

OPERATION MANUAL

SMOKELESS BBQ ROASTER

(Ducted Type)

MODEL JX-C

- * Before operating this roaster unit, please read and understand the instructions specified in this manual for proper and safety use.
- * Retain this manual for your immediate and future references.
- * For maintenance and repairs, please contact the factory (Joytec Corporation) or the local distributors from whom you purchased the products .



Warning

Check your local gas supplier for the proper instructions to follow in the event the user smells gas. These instructions shall be posted in a prominent location.



Warning

Improper installation, adjustment, alternation and maintenance can cause property damage, injury or death.

JOYTEC COPORATION

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FOR YOUR SAFETY


FOR YOUR SAFETY


Do not store or use gasoline or other flammable vapors or liquids in the vicinity of this or any other appliance


WARNING:

Improper installation, adjustment, alternation, service or maintenance can cause property damage, injury or death. Read the installation, operating instructions thoroughly before installing or servicing this equipment.

- ** The following cautions indicate important safety subjects, please follow these directions to prevent injury or property damage.**
- ** Indications and their meanings are as follows:**

Danger: Improper operation without following this sign could result
 in a dangerous situation and death or injury .

Warning: Improper operation could lead to death or injury.


Caution: Improper operation could lead to injury or physical and property damage.


WARNING

 **Danger**


Burning charcoal may emit hazardous levels of carbon monoxide. Do not perform cooking operations unless the ventilation and exhaust systems are operating according to the manufacturer's specification. Failure to comply may result in death by asphyxiation (carbon monoxide poisoning), physical and property damage.

Samples of sign

Caution - Electric Shock




Indicates cautions (including warnings).

Contents of the caution are shown in or around  with pictures or words.
The sign in the left shows “**Caution - Electric Shock**”

No Disassembly




Indicates forbiddance.



Contents of the forbiddance are shown in or around  with pictures or words.
The sign in the left shows “**Do Not Disassemble**”.

Check Gas Source



Indicates Compulsion.

Contents of the compulsory are shown in or around  with pictures or words.
The sign in the left shows “**Check Gas Source**”.

<h1>WARNING</h1>
 Danger
<p>If you smell gas, immediately stop operating the roaster, turn off the gas valve, open windows and doors to release the gas. Contact the local gas supplier or fire department from a neighbors phone. Never light a fire, turn on or off the light switches, plug or unplug any electric appliances (ex. exhaust fan), or use the telephone. The Leaking gas can catch fire or cause an explosion</p>
No Fire 

WARNING

Use only the type of gas specified on the nameplate. Improper gas source will cause fire, burns, or carbon monoxide poisoning or mechanical troubles. If the gas source is not clear, contact the distributor of the roaster or the gas supplier.

Out of Order



In case of relocation, check whether the type of supplied gas corresponds to the gas source named in the plate on the roaster.

Improper gas source will cause the fire, burn, or carbon monoxide poisoning by abnormal burning, mechanical troubles. If the gas source is not clear, contact the distributor of the roaster or the gas supplier.

Check Gas Source



Be sure to keep the roasters' area free and clear from combustible materials. Combustible materials may cause a fire.

Forbiddance



Never leave the roaster unattended while in operation.

Abnormal operation may cause a fire.

Never leave the roasters unattended or go to bed with the roaster ignited.

Forbiddance



Follow the installment instructions for the correct clearances to combustible construction. Improper distance may create a fire hazard.

Installment Standard



Conduct visual examination the ventilating system during normal maintenance and clearing.

Warning



For safety reason, before operation, check the clearance to combustible and non-combustible construction such as floors, walls, counters.

Warning 

WARNING

Use the specified type of table.
Improper type of table may create a fire hazard condition.

Installation Standard 

Never remodel the setting around the roaster after installing the roaster.
Remodeling may cause problems or conflicts with the installation standard, and
may cause incomplete combustion or fire.

Forbidden 

While using the roaster, operate the exhaust fan to remove products combustion
and to let fresh air into the room, and never obstruct the flow of combustion
and ventilation air. Ensure the following Air Supply Volume and Exhaust Air
Volume for each roaster unit is provided.

Required Air Supply Volume 300 m³/h per roaster
Required Exhaust Air Volume 300 m³h per roaster


**The ventilation and exhaust systems must be in operation for any and all
burner and cooking operations.**

Ventilation 

Never use the roaster without water in the water tank.
Not enough water may cause overheating.

Forbidden 

Never disassemble or remodel the roaster.
Remodeling or disassembling may cause abnormal operation or troubles.
Contact your local service representative or the factory if you have any problems.

No Disassembly 

In the event of an emergency such as earthquake or fire, immediately stop using the roaster. If you experience abnormal burning, odors or sounds coming from the roaster, shutoff the gas and discontinue operation until the problem is corrected. Using the roaster under such improper situation can cause fire, injury or property damage.

Stop Using



WARNING

In the event of power failure or prolonged power failure, never attempt to operate the roaster unit. Immediately check that the gas valve is turned to the “Close Position”.

Stop Using



Each roaster unit, when installed, must be electrically grounded.

Warning



Be sure to disconnect power before cleaning, maintenance and repairs.

Warning



Install the roaster on a stable, solid, and level surface. Failure to do so may cause injury or property damage.

Installation



Never install the roaster to the wet, damp or dusty locations. Installment under those circumstances will cause the incomplete combustion or mechanical troubles.

No Installment



Never use the roaster for any purpose other than the original usage specified by the manufactures. Improper usage will may cause injury or property damage and may void the warranty.

Out of Use



Use only the roasting plate, grilling mesh and grate supplied by the manufacturer. The use of improper parts may cause carbon monoxide poisoning, injury or property damage and may void warranty.

Forbidden 

Never use a large pot that covers the grate. Too large pot may cause carbon monoxide poisoning, overheating or damage to the roaster.

Forbidden 

WARNING

Adjust the flame and heat according to the size of pot.
Too high of a setting may cause the handle to burn.

Heating Power Adjustment 

Keep your face away from the burner when lighting and while in operation.
Bringing the face close to the fire may cause burns.

Watch Out Heating 


Make sure to prevent your customers or anyone from using the roasters for anything other than the intended use. Never use the space below the roaster to put anything for storage or safekeeping.
Improper usage may cause the improper operation, property damage, injury or death

Forbidden 

The roasting plate, grilling mesh and roaster body are hot when in operation or just after using the roaster, never touch them except the control part.
Touching the heated parts may cause burns.

Caution - Hot 

As the roasting plate, grilling mesh, water in the water tank are heated while using or just after using the roaster, use the gripper to carry them and be careful not to drop the parts or spill the water.
Dropping parts or spilling water will cause the personal injury or burns.

Caution - Hot 

For proper operation and safety, inspect the clearances and air openings into the combustion chamber daily.

Warning



Shut off the gas valve at the end of the day or while not in use.

Valve

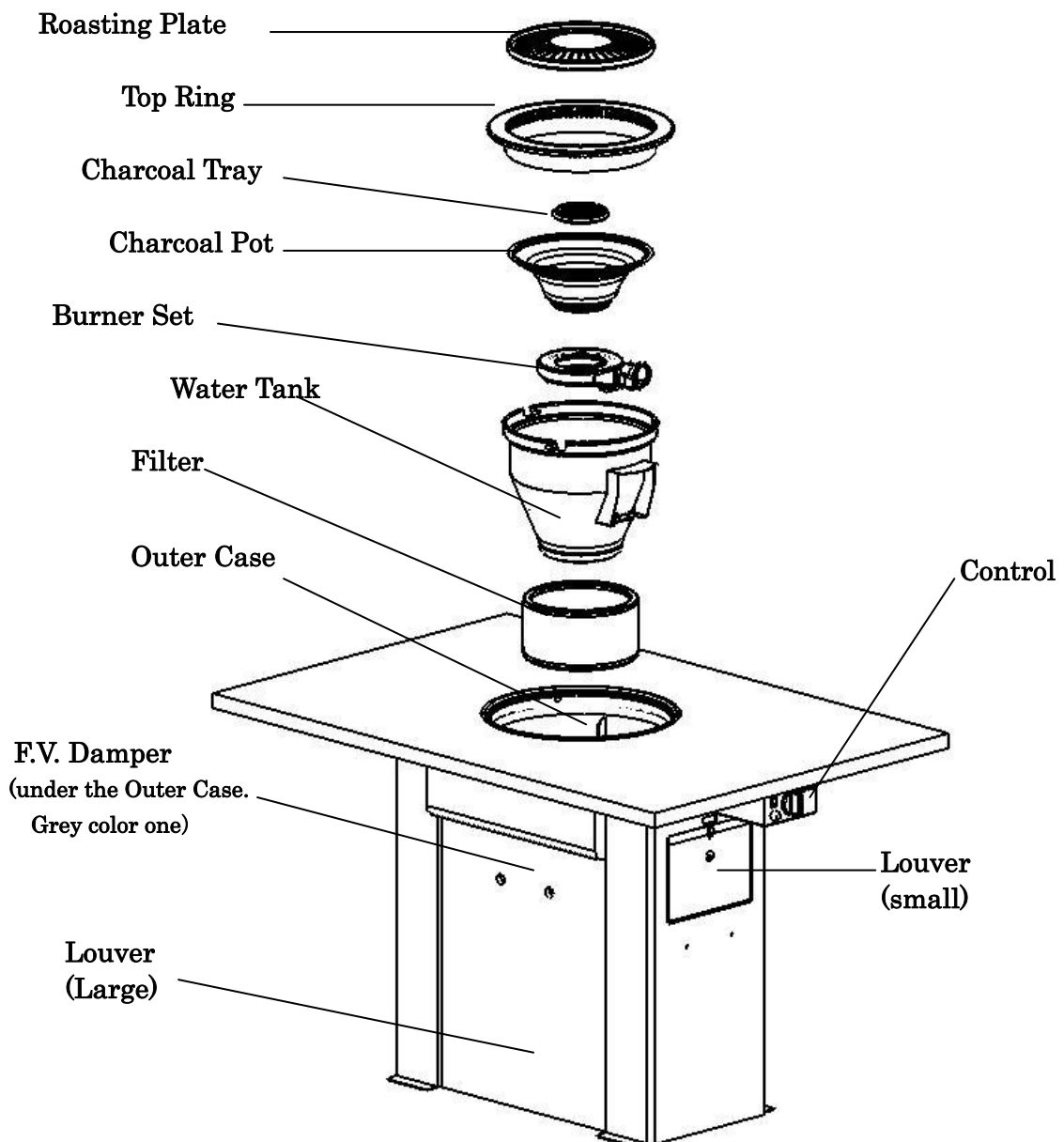


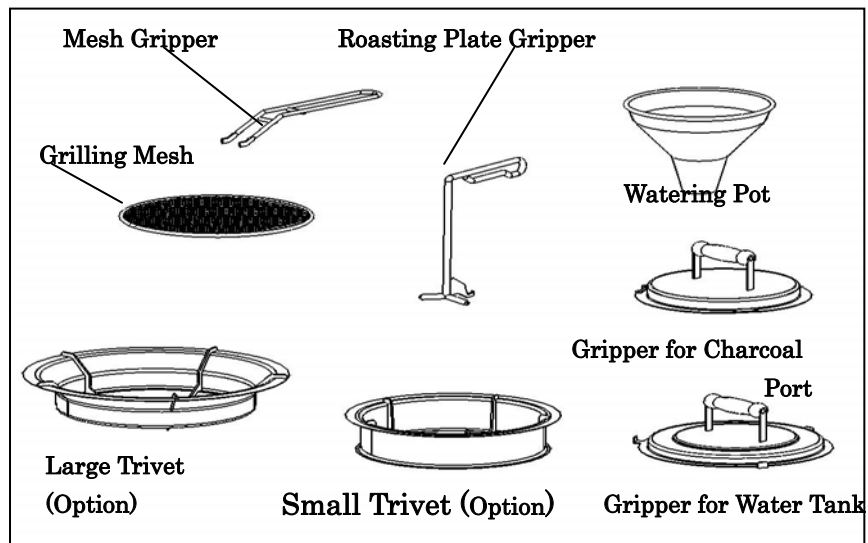
During lighting storms, shut down the circuit breaker or disconnect the power cord. Electric current surges caused by the lightning will cause abnormal operation or damage.

Pull the Plug Out



MAIN PARTS





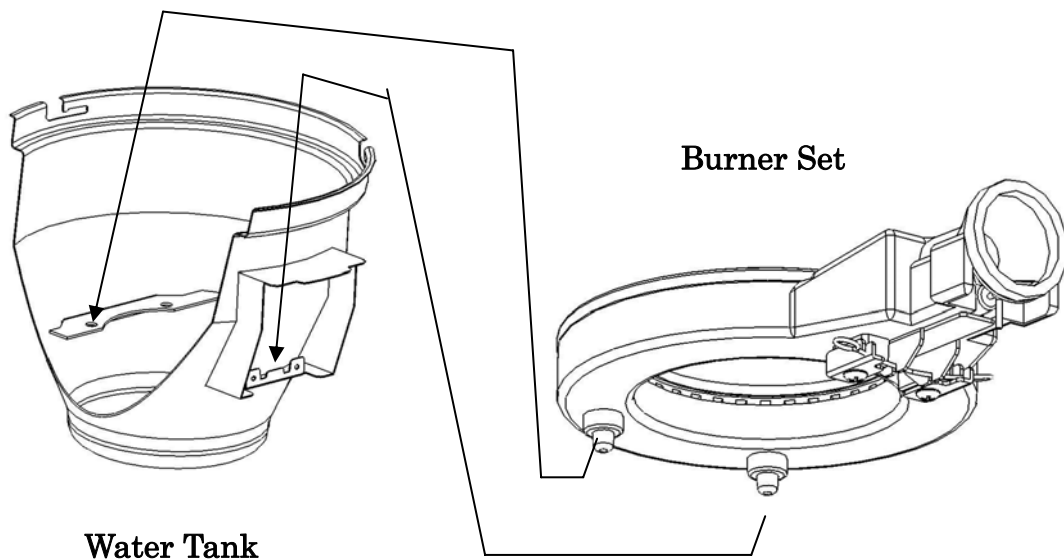
PREPARATION

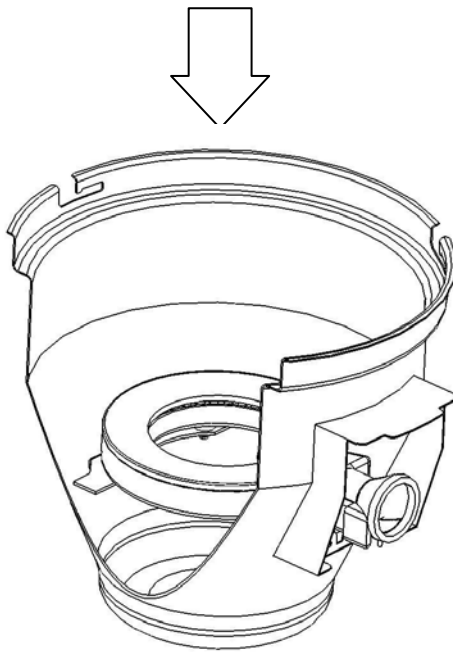
(As for the names of parts, see page 8.)

SETTING EACH PART

- 1 Set the "FILTER" into the outer case.
2. Set the "WATER TANK" and "BURNER SET" into the outer case.
Note: Put a Water Tank in the roaster unit after setting a Burner Set to a Water Tank beforehand; can be easily done.

Check whether a projection at leg of the burner is set into a hole on the water tank, and the burner-set should be set correctly and firmly.
 Improper setting of Burner Set will cause to incomplete combustion or ignition failure



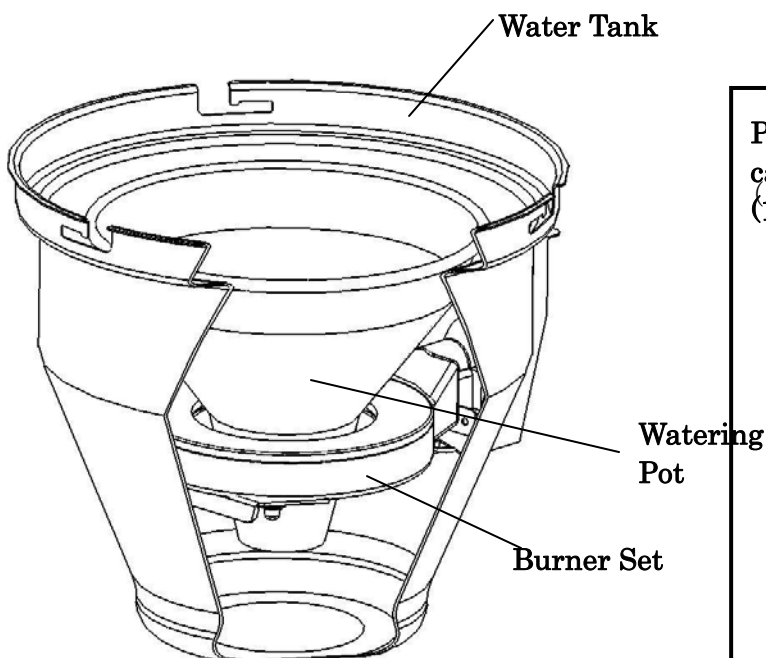


3. Put the mountain of WATER into the water tank..

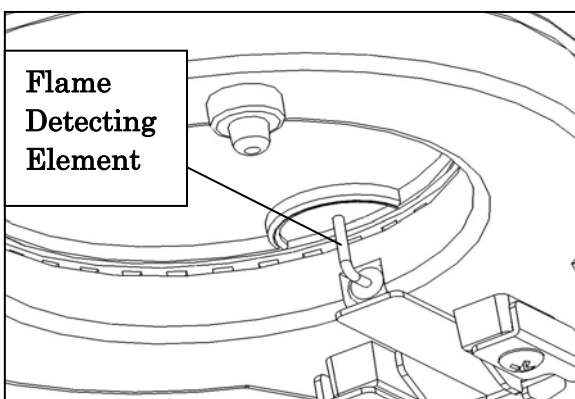
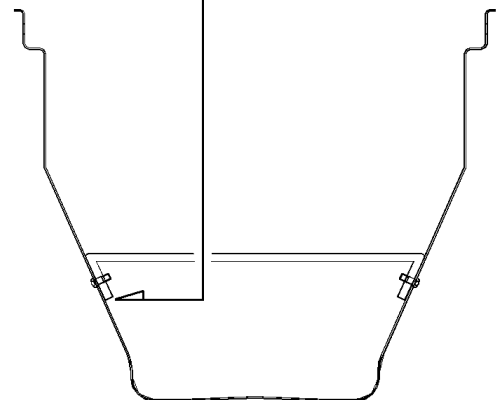
Note 1): 1,400 cc is a an appropriate amount.

Note 2): Use the provided WATERING POT.

Note 3): When putting water, pay attention not to splash water onto the burner and/or burner-head. Splashed or wet burner/burner-head will cause to ignition failure



Put water in an aim at this line of the part catching a burner.
(1,400 cc is an appropriate amount.)



Flame Rod

4. Set the CHARCOAL POT, CHARCOAL TRAY AND TOP RING.
5. Put CHARCOAL onto the charcoal tray. (500 grams. are appropriate amount.) When supplying charcoal, try to use the used charcoal on a bottom for earlier igniting.

Warning: This Roaster is designed for use with charcoal.
Do not attempt to burn any other solid fuels.

DIRECTION FOR USE

Igniting , Lighting Charcoal and Flame Adjustment

Warning

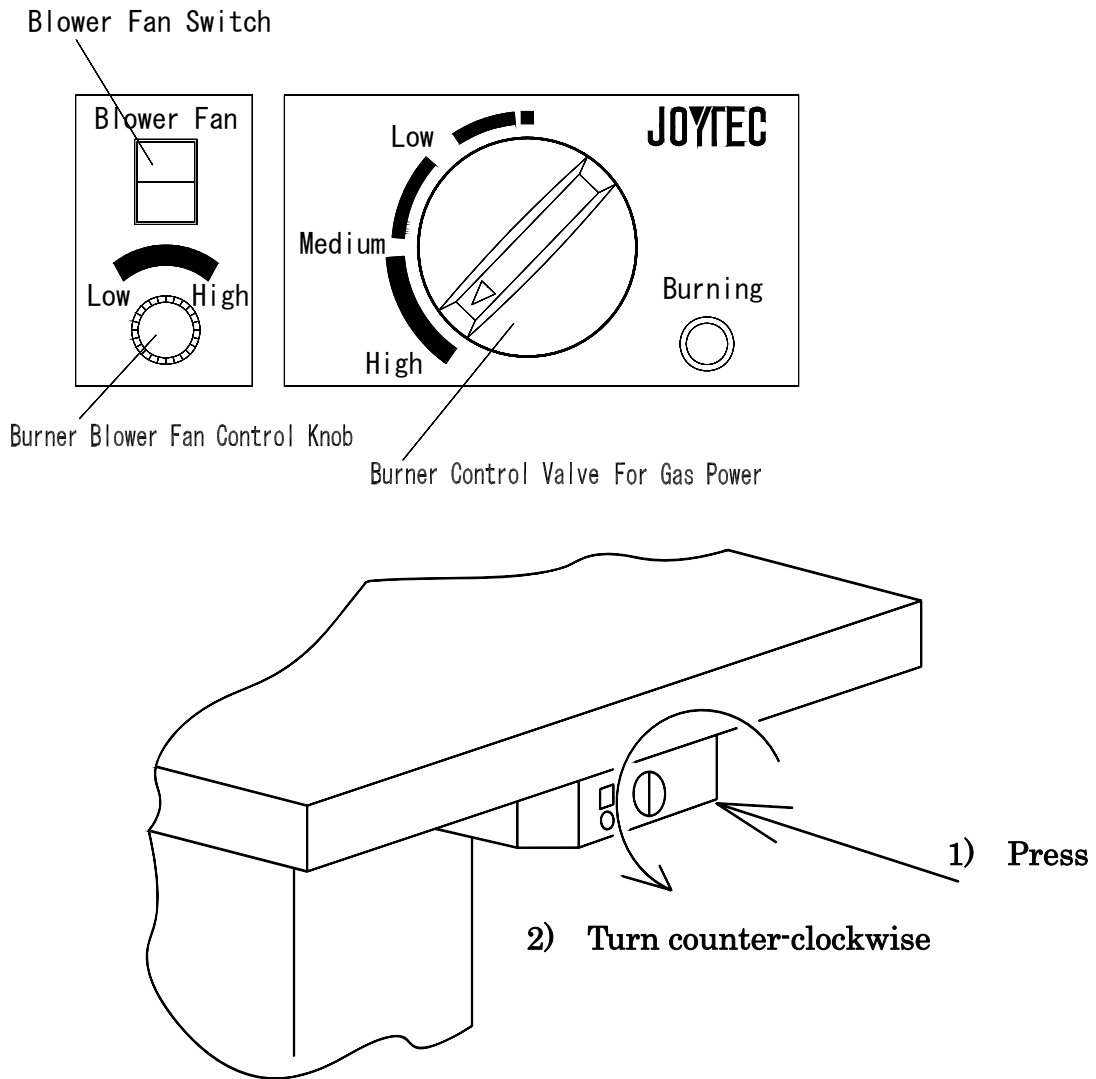
Operate the exhaust fan before igniting.
Without ventilation, the roaster will burn incompletely and cause carbon monoxide poisoning, injury or fire.
If the table cover (table-lid) is equipped on the roaster, remove the cover before igniting.

Ventilation



1. Turn OFF the Burner Assist Blower Fan Switch.
2. Press the ignition switch knob and slowly turn it to the “High Setting”.

Turn and Hold burner knob for a few seconds.
The roaster will make ‘tweet-tweet-tweet’ sound and be ignited.
When the roaster is ignited, the burning lamp lights in red.



During the initial operation, or if the roaster has not been used for a long time, it may take a couple of attempts to light.

If the roaster fails to ignite after a few attempts, turn the switch back to the “Closed Position”, wait 15 seconds and try to ignite again.

Work of the re-ignition within 15 seconds can not be done due to a mechanism of the safety device's working.

3. After igniting the gas, turn ON the Blower Fan Switch.

Turn the Blower Fan Control Knob to the right to the position of ‘High’ (direction of 8 o’clock).

Keeping the blower fan control switch to the position of “High” and burner control valve to the position of “High”, will ease charcoal to be ignited faster

4. After igniting the charcoal, turn off the burner control valve.

Standard time is approx. 5 to 8 minutes after starting ignition of gas.

Turn the burner control valve clockwise to the fully ‘Closed’ position.

The burning lamp (red) will go off.

5. Adjustment of Blowing Power (Heat Power of Charcoal)

For adjusting blowing power, turn the Blower Fan Control Knob.

For the High power, turn the knob clockwise, and for the Low power, turn the knob counter-clockwise.

When customers are using the roasters for cooking, pay close attention to the condition of charcoal flame.

(When charcoal is burned out and/or the charcoal heat power comes to be low, put and add charcoal)

Be careful not to exceed manufacturer's recommended amount.

Cautions and requests

When the grilling mesh is replaced on the occasion of customers flow, check the amount of the water in the water tank and add the water if necessary.

In case of incorrect water level, a warning buzzer will sound and the unit shut off the gas.

Grilling Mesh, Charcoal Tray, Charcoal Pot, Water Tank are heated while using or just after using the roaster, use the Gripper or Holder to carry them. Never touch them. Touching the heated parts will cause burns.

Do not shut off ventilation and exhaust fans until the charcoal has been removed or completely extinguished

EXTINGUISHING (after operation)

1. Turn OFF the blower fan switch.

Check the gas control valve is turned fully to the right "Closed" position.

2. After cooling, turn off the exhaust fan switch.

This is to cool the internal body of roaster, devices, etc.

3. Pay careful attention to handling the remaining charcoal

and ash.

Careless or Improper handling of the remaining (charcoal) and ash will create a fire hazard, burns or carbon monoxide poisoning. Dispose of hot ash in accordance with local codes.

Ashes should be placed in a designated hot ash disposal accessible.

CLEANING & MAINTENANCE

For the proper operation and safety, make sure to carry out daily cleaning of the following parts:

1. Grilling Mesh

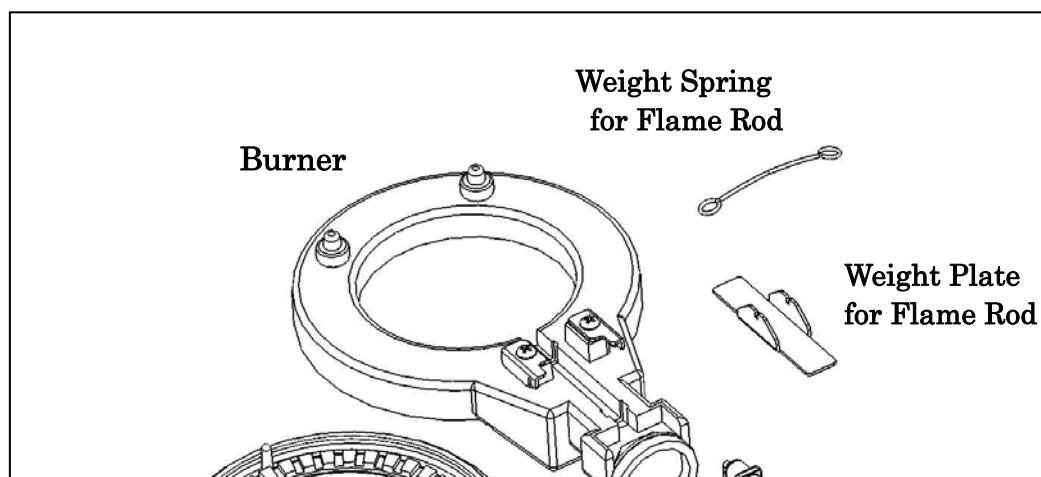
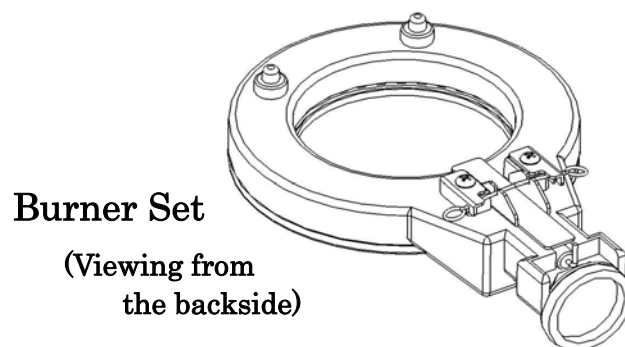
Wash the grilling mesh with soaking it in the neutral detergent each time it becomes dirty every day.

2. Top Ring, Charcoal Tray, Charcoal Pot and Water Tank

Wash the top ring, charcoal tray, charcoal pot and water tank with neutral detergent each time it becomes dirty every day.

Use caution when handling these parts. Rough or careless handling will cause cracks or chips to appear in the enamel and will allow penetrating water to cause rust.

3. Burner Set



Flame Rod

Burner Head

a) For Burner

Remove the dirt with metal brush.

As the burner is casting, never wash the burner in the water, or it will gather rust.

In case the burner is immersed or washed in water, dry the burner completely.

b) For Burner Head

Check the clogging of the burner ports. Remove the dirt with metal brush. (Clogging of the burner/burner head will cluster the flame on one side and will cause incomplete combustion.)

In case the burner is immersed or washed in water, dry the burner head completely.

c) For Flame Rod

Please clean regularly.

In case the flame rod is immersed or washed in water, dry it completely.

Stuck oil, dirt or wet on around the area will cause error (temperature failure) to detect the temperature of the Burner, and will cause malfunction of the safety device.

4. Filter

Soak the filter in the solution of detergent (for 2 hours) more than once a week, wash the filter with clean water, and then dry it completely.

- ※ Dirty filter will restrict the ventilating capacity.
- ※ Never use an alkaloid solution or detergent.

5. Outer Case

Wipe inside of the outer tank with soft cloth or rag regularly. Stuck oil, dirt, cooked meats, etc. may cause a fire.

6. Electrode Spring (Flame Failure Safety Device)

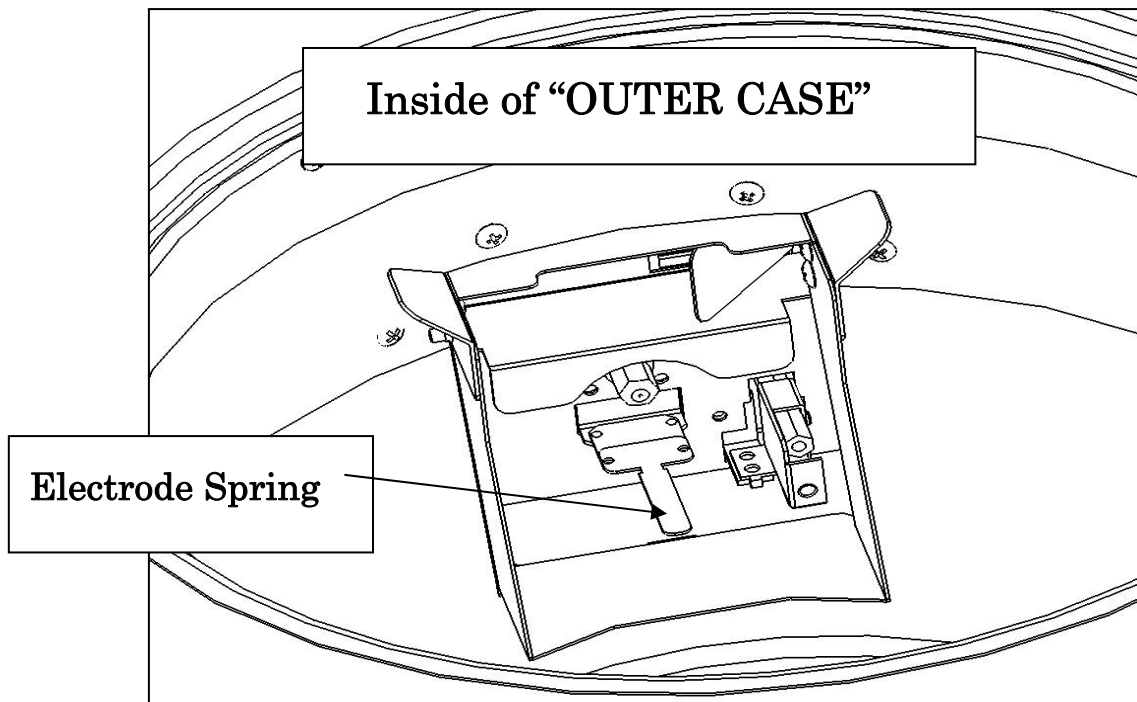
For safety (Flame Failure Safety Device), a Flame Rod is installed

in the roaster unit. The electrode spring is a point of contact part receiving a signal of a frame rod on a burner.

When this electrode spring is stained and dirty, it will cause error (temperature failure) to detect the temperature of the Burner.

The Flame Rod is designed to detect incorrect flame temperature, and will shut off the gas automatically as “FLAME FAILURE SAFETY DEVICE”.

Therefore, always keep the area around the detector clean with wiping regularly. The electrode spring is transformed easily and handle it carefully.



7 F. V. Damper (Fire Volume Damper)

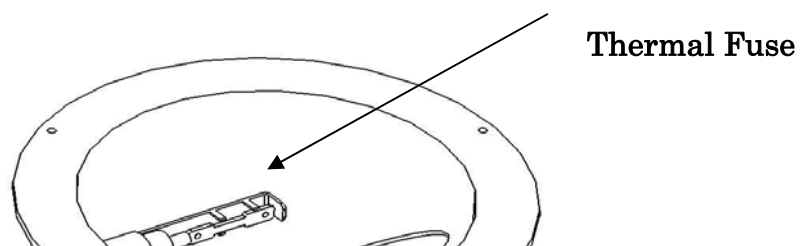
Wipe the damper with soft cloth (or rag) regularly.

Soiled damper with stuck oil will be an obstacle for correct operation of fire-protection, and will cause the fire.

In case the F. V. Damper is operated (shut), turn the holder for temperature fuse (thermal fuse) counter-clockwise, and remove the thermal fuse for changing. Set the holder for temperature fuse for recovery.

The F. V. Damper (Fire Volume Damper) is designed to shut automatically in case the flame tries to flow into the exhausting-pipe.

F.V. Damper



SPECIFICATION

Model No.: JX-C (Charcoal Type, Gas use for igniting charcoal)

Electrical: 220V, 1Ph, 50/60Hz.

Electric Consumption: 16 W

Water Tank Capacity: 1,500 cc (Max: 1,900 cc)

Required Exhaust Air Volume: 300 m³/h

Required Fresh Air Supply Volume: 300 m³/h

Required Resistance Air Pressure: 160 Pa

Cooling Load: 4.12 kW

Gas Consumption: City Gas 3.84 kW (3,300 Kcal/h)

L.P. Gas 3.84 kW (0.27 Kg./h)

Ignition: Pilot Light Ignition

Safety Devices:

- 1) Automatic Gas Shut-Off (Flame Failure) Safety Device**
- 2) Back-Fire Protection Device**
- 3) Electric Leakage Protection Device**

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How to change Thermal Fuse

This photograph shows
a normal state.

This photograph shows
the state that a thermal fuse blows out.

Thermal
Fuse

Pull out a Fuse Holder.

Fuse Holder

Thermal Fuse

Set the thermal fuse into the fuse-holder as shown
in the above photograph.

Insert the fuse-holder into the FVD.

Pin

“Lock portion”

Lever

Turn the lever counterclockwise.

Hang the "Lock portion" on a pin of a fuse-holder.