

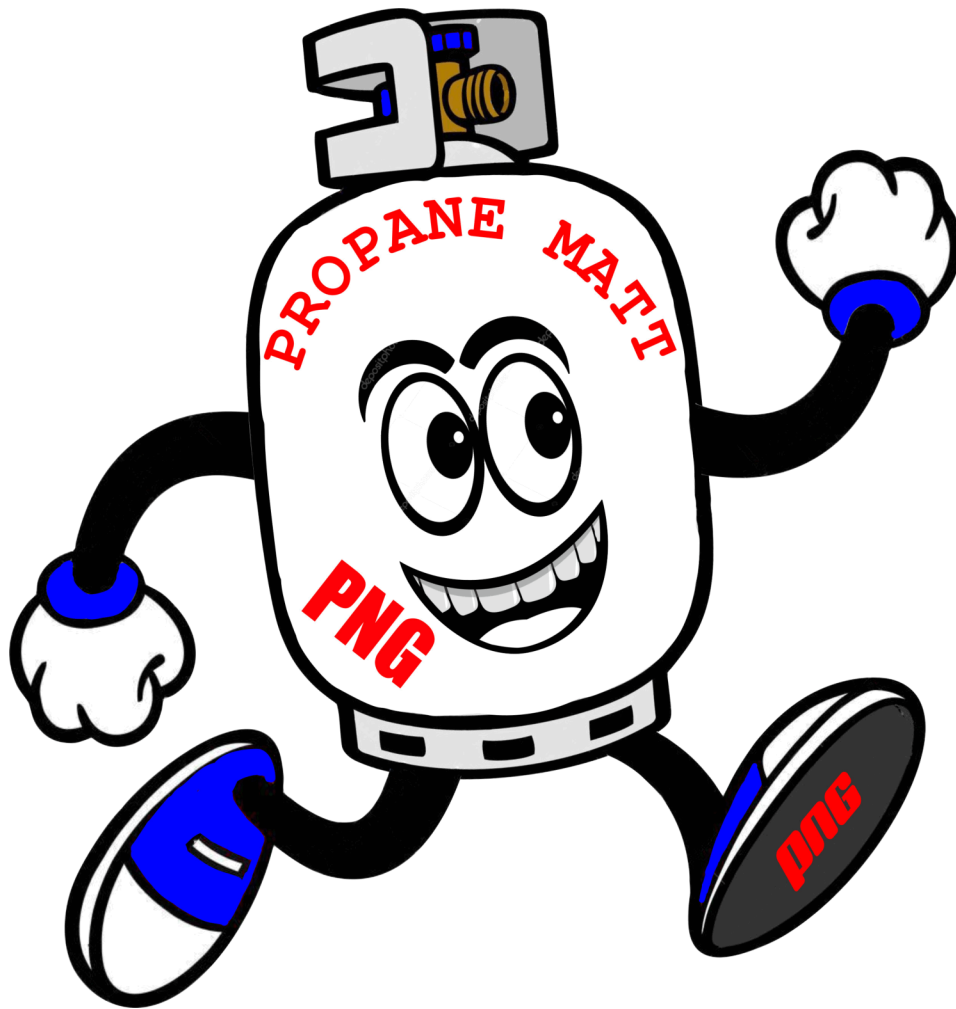
PROPANE AND NATURAL GAS

# FREQUENTLY ASK QUESTION'S & ANSWERS

FOR MORE INSTRUCTIONS YOU CAN ALSO GO TO  
OUR WEBSITE AND WATCH THE VIDEO

[www.pngtechnologies.com](http://www.pngtechnologies.com)

734-992-2648



## **ADJUSTING THE POWER ELBOW / LOAD BLOCK**

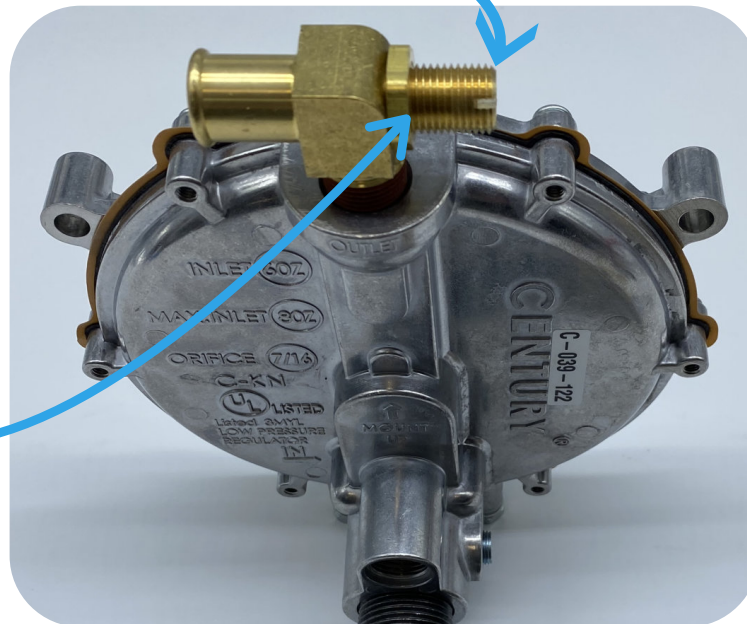
**This is a very sensitive adjustment. Screw In is (LEAN)  
Screw out is (RICH). We have found that 14mm/ ½" is a very good start  
for your initial start**

**But you might have to adjust this to get the maximum performance.**

**We recommend to use a RPM Tachometer to reach this. We sell  
them, under generator accessories.**

**14mm or ½"**

**THIS IS FROM THE TOP OF BRASS STEM  
TO TOP OF BRASS JAM NUT**



**THIS MAY NOT BE YOUR FINAL ADJUSTMENT, YOU MAY HAVE TO  
ADJUST THE FUEL ONCE YOU APPLY A LOAD THEN BRING IT BACK DOWN TO  
AN IDLE TO MAKE SURE EVERYTHING IS CORRECT.**

**\*\* EVERY ENGINE IS DIFFERENT\*\***

## **MANUAL PRIMER BUTTON**

**Press this button for 1 Seconds. This will allow the fuel to enter the carburetor. Keep in mind, if you have a longer run of hose you may need to prime the regulator for 2 seconds longer,**

**more than this can always cause flooding of the engine.  
so please let fuel disparte.**

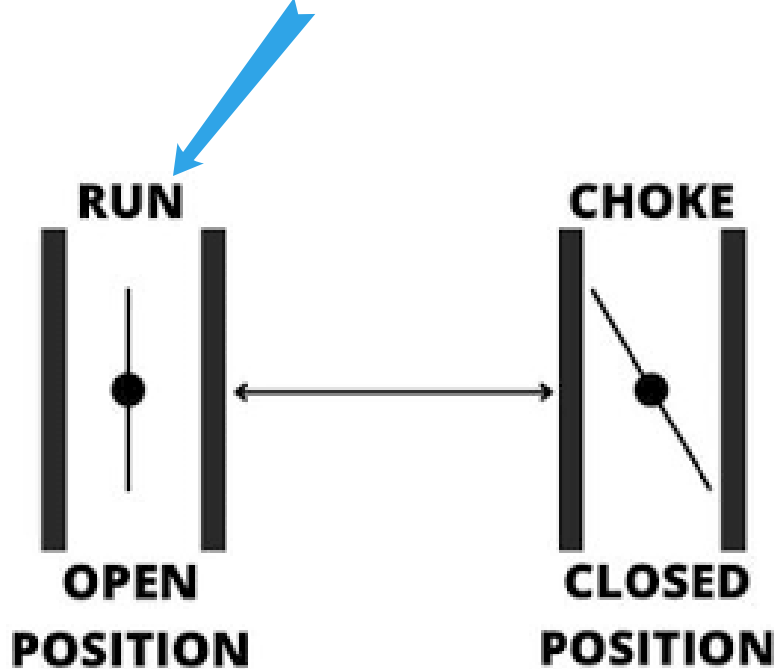


**DO NOT USE A CHOKE, AS IT WILL MOST LIKELY  
CAUSE FUEL NOT TO FLOW PROBABILITY.**

## **HOW DOES THE KN WORK**

**AIR-FLOW THROUGH THE ADAPTER WILL  
CREATING A VACUUM. WHICH ACTS THROUGH THE OUTLET  
PORT ON THE DIAPHRAGM. ATMOSPHERIC PRESSURE THEN FORCES  
THE DIAPHRAGM TOWARD THE VACUUM, DEPRESSING THE LEVER  
AND PULLING THE VALVE SEAT AWAY FROM THE ORIFICE, WHICH  
ALLOWS FUEL TO FLOW AS LONG AS THE DEMAND PERSISTS.**

**ALWAYS HAVE CHOKE OPEN WHEN  
USING ALTERNATIVE FUELS.  
THE KN LOW PRESSURE REGULATOR  
OPERATES AND OPENS WITH ENGINE VACUUM**



**MANUAL CHOKE**



**ALWAYS HAVE CHOKE OPEN WHEN  
USING ALTERNATIVE FUELS.**

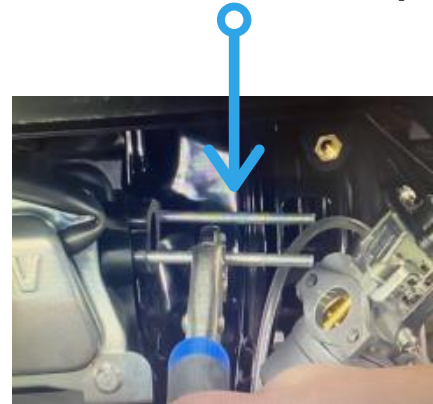
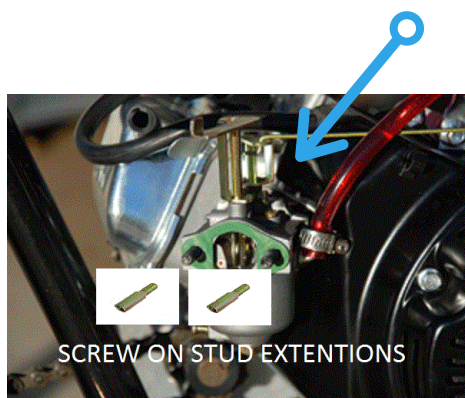
**THE KN LOW PRESSURE REGULATOR  
OPERATES AND OPENS WITH ENGINE VACUUM  
IF YOU HAVE ELECTRONIC CHOKE THEN  
YOU WILL HAVE TO DISENGAGE IT WHEN  
USING PROPANE OR NATURAL GAS.  
MOST OF THE TIME YOU CAN PULL THE  
TERMINALS APART IF NOT THEN YOU  
WILL HAVE TO CUT THE WIRE AND INSTALL  
THEM YOURSELF.**



## ALUMINUM ADAPTER INSTALL

When installing the aluminum adapter will supply the either the stud extensions or complete new studs.

(THIS IS ONLY IF YOUR KIT INCLUDED THIS STYLE ADAPTER)





## SLIM ADAPTER INSTALL

**Either pull the carburetor off or move it forward to give you room to use vise grips to back out studs to allow for the adapter to be installed**



**Make sure you are careful when installing the ½" vapor hose to the adapter. DO NOT have a lot of pressure or kinks in the hose. This could cause you to crack the adapter.**



**YOU CAN ALSO DOUBLE NUT THE STUD  
TO BACK OUT THE STUDS OUT INSTEAD OF USING  
VISE GRIPS.  
(THIS STEP IS UP TO YOU)**





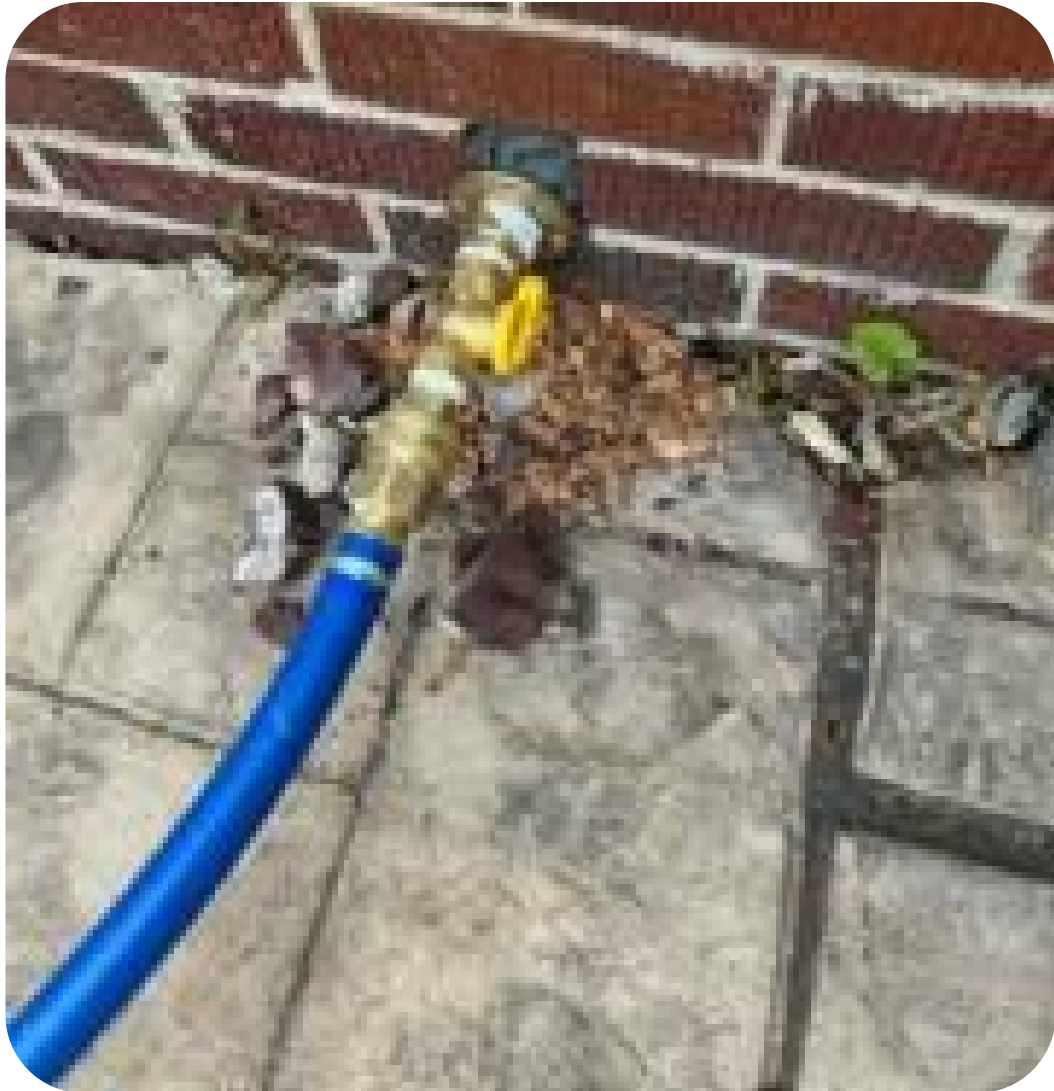
**MAKE SURE WHEN YOU ARE CONNECTING THE NATURAL GAS LINE  
THAT YOU ALWAYS CONNECT TO THE NATURAL GAS METER.  
CONNECTIONS TO ANYWHERE ELSE WILL CAUSE THE GENERATOR  
TO NOT GET ENOUGH VOLUME OF FUEL.**

**CORRECT WAY- DIRECT TO YOUR METER**



**THE REASON WE DO NOT APPROVE OF THIS TYPE OF CONNECTION IS THERE IS TOO MANY THINGS THAT CAN GO WRONG WITH FUEL VOLUME ISSUES. AND CAN CAUSE THE ENGINE NOT TO RUN.**

**TROUGH YOUR HOUSE IN-CORRECT WAY**



**THE REASON WE DO NOT APPROVE OF THIS TYPE OF CONNECTION IS THERE IS TO MANY THINGS THAT CAN GO WRONG WITH FUEL VOLUME ISSUES. AND CAN CAUSE THE ENGINE NOT TO RUN.**

**POOL HEATER IN-CORRECT WAY**



**THE REASON WE DO NOT APPROVE OF THIS TYPE OF CONNECTION IS THERE IS TOO MANY THINGS THAT CAN GO WRONG WITH FUEL VOLUME ISSUES. AND CAN CAUSE THE ENGINE NOT TO RUN.**

### **WATER HEATER IN-CORRECT WAY**



**THE REASON WE DO NOT APPROVE OF THIS TYPE OF CONNECTION IS THERE IS TOO MANY THINGS THAT CAN GO WRONG WITH FUEL VOLUME ISSUES. AND CAN CAUSE THE ENGINE NOT TO RUN.**

**TROUGH FURNACE  
IN-CORRECT WAY**





**20 / 30 / 40 & 100 lbs PROPANE TANK CONNECTIONS**  
When connecting our kit to a portable propane tank.  
Use the propane hose and high pressure regulator  
that comes with our propane kit.



**LARGE PROPANE HOUSE TANK CONNECTIONS**  
When connecting our kit to a larger house propane tank.  
Use a propane hose and and connect to the regulator at  
the house. Just make sure that it is a 6 OZ outlet pressure.



# WHY WE RECOMMEND OUR HOSES

## $\frac{3}{4}$ " Natural Gas Vapor Hose

This hose is designed to go between the Generator connected to the low pressure Regulator and the Natural gas meter

Do not attempt to connect the vapor hose to the Natural gas meter, you will need to contact a licensed professional

**WARNING NATURAL GAS IS HIGHLY COMBUSTIBLE**

PNG hoses are highly engineered products that meet or exceed

a variety of industry standards and is the only hose that PNG sales. It is not

recommended to use a hose meant for a barbecue or a fireplace. Generators demand high volumes of gas to run, just remember you are supplying gas to a combustible engine not an appliance.

**PLEASE READ ABSOLUTELY NO RETURNS ON CUSTOM MADE NATURAL GAS HOSES**

**Female correct  
will work**



In order for your Generator or Inverter to run correctly with Natural gas the inside diameter of your Quick Connects can be no smaller than  $\frac{3}{4}$ " in size. If your Quick Connects look like these to the right your Generator or Inverter

**WILL NOT RUN CORRECTLY**

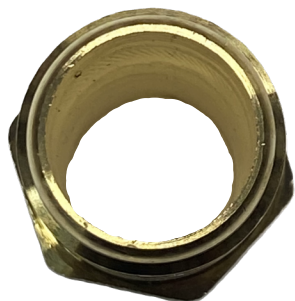
The Quick connects must be open flow like the pictures to the left in order for the Generator or Inverter to receive the proper amount of Natural gas to support it's combustible engine.

It doesn't matter where you obtain the Quick Connects from, what matters is the inside Orifice must be sufficient order to deliver the proper amount of fuel

**Female wrong will  
not work**



**Male correct  
will work**



**Male wrong  
will not work**





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**How much power loss will I loss by converting my generator to an alternative fuel?**

**\*\* 3-5% power loss because our custom kits are built around the generator, we have only seen about a 3-5% loss of power.**

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**Can I still run my generator on gasoline after converting my generator to an alternative fuel?**

**\*\* YES, You can simply do this by switching off your alternative fuel source and run the engine until it stops to ensure all of your alternative fuel is out of the fuel lines and then turn on your gasoline fuel source.**

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**What stops gas from flowing if generator stalls?**

**\*\*\* It takes a engine vacuum to open the regulator so when the engine vacuum stops the engine stops fuel flow.**

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**How many BTU's of natural gas per hour will my natural gas generator use?**

**\*\* To calculate this take your Horsepower x 2543.44 = BTU's per hour used on your engine.**

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**Can I connect my generator to a ½" pipe?**

**\*\* Yes you can. (Only if your generator is 5000 watts or below). Anything more will cause a lack of natural gas volume to run your generator properly.**

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**\*\*Just a note, every elbow installed will reduce 3% of natural gas fuel volume\*\***

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**When I run my generator on natural gas if I hold the primer button in my generator will run if I let it go it stalls what causes this?**

**\*\* It could be a combination of issues, first of all make sure the pressure of the outlet of your natural gas is correct and rated for the regulator we sent and just remember that every elbow causes restriction and that ½" pipe will NOT work for any generator above 5000 watts.**

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**Why does my order still show processing?**

**\*\* That means that your kit is being built and when it's done, we will email you the paid invoice with the tracking number.**

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**Once the package leaves our hands**

**\*\*Once we hand a package off to UPS we have no more control over that package. We can include special instructions that you give us when you place your order, but it is up to UPS to follow those instructions. If there is a delay in the delivery of your package please contact UPS customer service at 1-888-833-0056. If a package is delivered damaged and you accept it you will be responsible for putting a claim in with UPS. If a package is delivered damaged please refuse the delivery and we will put the claim in with UPS.**

**If I install your kit will it void my warranty on my generator?**

**\*\* When you install any aftermarket to anything, you always risk the chance of voiding the warranty.**

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**Should I continue to have my PM's the same on my generator with an alternative fuel as I do gasoline?**

**\*\* YES, Continue as the manufacture warranty recommends that way you always have a good record.**

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**Can I use a flex line to run my generator on Natural Gas?**

**\*\* NO, Because even if it is a  $\frac{3}{4}$ " or 1" flex line the flare swivel fitting on the flex line it reduces the I.D. (size) which reduces the Natural gas volume to your generator.**

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**If I cancel my order before it's shipped why would I still be charged a restocking fee.**

**Because when you place an order online. Our merchant service company takes there percent for the transaction.**

**Also when we return your money they also take a percent. Plus My employee has to be paid to do this.**

**this is the reason you will still be charged a restocking fee of 25%.**

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# GENERATOR ACCESSORIES

**ACC-0102**

**¼ oz**

**PIPE FITTING COMPOUND**



**ACC-0104**

**1 oz**

**GAS LEAK DETECTOR**



**G-SE-TACH**

**TACH / HOUR METER**



**G-SE-BATT-CHARGER**

**12VOLT / 100MA SMART CHARGER**



## **GENERATOR COVERS**

**Generator waterproof cover**

**UV Resistant Universal storage cover**

**38"L x 28"W x 30"H**



**Generator waterproof cover**

**UV Resistant Universal storage cover**

**32"L x 24"W x 34"H**



**Generator waterproof cover**

**UV Resistant Universal storage cover**

**20"L x 11.5"W x 16"H**



# **GENERATOR ACCESSORIES**

## **Oil drain's**

**Generator universal oil drain 12MM CONNECTION**



**Generator universal oil drain 10MM CONNECTION**





# KEEP YOUR FAMILY & PETS SAFE

## Safety Tips for Generators

Do not use generators indoors or in confined, poorly ventilated areas. Keep them outside, away from buildings and anything flammable, even dry brush.

**Fumes from a generator can be dangerous for you, your family or pets.**



Check with neighbors and family to ensure they are aware of the risks of operating generators.

**If you are using a generator for any reason, this information can help keep you and your household safe:**

- Place generators at least **20 feet** away from your home, downwind away from open doors, windows and vents.
- Before refueling it, turn off the generator and let it cool for **15-20 minutes**.
- **Never** try to power the house wiring by plugging the generator into a wall outlet; instead, use a heavy-duty, outdoor extension cord to plug appliances into generators.
- **Do not** use generators in rain or wet conditions.
- Place a fire extinguisher nearby.
- Make sure your home has operating fire alarms and carbon monoxide detectors.



Learn about carbon monoxide from the CDC  
at [cdc.gov/co/](https://www.cdc.gov/co/) or call 800-232-4636



**Cal OES**  
GOVERNOR'S OFFICE  
OF EMERGENCY SERVICES