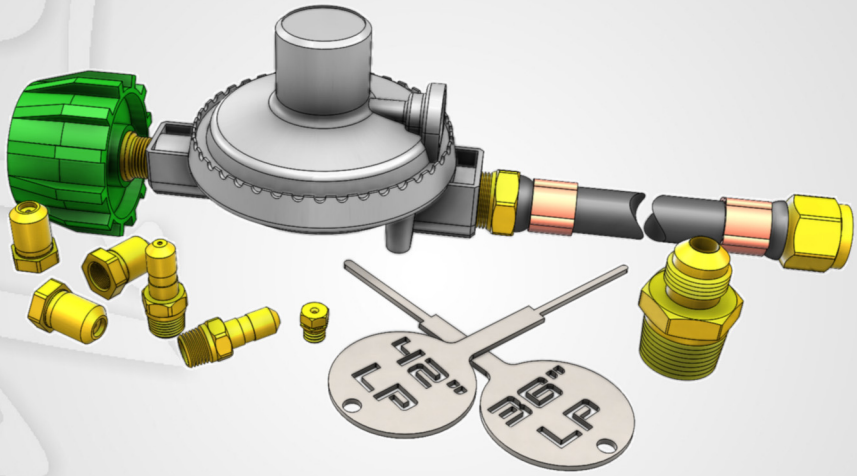
Alfresco™

Open Air Culinary Systems

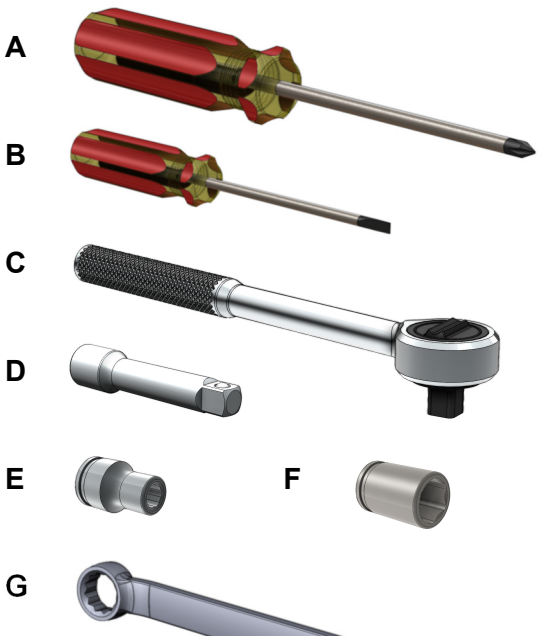


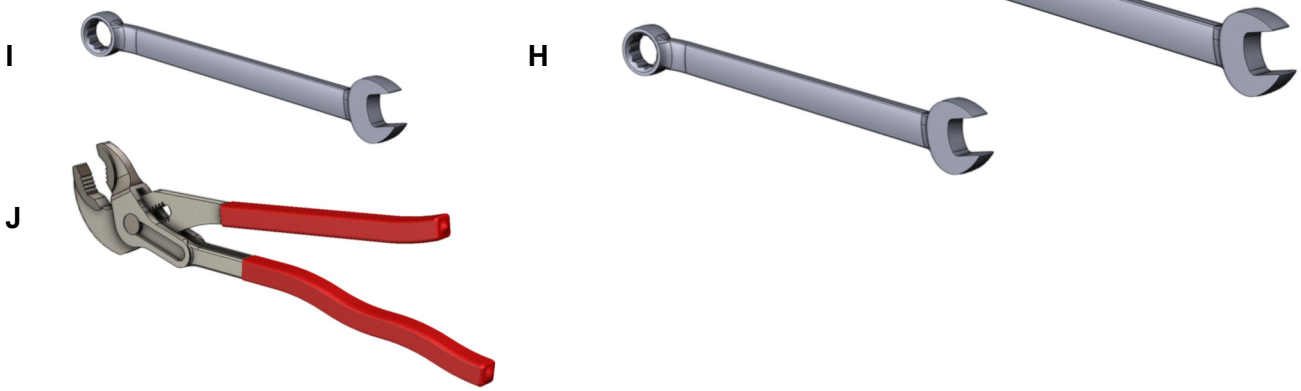
AIPG ORIFICE CONVERSION KITS & INSTALLATION MANUAL

UPDATED • 03/2026

AIPG ORIFICE CONVERSION KITS & INSTALLATION MANUAL

TOOLS REQUIRED TO INSTALL THIS KIT:	
ITEM	**DESCRIPTION:**
A	SCREWDRIVER - PHILIPS SIZE # 2 (PH2)
B	SCREWDRIVER - FLAT 1/8" WIDE x 3" LONG
C	RATCHETING SOCKET WRENCH
D	SOCKET EXTENSION DRIVER (3" LONG)
E	7 mm SOCKET
F	7/16 " SOCKET
G	7/8 " OPEN WRENCH (OR ADJUSTABLE)
H	9/16 " OPEN WRENCH (IF NEEDED)
I	1/2 " OPEN WRENCH
J	ADJUSTABLE PLIERS (IF NEEDED)





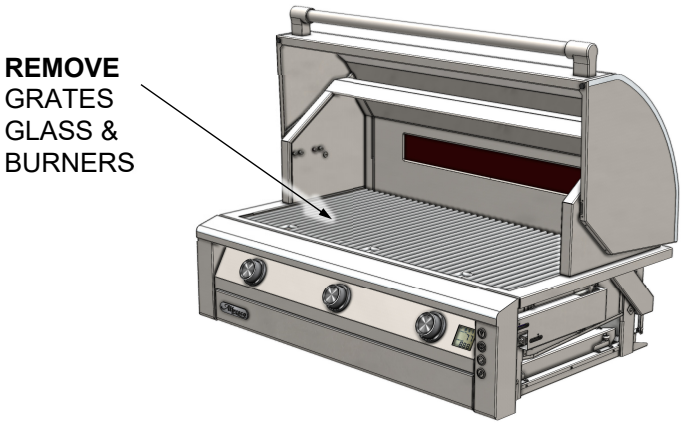
The installation of the kit requires the above mentioned standard tools and is a relatively simple process.

Refer to the following kit part numbers and drawings (Page 9 through 12) for a detail descriptions of each conversion kit components:

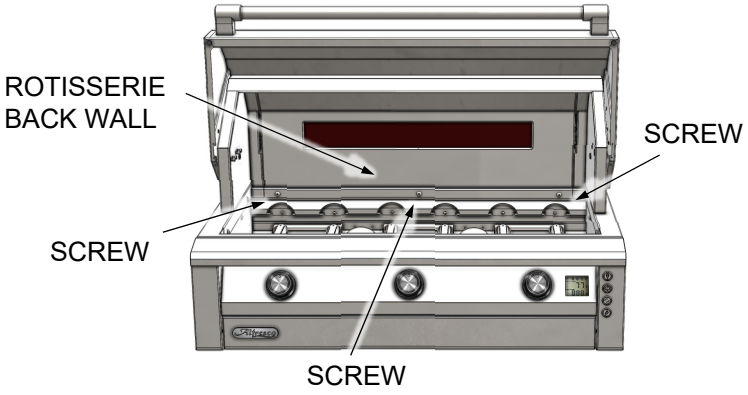
PART #	DESCRIPTION	KIT NAME
190-0092	AIPG-36 ORIFICE CONVERSION KIT - NG ► LP	AIPG-36CK/NG-LP
190-0093	AIPG-36 ORIFICE CONVERSION KIT - LP ► NG	AIPG-36CK/LP-NG
190-0094	AIPG-42 ORIFICE CONVERSION KIT - NG ► LP	AIPG-42CK/NG-LP
190-0095	AIPG-42 ORIFICE CONVERSION KIT - LP ► NG	AIPG-42CK/LP-NG

ROTISSERIE ORIFICE

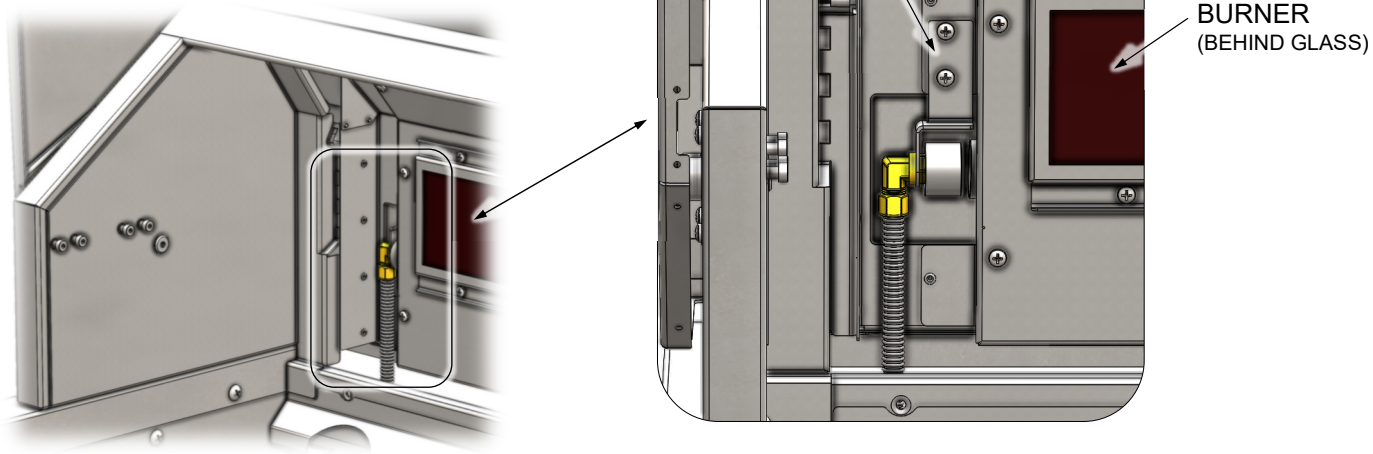
- Begin by disconnecting power to the unit.
- Disconnect / SHUT OFF the Gas fuel supply
- Open the front hood.
- Make sure a the Grill is cool to the touch in all surfaces inside and out.
- Remove all cooking surface grates.
- Remove all Thermaglass™ shields from burners.
- Remove all H-Burners and or Searzone™ burners.



- Remove the Rotisserie back wall by unscrewing the (3) truss head 1/4-20 screws at the bottom of the panel with a # 2 (PH2) Phillips screwdriver.
- **NOTE:** The Rotisserie panel sits a the bottom edge and is retained at the top by a groove is inserted in.
- Pull the Rotisserie panel from the bottom edge and slightly drop (push down) in order to dislodge the top edge of the rotisserie panel from the groove is inserted at the top.
- The Rotisserie panel should not be free and can be removed forward out of the cooking area.

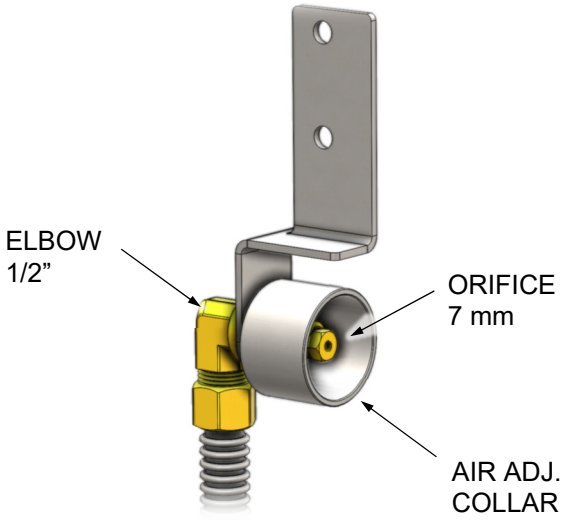


- The Rotisserie ORIFICE is located on the left side of the burner at the top of the corrugated flexible stainless piping.
- Remove (2) 10-32 pan head screws from the support bracket that holds the orifice assembly.
- FLEX the corrugated piping towards the front of the Grill to access the Rotisserie orifice.



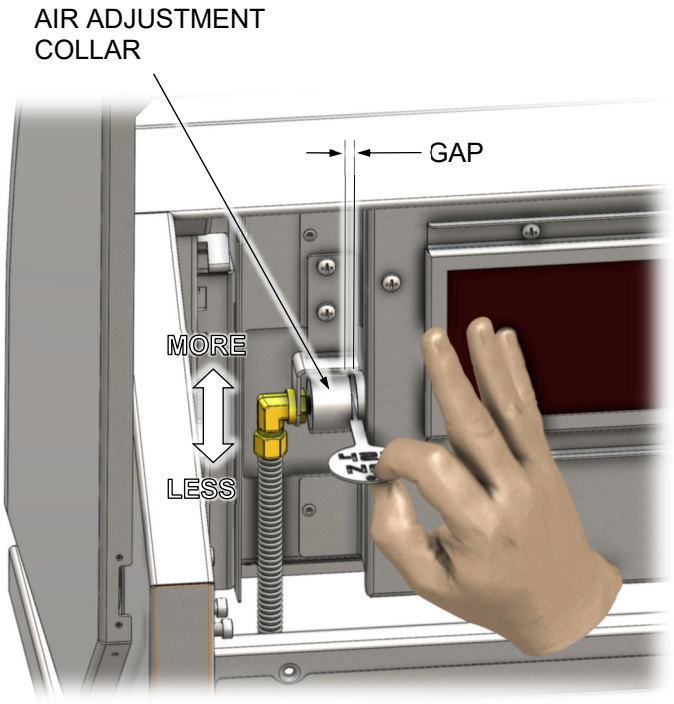
ROTISSERIE ORIFICE LOCATION

- Locate the Orifice inside the air adjustment collar .
- Use a 7 mm socket to unscrew the orifice.
- Support the back of the brass elbow (where the flex tube is attached) with a 1/2” open wrench if necessary to prevent the elbow from unscrewing from the bracket.
- Should the elbow become loose or detached, use a 9/16” open wren to secure the elbow back into the bracket.
- Replace the existing orifice with the orifice included in your conversion kit.
- Do not overtighten the orifice.
- Reinstall the orifice assembly into the back panel of the Rotisserie burner.



ROTISSERIE AIR ADJUSTMENT

- The 10-32 screws that are used in the mounting bracket allow a little play from side to side for adjustment.
- The orifice assembly bracket should be installed parallel to the burner side panels and centered in the rotisserie inlet tube
- With the bracket mounted and secured in place, use the orifice intake gap tool provide in the conversion kit.
- Place the gap tool at the center of the gap between the rotisserie burner intake tube and the air adjustment collar.
- ***NOTE:*** *The adjustment collar is mounted on the orifice elbow with removable thread locking compound, so it remains in place but is adjustable.*
- Using an adjustable wrench of the appropriate size, rotate the air adjustment collar to close the gap until the collar and the intake tube touch the gap tool on both sides.



NOTE: The rotisserie air adjustment is critical for the proper operation of the rotisserie. Too much air will make the rotisserie burner too hot and prevent proper operation over extended periods of time. Too little air, or a substantially less gap than the one specified by the gap tool, and the burner will not be hot enough prolonging cooking times.

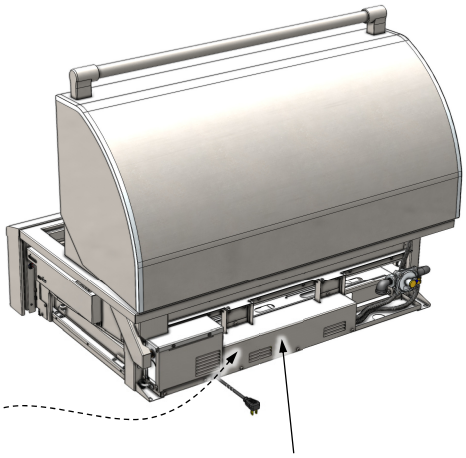
When adjusting the rotisserie burner, make sure the gap tool is tight against both sides between the inlet tube and adjustment collar. Make sure it is not too loose as to insert in and our freely.

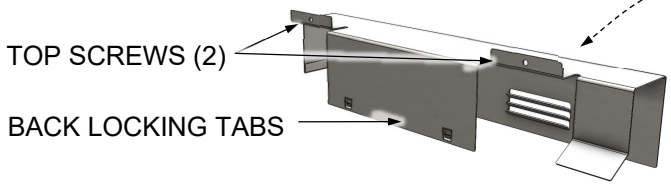
It is better to have the gap tool tight against both sides before removal of the gap tool.

- The Rotisserie Orifice is now replaced and ready for operation.
- Re-install the rotisserie back wall by inserting the top edge first into the groove just behind the Grill lights.
- **NOTE:** It is a narrow gap. Make sure the panel is not inserted behind the groove as it will not be properly supported in place.
- Push the rotisserie back wall into the original position at the bottom edge and re-install the (3) 1/4-20 truss head screws into the bottom flange and the firebox.

SMOKER BURNER ORIFICE REPLACEMENT

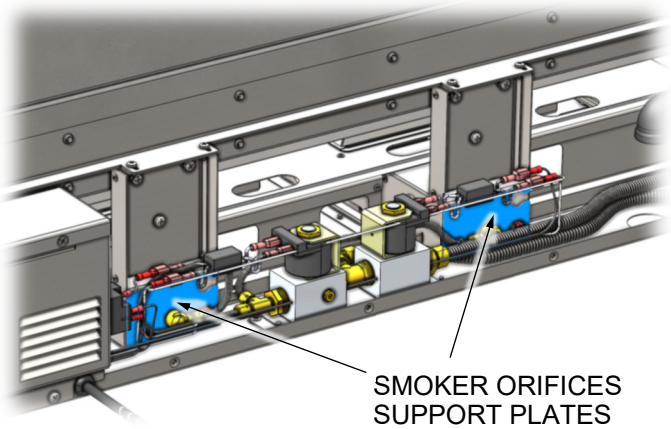
- Locate on the back of the unit the smoker piping and solenoids assemblies.
- Remove the BOTTOM (3) 10-32 screws that hold the cover and (2) TOP screws located on of each smoker assembly. (vertical brackets)
- ***NOTE:*** *There are a couple of locking tabs on the back of the cover to secure the back panel.*
- Pull the cover straight up to open the assembly. (see below).



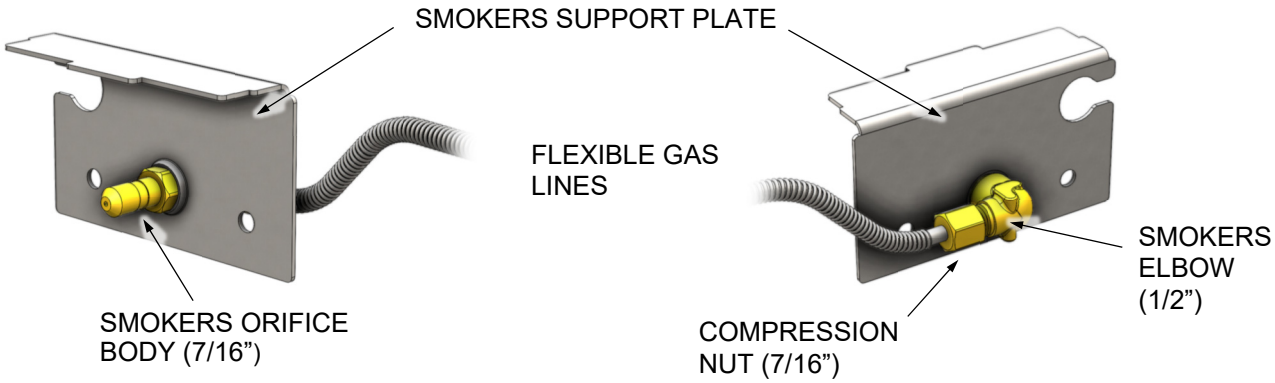


SMOKERS ASSEMBLY
COVER LOCATION
(3) 10-32 SCREWS

- Locate the (2) smoker orifices support plates. (highlighted blue on the image at right)
- The support plates are mounted with (2) 10-32 screws each.
- Remove those screws to free the support plate.
- Remove the smoker igniter wires and gromets from the support plate by sliding them sideways.
- Flex the smoker fuel supply lines to access the smoker orifice.
- Should the flexible fuel supply line be hard to flex, you can loosen the tube fitting compression nut and unscrew it from the elbow with a 7/16” open wrench.
- Replace the smoker orifice with the ones included in your kit by using a 7/16” open wrench on the orifice body and a 1/2” open wrench on the elbow behind the support plate. (see below)

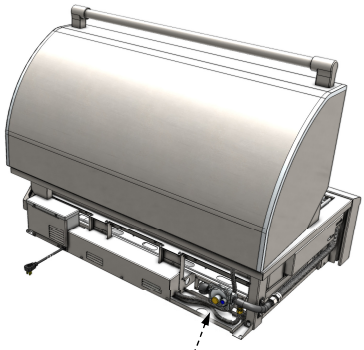


SMOKER ORIFICES
SUPPORT PLATES
(2) 10-32 SCREWS EACH



- Once the smoker orifices have been replaced, follow the steps above backwards to re-install the smoker with the support plate.
- Re-tighten the smoker elbow compression nut and piping (if previously removed). Do not overtighten.
- Re-install the solenoid / smoker assembly cover by sliding the cover through the back first, in order for the locking tabs to attach to the raceway as you push down on them.
- Re-install the the (5) 10-32 screws that hold the cover.

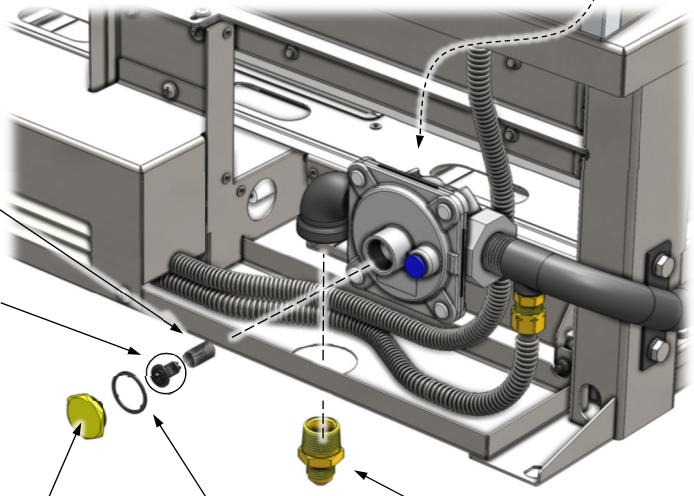
GAS PRESSURE REGULATOR CONVERSION



The AIPG Grill is equipped with a Maxitrol™ pressure regulator that is suitable for LP (10" W.C.) or NG (4" W.C.) fuel regulation. To convert the regulator to proper fuel for your conversion kit, remove the brass or aluminum cap located in it's center hub with a 7/8" open wrench.

CAUTION: *There are several components in this regulator assembly. Be careful with the gas sealing washer, the plunger and plunger's spring located inside the regulator.*





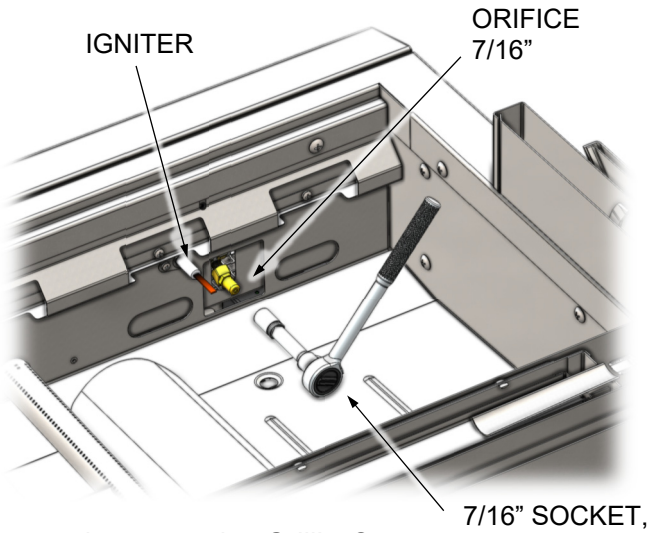
PLUNGER DETAIL:

The plunger **LP** side has a WIDE disk on the end. The **NG** side does not. The side pointing to the **BODY** of the regulator determines the fuel to be used in the grill.

Re-install the plunger, spring and cap with the gasket. Do not overtighten the cap onto the regulator body.

- Additionally if the Grill if converted from NG to LP, the conversion kit will include an LP tank regulator as well as a reducer to connect to the grill.
- Install the 1/2" NPT x 3/8" ODF fitting on the existing 1/2" elbow at the Regulator.
- Seal 1/2" NPT side of the reducer with appropriate "yellow" (gas) Teflon tape or sealing compounds.

MAIN BURNERS ORIFICES



- Using a 7/16" socket with a minimum of a 3" extension and a wrench, unscrew the main 3 burner orifices located inside the firebox.
- Be careful not to strike or hit the igniters as they can be broken when hit by tools.
- Replace the main burner orifices with the ones included in the conversion kit.
- At this point all orifices in the AIGP Grill have been replaced in the proper locations.
- Re-power the unit.
- Re-establish the gas connection and check for gas leaks as shown on the Grill's Care and use Manual.
- Re-install the burners.
- Re-install all Thermaglass™ shields but **DO NOT** Install the Grill grates just yet.

MAIN BURNERS AIR ADJUSTMENT

Each grill burner is tested and adjusted at the factory prior to shipment; however, variations in the local gas supply, elevation and other factors might make it necessary to adjust the burners. Additional if the fuel is changed, air adjustment will be necessary. The flames of the burners should be visually checked and compared with figures on this page. If any of these conditions do not exist, check to see if dirt, debris, spider webs, etc., are blocking the air shutter or burner ports. Proceed with air shutter adjustment next.

AIR SHUTTER ADJUSTMENT:

A sheet metal cap at the inlet of the burner called the “AIR SHUTTER” regulates the amount of air that enters into the H-Burner for combustion.

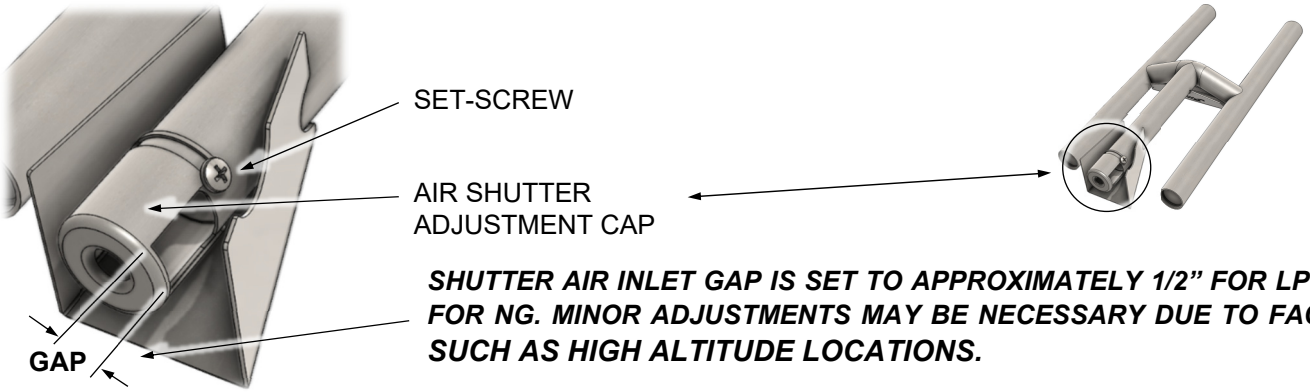
The air shutter is locked in place by a screw, which must be loosened prior to lighting the burner for adjustment. The air shutter adjustment screws are accessible with a Phillips # 2 (PH2) screwdriver by removing the burner. Loosen the screw of the air shutter. Reinstall the burner. Make certain that the burners are sitting properly on the orifices taking care not to move or damage the igniter electrode.

Light the burners and adjust according to the following directions:

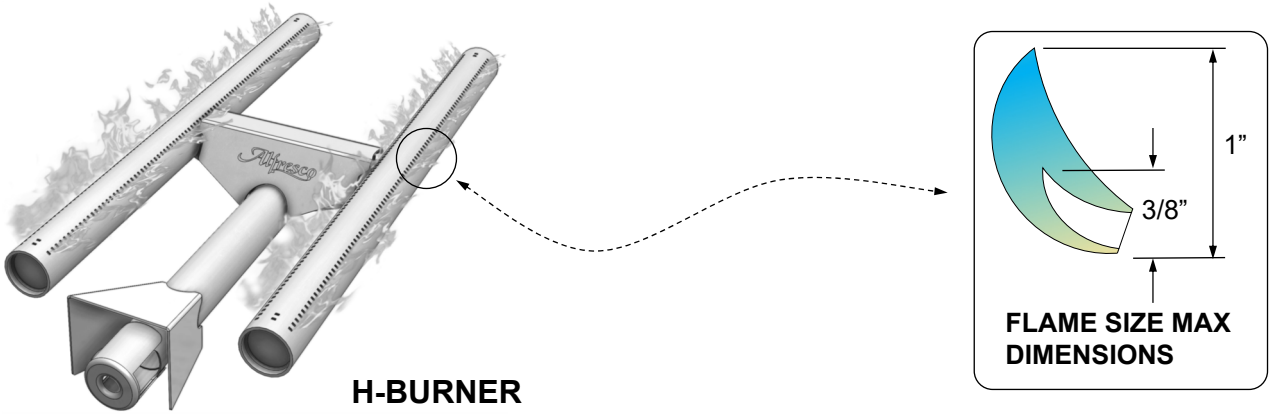
- Turn the valve on MAXIMUM heat, and allow it to “WARM UP” for 10 minutes.
- If the flame is yellow, indicating insufficient air, turn the air shutter counter-clockwise to allow more air to the burner.
- If the flame is noisy and tends to lift away from the burner, indicating too much air, turn the air shutter clockwise to reduce the amount of air to the burner.
- Retighten the locking screw of the air shutter cap.

NOTE: Be careful, as the burner may be or will become very hot after lighting it.

FLAMES SHOULD BE BLUE AND STABLE WITH NO YELLOW TIPS OR EXCESSIVE NOISE OR LIFTING.



SHUTTER AIR INLET GAP IS SET TO APPROXIMATELY 1/2” FOR LP & 5/8” FOR NG. MINOR ADJUSTMENTS MAY BE NECESSARY DUE TO FACTORS SUCH AS HIGH ALTITUDE LOCATIONS.



H-BURNER

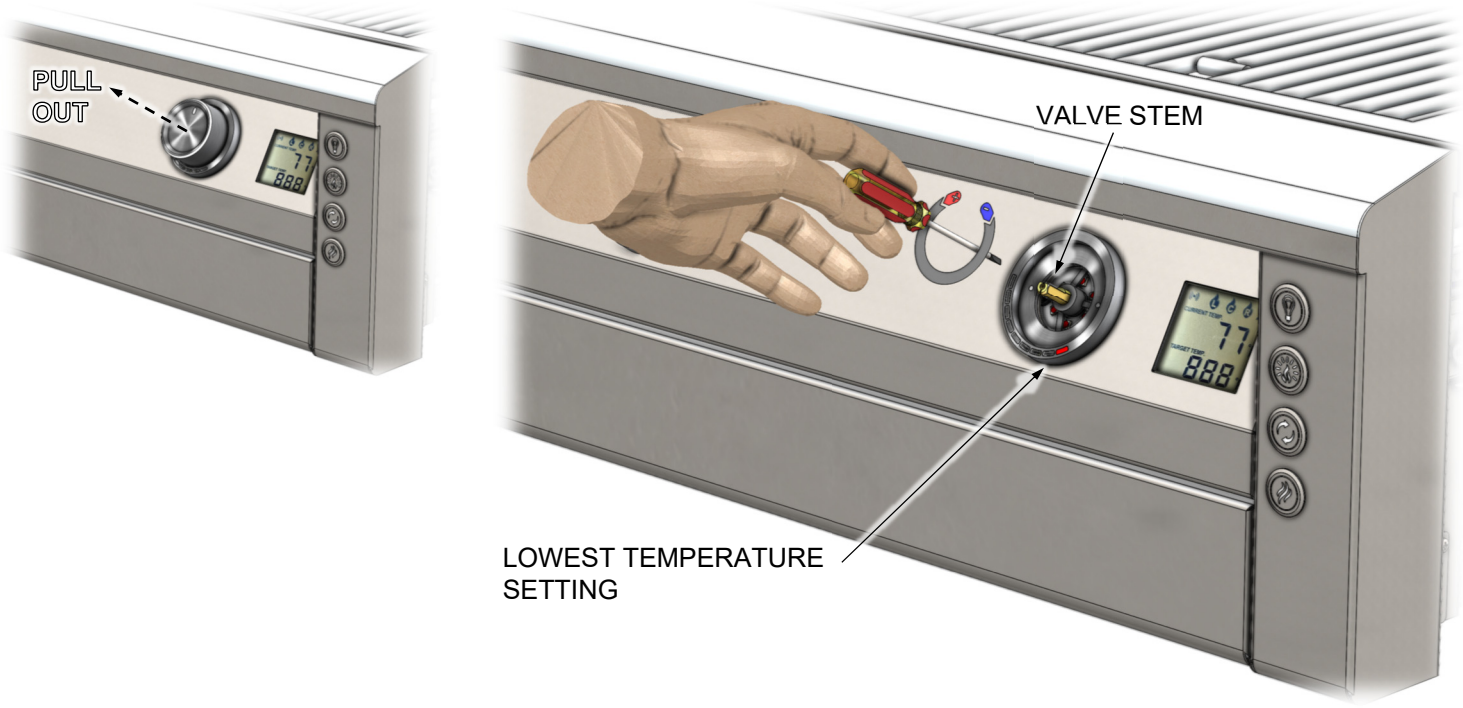
► INSTALL THE GRILL GRATES ONE THE AIR SHUTTER ADJUSTMENTS HAVE BEEN COMPLETED.

LOW HEAT SETTING ADJUSTMENT:

Once that all H-Burners have been adjusted for maximum heat, continue to operate the H-Burners so they remain hot. The burners must be hot in order to adjust the low heat setting.

ADJUSTMENT STEPS:

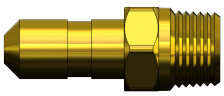
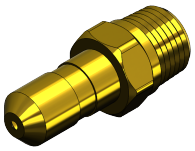
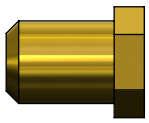
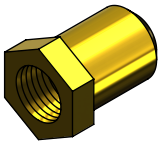
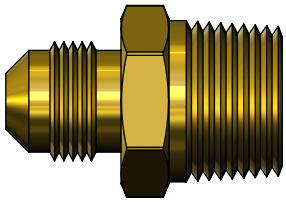
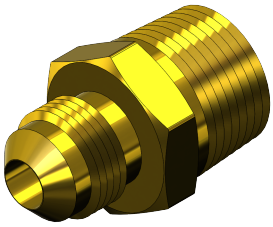
- Turn the control knob to the lowest setting (one light only).
- Wait for the burner temperature to drop and stabilize.
- ***Attempting adjustment at any setting other than the LOWEST setting can create a dangerous condition.***
- Remove knob by pulling straight away from control panel.
- Insert a small FLAT blade screwdriver 1/8” wide and a minimum of 3” long into the valve stem.
- There is a small screw (needle adjuster) inside the stem to adjust the flame.
- Rotate the screwdriver until the screwdriver engages the slot of the screw.
- Turn COUNTER-CLOCKWISE to **INCREASE** the low heat flame while using pliers to hold the stem securely.
- Turn CLOCKWISE to **DECREASE** the low heat flame.
- Adjust the flames so the burner is fully lit around the entire perimeter when the knob is in the lowest position.
- Once proper adjustment is reached, reattach the knob by pushing onto stem.



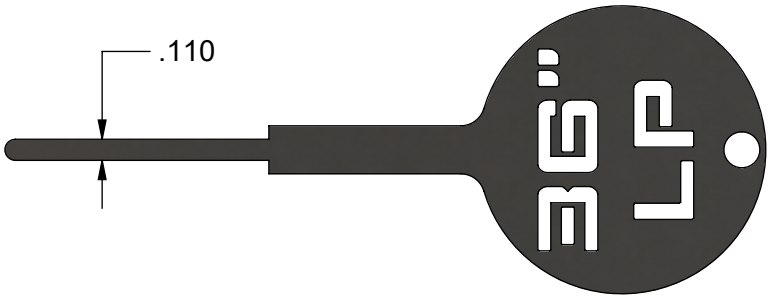
⚠ WARNING	⚠ AVERTISSEMENT
NEVER ADJUST THE BURNER SO LOW THAT IT MAY GO OUT DURING USE. DO NOT OPERATE THE GRILL WITH THE LOW HEAT SCREW REMOVED. **GAS CAN ESCAPE AND CAUSE A POTENTIALLY HAZARDOUS CONDITION.**	NE JAMAIS AJUSTER LE BRÛLEUR SI BAS QU'IL PEUT S'ÉTEINDRE PENDANT L'UTILISATION. N'UTILISEZ PAS LE GRIL AVEC LA VIS À CHALEUR BASSE RETIRÉE. **LE GAZ PEUT S'ÉCHAPPER ET PROVOQUER UNE CONDITION POTENTIELLEMENT DANGEREUSE.**

► THE ORIFICE CONVERSION IS NOW COMPLETE.

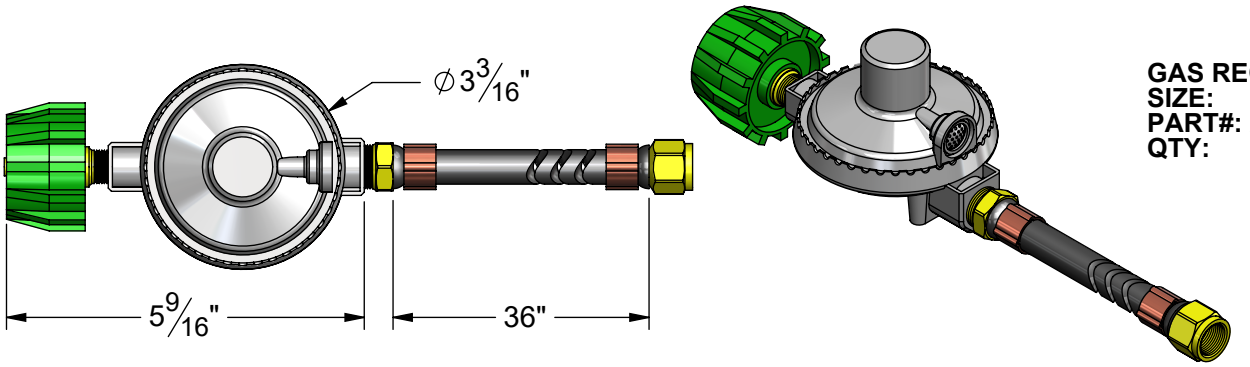
CONVERTION KIT FOR AIPG-36 BBQ FROM NG ► LP FUEL

FRONT VIEW	SIDE VIEW	ISO VIEW	ITEM:
			**ROTISSERIE BURNER ORIFICE** **SIZE: 57 GA.** **PART#: 220-0725** **QTY: 1**
			**SMOKER BURNER ORIFICE** **SIZE: 75 GA.** **PART#: 220-0314** **QTY: 2**
			**MAIN BURNER ORIFICE** **SIZE: 55 GA.** **PART#: 220-0655** **QTY: 3**
			**FITTING ADAPTOR** **SIZE: 3/8" ODF x 1/2" MPT** **PART#: 220-0275** **QTY: 1**

ALL ORIFICES AND ADAPTORS SCALE 1:1



ROTISSERIE AIR GAUGE
SIZE: 0.110"
PART #: 100-3928
QTY: 1



GAS REGULATOR w/ HOSE
SIZE: 36" HOSE - 11" W.C.
PART#: 220-0301
QTY: 1

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CITY OF INDUSTRY, CA. 91745

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PROJECT TITLE: **AIPG CONVERSION KITS**

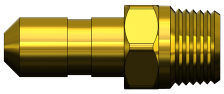
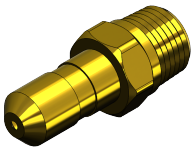
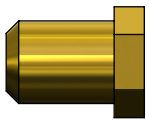
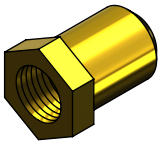
DRAWING NO.: **190-0092**

SHEET 1 OF 1

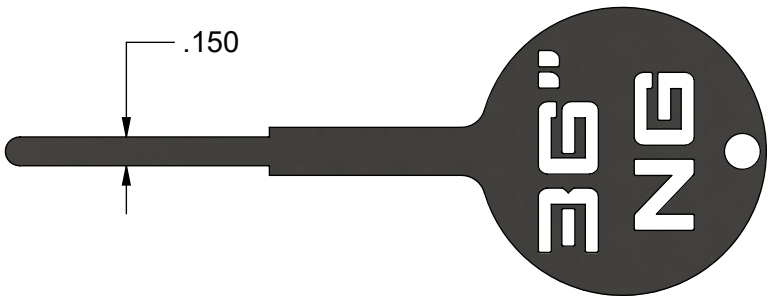
DRAWN BY: ADRIAN CRISCI
LAST SAVED: 3/20/2026 7:05:08 AM

DRAWING TITLE: **AIPG-36CK/NG-LP CONVERSION KIT COMPONENTS**

CONVERTION KIT FOR AIPG-36 BBQ FROM LP ► NG FUEL

FRONT VIEW	SIDE VIEW	ISO VIEW	ITEM:
			**ROTISSERIE BURNER ORIFICE** **SIZE: 50 GA.** **PART#: 220-0719** **QTY: 1**
			**SMOKER BURNER ORIFICE** **SIZE: 67 GA.** **PART#: 220-0468** **QTY: 2**
			**MAIN BURNER ORIFICE** **SIZE: 45 GA.** **PART#: 220-0645** **QTY: 3**

ALL ORIFICES SCALE 1:1



ROTISSERIE AIR GAUGE
SIZE: 0.150"
PART #: 100-3929
QTY: 1

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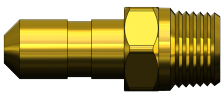
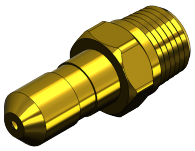
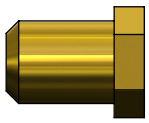
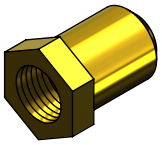
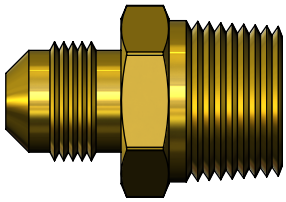
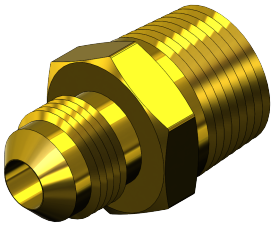
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PROJECT TITLE:
AIPG CONVERSION KITS

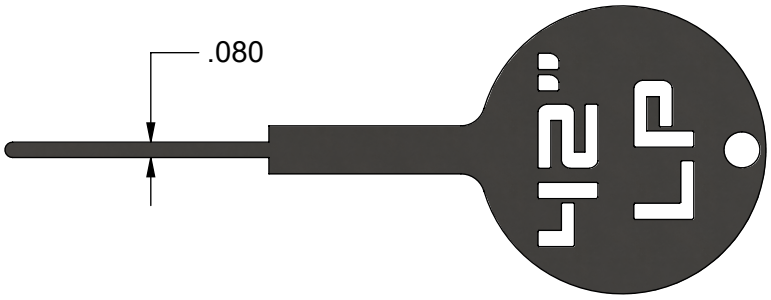
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SHEET 1 OF 1

DRAWING TITLE:
AIPG-36CK/LP-NG CONVERSION KIT COMPONENTS

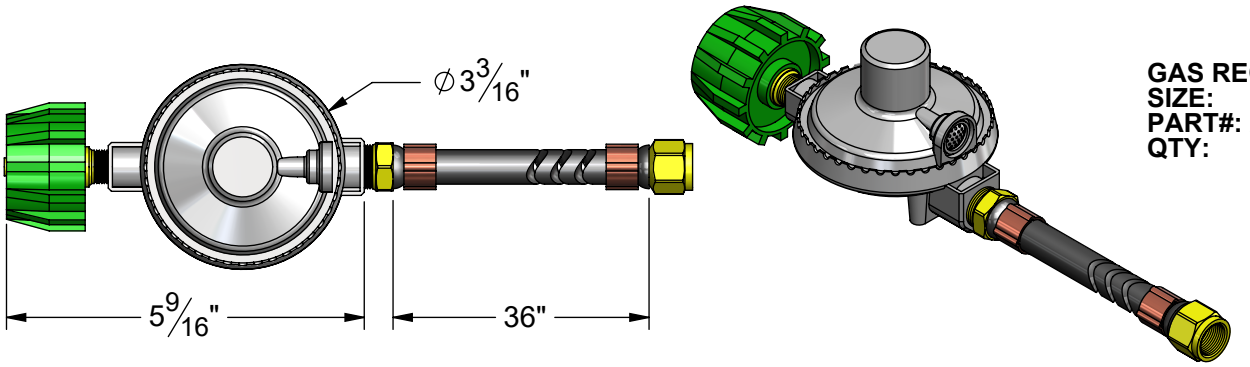
CONVERTION KIT FOR AIPG-42 BBQ FROM NG ► LP FUEL

FRONT VIEW	SIDE VIEW	ISO VIEW	ITEM:
			**ROTISSERIE BURNER ORIFICE** **SIZE: 56 GA.** **PART#: 220-0724** **QTY: 1**
			**SMOKER BURNER ORIFICE** **SIZE: 75 GA.** **PART#: 220-0314** **QTY: 2**
			**MAIN BURNER ORIFICE** **SIZE: 53 GA.** **PART#: 220-0653** **QTY: 3**
			**FITTING ADAPTOR** **SIZE: 3/8" ODF x 1/2" MPT** **PART#: 220-0275** **QTY: 1**

ALL ORIFICES AND ADAPTORS SCALE 1:1



ROTISSERIE AIR GAUGE
SIZE: 0.080"
PART #: 100-3849
QTY: 1



GAS REGULATOR w/ HOSE
SIZE: 36" HOSE - 11" W.C.
PART#: 220-0301
QTY: 1

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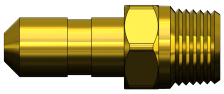
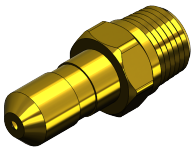
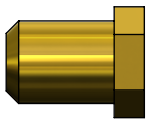
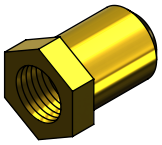
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PROJECT TITLE:
AIPG CONVERSION KITS

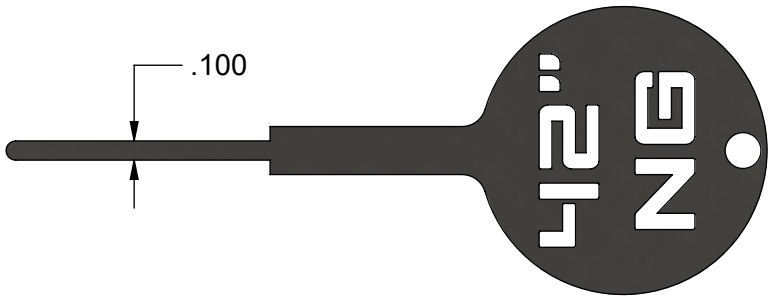
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SHEET 1 OF 1

DRAWING TITLE:
AIPG-42CK/NG-LP CONVERSION KIT COMPONENTS

CONVERTION KIT FOR AIPG-42 BBQ FROM LP ► NG FUEL

FRONT VIEW	SIDE VIEW	ISO VIEW	ITEM:
			**ROTISSERIE BURNER ORIFICE** **SIZE: 48 GA.** **PART#: 220-0717** **QTY: 1**
			**SMOKER BURNER ORIFICE** **SIZE: 67 GA.** **PART#: 220-0468** **QTY: 2**
			**MAIN BURNER ORIFICE** **SIZE: 43 GA.** **PART#: 220-0643** **QTY: 3**

ALL ORIFICES SCALE 1:1



ROTISSERIE AIR GAUGE
SIZE: 0.100"
PART #: 100-3914
QTY: 1

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PROJECT TITLE:
AIPG CONVERSION KITS

DRAWING NO.: **190-0095**
SHEET 1 OF 1

DRAWING TITLE:
AIPG-42CK/LP-NG CONVERSION KIT COMPONENTS