



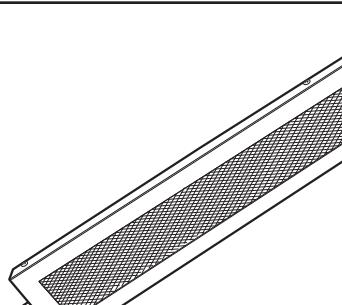
**Summit®**

# IR BURNER ASSEMBLY REPLACEMENT INSTRUCTIONS

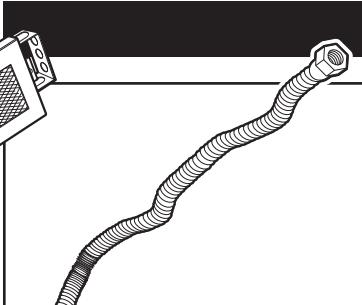
**THIS PROCEDURE MUST BE PERFORMED BY AN AUTHORIZED  
WEBER-STEPHEN PRODUCTS CO. SERVICE TECHNICIAN.  
(ANY UNAUTHORIZED REPAIRS WILL VOID WARRANTY PROTECTION).**

**⚠ WARNING: GENUINE WEBER-STEPHEN REPLACEMENT PARTS MUST BE USED FOR ANY REPAIR OR REPLACEMENT. YOUR ACTIONS, IF YOU FAIL TO FOLLOW THIS PRODUCT WARNING, MAY CAUSE A FIRE, AN EXPLOSION, OR STRUCTURAL FAILURE RESULTING IN SERIOUS PERSONAL INJURY OR DEATH AS WELL AS DAMAGE TO PROPERTY. (WILL VOID ALL WARRANTY PROTECTION.)**

**⚠ DANGER: BEFORE PERFORMING ANY WORK MAKE SURE THE GAS SUPPLY IS TURNED OFF AT THE SOURCE. FAILURE TO FOLLOW DANGERS, WARNINGS AND CAUTIONS CONTAINED IN THIS INSTRUCTION SHEET MAY CAUSE A FIRE OR AN EXPLOSION RESULTING IN SERIOUS PERSONAL INJURY OR DEATH AS WELL AS DAMAGE TO PROPERTY.**

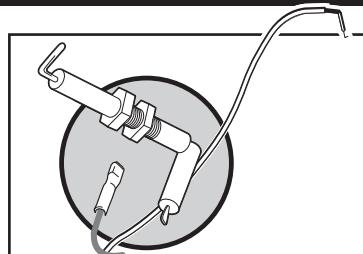


**SEE STEP #3:  
IR BURNER  
REPLACEMENT**

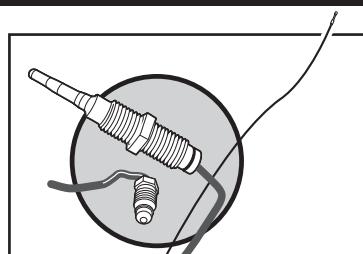


**SEE STEP #10:  
IR BURNER GAS LINE  
REPLACEMENT**

## IR BURNER COMPONENTS



**SEE STEP #11:  
IR BURNER IGNITER  
REPLACEMENT**



**SEE STEP #12:  
THERMOCOUPLE  
REPLACEMENT**

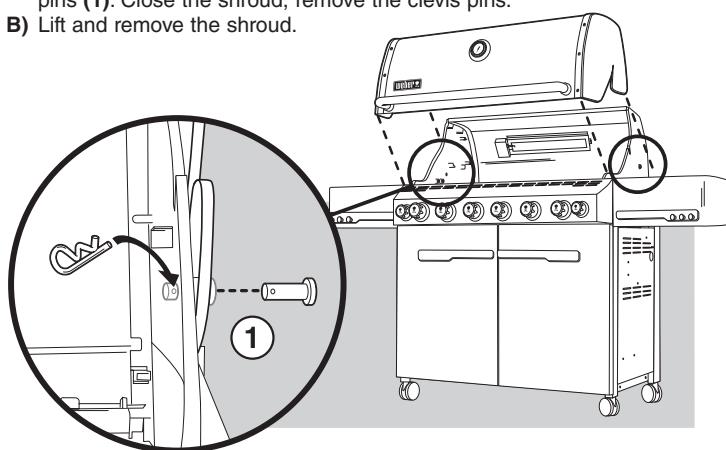
**1**

## SHROUD REMOVAL

**⚠ BEFORE STARTING:** Make sure the casters are locked to prevent the grill from moving while removing the cookbox assembly.

### Shroud Assembly Removal:

- A) Lift the shroud to the open position, remove the cotter pins out of the clevis pins (1). Close the shroud, remove the clevis pins.
- B) Lift and remove the shroud.



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## IR BURNER COVER REMOVAL

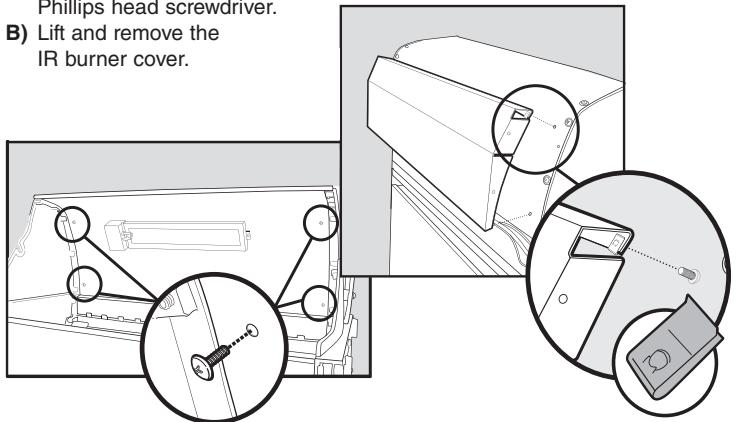
### TOOLS NEEDED:



- PHILLIPS

### Infrared Burner Cover Removal:

- A) Remove the four (4) screws from the inside of the cookbox, using a Phillips head screwdriver.
- B) Lift and remove the IR burner cover.



*NOTE: The grills illustrated may have slight differences than the model purchased.*

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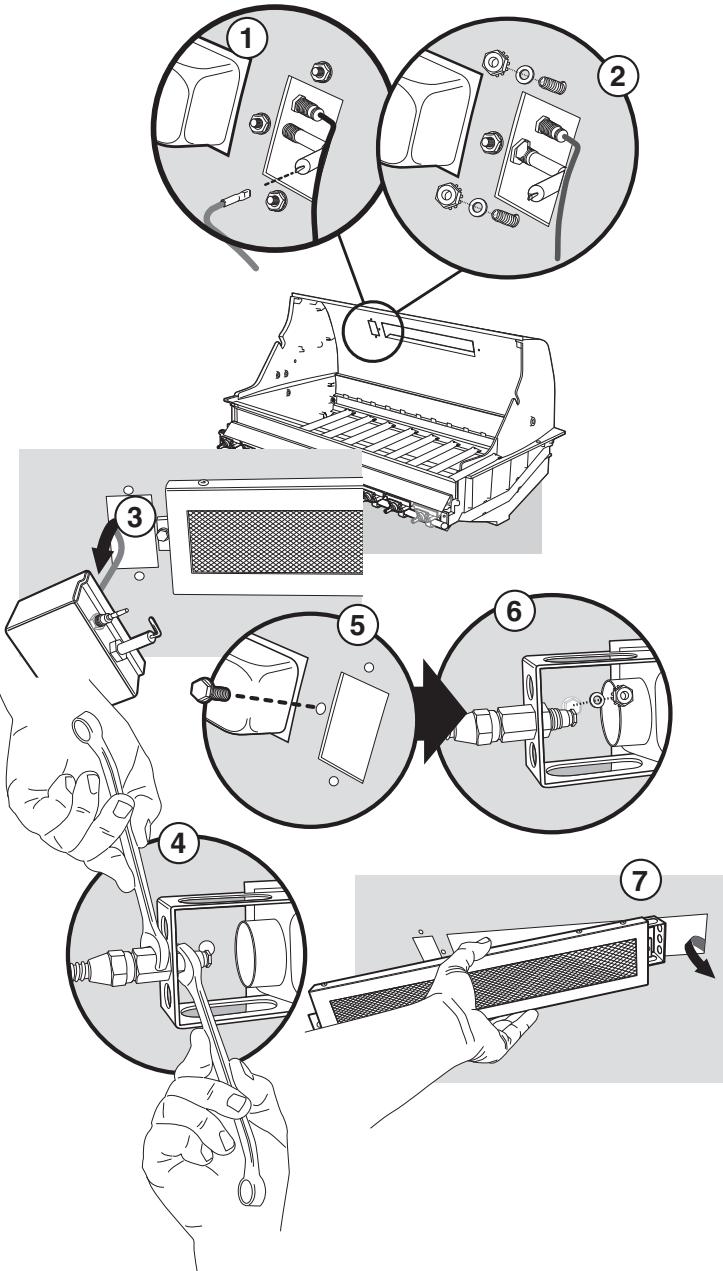
## TOOLS NEEDED:



- 5/16", 3/8",  
9/16"

## Infrared Burner Removal:

- A) Disconnect the IR burner igniter wire from the electrode (1) on the IR burner box located on the backside of the cookbox assembly. Allow the igniter wire to rest on the back of the cookbox assembly.
- B) Remove the two (2) nuts and washers from the IR burner box (2) using a 3/8" wrench. Slide the IR burner box into the inside of the cookbox assembly (3). Allow the IR burner box to rest inside the cookbox assembly.
- C) Remove the IR orifice and gas line from the back of IR burner (4). Use two wrenches; one to hold the IR orifice in place, and a 9/16" wrench to loosen the IR orifice nut from the IR burner.
- If the orifice needs to be replaced: Disconnect the Gas line first, then remove the nut holding the orifice to the IR burner.**
- D) Remove the two (2) nuts (5) using a 3/8" wrench and bolts (6) using a 5/16" wrench, from both ends of the IR burner holding the IR burner to the cookbox assembly.
- E) Slide the IR burner out from the inside of the cookbox assembly (7).



**⚠ FOLLOW INSTALLATION STEP FOR INSTALLING A NEW IR BURNER ONLY, AND GRILL RE-ASSEMBLY.**

## IR BURNER COMPONENTS INSTALLATION

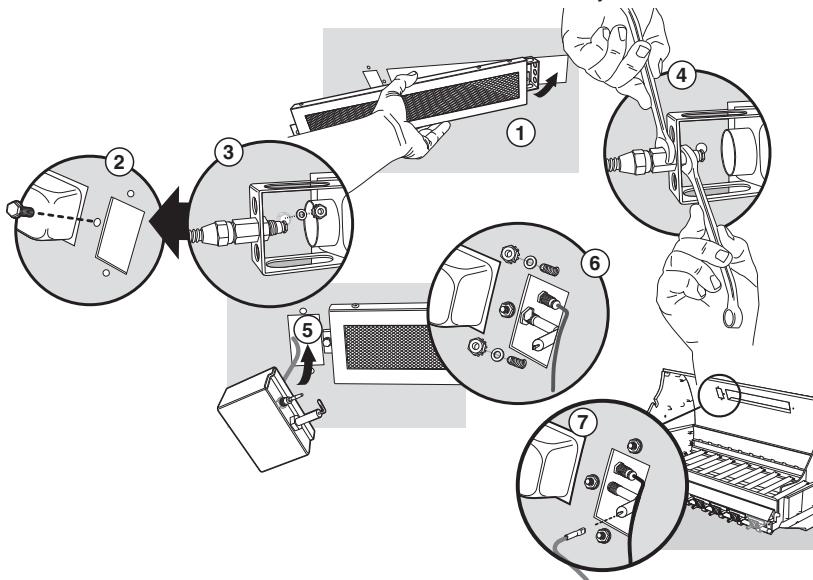
## TOOLS NEEDED:



- 5/16", 3/8",  
9/16"

## Infrared Burner Installation:

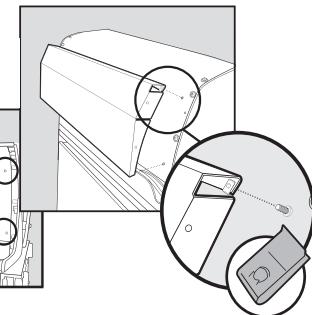
- A) Slide the infrared burner unit into the opening in the cookbox assembly (1).
- B) Install the two (2) nuts (2) and bolts (3) into both ends of the IR burner unit to secure the IR burner unit to the cookbox assembly.
- C) Reconnect the IR burner orifice and gas line to the back of IR burner unit (4). Use two wrenches; one to hold the IR orifice in place, and a 9/16" wrench to tighten the nut on the IR burner orifice to the IR burner unit.
- D) Slide in the IR burner box into the inside of the cookbox assembly (5). Reconnect the two (2) nuts and washers onto the IR burner box (6) to secure the IR box to the cookbox assembly. (Use a 5/16" & 3/8" wrench)
- E) Reconnect the IR burner igniter wire to the electrode (7) on the IR burner box located on the backside of the cookbox assembly.



**⚠ FOLLOW LEAK CHECK STEP BEFORE INSTALLING THE IR BURNER COVER AND SHROUD ASSEMBLY, THEN FINISH THE GRILL RE-ASSEMBLY.**

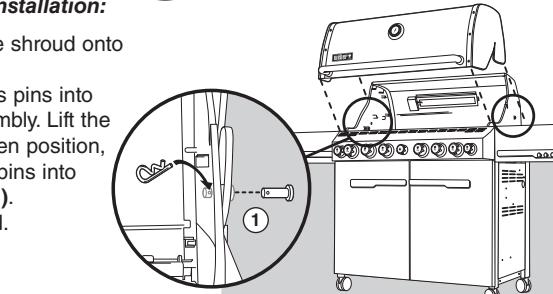
## Infrared Burner Cover Installation:

- A) Slide the IR burner cover over the IR burner unit, IR gas line, thermocouple and igniter wire. Install the four (4) screws in the inside of the cookbox to secure the IR cover to the cookbox assembly using a Phillips head screwdriver.



## Shroud Assembly Installation:

- A) Lift and place the shroud onto the cookbox.
- B) Slide in the clevis pins into the shroud assembly. Lift the shroud to the open position, install the cotter pins into the clevis pins (1). Close the shroud.





## FOLLOWING STEPS ARE FOR REMOVING THE IR BURNER ASSEMBLY COMPONENTS:

- IR BURNER GAS LINE: STEP 10
- IGNITER WIRE: STEP 11
- THERMOCOUPLE: STEP 12

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## CONTROL PANEL REMOVAL

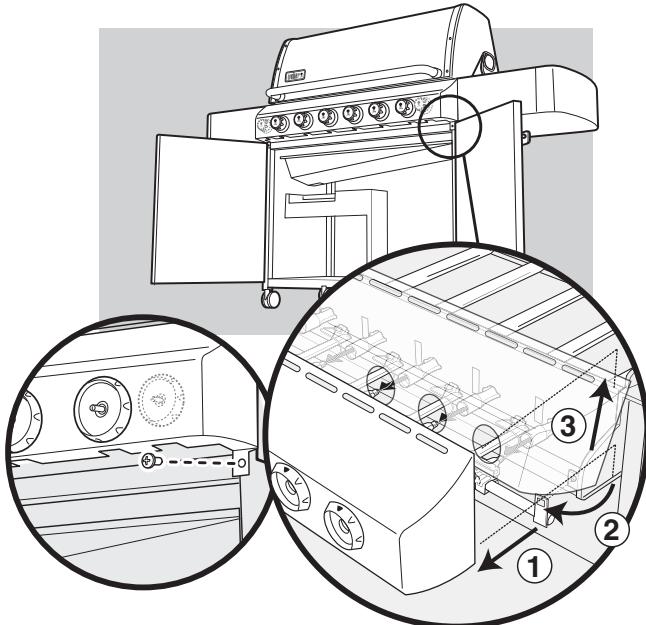
COMPLETE STEP 1: SHROUD REMOVAL AND STEP 2: IR BURNER COVER REMOVAL BEFORE STARTING TO REMOVE THE CONTROL PANEL.

**TOOLS NEEDED:** - PHILLIPS

MAKE SURE ALL CONTROL KNOBS ARE SET TO THE "OFF" POSITION BEFORE STARTING TO REMOVE THE CONTROL PANEL.

### Control Panel Removal:

- Remove ALL of the control knobs.
- Open both doors: Remove the two (2) screws from the underside of control panel with a Phillips head screwdriver.
- Gently pull the bottom of the control panel forward (1) at the same time tilt (2) and lift (3) the control panel off the hanger brackets and away from the grill. This will allow the control panel to clear the manifold valve assemblies.
- Slide the control panel out and away from the grill.



**IMPORTANT:** To do a proper leak check the control panel must be removed. After checking for leaks replace the control panel and control knobs.

**WARNING:** Make sure that all control knobs are turned to the OFF position before reconnecting the gas supply and operating the grill.

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## COOKBOX COMPONENTS REMOVAL

### Grates and Flavorizer® Bars Removal:

- Remove the cooking grates & Flavorizer® bars (not pictured).
- 450 AND 650 MODELS:** Remove the smoker box, rotisserie motor (not pictured).

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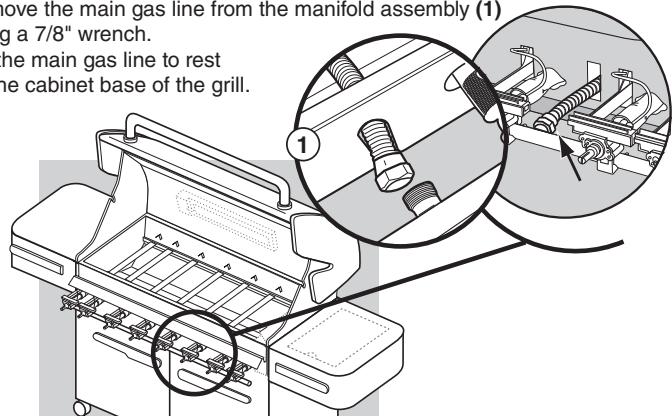
## MAIN GAS LINE REMOVAL

**TOOLS NEEDED:**



### Main Gas Line Removal:

- Remove the main gas line from the manifold assembly (1) using a 7/8" wrench.
- Let the main gas line to rest on the cabinet base of the grill.



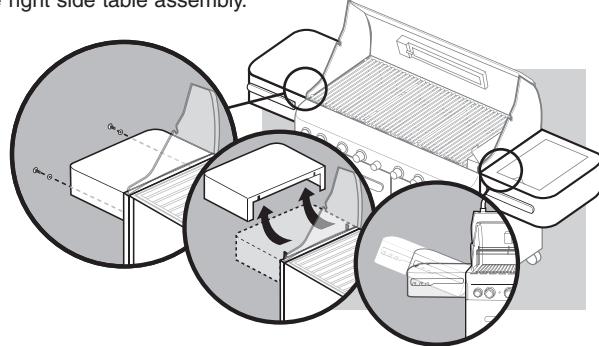
7

## SIDE TABLES REMOVAL

**TOOLS NEEDED:** - PHILLIPS

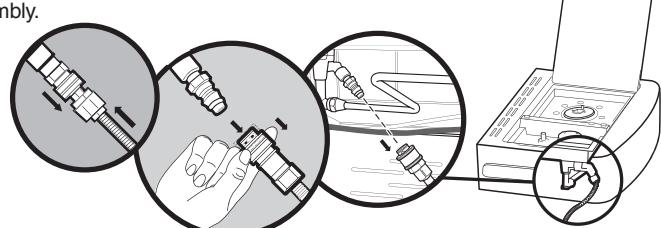
### Left Side Table Removal:

- Remove the two (2) screws and washers from the underside of the left side table and remove left side table assembly, using a Phillips head screwdriver.
- If your grill doesn't have a right side burner assembly: Remove the two (2) screws and washers from the underside of the right side table and remove right side table assembly.



### Right Side Burner Assembly Removal (450 & 650 MODELS):

- Lift the side burner lid. Remove side burner components from the top of the side burner assembly.
- Remove quick-disconnect gas line from the side burner control valve assembly.
- Remove the two (2) screws and washers from the underside of the right side burner table. Remove side burner table assembly.



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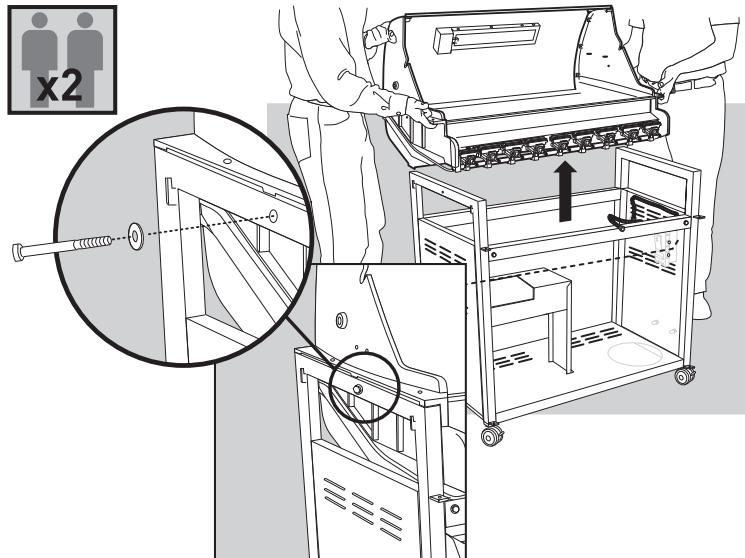
## COOKBOX REMOVAL

**TOOLS NEEDED:**

- 7/16"

**Cookbox Assembly Removal:**

- A) Remove the two (2) cookbox bolts, nuts and washers from both sides of the frame, using a 7/16" wrench. The cookbox nut is located inside of cookbox (not pictured).  
 B) Lift out the whole cookbox assembly from the frame.  
**Make sure the manifold does not catch on the frame when removing the cookbox assembly.**



- PLACE THE ENTIRE COOKBOX ASSEMBLY ON A SURFACE WHERE YOU CAN ACCESS ALL OF THE COMPONENTS EASILY.**

FOLLOWING STEPS ARE FOR REMOVING THE IR BURNER ASSEMBLY COMPONENTS.

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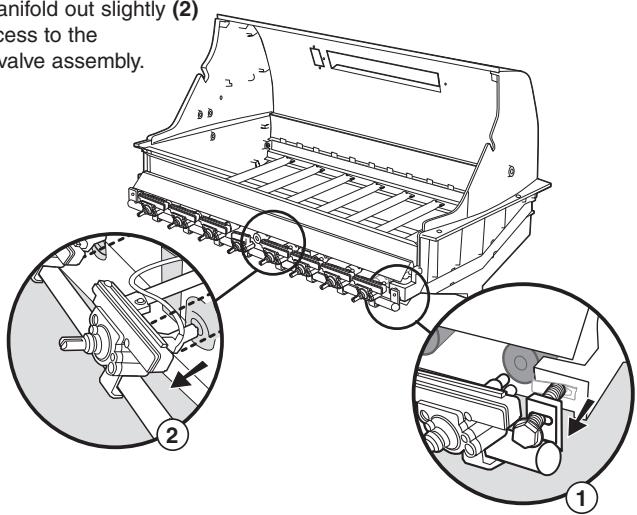
## LOOSEN MANIFOLD ASSEMBLY

**TOOLS NEEDED:**

- 3/8"

**Manifold Assembly:**

- A) Loosen the bolts but do not remove (1) from both sides of the cookbox frame (using a 3/8" wrench or socket) to release the manifold from the cookbox assembly.  
 B) Pull the manifold out slightly (2) to gain access to the IR burner valve assembly.



- AFTER LOOSENING THE MANIFOLD GO TO THE STEP TO REMOVE THE APPROPRIATE IR BURNER COMPONENT.

THEN GO TO THE IR BURNER INSTALLATION STEP FOR GRILL RE-ASSEMBLY

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## IR BURNER GAS LINE REMOVAL

**TOOLS NEEDED:**

- 5/16", 9/16"

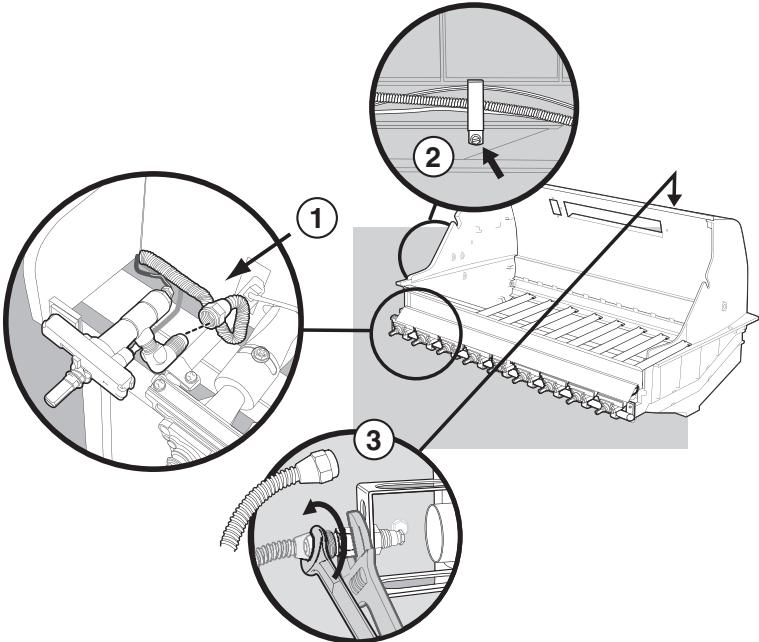


- ADJUSTABLE

**IR Burner Valve Assembly Removal:**

- A) Remove the IR burner gas line (1) from the IR burner valve assembly (Use a 9/16" wrench). Slide the IR burner gas line away from the manifold assembly.  
 B) Disconnect the two (2) hose and wire retaining clips (2) from the left side of the cookbox holding on the IR burner igniter, thermocouple and IR burner gas line to the cookbox assembly (Use a 5/16" wrench).  
 C) Remove the IR gas line from the back of IR burner unit (3). Use two wrenches one to hold the IR orifice in place and a 9/16" wrench to release the IR gas line from the IR burner unit.  
**If the orifice needs to be replaced: Disconnect the Gas line first, then remove the nut holding the orifice to the IR burner.**  
 D) Slide the IR burner gas line out from the cookbox assembly.

Keep the old IR burner gas line for a template to follow when installing the new IR burner gas line. Take the new IR burner gas line and form it to look like the old IR burner gas line before installing onto the cookbox assembly.



IF ONLY REPLACING IR BURNER GAS LINE, FOLLOW INSTALLATION STEP TO REINSTALL THE IR BURNER COMPONENTS AND COOKBOX ASSEMBLY.

THEN FOLLOW THE CHECK FOR GAS LEAKS STEP.

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## IR BURNER IGNITER REMOVAL

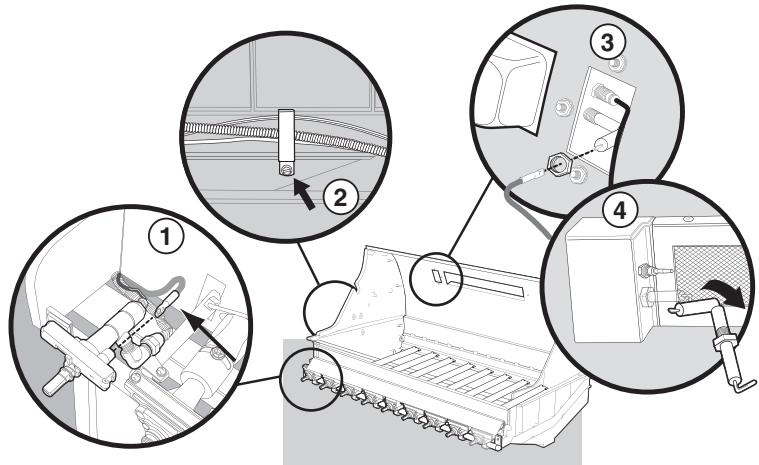
TOOLS NEEDED:



- 5/16", 9/16"

### IR Burner Igniter Assembly Removal:

- A) Disconnect IR burner igniter wire (1) from the IR burner valve assembly. Slide the IR burner igniter wire away from the manifold assembly.
- B) Disconnect the hose and wire retaining clips (2) from the left side of the cookbox holding on the IR burner igniter, thermocouple and IR burner hose to the cookbox assembly (Use a 5/16" wrench).
- C) Disconnect the IR burner igniter wire from the electrode (3).
- D) Remove the electrode by removing the nut (3) from the back of IR burner box (Use a 9/16" wrench). Slide the electrode out from the inside of the cookbox and away from the cookbox assembly (4).



**IF ONLY REPLACING IR BURNER IGNITER AND IGNITER WIRE, FOLLOW INSTALLATION STEP TO REINSTALL THE IR BURNER COMPONENTS AND COOKBOX ASSEMBLY.**

**THEN FOLLOW THE CHECK FOR GAS LEAKS STEP.**

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## THERMOCUPLE REMOVAL

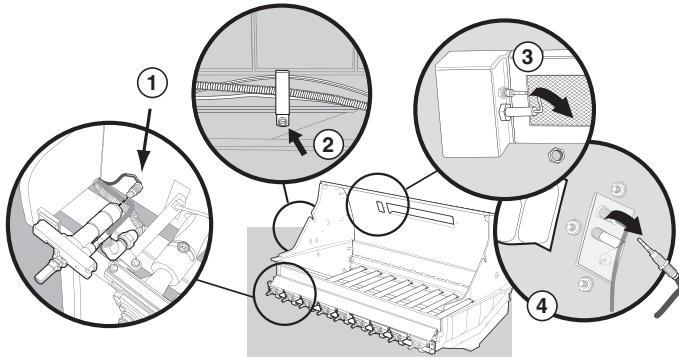
TOOLS NEEDED:



- 5/16", 8 mm,  
10 mm

### IR Burner Thermocouple Removal:

- A) Disconnect IR burner thermocouple (1) from the IR burner valve assembly (use a 8 mm wrench). Slide the IR burner thermocouple wire away from the manifold assembly.
  - B) Disconnect the hose and wire retaining clips (2) from the left side of the cookbox holding on the IR burner igniter wire, thermocouple and IR burner hose to the cookbox assembly.
  - C) Disconnect the IR burner thermocouple from the IR burner box by removing the thermocouple nut (3) from the inside of the cookbox assembly. (Use a 10 mm wrench)
  - D) Remove the thermocouple from the back of IR Box (4). Slide the thermocouple out and away from the cookbox assembly.
- Keep the old IR burner thermocouple for a template to follow when installing the new IR burner thermocouple. Take the new IR burner thermocouple and form it to look like the old IR burner thermocouple before installing onto the cookbox assembly.**



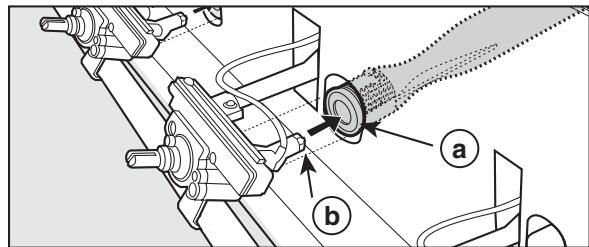
**IF ONLY REPLACING THE THERMOCUPLE, FOLLOW INSTALLATION STEP TO REINSTALL THE IR BURNER COMPONENTS AND COOKBOX ASSEMBLY.**

**THEN FOLLOW THE CHECK FOR GAS LEAKS STEP.**

## IR BURNER COMPONENTS & COOKBOX INSTALLATION

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### MANIFOLD ASSEMBLY INSTALLATION



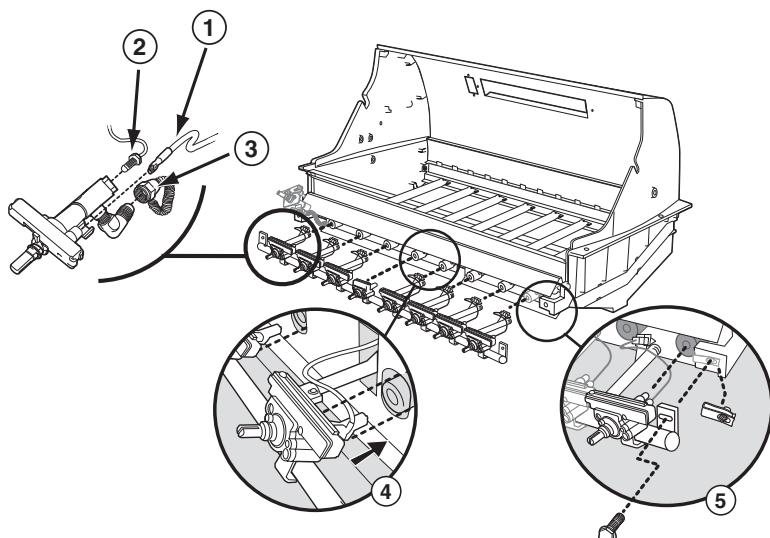
**CAUTION: When reinstalling the manifold assembly, the burner tube openings (a) must be positioned properly over the valve orifices (b).**

#### Infrared Burner Assembly Installation:

- A) Connect the IR burner igniter wire (1), thermocouple (using an 8 mm wrench) (2) and the IR burner gas line (using a 9/16" wrench) (3) to the IR burner valve assembly located at the far left of manifold.
- B) Fully tighten all of the connections to the IR burner assembly.

#### Manifold Assembly Installation:

- A) Slide the manifold valve assemblies into the burner tube openings (4).
  - B) Tighten the two (2) bolts (5) on both sides of the frame (using just your fingers) to secure the manifold to the cookbox assembly.
- Do not fully tighten the two (2) bolts at this time. Tighten just enough so the burner tubes do not slip out of either the back slots in the cookbox or the manifold valve stems.**



**⚠ VISUAL CHECK: Make sure that all of the manifold valves are positioned into all of the burner tubes.**

**⚠ VISUAL CHECK: Make sure the slotted end of the burner tubes are properly aligned into the slots on the backside of the cookbox.**

- C) Fully tighten the two (2) bolts on both sides of the cookbox frame (using a 3/8" wrench) to secure the manifold to the cookbox assembly.

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## IR BURNER COMPONENTS INSTALLATION

### TOOLS NEEDED:

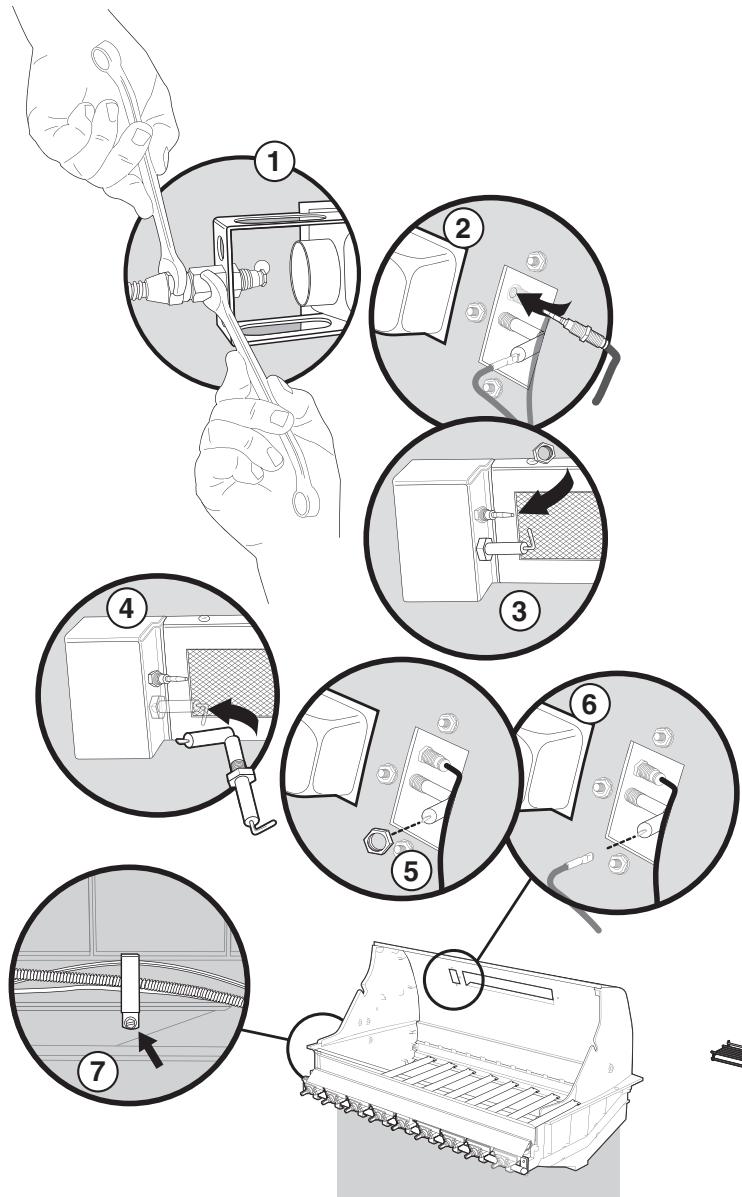


- 3/8", 9/16",  
10 mm

#### IR Burner Assembly Installation:

##### COMPLETE THIS STEP FOR ALL IR BURNER UNIT COMPONENT CONNECTIONS.

- A) Connect the IR burner gas line to the back of IR burner unit (1). Use two wrenches one to hold the IR orifice in place and a 9/16" wrench to connect the IR burner gas line to the IR burner unit.
- If the orifice was replaced: Connect the orifice to the IR burner then connect the Gas line to the orifice.**
- B) Slide the thermocouple into the IR burner box (2) from the rear of the cookbox assembly. Connect the IR burner thermocouple to the IR burner box by installing the thermocouple nut (3) from the inside of the cookbox, (using a 10 mm wrench).
- C) Slide the igniter electrode into the IR burner box (4) from the inside of the cookbox. Connect the IR burner electrode to the IR burner box by installing the electrode nut (5) from the back of the cookbox, (using a 9/16" wrench).
- D) Connect the IR burner igniter wire to the electrode (6) on the IR burner box located on the back of the cookbox assembly.
- E) Reconnect the two (2) hose and wire retaining clips (7) to the left side of the cookbox to secure the IR burner igniter, thermocouple and IR burner hose to the cookbox assembly (Use a 3/8" wrench).



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## COOKBOX INSTALLATION

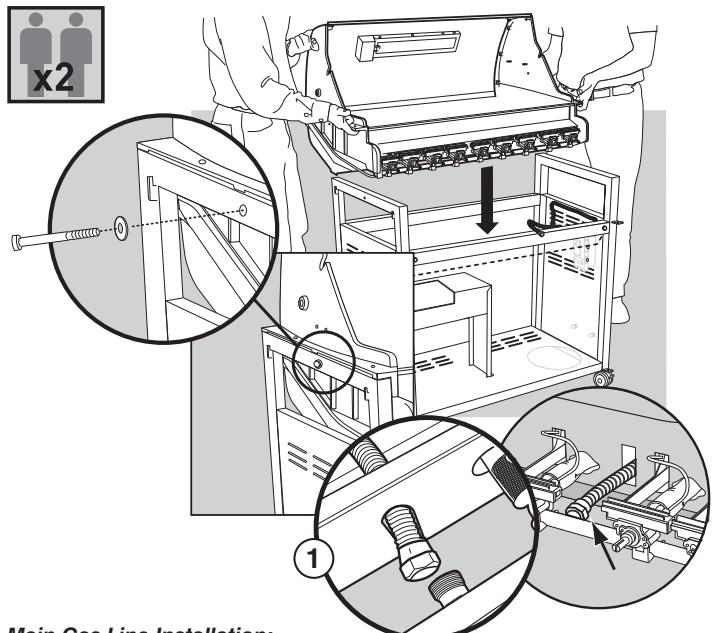
### TOOLS NEEDED:



- 7/16"

#### Cookbox Assembly Installation:

- A) Lift the whole cookbox assembly onto the frame assembly. **Make sure the manifold does not catch on frame when installing the cookbox unit.**
- B) Install the two (2) cookbox bolts, nuts and washers into both sides of the frame, using a 7/16" wrench. The cookbox nut is located inside of cookbox (not pictured).



#### Main Gas Line Installation:

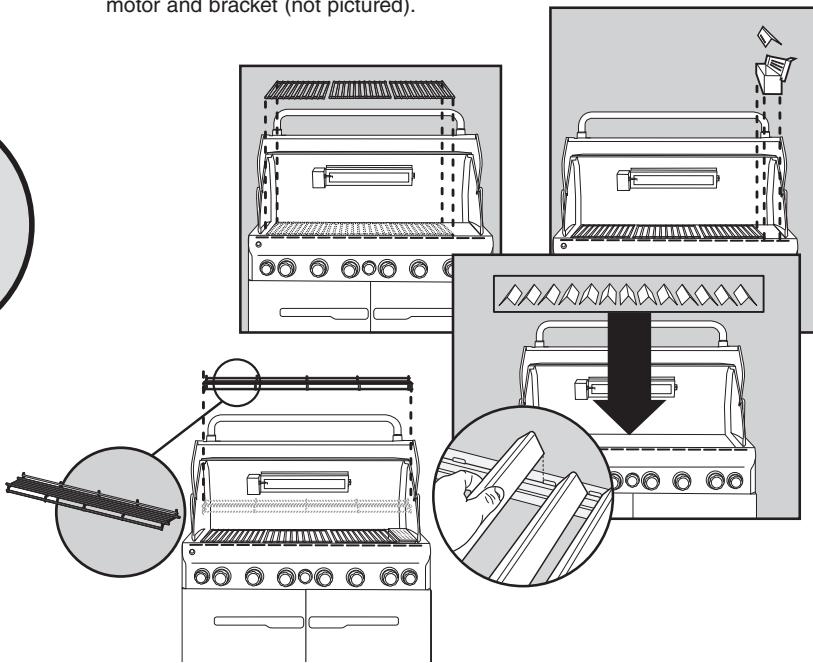
- A) Connect the main gas line (1) to the manifold assembly (using a 7/8" wrench).
- B) Fully tighten the main gas line connection.

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## COOKBOX COMPONENTS INSTALLATION

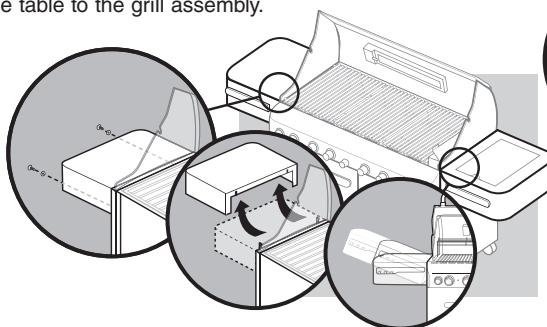
#### Grates and Flavorizer® Bars Installation:

- A) Install the cooking grates & Flavorizer® bars.
- B) 450 AND 650 MODELS:** Install the smoker box, rotisserie motor and bracket (not pictured).

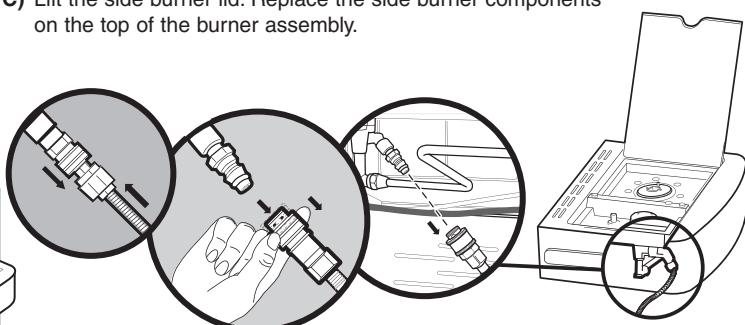


TOOLS NEEDED:  - PHILLIPS**Left Side Table Installation:**

- A) Install the two (2) screws and washers into the underside of the left side table assembly and secure the left side table to the grill assembly, using a Phillips head screwdriver.
- B) If your grill doesn't have a right side burner assembly: Install the two (2) screws and washers into the underside of the right side table assembly and secure the right side table to the grill assembly.

**Right Side Burner Assembly Installation (450 & 650 MODELS):**

- A) Install the two (2) screws and washers into the underside of the right side burner table assembly and secure the right side burner table to the grill assembly.
- B) Reconnect the quick-disconnect gas line to the side burner control valve assembly.
- C) Lift the side burner lid. Replace the side burner components on the top of the burner assembly.

**18 CHECK FOR GAS LEAKS****⚠ DANGER**

**Do not use an open flame to check for gas leaks. Be sure there are no sparks or open flames in the area while you check for leaks. Sparks or open flames will result in a fire or explosion, which can cause serious bodily injury or death and damage to property.**

You will need: a soap and water solution and a rag or brush to apply it.

- A) Mix soap and water.  
B) Turn on the cylinder valve.  
C) Check for leaks by wetting the fitting with the soap and water solution and watching for bubbles. If bubbles form, or if a bubble grows, there is a leak.  
D) When leak checking is complete, turn gas supply off at the source and rinse connections with water.

**Check:**

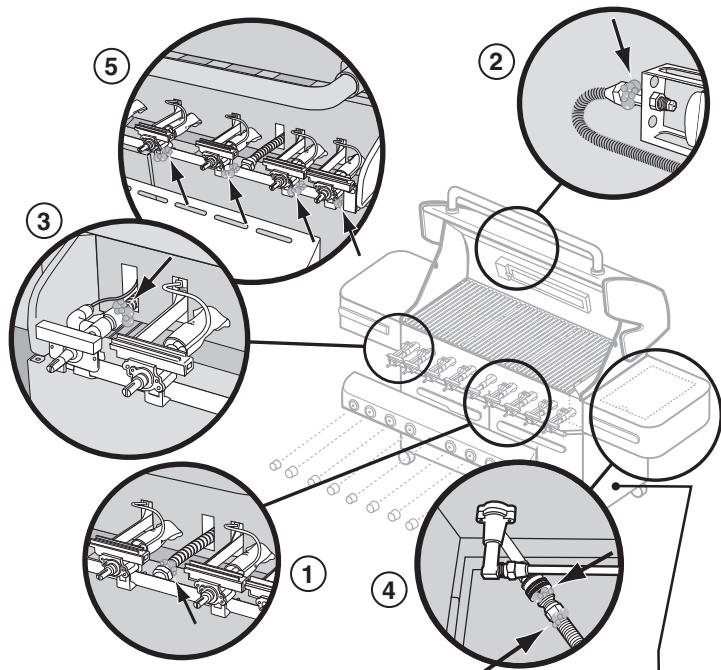
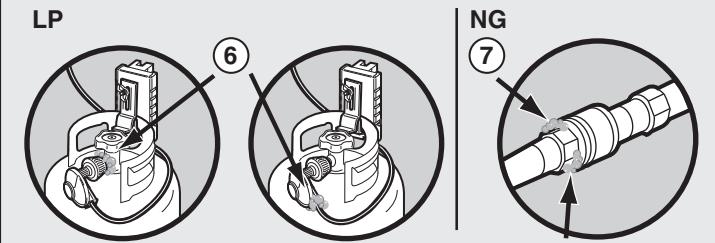
- A) Main gas line to manifold connection (1).  
B) IR burner gas line to orifice assembly (2).  
C) IR burner valve to gas line (3).

**⚠ DANGER: If there is a leak at connection (1, 2 or 3), retighten the fitting with a wrench and recheck for leaks with soap and water solution. If a leak persists, turn OFF the gas. DO NOT OPERATE THE GRILL.** Failure to follow dangers, warnings and cautions contained in this Instruction sheet may cause a fire or an explosion resulting in serious personal injury or death as well as damage to property. Contact the Customer Service Representative in your area using the contact information on our web site. Log onto [www.weber.com](http://www.weber.com).

- D) Quick-disconnect gas line connection (4).  
E) Valve to manifold connection (5).  
F) LP: Regulator connection (6).  
G) NG: Hose to quick-disconnect gas line connection (7).

**⚠ DANGER: If there is a leak at connection (4, 5, 6 or 7), turn off the gas. DO NOT OPERATE THE GRILL.** Failure to follow dangers, warnings and cautions contained in this Instruction sheet may cause a fire or an explosion resulting in serious personal injury or death as well as damage to property. Contact the Customer Service Representative in your area using the contact information on our web site. Log onto [www.weber.com](http://www.weber.com).

**⚠ IMPORTANT: To do a proper leak check the control panel must be removed. After checking for leaks replace the control panel and control knobs.**

**Gas Sources:**

When leak checks are complete, turn gas supply OFF at the source and rinse connections with water.

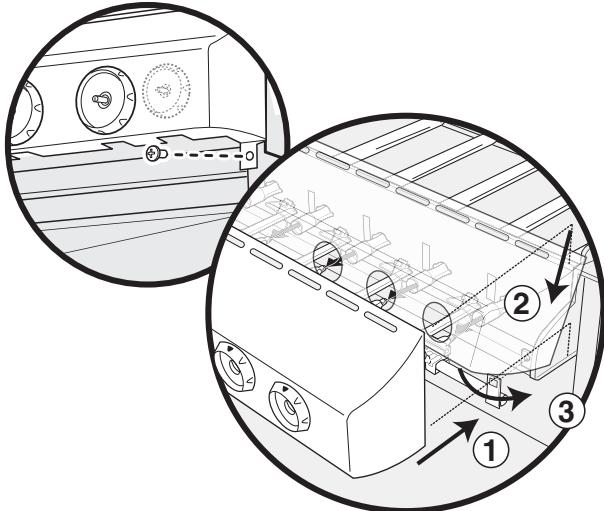
**⚠ FOLLOW LEAK CHECK STEP BEFORE INSTALLING THE CONTROL PANEL ASSEMBLY, IR BURNER COVER, SHROUD AND FINISHING THE GRILL RE-ASSEMBLY.**

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## CONTROL PANEL INSTALLATION

### Control Panel Installation:

- A) Slide the control panel onto the hanger brackets (2) on the front of the grill assembly. Gently slide the bottom portion of the control panel over the valve assemblies of the manifold (3).
- B) Install the two (2) screws into the underside of control panel with a Phillips head screwdriver.
- C) Close both doors: Install ALL of the control knobs.



**⚠ WARNING:** Make sure that all control knobs are turned to the OFF position before reconnecting the gas supply and operating the grill.

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## IR BURNER COVER INSTALLATION

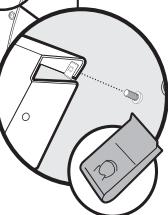
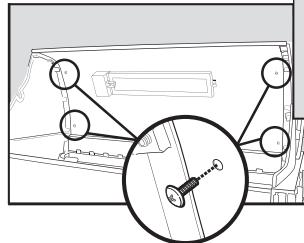
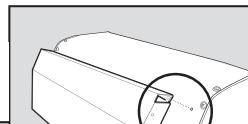
### TOOLS NEEDED:



- PHILLIPS

### Infrared Burner Cover Installation:

- A) Slide the IR burner cover over the IR burner unit, IR gas line, thermocouple and igniter wire. Install the four (4) screws in the inside of the cookbook to secure the IR cover to the cookbook assembly using a Phillips head screwdriver.

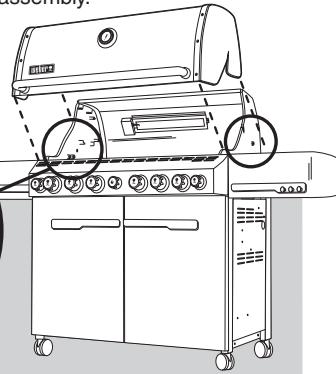
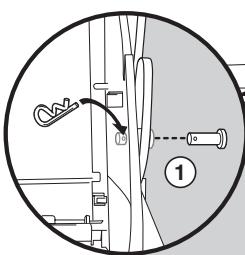


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## SHROUD INSTALLATION

### Shroud Assembly Installation:

- A) Lift and place the shroud on the cookbox.
- B) Slide in the clevis pins into the shroud assembly. Lift the shroud to the open position, install the cotter pins into the clevis pins (1). Close the shroud.



**⚠ PROPOSITION 65 WARNING: HANDLING THE BRASS MATERIAL ON THIS PRODUCT EXPOSES YOU TO LEAD, A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.**

**(WASH HANDS AFTER HANDLING THIS PRODUCT.)**

**⚠ WARNING:** All repairs to gas carrying, gas burning, igniter components or structural components must be performed by an authorized Weber-Stephen Products Co. service technician.

These parts may be gas carrying, gas burning components, igniter components or structural components. Please contact Weber-Stephen Products Co., Customer Service Department for Genuine Weber-Stephen Products Co. replacement part(s) information.

**⚠ WARNING:** Do not attempt to make any repair to gas carrying, gas burning, igniter components or structural components without contacting Weber-Stephen Products Co., Customer Service Department. Your actions, if you fail to follow this Product Warning, may cause a fire, an explosion, or structural failure resulting in serious personal injury or death as well as damage to property.



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