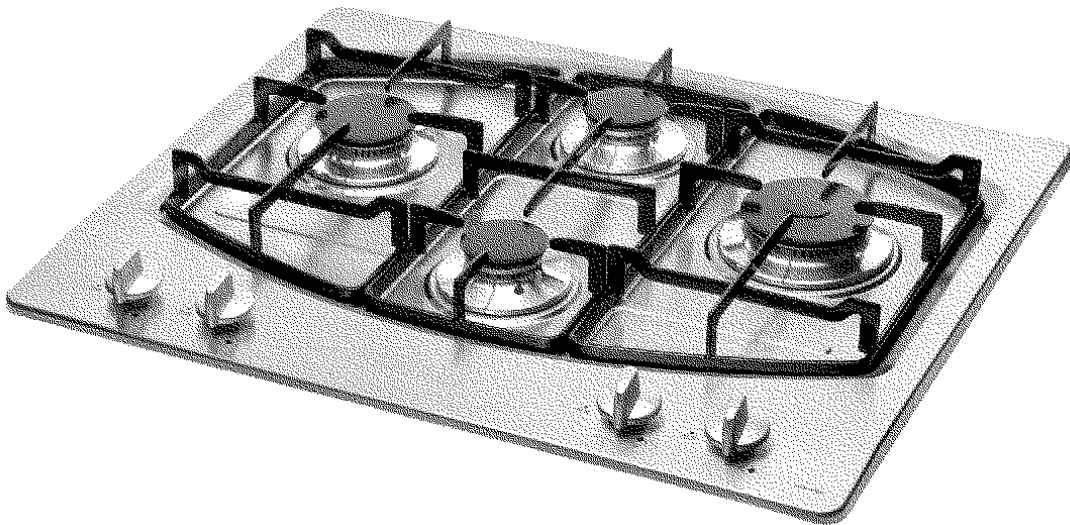


**SAMSUNG**

# USER MANUAL

## **GN643EFX/XSA** DROP IN GAS COOK TOP



- This user's manual is based on GN643EFX/XSA
- To use this product correctly and prevent any potential risk, read this manual (User Guide Book) before use the product.
- Keep this manual (User Guide Book) at the place where you can find it easily.

# Features of the Product

♥Thank you for using our product.

**This manual is designed for you to prevent any loss and /or accident that may occur while using the product.**

**Read this manual carefully and be happy with our Product all the time.**

- ① High-Efficient Sealed Burner
- ② Continuous Discharge Direct Ignition Type
- ③ Thermo-Element Type Safety Device
- ④ 4 Burner Gas Range(burners in diamond arrangement)
- ⑤ Easy Installation
- ⑥ Gas Cook Top Range Suitable for System Kitchen

# Contents Table




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# Safety Warning

■ The following marks are made to be easily understood so that you can prevent any safety related accident caused by misuse in advance and use the product more conveniently. Completely understand the following contents before read the manual.

 <b>Danger</b>	If this mark is neglected, the user may be <b>dead</b> or <b>seriously injured</b> .
 <b>Warning</b>	If this mark is neglected, the user may be <b>seriously injured</b> .
 <b>Caution</b>	If this mark is neglected, the user may be <b>injured</b> or <b>damaged in property</b> .

■ The following marks mean as follow



General Danger,  
Warning and Caution



No Touch



No Access



Caution: Inflammable



Must Do



It should be grounded.

## **Danger**

■ If gas seems to leak, take action as follow

If gas seems to leak, take action as follow:

Do not turn on the light. Do not switch on/off any electrical appliance and do not touch any electric plug. Do not use a telephone.

In this event, take action as follow:

- ① Stop using the product and close the middle valve.
- ② Open the window to ventilate.
- ③ Contact our service center by using a phone outside.



※ The fuel gas contains mercaptan, so that you can feel that the gas leaks even where only 1/1000 of the gas exists in the air with specific smell (smell of rotten garlic or egg).

# Warning

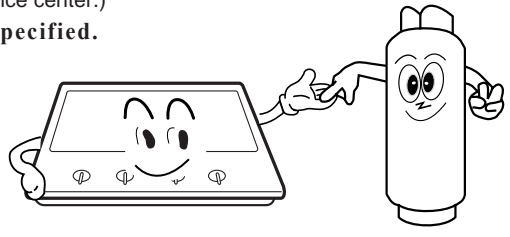
**■ Use the specified gas only.**

- Make sure that you should use the gas as specified on the product nameplate.
- Otherwise, the gas may be incompletely combusted and cause you to be poisoned by carbon monoxide or to be burned by explosive ignition. In addition, it may not be ignited.
- The product nameplate is on the bottom of the product.  
(If you don't know which gas you should use, contact our service center.)



**■ Make sure that the power voltage is the same as specified.  
(This product is used at 240V only.)**

- Otherwise, the product will be damaged and cause firing and electric shock.
- In case of moving out, make sure that you should use the gas as specified on the nameplate.



This product needs AC 240V power.  
For more information about electric wiring, consult with a qualified electric facility company.

It should be grounded.

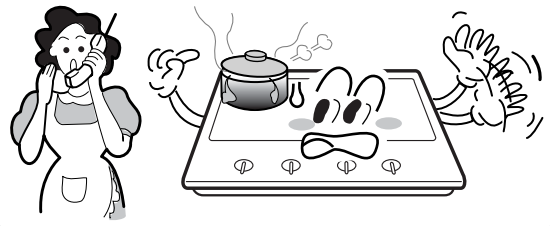
- Any work for AC 240V power, power ground and cabling should be done in accordance with the relevant rules as follow: Relevant Rule: Electric Facility Standard, Electric Appliance Using Method, Electric Work Law, Inner Wiring Rule and etc.
- Even at any place where 240V is used, the power consent should be grounded if it is not grounded at its side.



Burner	Drop in gas cook top (4 Burner)
Model	GN643EFX
Gas	LNG
Power	240V

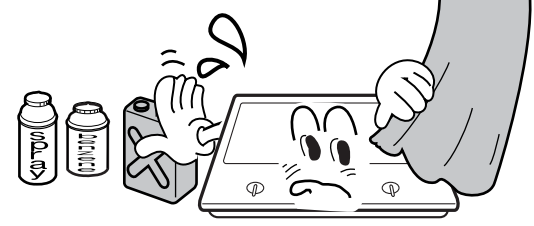
**■ Do not be away from the product while leaving the fire on. (Do not go out nor sleep.)**

- Otherwise, the product will be overheated causing the product damage or fire. Especially, if you leave the product for a long time while cooking fries, fish-food and etc, fire may occur.
- If you have to make a phone call or have a guest, stop using the product.

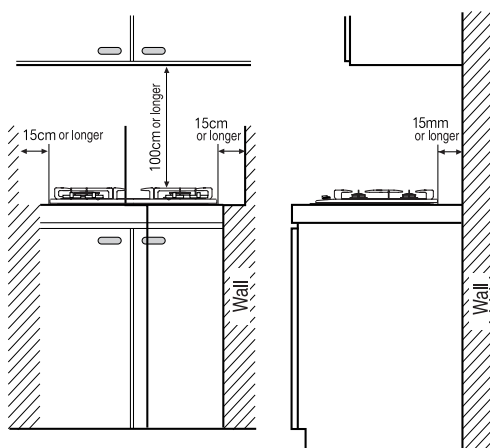


**■ Do not place any flammable object near the product.  
■ Do not use any inflammable gas product such as a spray near the product.**

- Keep any flammable object such as curtain and any inflammable objects such as a spray, gasoline and benzene away from the product. Such objects may cause fire.



## Warning

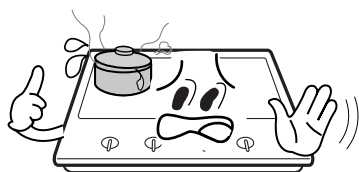


Must Do

- If you install another appliances under this product(i.e.:dish-washer and etc.), have a distance at least 3cm or more from product.
- There should be enough space between product and wall.
- There should be at least 15cm or longer gap from the product to the side of it.

### ■ Do not spill much water on the product.

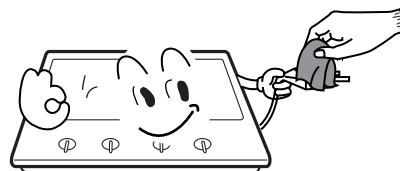
- Be careful not to spill much water on the top plate and etc. Water causes short circuit, electric shock and fire.
- If much water is spilled, stop using the product and consult with our service center.



Prohibited

### ■ Make sure that the power cord is not contaminated with any alien substance and then push the power cord to the end of the outlet.

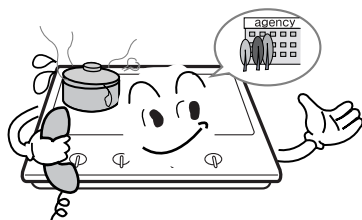
- If the wiring contact part is contaminated with dust, water and etc or the power cord is not completely inserted into the outlet, electric-shock/fire may occur.



Must Do

### ■ For gas connection and product installation, consult with a gas supply agency or installation agency.

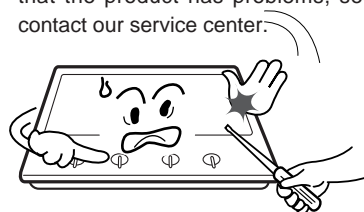
- Gas connection or product installation by unqualified staff may cause product damage and fire. In this case, we do not take any responsibility.



Must Do

### ■ The product must not be disassembled /repaired/modified by anyone other than our service engineers.

- Disassembly/repair/modification by any unqualified staff may influence on the product safety. If you think that the product has problems, see this manual or contact our service center.



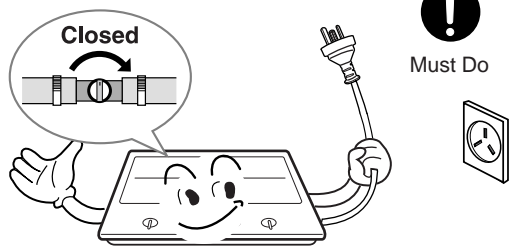
Prohibited



## Warning

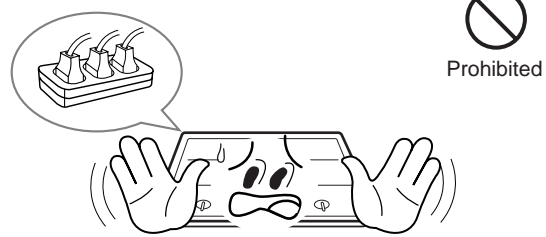
### ■ Troubleshooting

- When an earthquake or fire occurs, or if you feel any abnormal combustion, abnormal sound, abnormal smell, immediately stop using the product and close the middle valve to ventilate, and then plug out the power cord from the outlet.



### ■ Do not plug too much stuff in

- It could cause overheating and fire.  
Use an outlet for AC 240V only.



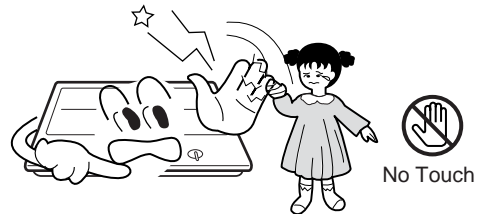
### ■ Do not touch the product while using or for a certain period after using.

- While/after using, the product top plate and nearby of the product is very hot. If you touch it, you may be burned.



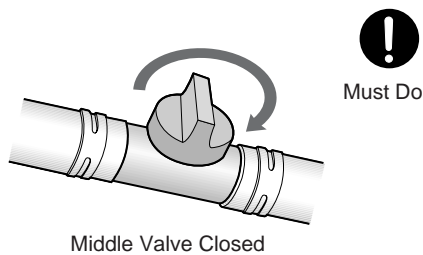
### ■ Keep children away from the product.

- Do not let children close to the product.  
Otherwise, she/he may be burned and/or electrically shocked.



### ■ After using the product, turn the ignition handle to the 'Extinguishment' position.

- Otherwise, gas may leak.
- Close the middle valve before go to bed or go out.



### ■ Do not use product when power cord is defective or power cord and metal part are loosed.

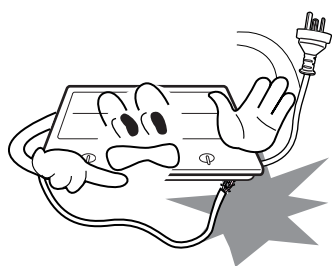
- It could cause electric shock or fire.  
Call for our after sales service agency.



## Warning

### ■ Do not scratch/process/extend the power cord. Do not force it to be bent or bound.

- Otherwise, it may be broken causing fire and electric shock.



Prohibited

### ■ Do not have the gas hose and power cord pass on the top or the bottom of the product.

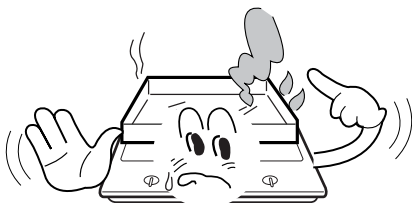
- It may be fused by contacting the hot part, so that gas may leak and fire may occur.



Prohibited

### ■ Do not use any supportive tools or a big iron plate and pottery that may cover the whole gas range.

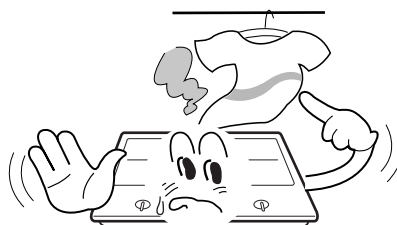
- It may be abnormally overheated by incomplete combustion causing fire, product damage or carbon monoxide poisoning.
- In this case, we do not take any responsibility to any product damage and accident.



Prohibited

### ■ Do not use the product other than cooking.

- Using the product to dry cloth, ignite other inflammable objects and etc may cause fire and product damage.

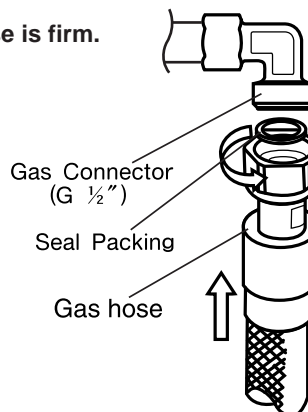


Prohibited

### ■ Make sure connection between gas connector and gas hose is firm.

- Otherwise, gas may leak and cause fire.

- Make sure of using the gas as specified on the nameplate. (LN gas)
- The gas connection work should be carried out by a qualified gas supply agency or gas piping facility agency.
- After completing pipe connection, you must apply gas leakage test. Use product after you make sure of no gas leakage.



Must do

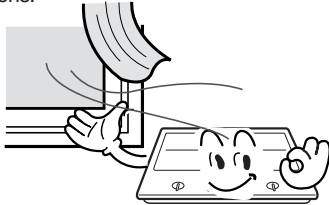


## Warning

### ■ Ventilate frequently while using.

- While using, ventilate the room by using a range hood or by opening the window. Otherwise, you may be poisoned by carbon monoxide.

Also, when you use a humidifier, flame might be unusually red. This is a result of the interaction between flame and water vapor. Turn off the humidifier and ventilate the room then flame will turn to normal conditions.



Must Do

### ■ Do not use any neutralized, bottom-narrowed or bottom-slippy unstable pot.

### ■ Take a special care while using a pot with long handle.

- A neutralized or bottom-narrowed pot may be unstably placed on the trivet.
- A pot with long handle may fall down due to the weight of its handle or due to touching the handle while using. Then, you may be burned.



Prohibited

### ■ Adjust the fire power properly for the kettle or pot size.

- The flame wider than the pot makes the pot handle overheated. Then, you may be burned.

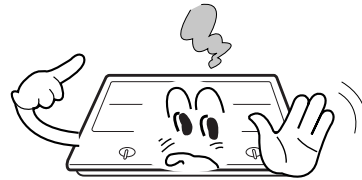


Prohibited

### ■ Do not remove any part out of the product nor any separate supportive items.

### ■ Do not use any supportive tools purchased in the market (aluminum foil or other supportive tools).

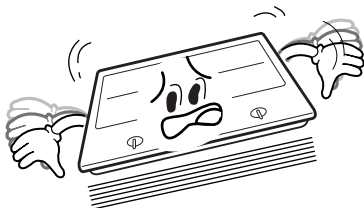
- You may be poisoned by carbon monoxide due to incomplete combustion. Fire may occur or the product may be damaged by abnormal overheating.



Prohibited

### ■ Install the product on even and stable place.

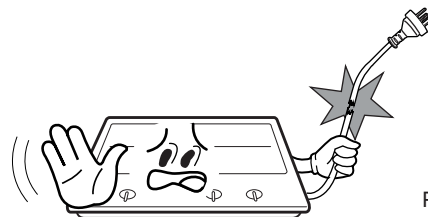
- Otherwise, the pot on the product may fall down causing a burn and injuries.
- Do not use the product on moveable place such as vehicle, boat and etc.



Prohibited

### ■ When you plug out, do not pull wire out harshly.

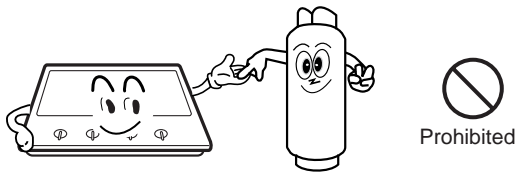
- Power cord could be damaged or it might cause an electric shock or fire.
- Hold the power cord then plug out.



Prohibited

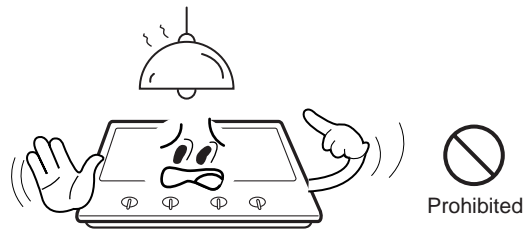
## Warning

- Make gas pipe as short as possible.



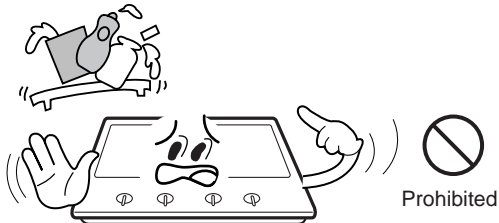
- Do not install the product under any plastic lighting device.

- The heat emission from product could deform the lampshade. It could cause fire.



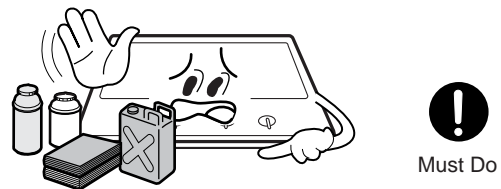
- Do not use the product under something that can easily fall down.

- Such things may fall down and cause product damage and fire.



- Do not place any objects in front of the product while using.

- Such objects may be overheated and damaged, and cause fire.



- When you use product, choose the size of pots according to the table. If you use an excessively big pot, product may get deformed or damage. Also it may cause abnormal operation.

- It's dangerous that product or handle may deform.



Standard pot size for each burner

Gas consumption (kW)	Diameter of standard pot(diameter φ)
1.26 or less	14
1.26above 1.60or less	16
1.60above 2.02or less	18
2.02above 2.44or less	20
2.44above 2.93or less	22
2.93above 3.49or less	24
3.49above 4.19or less	26
4.19above 5.23or less	28
5.23 above	30

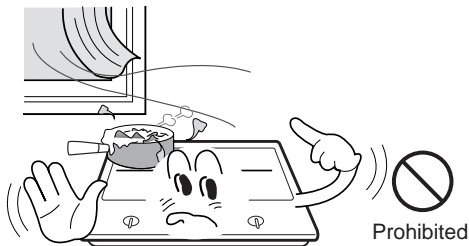
※For gas consumption, refer to specification. (Unit:cm)

# Safety Caution

## Caution

■ Do not use the product at windy place (due to fan and etc) or where wind blows from the behind of the product.

- The product inner part may be damaged; the safety device may be malfunctioned; the product may be badly ignited; and etc. Use any home appliances with a fan far away from the product.



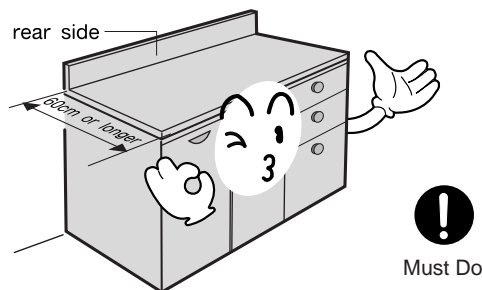
■ Do not repeatedly ignite the product. If the product has not been ignited and needs be ignited again, ignite it again after the live gas disappears. (3~4 seconds later).

- During the monsoon season or on a humid day, the product may not be well ignited due to the high humidity in the ignition part. If you repeatedly ignite the product in this case, some live gas may be accumulated around the product and may be exploded and fired.



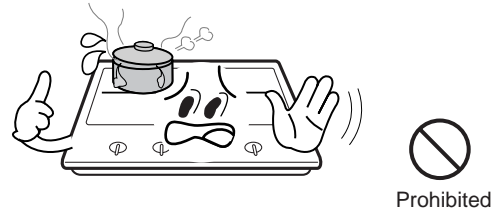
■ Install the product on the sink with a dept of 60cm or longer.

- Otherwise, the rear side may be discolored and deformed.



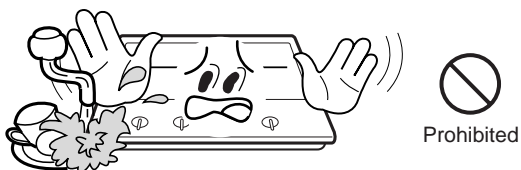
■ Do not let water or soup overflowed while using.

- If the top plate of the product is contaminated with overflowed-liquid and continuously heated, bad odor may be detected and the pot may be damaged.
- If the top plate of the product is contaminated with any alien substance, wipe it out clearly. Otherwise, the plate may be stained.



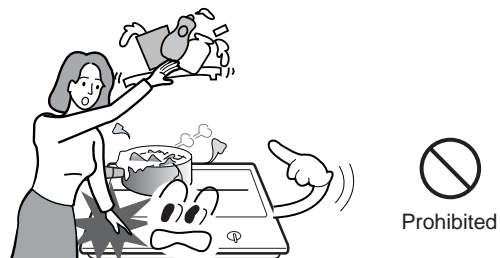
■ Do not install the product where water may splash.

- Splashed water may cause electric shock and short circuit.



■ Keep your body and clothes away from the flame while using.

- The clothes may catch fire and you may be burned.

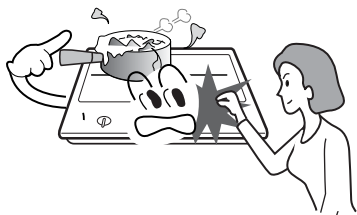




## Caution

### ■ Keep your face away from the burner while igniting.

- You may be burned and injured by the heat of fire or explosion.



Prohibited

### ■ After washing the burner head, dry it completely.

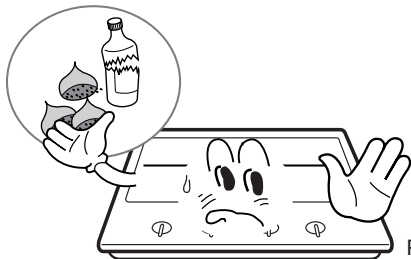
- If it is incompletely dried, it will not be well ignited or will be incompletely combusted.



Must Do

### ■ Do not heat any unpeeled fruit or capped bottle.

- Heat it after peeling off. Never heat any bottles. Otherwise, it may be exploded and then the product will be damaged and you will be injured.



Prohibited

### ■ The bottom of pot should be clean.

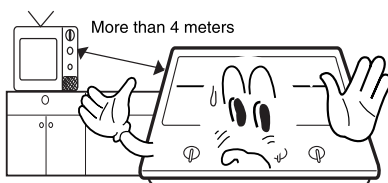
- If you heat the pot contaminated with alien substance or with soot, the efficiency of product will decrease and it may cause fire.



Must Do

### ■ Do not install the product near TV or a radio.

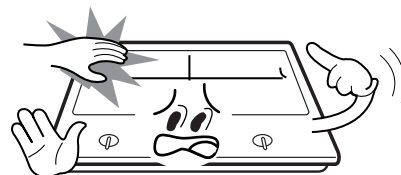
- TV or radio may make some noise. TV screen may have poor quality pictures. To prevent these, keep the product more than 4 meters away from the TV or radio.



Must Do

### ■ While/after using, be careful not to be burned.

- The product is hot while/after using. Be careful not to be burned.



No Touch



## Caution

### ■ Install the middle valve at the spot where you can control it conveniently.

- Do not have the middle valve and its hose pass on/through any furniture within 50cm or shorter near such furniture.
- If the middle valve has a fuse cock, check whether such a fuse cock has bigger capacity than the product has.



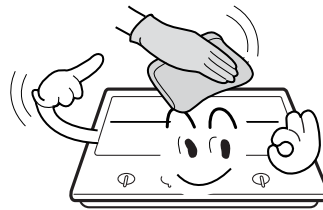
Prohibited



Must Do

### ■ Wear gloves to wipe any sharp things such as trivet and etc.

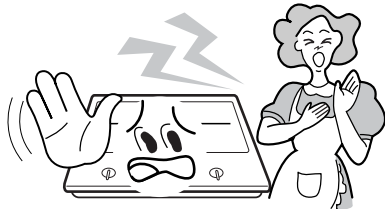
- Otherwise, you may be injured.



Must Do

### ■ If you have any mechanical substances such as artificial heart and etc in your body, consult with a doctor before using the product.

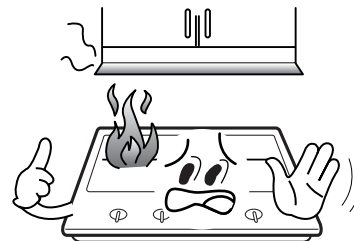
- Such mechanical substances may be influenced by the product while using.



Must Do

### ■ Do not ignite the product without any pots on it.

- Any item above the product such as a range hood may be heated and deformed/damaged.



Prohibited

### ■ Check the burner handle to be used before ignition.

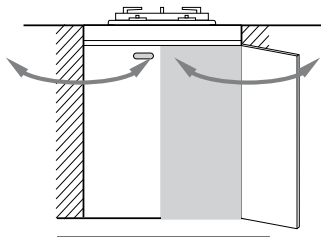
- If an undesired burner is ignited, it causes unnecessary gas loss and a burn.



Must Do

### ■ If you close the door to cabinet too fast, flame might turn off due to convection current.

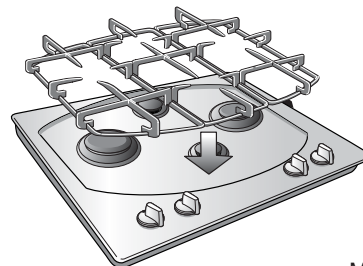
- If flame is turned off, safety device automatically stops gas supply safely. In this case, ignite again.



Must Do

### ■ Make sure trivet is in the right position.

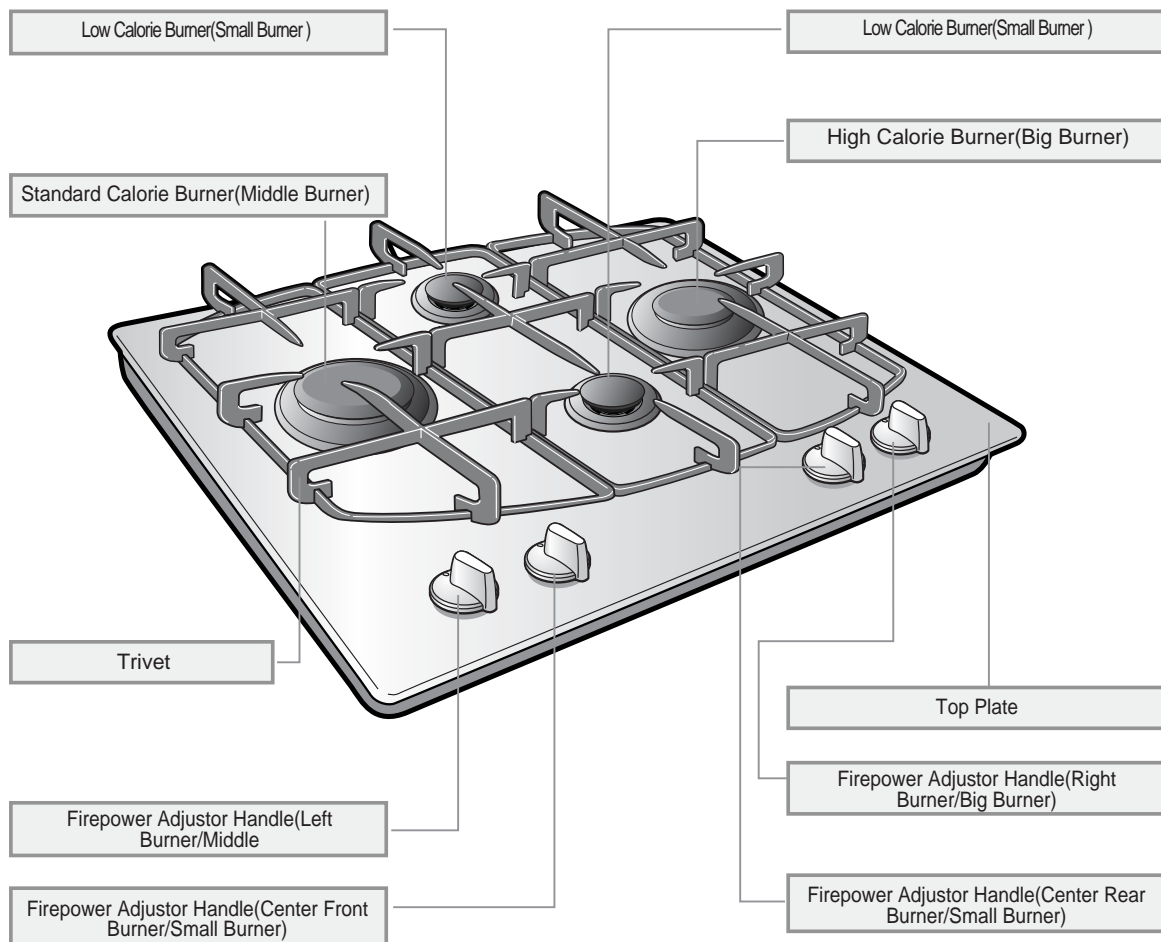
- Otherwise, safety related incident might occur. For example pot could fall down.



Must Do

# Name and Function of each Part

## Body



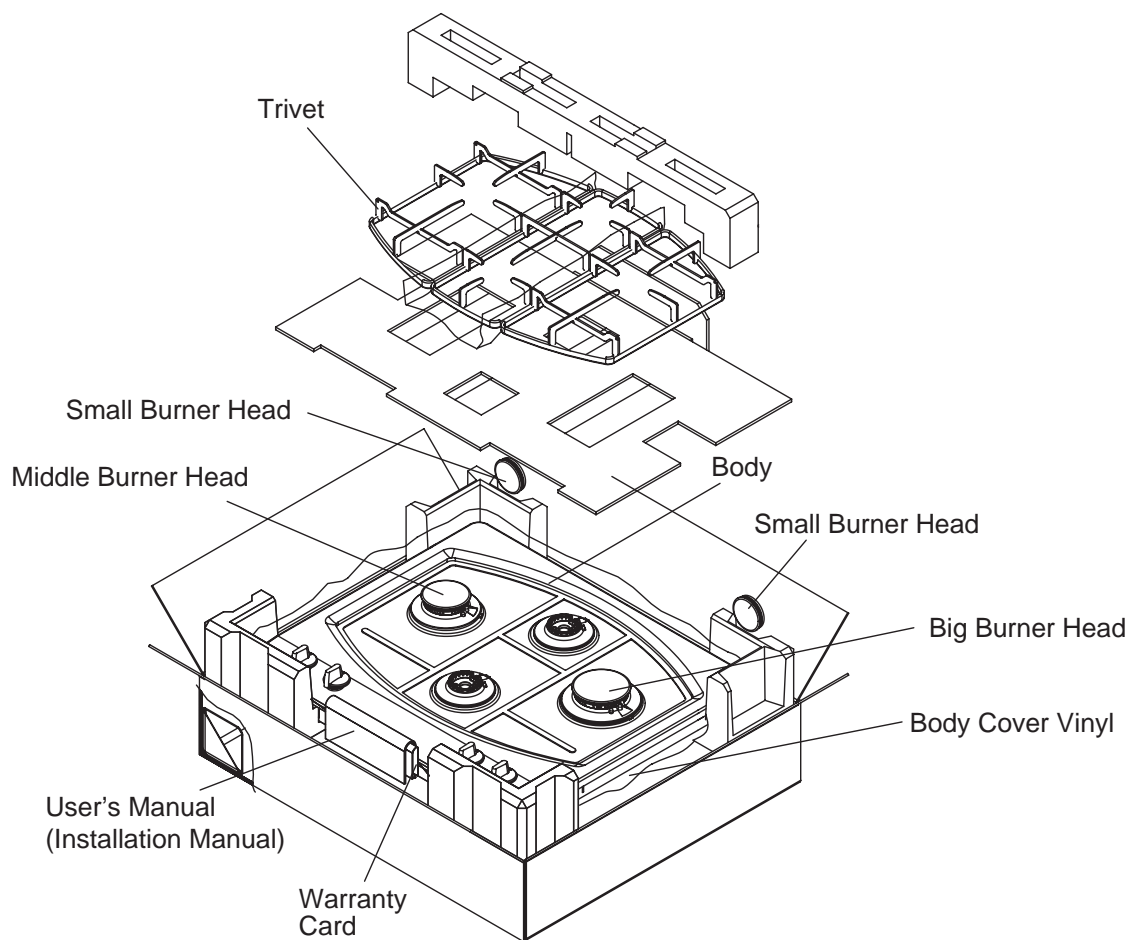
■ **This figure shows the product with every component part attached on their right positions.**

Check the component parts and attach them on their right positions as specified in Guide Book for Installation and Construction Work..

■ **This product is for 240V only.**

Check the voltage at home.

## Component Parts



### ■ This figure shows the product with its package opened.

- Check whether every component part is exactly at their positions.
  - Their positions may affect the product performance.
- Remove all tape, styrofoam, paper and etc.
  - They are all for the product protection only during transportation.
- Does the product meet the gas specification at your home?
  - Check the nameplate under the product.



### If you want to purchase a component part separately,

- Contact any of our distributors or service centers nearby.

# How to Use the Burner

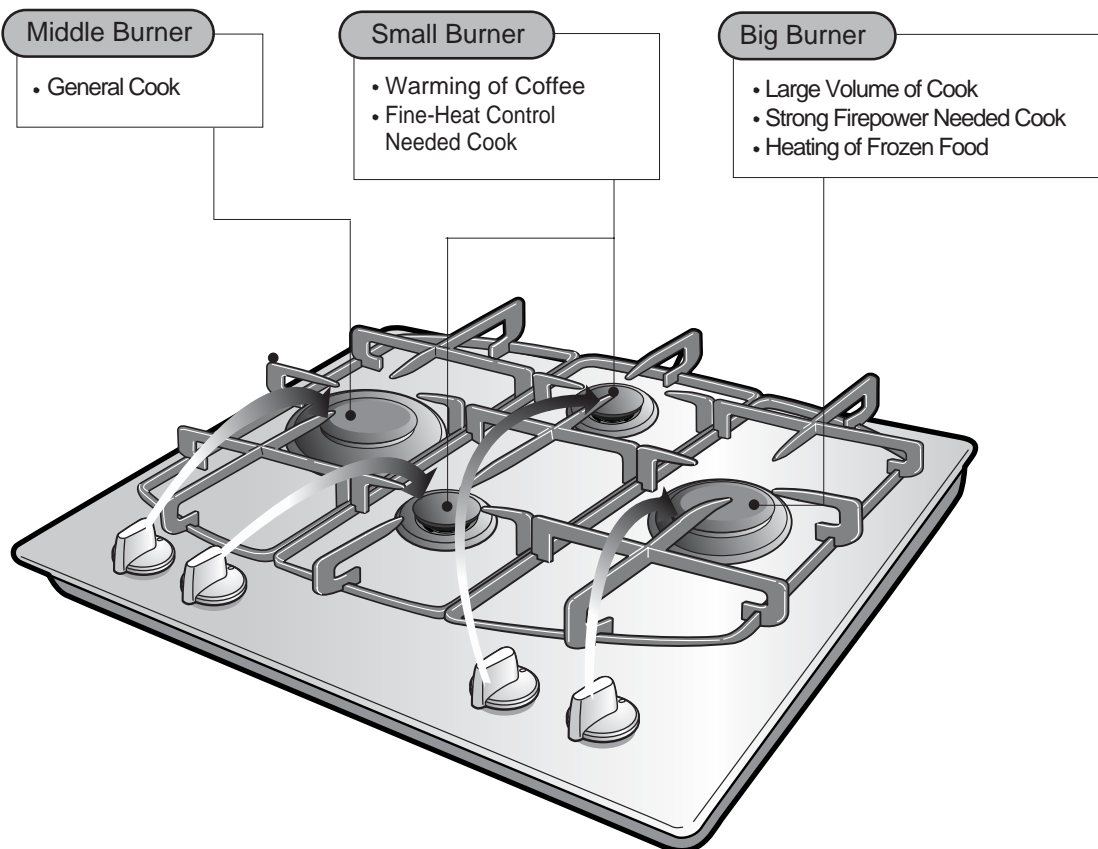
## Preparation



Must Do

1. Make sure that the gas is conformable and the gas hose has any problems.
2. Make sure that the firepower adjustor handle is on 'Extinguishment' position before opening the middle valve.
3. Check the burner to be used and the firepower adjustor handle.

## Choose the burner properly for usage.



Must Do

- Use the big burner for fried food.
- Use the big burner to heat frozen food or cook curry that is frozen in a pot.
- A pot with round bottom may fall down. (Be careful not to be burned.) Put the pot stably at the center of the burner to use.



## Turn on

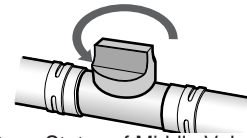
Make sure that the ignition handle is on 'Extinguishment' position.

### 1 Preparation



Must Do

- ① Make sure that the power plug is inserted into the outlet.
- ② Make sure that the firepower adjustor handle is on 'Extinguishment' position. Then, open the middle valve.



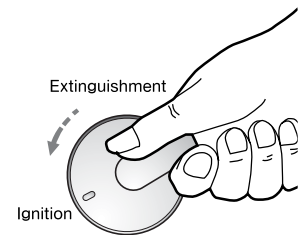
Open Status of Middle Valve

### 2 Ignition



Must Do

- ① Pressing the firepower adjustor handle, turn it toward the ignition (counterclockwise) direction completely. If you release the handle while turning, the product will not be ignited.
- ② Release the handle after confirming that the product has been ignited.
  - 4 burners will all discharge electricity but only the burner for ignition will be ignited.
  - If not ignited, turn the firepower adjustor handle to the extinguishment position and then ignite again.
  - If not used for a long time, the product will not be well ignited because the gas tube has full of air.

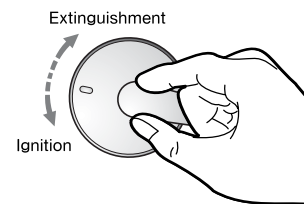


### 3 Firepower Adjustment



Must Do

- ① Adjust the flame by slowly turning the firepower adjustor handle within the range between the extinguishment and ignition.
- ② If the flame is extremely reduced or adjusted too fast, it may be extinguished. Be careful.



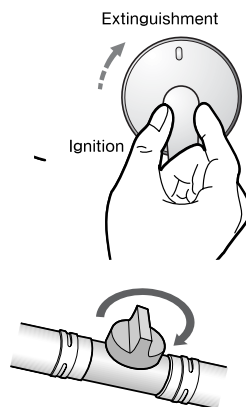
## Turn off

### 4 Extinguishment



Must Do

- ① Turn the firepower adjustor handle clockwise to the extinguishment position.
- ② When the burner is extinguished, it may sound 'Puck', which is the sound made when the flame is off and this does not show any abnormality.
- ③ Right after extinguishment, the product is still hot. Be careful not to be burned.
- ④ Close the middle valve.
  - Turn the handle as shown by the arrow.
  - The figure shows the closing status of the middle valve.



Closing Status of Middle Valve



Caution

- To prevent any fire accident or gas leakage caused by children, close the middle valve when the product is not used.



Prohibited

# Maintenance



## Caution



Must Do

- **Maintenance work should be done with the middle valve closed wearing gloves.**
  - Otherwise, you may be injured: Electric Shock, Fire and etc.
- **After maintenance work, make sure that there are no unnecessary items such as tools and etc inside the product. If there is some, remove it.**
  - Otherwise, the product may be damaged; fire may occur; and you may be injured.



## Warning



Prohibited

- **Do not disassemble/repair/modify the product.**

- The product must not be disassembled/repared/modified by other than our service engineers. Otherwise, the relevant person may be injured by abnormal combustion or malfunction.



Prohibited

- **Do not spray water on the product.**

- Do not spray water on the product including its top plate and etc. Otherwise, electric shock and fire may occur due to short circuit.



Prohibited

- **Wipe the product without using any inflammable substance such as thinner, benzene and etc.**

- Such inflammable substances such as thinner and benzene may cause fire.



Must Do

- **Wear gloves for maintenance work.**

- Otherwise, you may be injured.

## Daily Checkout!



Must Do

- **Are the burner head and trivet correctly assembled?**
- **Is the flame hole of the burner head clogged by overflowed soup?**
- **Are the heat sensor hem of the safety device for automatic block of gas and/or the ignition plug contaminated with any alien substance or soup dreg due to overflow?**

**Read this section carefully for correct maintenance!**



## Warning

- Maintain and clean the product wearing gloves.

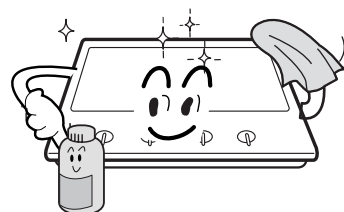
### 1. Surface of the Product

- **Wipe it well with a soft cloth.**
  - Wiping it with any metal or nylon brush may damage it.
- **Wipe overflowed part with neutral detergent and dry it fully.**
  - Alkali detergent may damage the coated face of product.

Usable	Unusable	
 Soft Cloth	 Nylon Brush	 Metal Brush
 Sponge Brush	 Edible Oil	 Acidic/Alkali Detergent
 Neutral Detergent	 Abrasive	 Thinner/Benzene

### 2. Top Plate of the Product

- Dried and attached overflow-substance may be too sticky to be wiped out. Wipe the product right after using.
- If too much contaminated, wipe the product using a dried towel with a neutral detergent, and then wipe it again using a dried cloth.
- If you wipe the top plate with a metal brush, it will be damaged.



### 3. Burner Part



- Clean it wearing gloves.
- Clean the flame hole of the burner from time to time. If the burner is contaminated, its flame hole is clogged making incomplete ignition.
- Take off the burner head. Clean the upper circumference of the burner body and burner head using a harsh brush. Use a drill for cleaning of the flame holes.
- If the flame holes are not drilled or the burner head has become thinned down due to a long period of use, replace it with new one and keep it clean all the time.
- After cleaning, dry the parts completely or assemble them to their original positions. If the ignition plug or its ambient part is wet, electricity is not normally discharged.
- The safety device for automatic block of gas should be cleaned without any hard brush and etc. If any soup is flown over, wipe it out immediately. Otherwise, the product performance will decline and its life will be reduced as well.

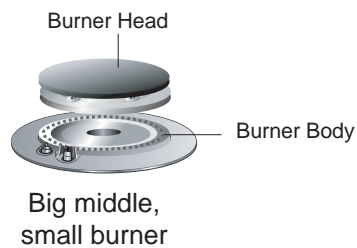


## 4. Assembly of Burner Head

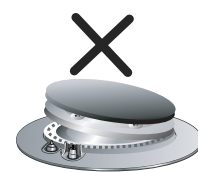
- Assemble the burner head onto the burner body correctly.



Warning



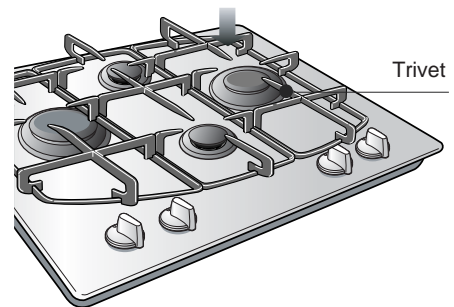
Good assembly



Bad assembly

- Place the trivet on its exact position.

- Otherwise, some problems like falling down of a pot may occur.



Must Do

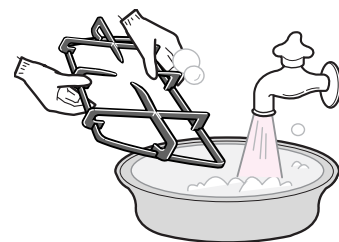
- After washing the burner head, dry it completely.

- Otherwise, the product may not be ignited or it may be ignited explosively.

## 5. Component Parts

- After the cooked food is cooled, wash the component parts including burner head, trivet and etc with a neutral detergent.

- After washing them with a neutral detergent, dry them completely.
- You must wear gloves when washing component parts.



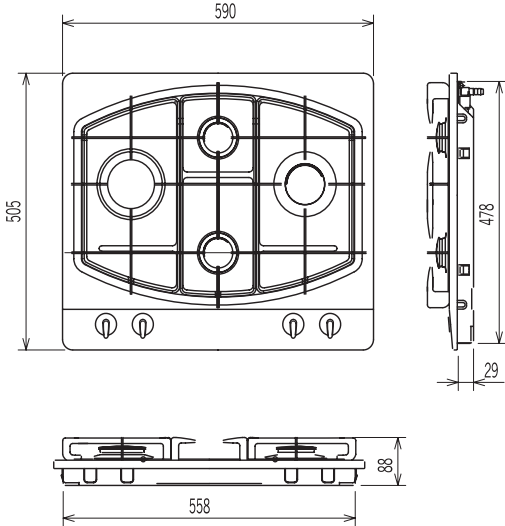
# Troubleshooting

**In case there is any problem in Gas Cook-Top Range, check the followings before you apply for A/S.**

Trouble	Cause	Action to be taken Not ignited
Not ignited.	• No Spark.	Check the Power.
	• Gas is used up.	Change gas container.(in case of LPG)
	• The burner head is badly assembled.	Assemble the head correctly.
	• The middle valve is closed.	Open the middle valve completely.
Badly ignited	• The middle valve is incompletely opened. • Gas supply is not enough.	Open the middle valve completely. Change gas container.(in case of LPG)
	• The burner head is badly assembled.	Assemble the head correctly.
	• The ignition plug is contaminated with alien substance.	Wipe such alien substance with a dried cloth.
	• The gas tube has some air.	Turn the ignition/firepower adjustor handle repeatedly.
	• The burner head flame hole is clogged.	Clean the burner head.
	• The burner head is badly assembled.	Assemble the burner head correctly.
Noise made when combusted and ignited	• The burner head is badly assembled.	Assemble the burner head correctly.
Fire off while using	• The safety device is contaminated with alien substance.	Clean the safety device
Yellow Flame	• The burner head hole is clogged.	Clean the burner head.
	• Different gas is used.	Check the gas used.
Unstable Flame	• The burner head is badly assembled.	Assemble the burner head correctly.
Gas Smell	• The gas hose is not well connected.	Connect the hose firmly.
	• The gas hose has crack or some hole.	Replace the hose with new one.

■ **For any other problems, please consult with the distributor which you have purchased the product or our service center.**

# Product Specification

<p>Dimension (Unit: mm)</p>				
Model	GN643EFX/XSA			
Produce Name	Gas Range (4 Holes)			
Ignition Type	Continuous Ignition Type			
Weight (Product Weight)	9.5 kg ( 8kg)			
Dimension	590mm (W) x 505mm (D) x 87mm (H)			
Gas Connection	G 1/2"			
Powe	240V. 50 Hz			
Safety Device	Thermo-Element Type Safety Device (S.V)			
Parts	User's Manual(Installation Manual), Big Burner Head (1 EA), Middle Burner Head (1 EA), Small Burner Head (2 EA), Firepower Adjustor Handle(4 EA)			
Gas Used	Big Burner	Middle Burner	Small Burner(2EA)	Total Gas Consumption
LN Gas (kW)	4.53	3.50	1.61	10.8

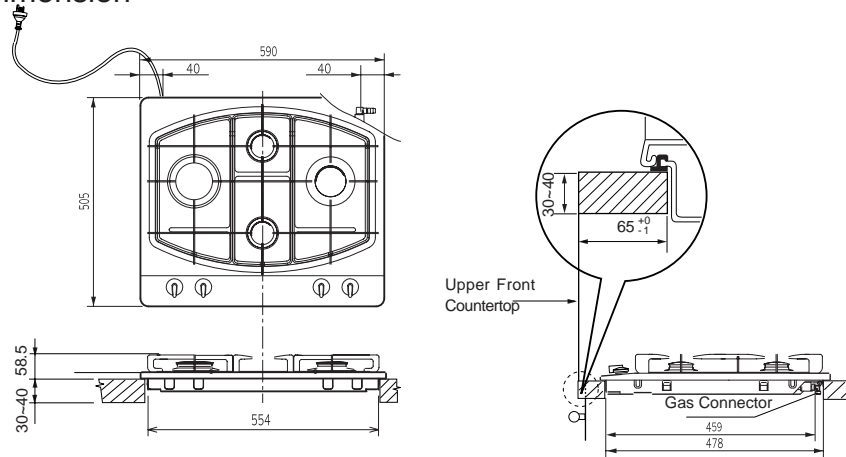
# Installation and Construction Manual



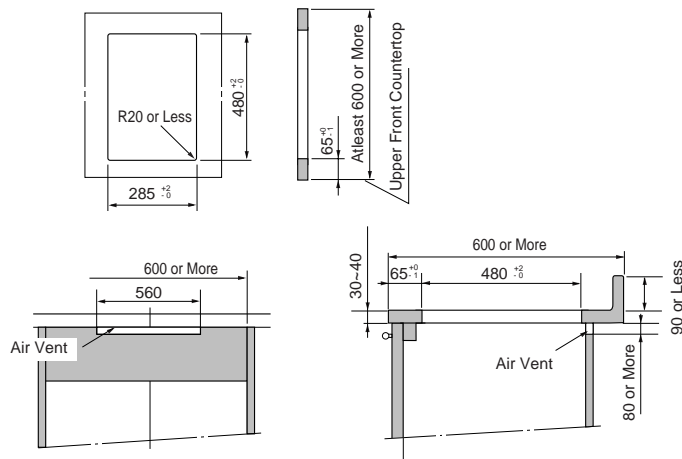
- Construction work must be done by a licensed builder. In particular, for gas connection, you must consult with a gas supply agency or licensed installation agency.
- To use this product correctly and prevent any potential risk, read construction manual then follow instructions.
- You must wear gloves when installing product.

## Drawing of complete installation

### ● Production Dimension

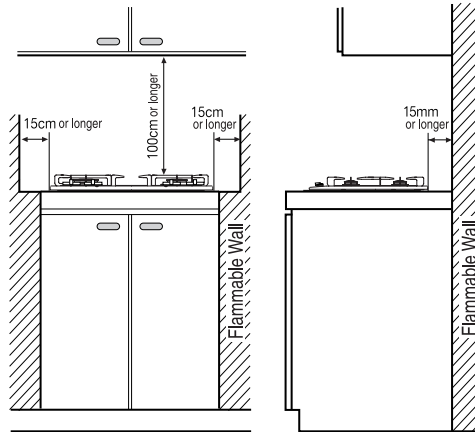


### ● Cutout Dimension



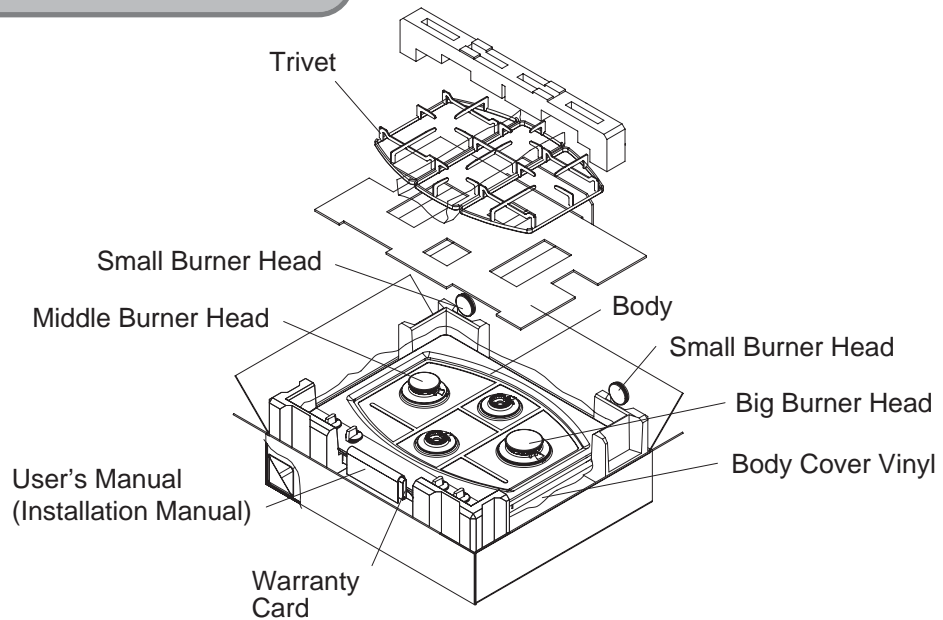
- Make an air hole with 560(W) X 80 (D) in size needed for combustion in the upper rear plate. If you don't have this air hole, it could have negative effect on the performance of product.

### ● Safe Distance



- If you install another appliances under this product(i.e. : dish-washer and etc.), have a distance at least 3c of more from product.
- There should be enough space between product and wall.
- There should be at least 15cm or longer gap from the product to the side of it.

### Drawing of complete installation

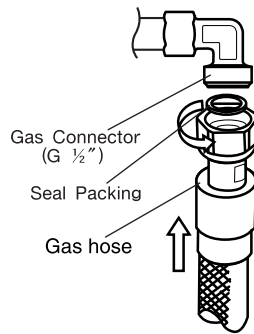


- The depth of countertop requires at least 60cm or more.
- The top plate of countertop should be made of HPM(high pressure melamine sheet) or the equivalent of it
- The countertop cutout must be prepared within the tolerance limits of dimension.
- Allow 65mm horizontal clearance between from the edge of front countertop to product.



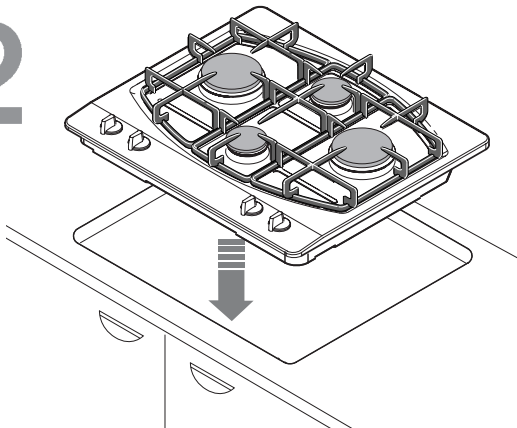
## Drawing of complete installation

1



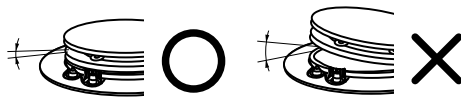
- Make sure of using the gas as specified on the nameplate. (LN gas)
- The gas connection work should be carried out by a qualified gas supply agency or gas piping facility agency.
- After completing pipe connection, you must apply a gas leakage test. Use product after you make sure of no gas leakage.

2



- Assemble product into the countertop.

3



- Place burner head onto corresponding burner body according to burner location correctly. Make sure that the burner head is not lifted up nor tilted.
- If burner head is not correctly assembled, ignition may fail.

## Service Information



ELECTRONICS

**If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care centre.**

Tel : 1300 362 603  
[www.samsung.com/au](http://www.samsung.com/au)

# Memo

