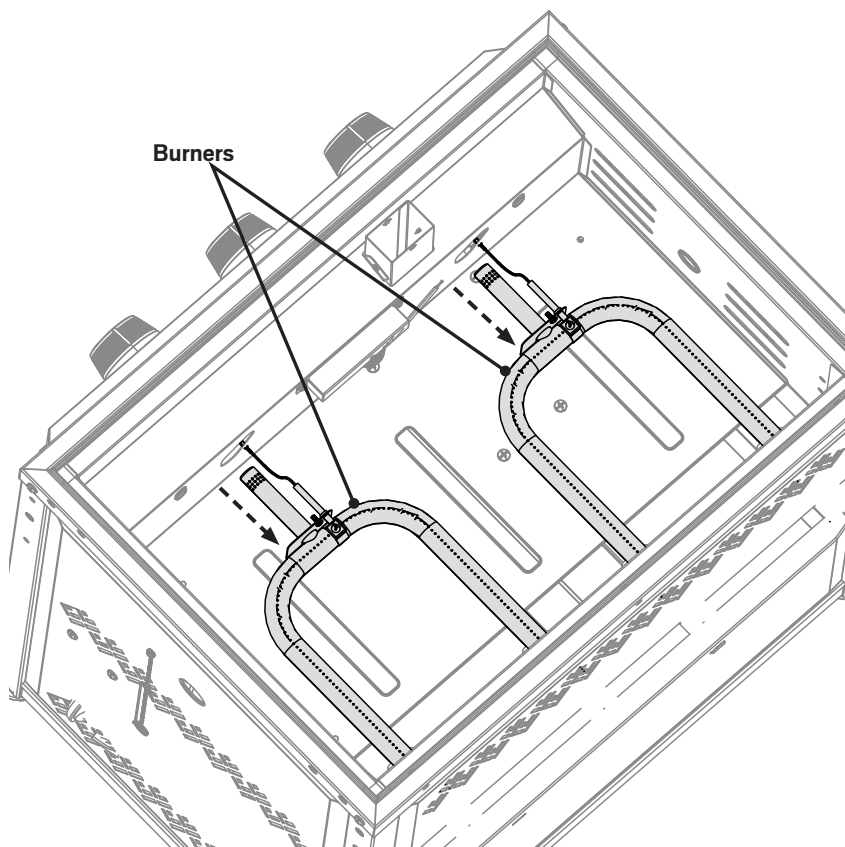
2

Remove the hitch pins and screws from the burners.



3

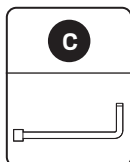
Remove the burners from the valve and lay them inside the burner box.



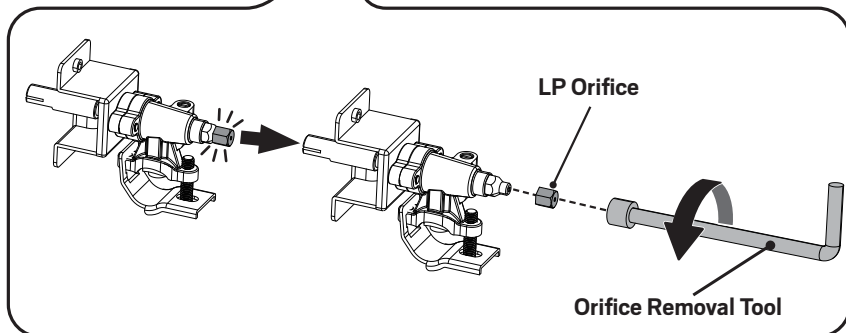
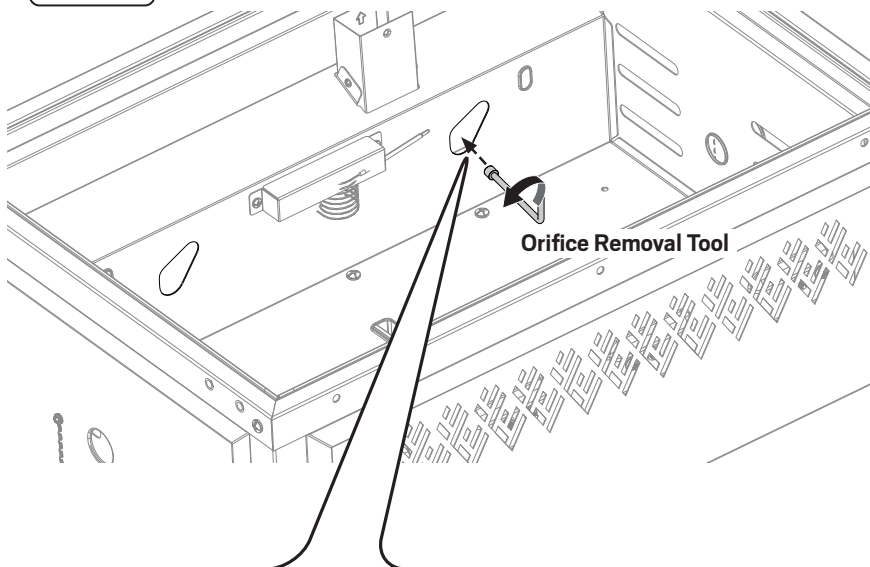


4

Insert the orifice removal tool into the burner box opening to locate the valve orifice. Once the tool is positioned correctly on the orifice, turn the orifice removal tool counter clockwise to remove the LP orifice.

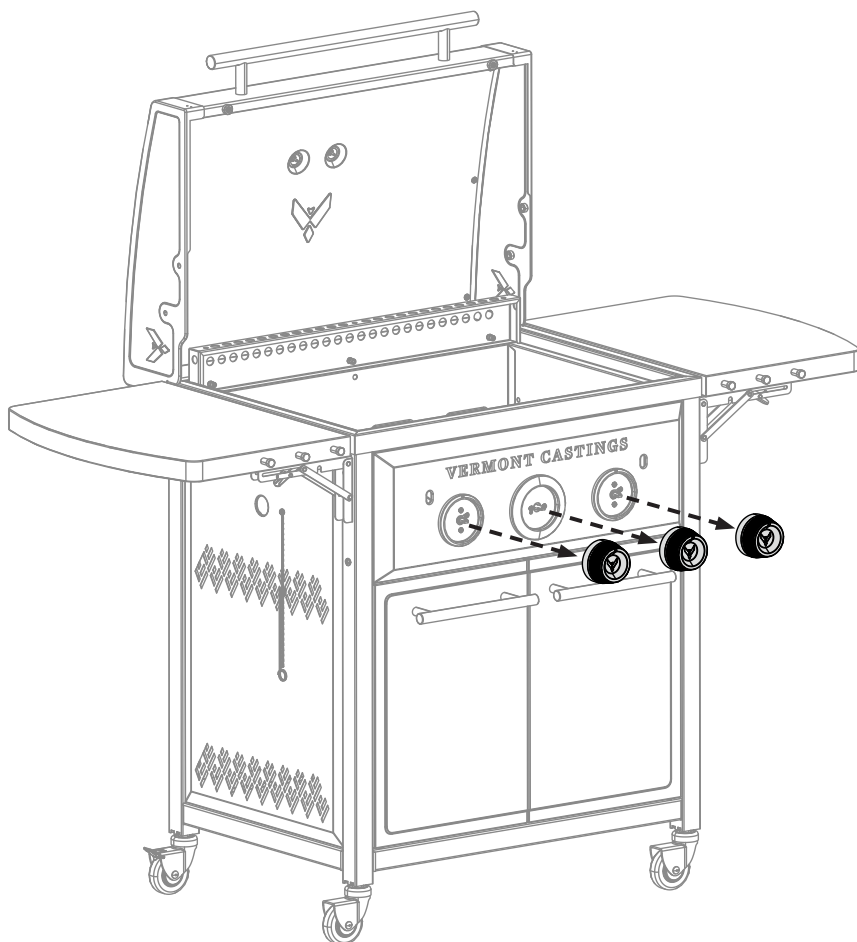


Repeat this step for all main burner valves.



5

Remove all control knobs to access the valve switch plate.



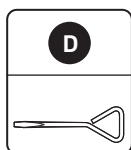


6

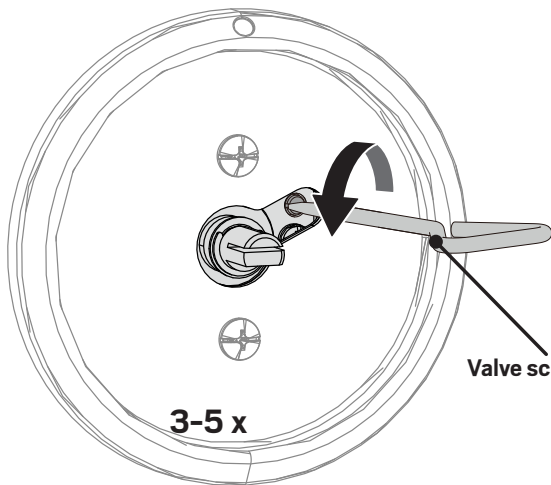
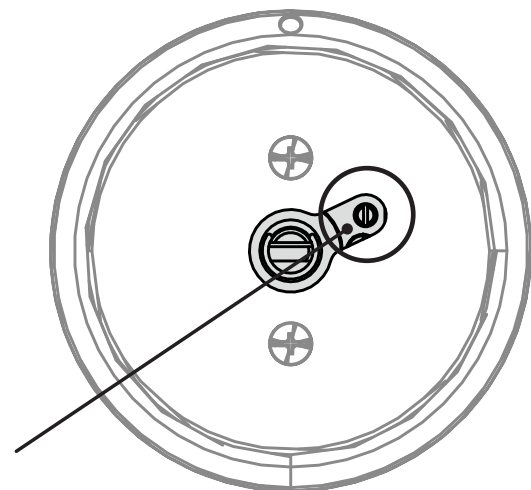
Main Burners

Locate the switch screw circled in the diagram. Using the screwdriver supplied with this kit, turn the screw counter clockwise 3-5 turns until it stops, to complete the valve conversion.

⚠ DO NOT USE FORCE.



Switch screw



Valve screwdriver

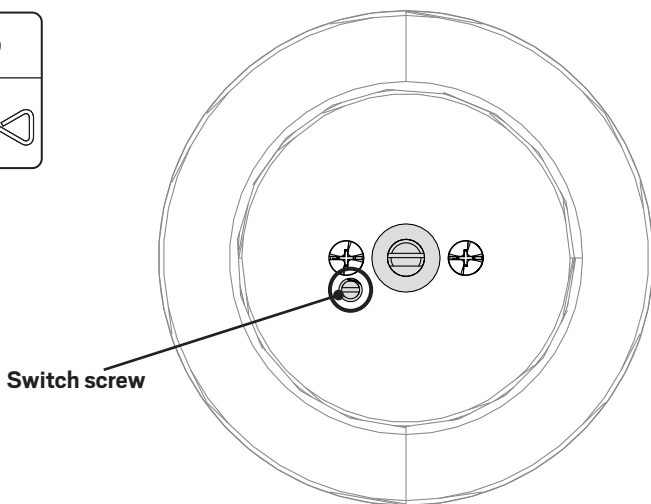
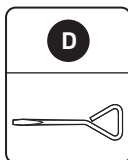
3-5 x

**7**

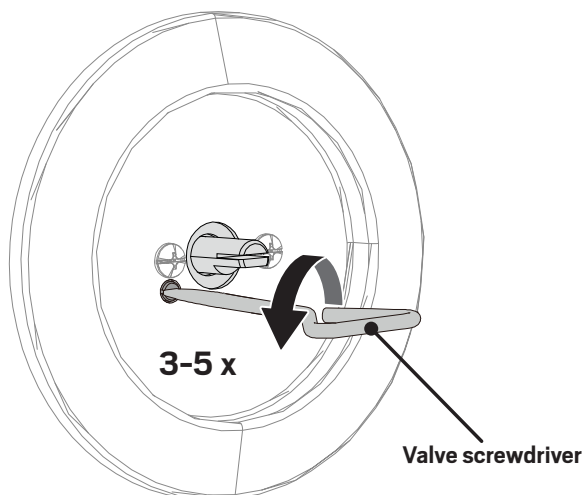
TempASSURED Control

Locate the switch screw circled in the diagram. Using the screwdriver supplied with this kit, turn the screw counter clockwise 3-5 turns until it stops, to complete the valve conversion.

⚠ DO NOT USE FORCE.



Switch screw



3-5 x

Valve screwdriver

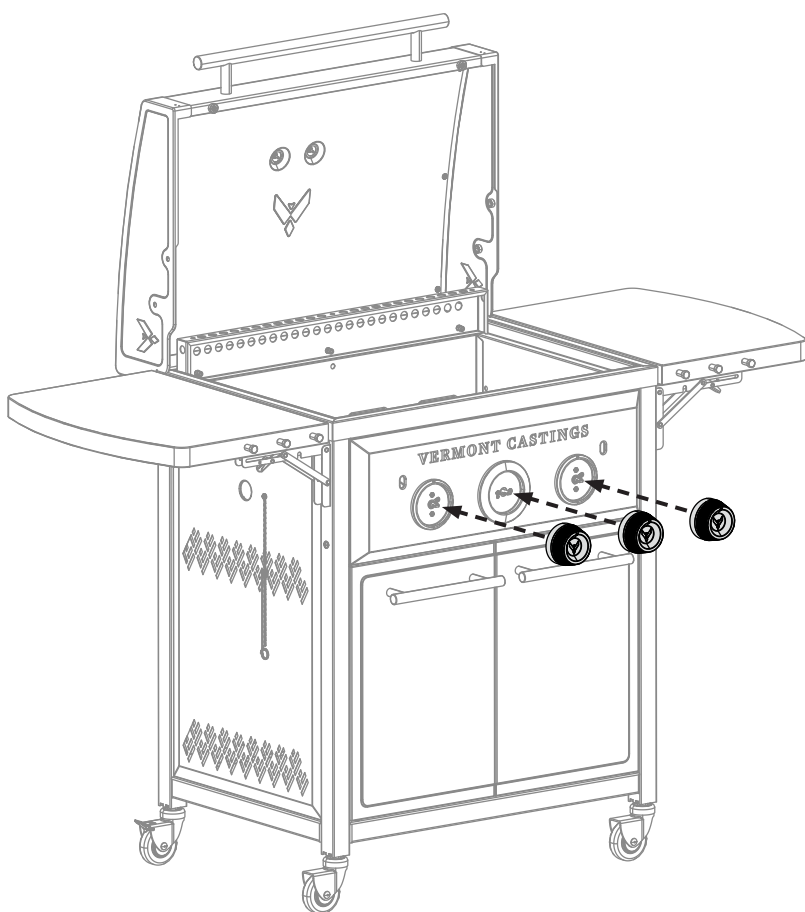


CONVERTIBLE
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Vermont Castings™ Griddle

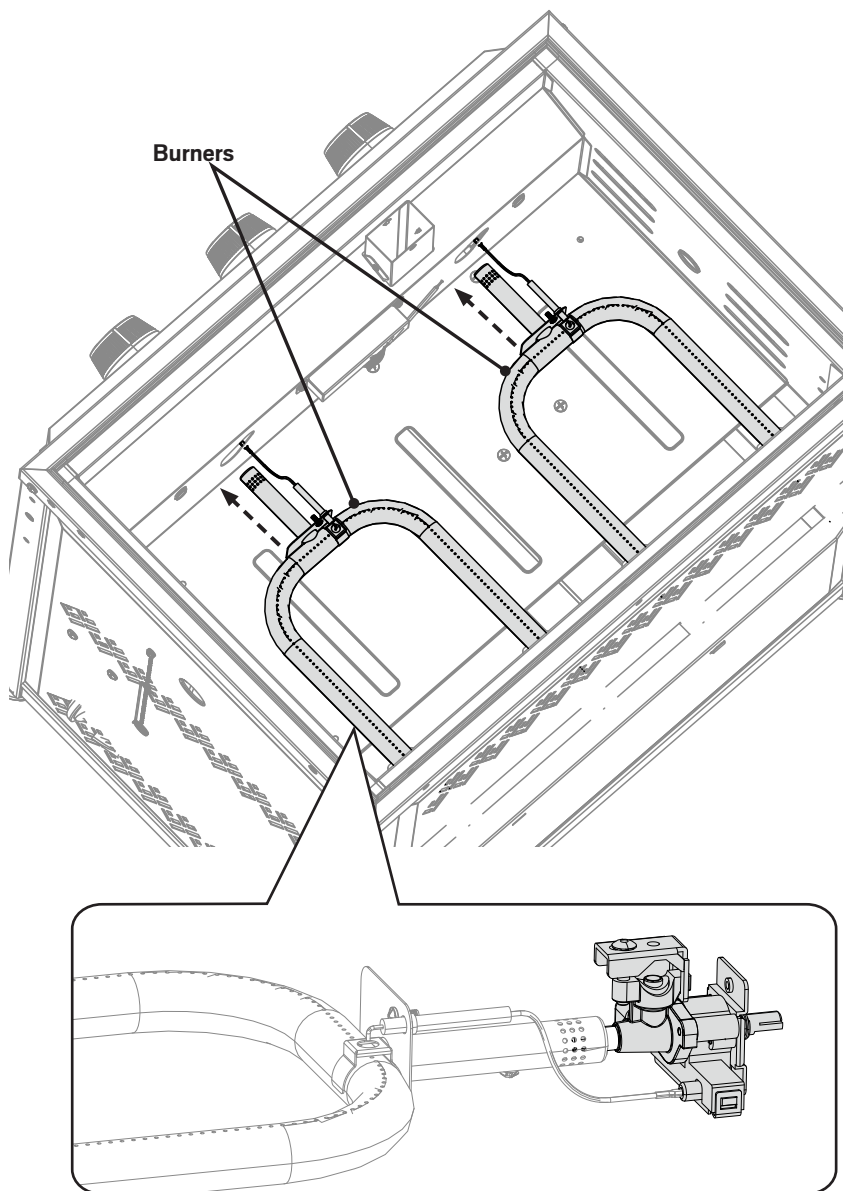
8

Reassemble the control knobs.



9

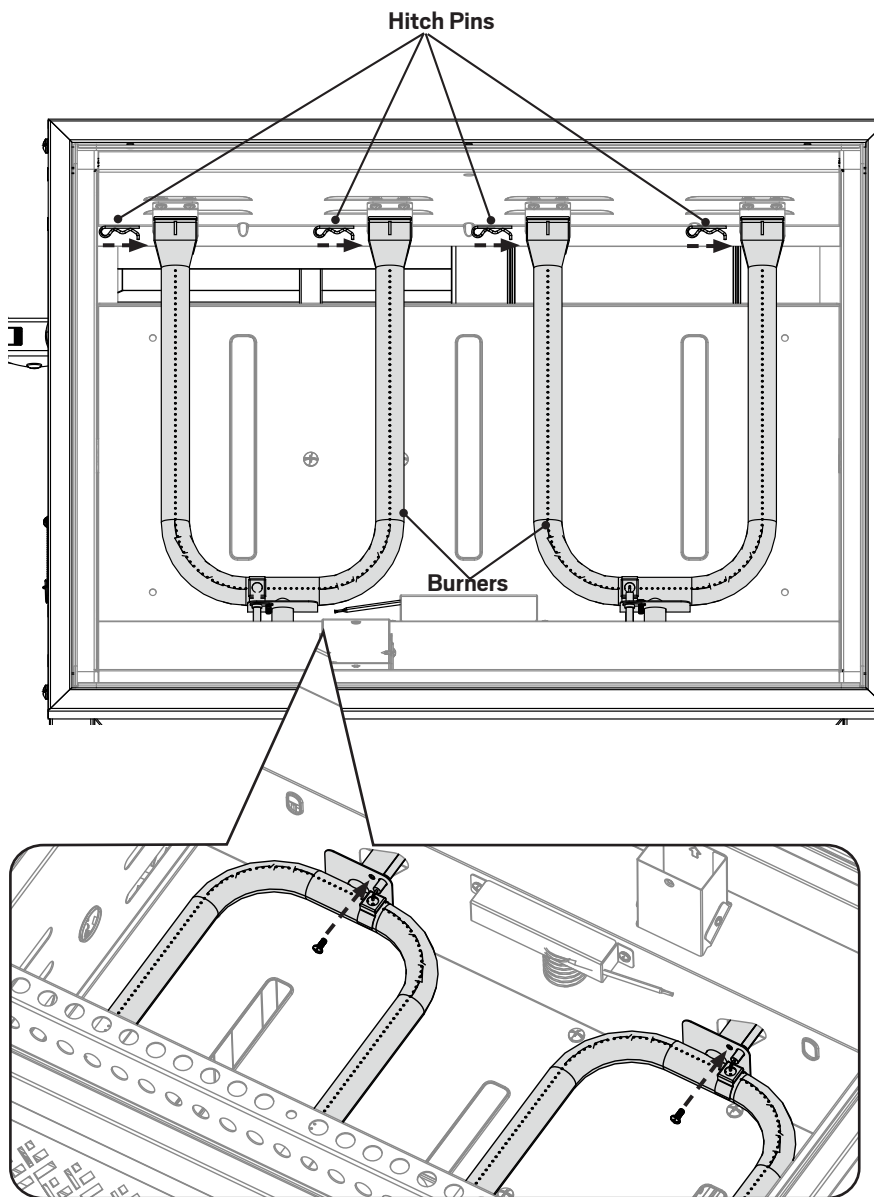
Assemble the burners, one at a time, making sure that the burner engages the valve.





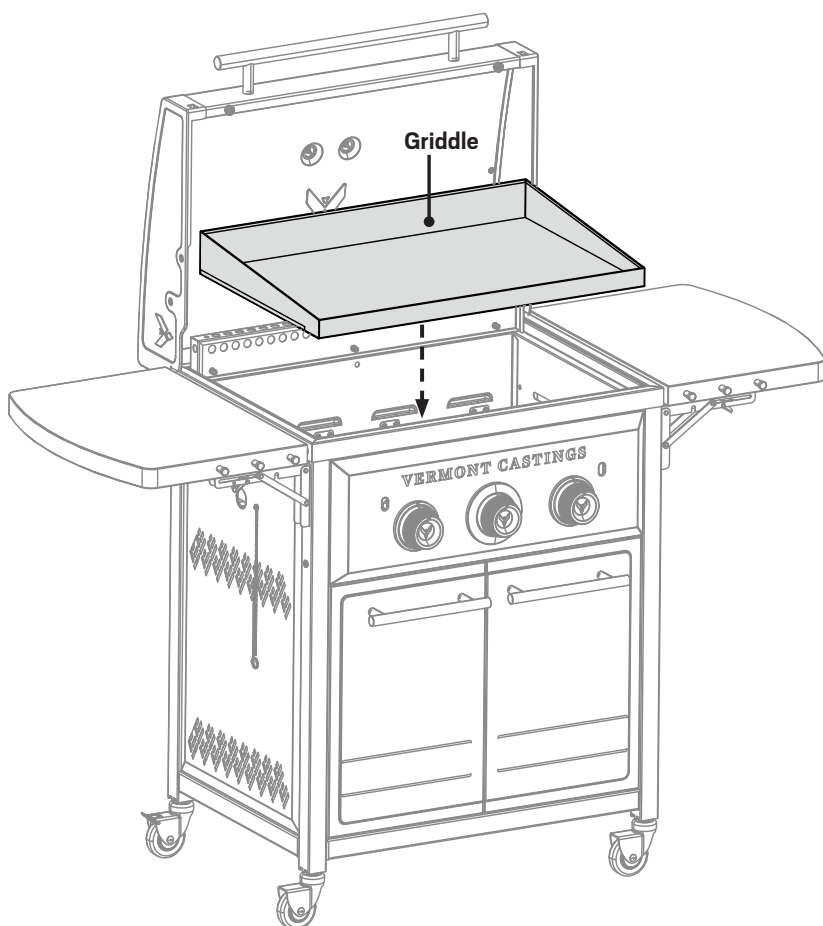
10

Reattach the burners using the hitch pins and the screws removed.



11

Reposition the griddle.





**CONVERTIBLE
VALVE SYSTEM®**



SIDE BURNER CONVERSION

- SEE PAGE 75

INFRARED SEAR BURNER CONVERSION

- SEE PAGE 82

NATURAL GAS CONNECTION

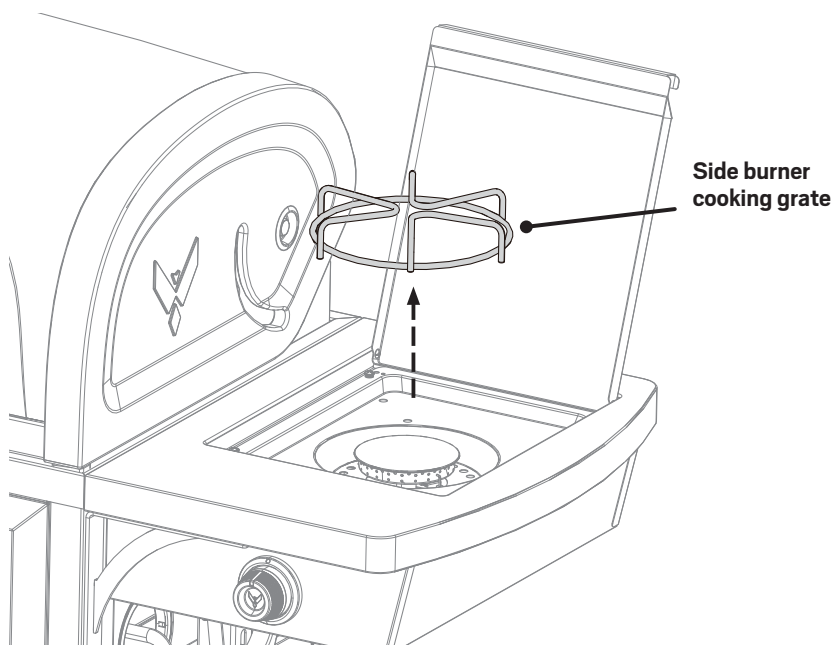
- SEE PAGE 93



1

⚠ ATTENTION:

- If your barbecue does not have a side burner proceed to page 82.
- Lift the side burner lid. Remove the side burner cooking grate.



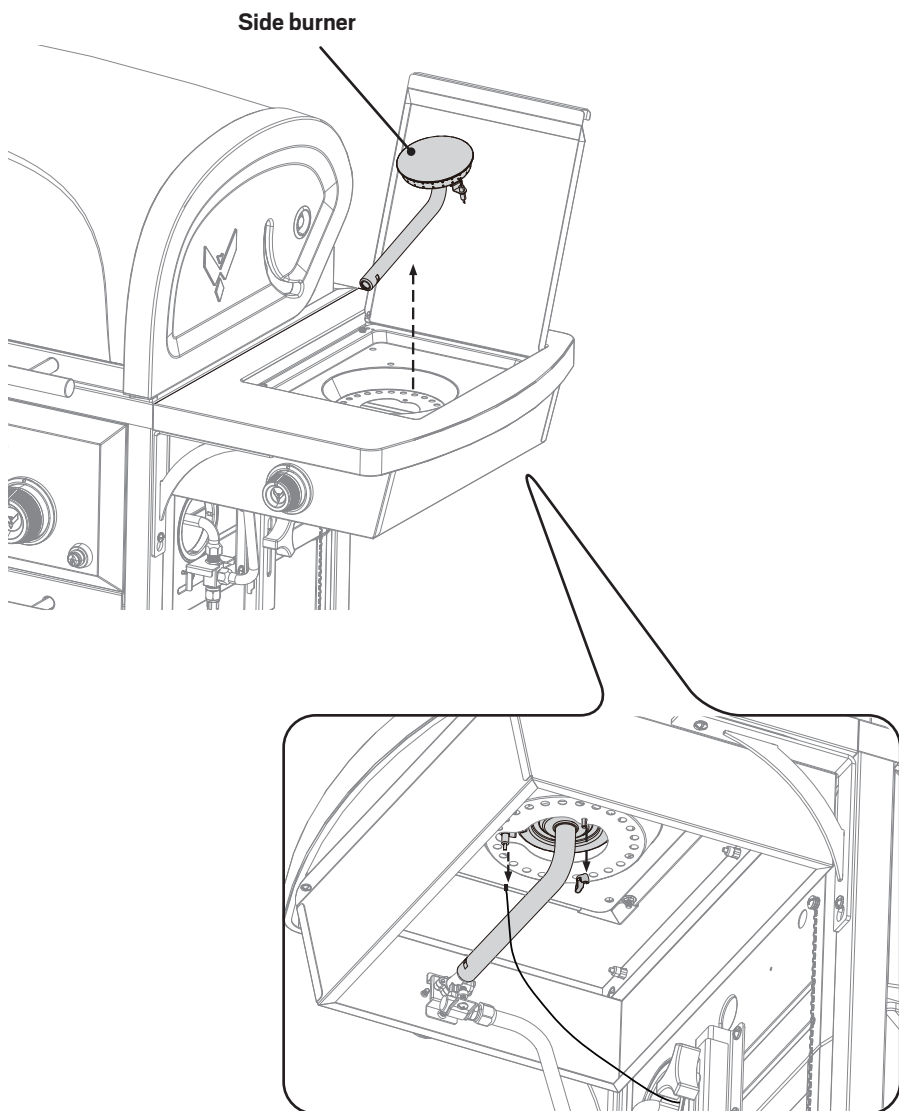
⚠ ATTENTION: FOR COLEMAN® REVOLUTION™ Dual Fuel (G53701 / 85-3140) Models

The charcoal ignition burner and valve works with both LP and NG gas. Conversion is not required for this feature to convert GAS SIDE of the barbecue.



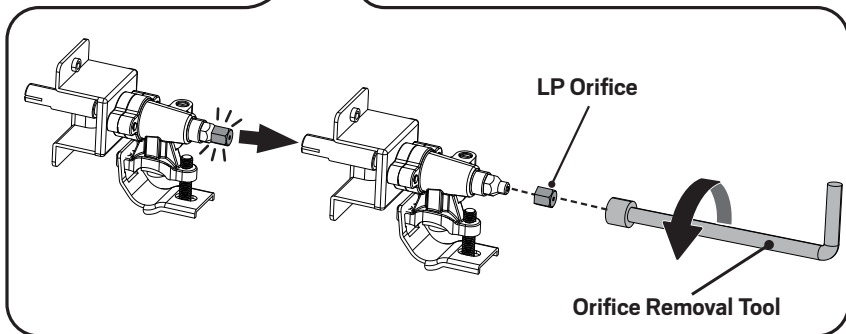
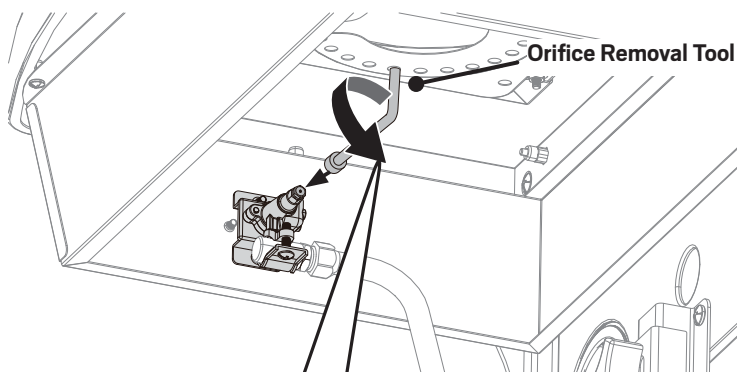
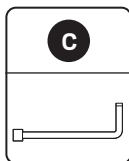
2

Remove the side burner support clip (if applicable), disconnect the side burner electrode and remove the side burner.



3

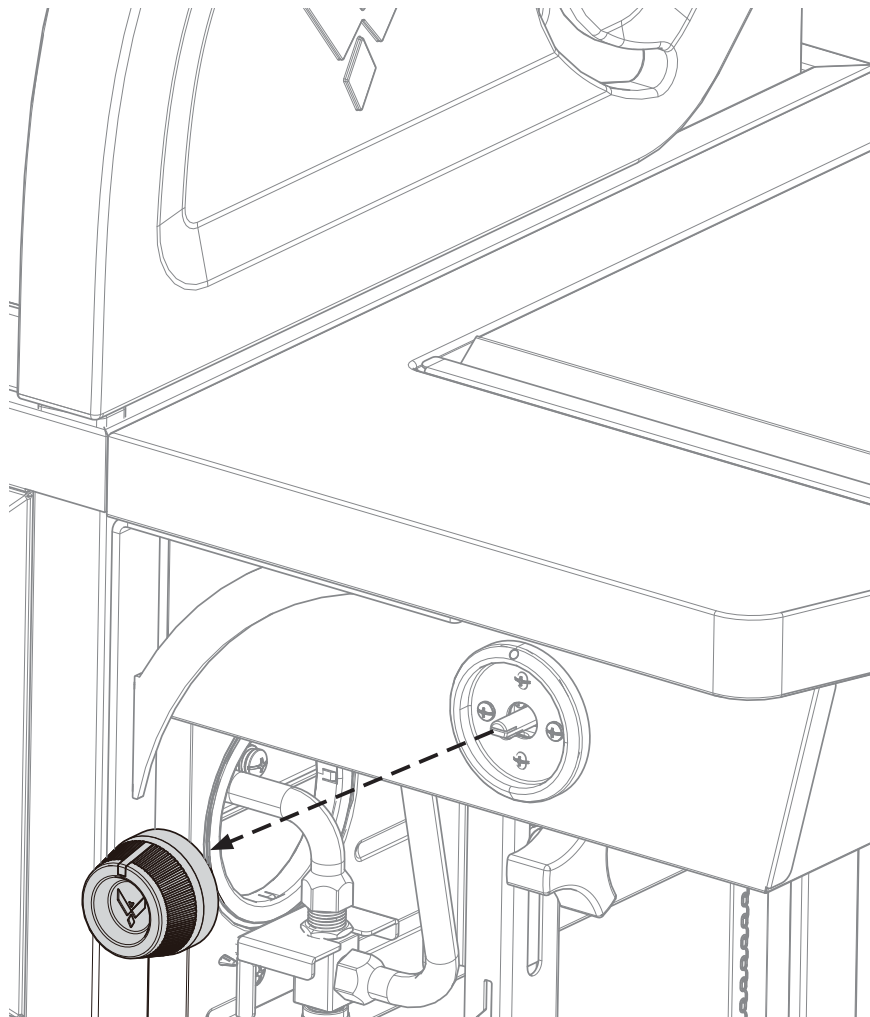
Using the orifice removal tool, remove the side burner valve orifice, as shown.





4

Remove the side burner knob to access the valve switch plate.

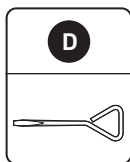




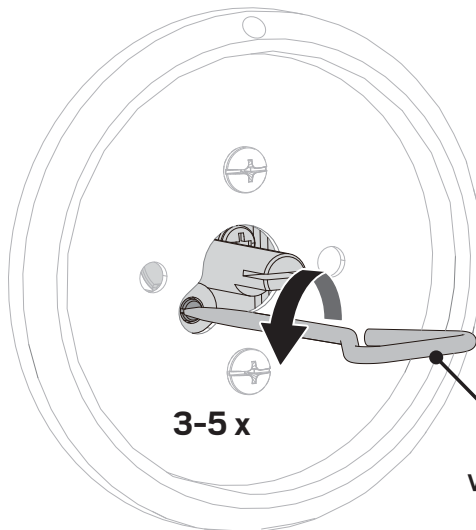
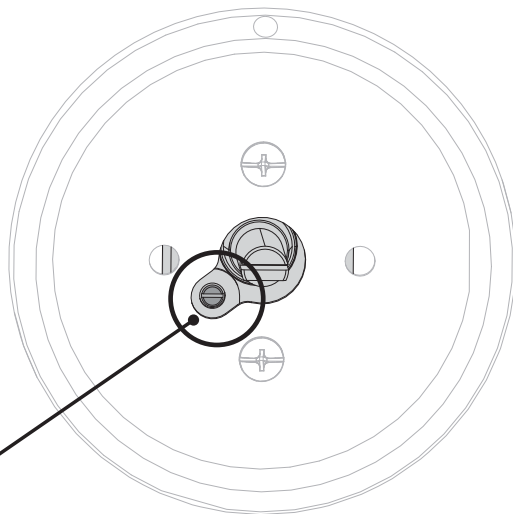
5

Locate the switch screw circled in the diagram. Using the screwdriver supplied with this kit, turn the screw counter clockwise 3-5 turns until it stops, to complete the valve conversion.

⚠ DO NOT USE FORCE.



Switch screw



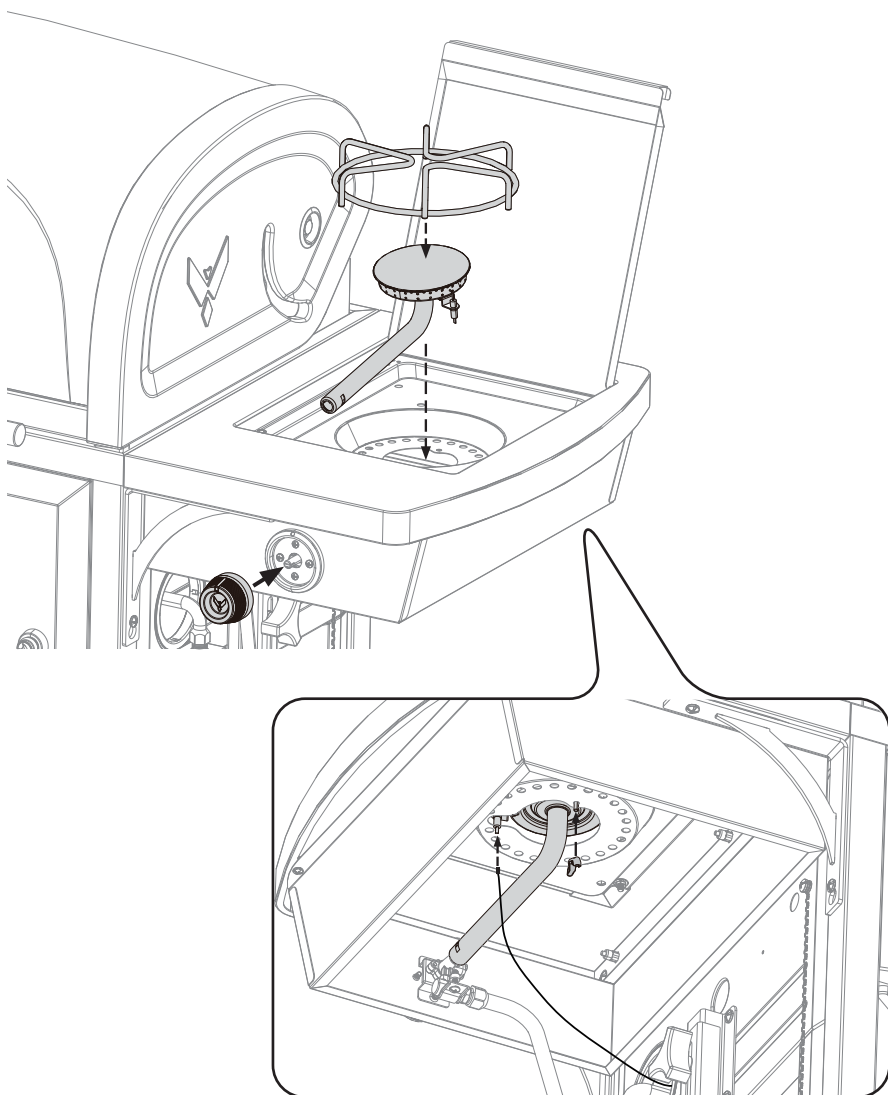
3-5 x

Valve screwdriver



6

Reassemble the side burner, side burner electrode, side burner support clip (if applicable), side burner grate, and the side burner knob.





INFRARED SEAR BURNER CONVERSION

- SEE PAGE 82

NATURAL GAS CONNECTION

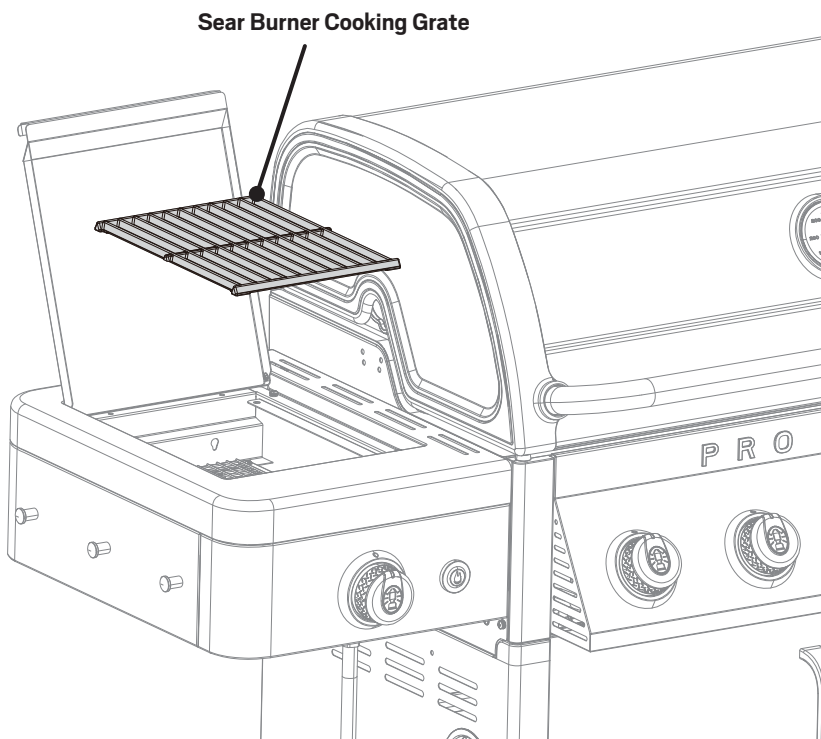
- SEE PAGE 93



1

⚠ ATTENTION:

- If your barbecue does not have a sear burner proceed to page 93.
- Lift the sear burner lid. Remove the sear burner cooking grate.

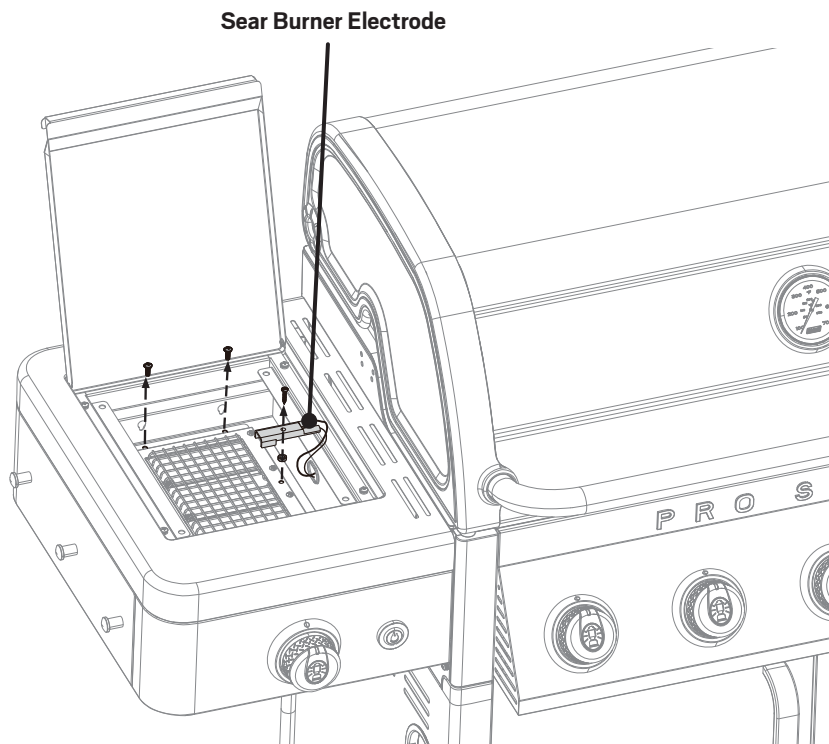


INFRARED SEAR BURNER CONVERSION



2

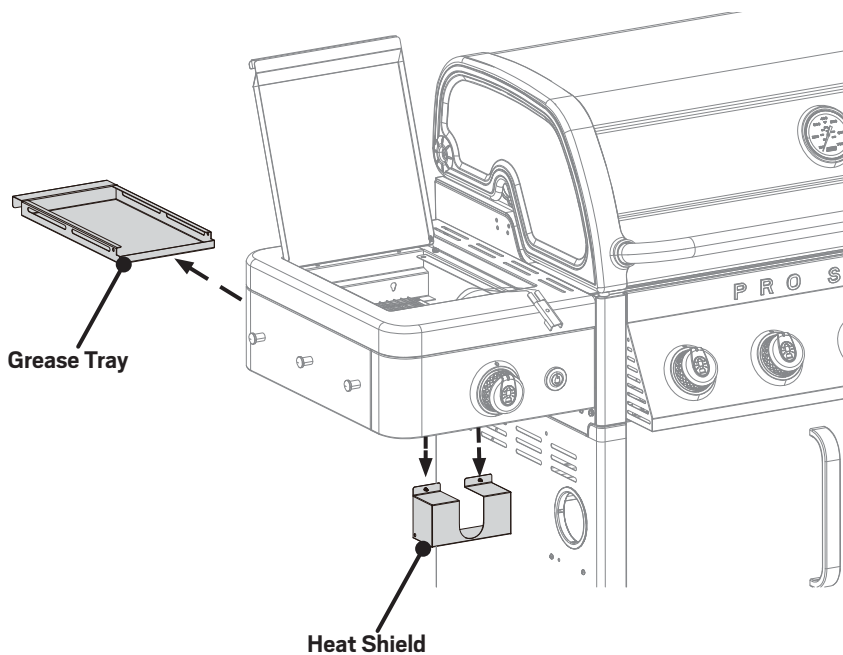
Disconnect the sear burner electrode.





3

Remove the sear burner grease tray and heat shield.

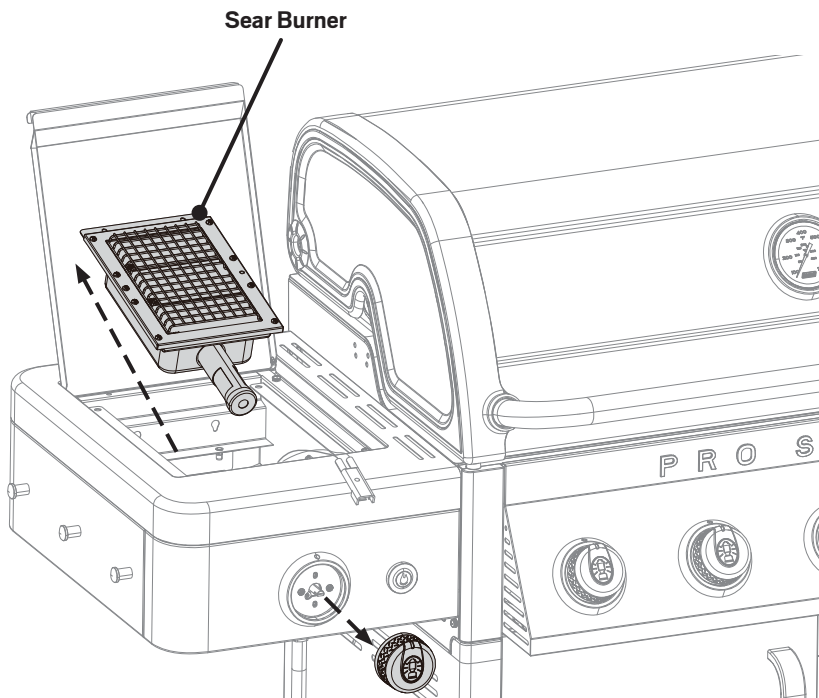


INFRARED SEAR BURNER CONVERSION



4

Remove the sear burner and control knob.



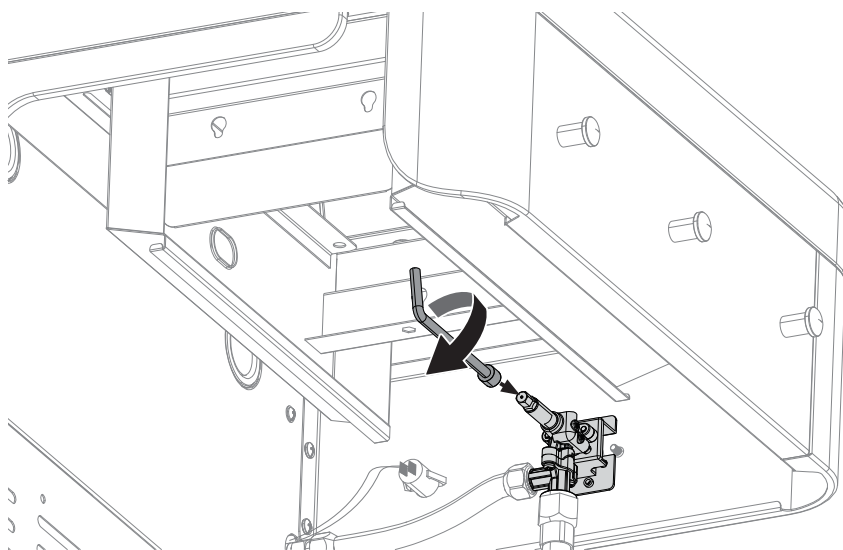
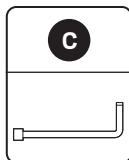


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INFRARED SEAR BURNER CONVERSION

5

Using the orifice removal tool, remove the sear burner valve orifice, as shown.



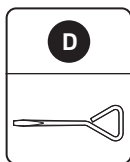
INFRARED SEAR BURNER CONVERSION



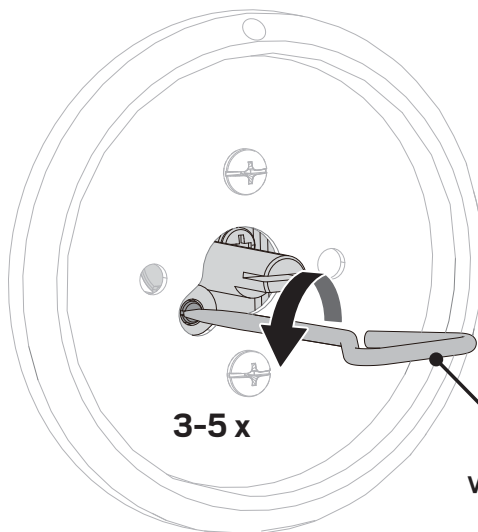
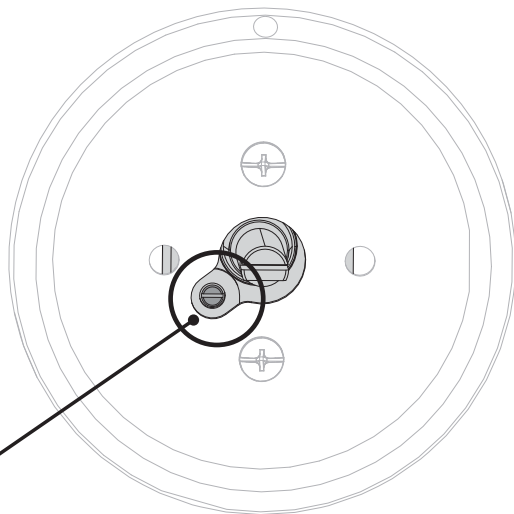
6

Locate the switch screw circled in the diagram. Using the screwdriver supplied with this kit, turn the screw counter clockwise 3-5 turns until it stops, to complete the valve conversion.

⚠ DO NOT USE FORCE.



Switch screw

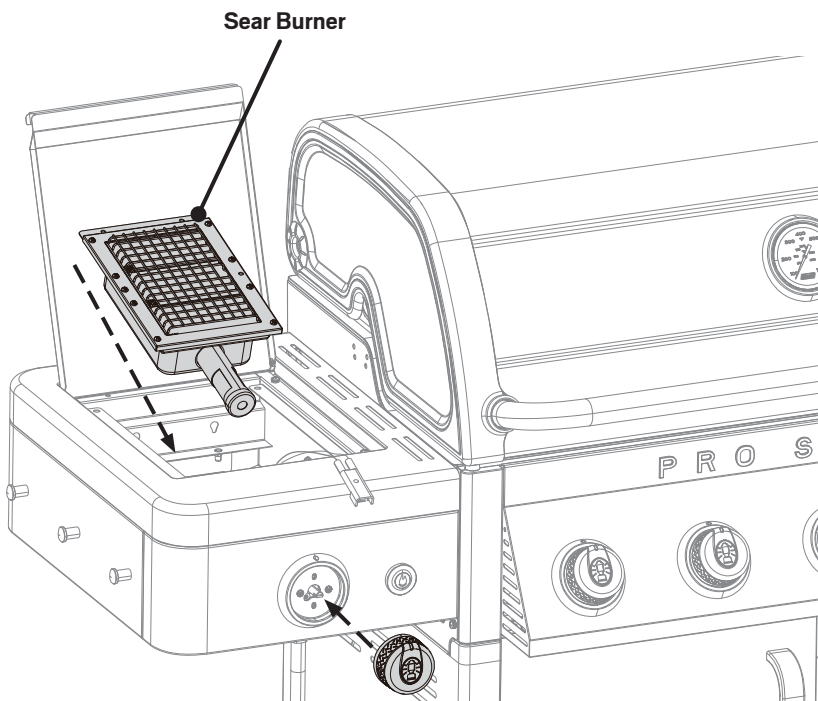


Valve screwdriver



7

Reassemble the sear burner and control knob.

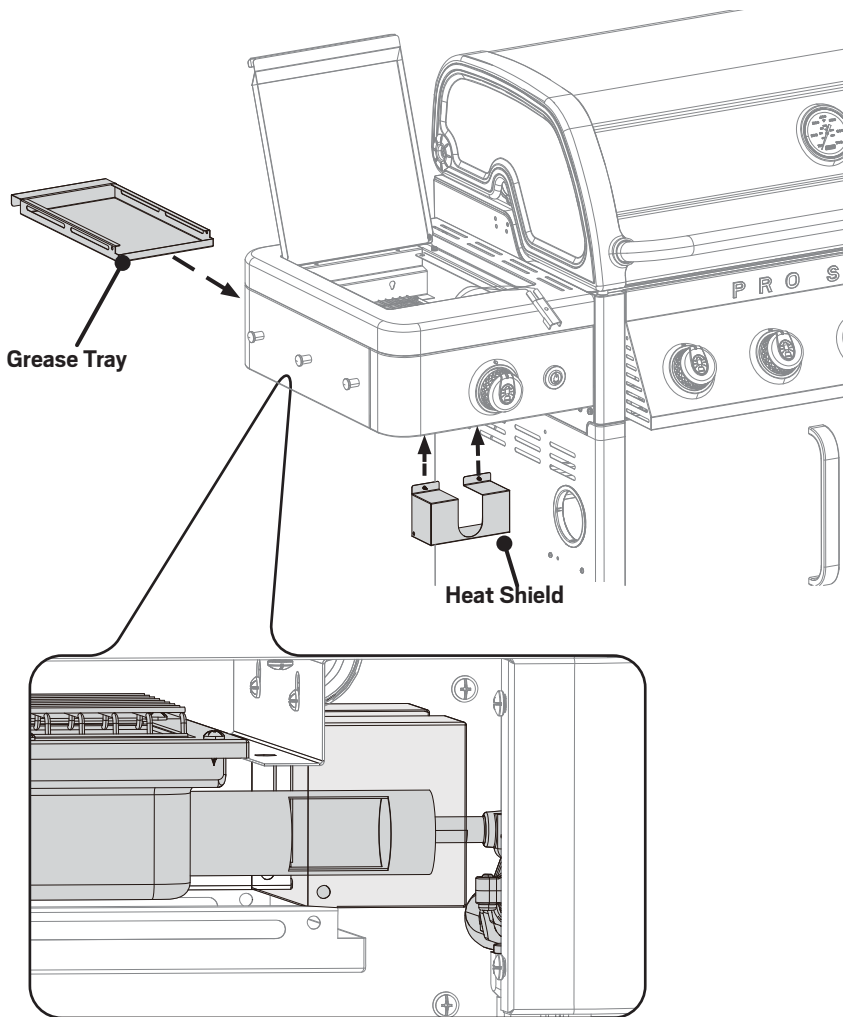


INFRARED SEAR BURNER CONVERSION



8

Reassemble the sear burner heat shield and grease tray.



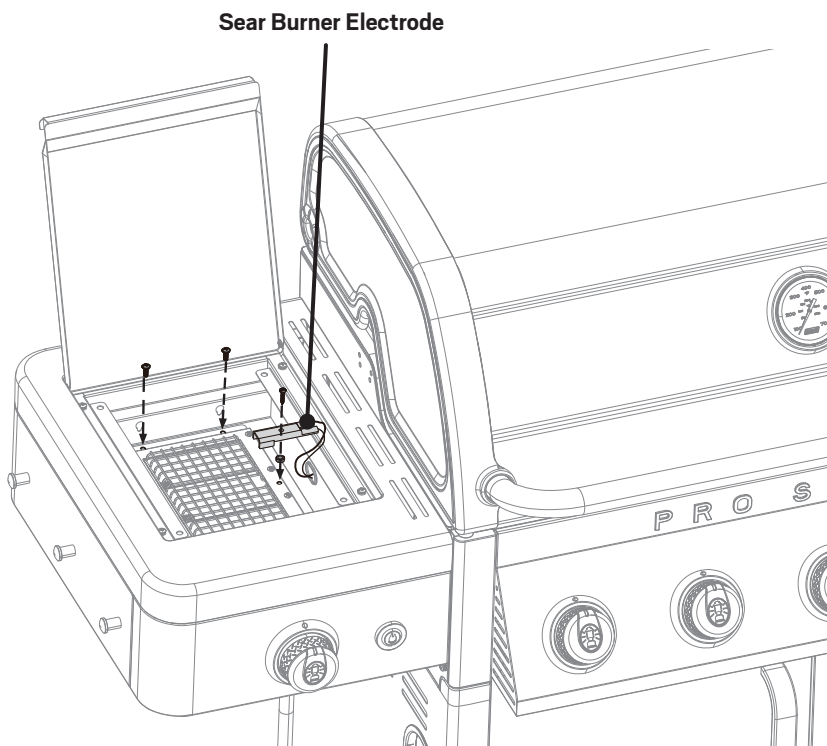


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INFRARED SEAR BURNER CONVERSION

9

Reattach the sear burner electrode.

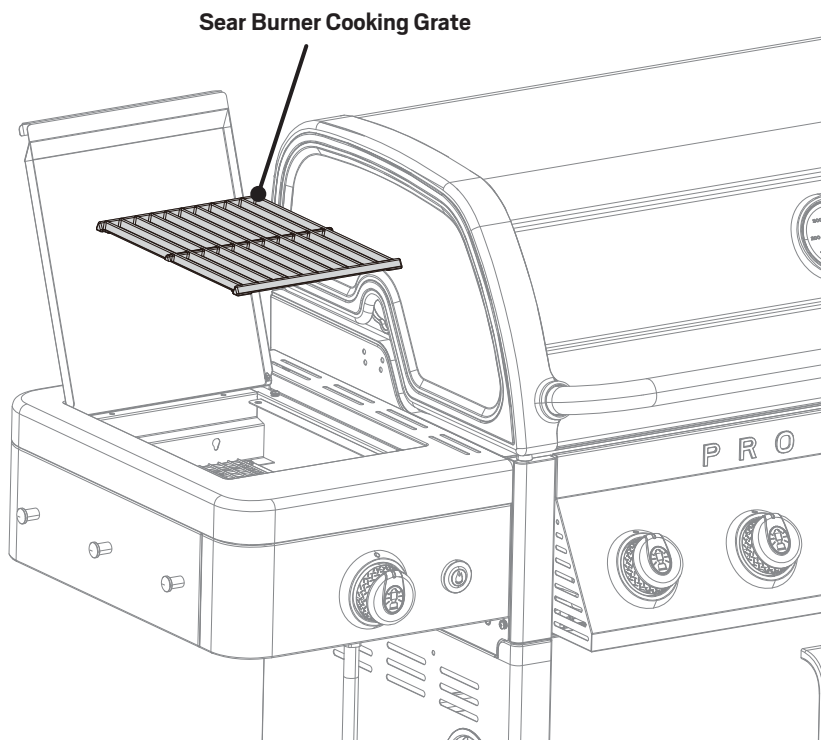


INFRARED SEAR BURNER CONVERSION



10

Reassemble the sear burner cooking grate





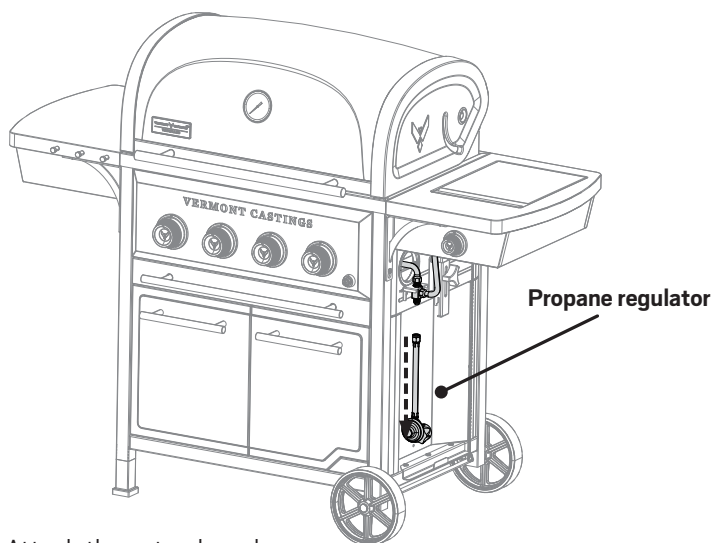
**NATURAL GAS CONNECTION
- SEE PAGE 93**



1

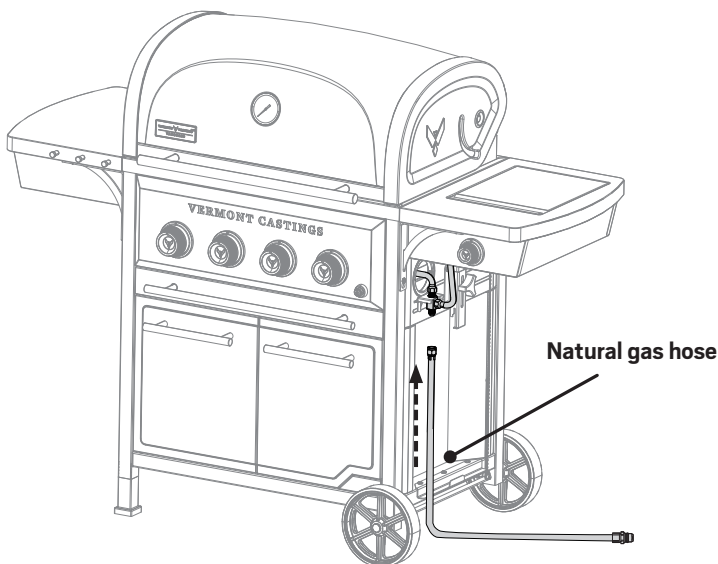
CONNECTING THE NATURAL GAS HOSE

Use a **#17** and **#19** wrench to remove the regulator, or use an adjustable wrench.



2

Attach the natural gas hose.



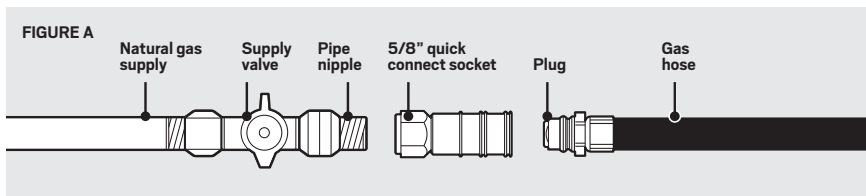


3

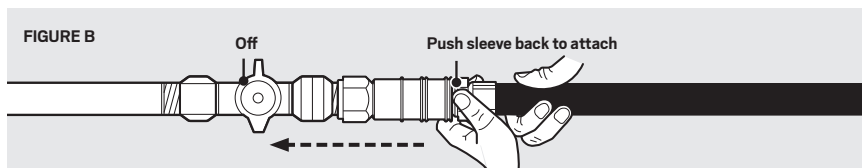
CONNECTING YOUR BARBECUE TO THE NATURAL GAS SOURCE

Coat pipe nipple with gas resistant teflon tape or pipe dope. Tighten quick-disconnect coupling onto pipe nipple that leads to natural gas supply (**FIGURE A**).

With the natural gas supply valve “OFF”, connect the natural gas hose to the quick connect socket. Push the sleeve back on the quick connect socket (**FIGURE B**) and insert the plug until the sleeve snaps forward, locking the



plug into the quick connect socket. Be sure to leak test these connections prior to use.



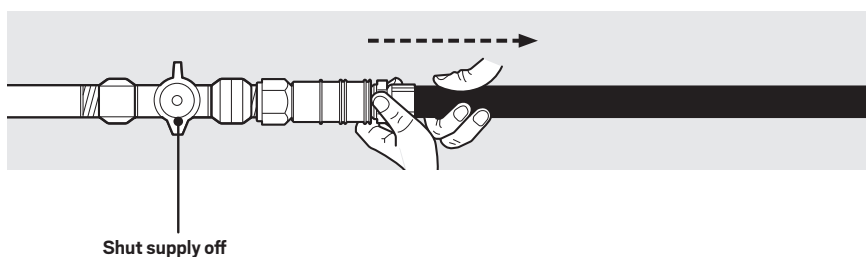


4

DISCONNECTING YOUR BARBECUE FROM THE NATURAL GAS SOURCE

1. Turn natural gas supply valve "OFF".
2. To disconnect, push sleeve back and pull plug out of sleeve.

⚠ CAUTION: The natural gas source should always be in the "OFF" or in closed position when the barbecue is not in use.



5

LEAK TEST AND SAFETY CHECK

⚠ IMPORTANT!

Before using your barbecue, review the SAFE USE & CARE MANUAL that came with your barbecue for important safety instructions, including; performing a Leak Test and the Burner Flame Check.

⚠ ATTENTION!

PERFORM A LEAK TEST on all connections as outlined in your barbecue's Safe Use and Care Manual. Leak checks should be performed on all new barbecues even if assembled by an assembler or gas technician. Leak checks should be performed frequently thereafter.



NOTES

NATURAL GAS CONVERSION KIT



Visit us online at www.cvsbbq.com to view
our conversion video and access to other information.

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