

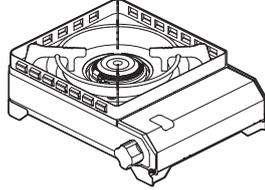
Be sure to read this entire instruction manual before using this product.
Always keep the instruction manual with the product.



FORE WINDS
SAVOR YOUR ADVENTURE

Instruction Manual

FORE WINDS Rugged Camp Stove



Listed by CSA



Model: FW-RS01

This appliance is for use as an outdoor only camp cooking appliance.

ANSI Z21.72-CSA 11.2-2019 Camp Stoves

 DANGER	<p>CARBON MONOXIDE HAZARD This appliance can produce carbon monoxide which has no odor. Using it in an enclosed space can kill you. Never use this appliance in an enclosed space such as a camper, tent, car or home.</p>
 Warning	<p>Improper installation, adjustment, alteration, service or maintenance can cause injury or death. Read the installation, operating and maintenance instructions thoroughly before installing, operating or servicing this equipment.</p>
WARNING	
<p>FIRE OR EXPLOSION HAZARD If you smell gas:</p> <ol style="list-style-type: none"> 1. Do not attempt to light appliance. 2. Make sure appliance is in the off position. 3. Extinguish any nearby flame(s). 4. Shut off cylinder fuel supply valve if so equipped, or if equipped with a disposable fuel cylinder, disconnect cylinder. 5. Leave the area immediately. 6. Allow gas to dissipate 5 minutes. 7. If gas smell has dissipated from the area, of the appliance, and fuel supply, follow gas connection procedures. 8. If you smell gas again, follow steps 1-6 and have appliance serviced. <p>Failure to follow these instructions could result in fire or explosion, which could cause property damage, personal injury, or death.</p>	
<p>FOR YOUR SAFETY</p>	
<p>Do not store or use gasoline or other liquids with flammable vapours in the vicinity of this or any other appliance. </p>	
<p> WARNING : This product and all products that burn gas can expose you to Carbon Monoxide which is known to the State of California to cause birth defect or other reproductive harm. Always use in well ventilated areas. For more information go to www.P65Warnings.ca.gov.</p>	
<p> WARNING : This appliance must NEVER be used without the drip pan and grate provided with this appliance installed in their proper position. Attempting to cook without these parts in place may cause overheating of the fuel canister, resulting in a fire or explosion.</p>	

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Be sure to read this Instruction Manual before use.

<Before use>

In order to ensure safe and correct usage of this product as well as to prevent injury or physical damage to you and others, there are many symbols in the instruction manual to explain the product. The symbols and their meanings are explained below. Please ensure you have carefully read and understand the content before reading the main text.

 Danger	This symbol indicates matters that may lead to death, serious injury or fire if ignored or incorrectly handled.
 Warning	This symbol indicates matters that may lead to imminent risk of death or serious injury if ignored or incorrectly handled.
 Caution	This symbol is displayed along with instructions that, if ignored, and if the device is inappropriately used, may lead to the user suffering an injury or material damage.

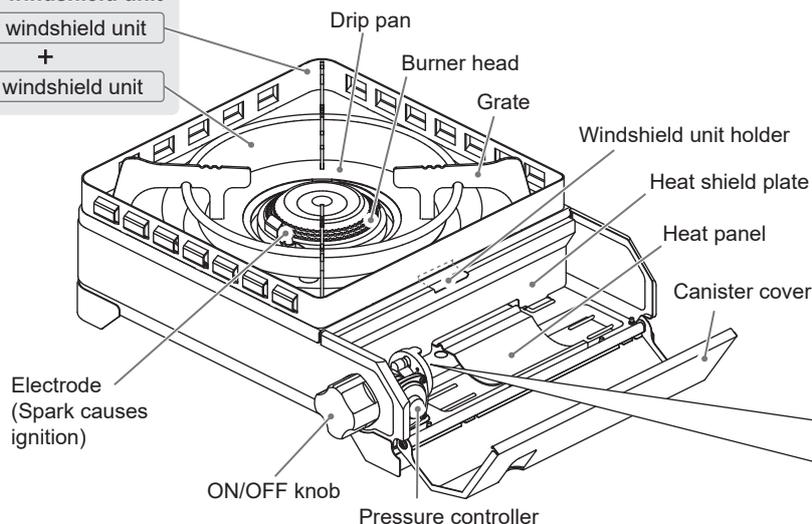
<These symbols have the following meanings>

- | | | | | |
|--|---|--|---|--|
|  General danger, warning or caution |  Do EXACTLY as instructed |  Prohibited |  Do not touch |  Do not disassemble |
|--|---|--|---|--|

Names and uses of parts

Double windshield unit

- Outer windshield unit
- +
- Inner windshield unit



Canister

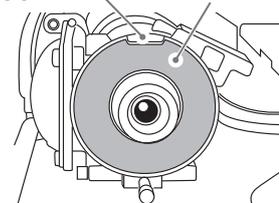
Use the following dedicated canister with this product.

- Canister cap
- Canister notch



Item labeled as "Iwatani Butane Fuel" or "FORE WINDS Butane Fuel"

- Protrusion of container-receiving guide
- Magnet (Holds canister)



Features of this product

The double windshield unit is constructed to shield the flame from wind

The special double windshield construction allows the air necessary for combustion to pass through while preventing wind from affecting the flame, so the stove can be used stably even in windy environments.

(Use may not be possible depending on the weather and wind conditions)

Heat panel to accelerate the vaporization of gas

As the vaporization of gas progresses during combustion, the temperature drops, the heating power weakens, and it becomes impossible to use all the gas in the canister.

To prevent this, a moderate amount of heat from the flame of the burner during combustion is transferred to the canister to accelerate the vaporization of gas, which maintains the heating power so that all the gas can be used up.

This makes the canister slightly warm, but this is not a problem.

Detachable canister with magnet

The canister is installed using the magnet instead of a lever.

This makes it difficult to install an incorrect or faulty canister.

Pressure sensor safety device

If the pressure (temperature) inside the canister becomes abnormally high (about 104°F/40°C or higher), the canister is detached automatically, and the flame is extinguished.

●When the pressure sensor safety device has been activated, return the ON/OFF knob to the "OFF" position, and then remove the canister from the main unit. Next, carefully read "Usage precautions" (from page 6 through 8) and remove the cause of the problem. Next, either reinstall the canister after it is been cooled by water or install a new canister before using the product again.

Specifications

Product name	FORE WINDS Rugged Camp Stove
Model number	FW-RS01
Ignition type	Piezoelectric
Safety features	Pressure sensor safety device (Detachable canister model)
	Canister installation safety device
Maximum external dimensions (in use)	13.42"/341 mm (W) × 11.14"/283 mm (D) × 5.08"/129 mm (H)
Unit weight	Approx. 5.3 lbs/2.4 kg (canister not included)

Output (gas consumption)	11,000 BTU/hr (3.3 kW) (at an air temperature of 68-77°F/20-25°C)
Continuous combustion	Approx. 71 minutes (Actual value when completely using a new canister at maximum power. Air temperature of 68-77°F/ 20-25°C.)
Canister	Dedicated canister labeled as "Iwatani Butane Fuel" or "FORE WINDS Butane Fuel"
Pot available to use	Diameter of bottom of pot should be less than 9.5"/24 cm. (The outside of pot should not touch the canister cover) Diameter of bottom of small pot should be more than 6"/16 cm. Weight capacity up to 44 lbs/20 kg including food and cooking vessel.

■ Disassembling and assembling the double windshield unit

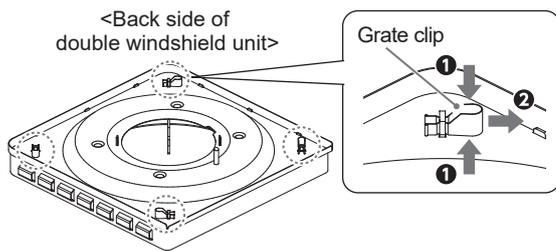
Wait until the stove has cooled before disassembling the double windshield unit.

If the double windshield unit is stained, you can disassemble and clean it. (Maintenance method → Page 9)

After cleaning, reverse the disassembly procedure to assemble the double windshield unit, install it on the main unit, and then store the stove in a location with low humidity.

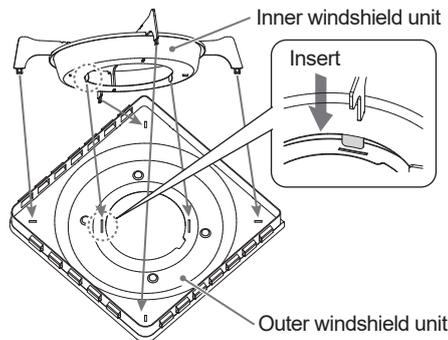
[Disassembly method]

- 1 With your fingers, strongly pinch a grate clip in one of the four corners on the back side of the double windshield unit.
- 2 While pinching it, pull out the clip horizontally.
 - When all 4 grate clips have been removed, the inner and outer windshield units can be disassembled.
 - The grate clips are designed exclusively for the stove, so take care not to lose them.



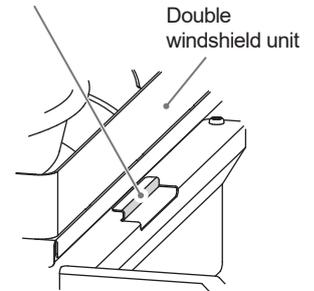
[Assembly method]

- 1 Attach the inner windshield unit to the outer windshield unit.
- 2 Secure the units using the 4 grate clips.



[Attachment method]

Attach the double windshield unit so that it fits with this surface of the windshield unit holder.



■ Preparations (About the carrying case)

Remove the stove from the carrying case.

- Place the carrying case in a location in which is not affected by heat. (Wait until the stove has cooled before storing it.) Never use the stove while it is inside the carrying case, because the carrying case will deform or melt.

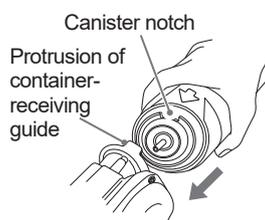
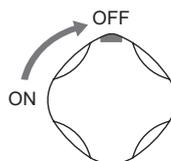
Always use a fuel canister labeled as "Iwatani Butane Fuel" or "FORE WINDS Butane Fuel"

■ Installing canister

Install a canister following the procedure below.

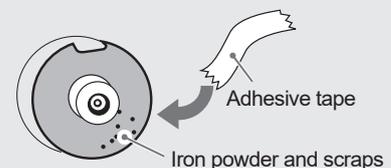
Be aware that if a canister is installed incorrectly, unexpected dangers may result.

- 1 Open the canister cover.
- 2 Turn the ON/OFF knob in the "OFF" direction until it stops.
 - If the ON/OFF knob is not in the "OFF" position, the canister installation safety device is activated, and the canister cannot be installed.
- 3 Make sure no foreign objects have adhered to the magnet.
- 4 Remove the canister cap of the canister.
- 5 Place the canister on the heat panel and align the canister notch with the protrusion of container-receiving guide.
- 6 As shown in the illustration to the right, place your hand near the top of the canister, slide the canister horizontally, and push it until it fits completely with the magnet.

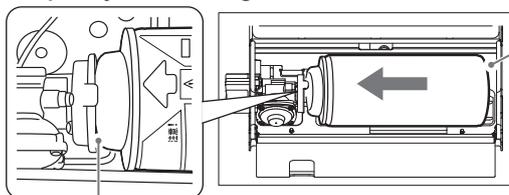
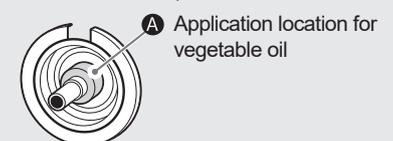


■ When foreign objects have adhered to the magnet

If iron scraps or powder have stuck to the magnet, a gas leak may occur or it may not be possible to install the canister. If foreign objects have stuck to the magnet, use adhesive tape to remove them.



When it is difficult to install the canister (because force is required), apply a thin coat of vegetable oil to the tip of the canister (Part A in the illustration below).



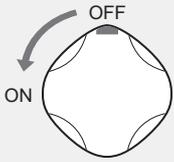
Install the canister securely so that there is no gap between the magnet and canister.

When using "Iwatani Butane Fuel"
When the canister has been installed correctly, there is a gap of about 0.8"/2 cm at the back end of the canister. **The canister installation section is designed to move with some "play". This gap does not indicate a problem, so please use this product with peace of mind.**

- 7 After the canister has been installed, close the canister cover.

■ Ignition, adjusting the heating power, and extinguishing the flame

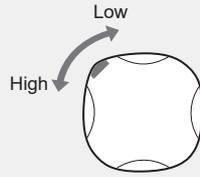
① Ignition



Turn the ON/OFF knob in the "ON" direction until it clicks. Make sure the flame was lit.

- If there is no flame, return the ON/OFF knob to the "OFF" position, and then try again. It may be difficult to light the product upon first use or when the temperature of the canister is low. With caution, repeat the ignition operation several times.

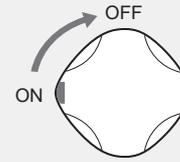
② Adjusting the heating power



Turning the ON/OFF knob in the "ON" direction increases the heating power, while turning in the "OFF" direction decreases it.

- When using low heat, always check the flame as it is difficult to see.
- Be aware that if the flame is lowered too much, it is more likely to be extinguished by wind.

③ Extinguishing



Turn the ON/OFF knob in the "OFF" direction until it stops.

■ After use (steps after extinguishing the flame)

① Make sure the flame is out completely

- Just after the flame is extinguished, both the main unit and the canister will be hot. Wait until they cool down.

② Remove the canister

- Always remove the canister. Otherwise, appliance failures or gas leaks may occur.

③ Ignite a flame after the canister has been removed

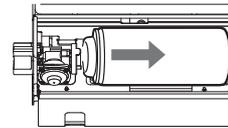
- A small amount of gas remains in the piping of the main unit. To prevent danger, perform ignition one time to burn off the remaining gas.



■ Removing the canister after use

After use, always remove the canister, put on the canister cap, and then store the canister.

- ① Open the canister cover. While holding the canister, apply a small amount of force in the direction opposite the installation direction to remove it from the magnet.
- ② Put the canister cap on the removed canister.
- ③ Close the canister cover.



- If the unit is exposed to rain or snow you may have trouble lighting the burner until the burner ports are clear of water and the spark electrode is totally dry. To protect against burner ignition problems due to water accumulation, the storage box also serves as a rain guard when the stove is left outdoors and exposed to the elements. Never leave the stove outside without first storing it in the storage box provided. Remove butane canister before storage.

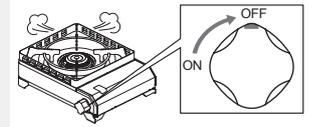
Usage precautions

Danger

 **If you notice a gas leak, extinguish the flame immediately**
(Ignition may cause an explosion)

• If gas leaks, a gas odor (like a rotten onion) will be emitted. Butane gas is heavier than air and collects at the bottom. Perform the following steps immediately. Do not use fire while gas is leaking.

- 1 Extinguish the flame immediately. (Set the ON/OFF knob to the "OFF" position)
- 2 Remove the canister.



■ Usage location and circumstances

Warning

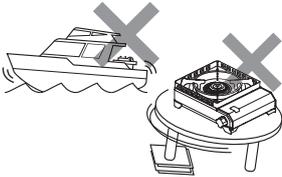
 **Never use this product in the following locations**
(Otherwise, fires, explosions, fatal accidents, and burns will occur)

- Do not use this product in cramped places or poorly ventilated places



Never use this product inside a tent or a vehicle. During use, a large amount of oxygen is consumed, which may cause death by suffocation due to a lack of oxygen and carbon monoxide poisoning. Also, nearby combustibles may ignite and start a fire.

- Do not use this product in a vehicle or in unstable locations

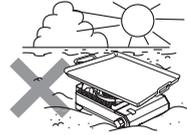


If the main unit is tilted or moved during use, the flame may become larger and cause injury or fire. There is also danger of the main unit tipping over. Use the product in stable flat locations so it does not shake, tip, or move.

- Do not use this product in strong wind

If this product is used in strong wind, the flame of the burner may be drawn into the main unit, which may cause an accident or damage to the main unit.

- Do not use this product in a location in which the canister will become overheated



Do not use this product in a location in which the canister will become overheated by sunlight, such as on sandy beach or asphalt in the summer.

- Do not use this product near fire or heat



Keep the product 6 ft/2 m or more away from fire.

- Do not use the product near canisters, hairspray, and other combustibles, or cloth, paper, or other items that are easily burned



Caution

 **Do not use the product in a location that applies radiant heat or physical effects on the canister or stove, such as by sand or pebbles or grass or plant stubble under the main unit**

(Heat radiation will worsen, the main unit will burn out, and the canister will overheat, which may cause an explosion)



 **Do not use the product on a rug, tablecloth, or other heat-sensitive material**

(This may cause deformation or discoloration)

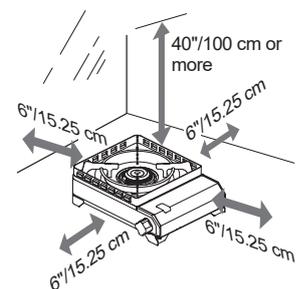
 **Do not use the product in the location in which air or smoke is sucked up from the base of the main unit (such as a table with a smokeless roaster)**

(This may cause abnormal combustion)

 **Do not use the product in a location in which there is danger of falling objects**
(You may be burned by fire or falling cookware)

 **To prevent accidents, install the product with the necessary space**

During use, keep the product 6"/15.25 cm or more from furniture, walls (in a wooden building), and other combustibles. Allow 40"/100 cm or more above this product from ceilings, shelves, electric appliances, and other combustibles.



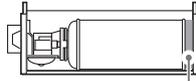
■ Before use

⚠ Warning



Do not insert objects (such as pebbles or bundles of cardboard) between the bottom of the canister and the main unit

(The pressure sensor safety device will no longer activate, which may cause the canister to explode)



Never put anything between the space



Always make sure there are no gas leaks or other problems with ignition or extinguishing operations before use

Never use a product that you believe has failed or been damaged.



Install the canister securely

(Otherwise, gas may leak and cause a fire)

⚠ Caution



Do not use the product on a carpet or other heat-sensitive materials

Do not install items that obstruct air flow



When you use this product on a heat sensitive table, check the heat resistance temperature and handling cautions of the table and determine whether usage is advisable

(During use, the bottom of the main unit becomes very hot, and the table may be cracked, deformed, damaged, or burned)

■ During and after use

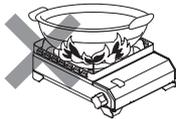
⚠ Warning



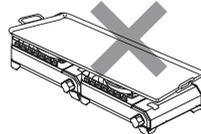
Never use this product in the following ways

(The interior of the main unit or canister will overheat, which may cause an explosion)

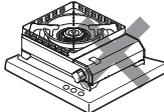
Do not heat empty cookware



Do not use two or more units of this product side-by-side



Do not use or store this product on another source of heat (electric cooking stove, induction cooker, etc.)



Do not use this product to burn charcoal or for other similar uses



Do not use the product with the drip pan removed (Doing so may cause the canister to overheat and explode)
Never use this product without the double windshield unit and the inner windshield unit

Do not use large cookware (such as an iron plate) that erroneously covers the canister cover

When you use a small cooking vessel, make sure that it is placed on the stove stably. Unstable cooking vessels may tip over.



Canister cover

Do not use utensils made of stone, sand, or ceramic that cook by thermal storage



Do not use cookware with strong radiant heat



Do not use this product for purposes other than cooking

(Overheating, abnormal combustion, and other problems may cause burnout or fire)



Do not leave the product unattended while it is in operation

Stay near this product when it is on. Always make sure the flame has been extinguished before leaving the room or going to bed. In case of a phone call or visit, switch off the product.



Do not tilt or move the product while it is in operation

(If the product is tilted, it will cause burns or fires)



Do not use this product for drying clothes or as a heater

(Otherwise, falling clothes and other problems may cause a fire)



Do not allow children to use this product

Do not allow children to use this product and keep this product out of the reach of children.



Do not use the product while inside its carrying case

In addition, do not stow the stove while at high temperature immediately after extinguishment

(The case may deform due to the heat, or cause fire or burn injuries)

Warning



Keep your head and hands away from the burner head

(Fire may cause an burns)



Ventilate during use

Pay careful attention to ventilation.



When the stove does not ignite on the first attempt, be careful of ignition

Before igniting the second time, make sure there is no smell of gas. The escaped gas may cause a fire. Wait at least 1 minute before retries.



After use, remove the canister

After use, always remove the canister from the main unit to prevent fire. If this product is stored with the canister still installed and something turns the ON/OFF knob, there is the potential of a gas leak or ignition, which is extremely dangerous.



Never modify or disassemble this product

(Disassembly could cause unexpected circumstances, such as death from carbon monoxide poisoning or a gas leak, failure, or fire)



During and for some time after use, do not touch other than the ON/OFF knob

(You may be burned if you touch other parts)



Carry out the following procedure during abnormalities or emergencies

Examples of abnormalities) Strange noises or smells, red flame, etc.

- 1 Set the ON/OFF knob to the "OFF" position to extinguish the flame.
- 2 Remove the canister from the main unit. (page 5)
- 3 Follow "Troubleshooting" (page 10).



While stove is in use, periodically check to see the flame is visible

■ Handling the Canister

Instructions and warnings expressed on the canister should be read thoroughly. Before using, remove the canister cap. Before storing the canister, replace the canister cap.

Warning

Be sure to follow the instructions below to avoid the risk of fire or explosion.



Do not put the canister near a heat source

Do not put the canister in a place near a heat source. The pressure inside the canister may cause the canister to explode.



When storing the canister, avoid flames and direct sunlight

Keep the canister with canister cap fitted in a place under 104°F/40°C where it is airy and with little humidity. Keep away from flame and direct sunlight.



Do not throw the canister into a fire

Do not throw the canister into a fire. It will cause an explosion.



Proper disposal of canister

- Empty canister should be disposed of according to the rules and regulations of your city/town. Make sure can is completely empty before disposing of it.
- Shake the canister, if there is liquid still inside, please use it up before disposing.



Caution



Please use dedicated canister

Please use dedicated canister marked with "Iwatani Butane Fuel" or "FORE WINDS Butane Fuel". If other canisters are used, it may cause gas leak or abnormality of operation.



Inhalation risk

Do not intentionally suck gas from the canister, as this may lead to suffocation or death due to lack of oxygen.



Do not subject the canister to strong impacts

The canister may become damaged or ignite due to a gas leak if it suffers an impact from a falling object.



Do not use deformed canisters

(Doing so may lead to a gas leak)



Inspect stored canisters from time to time, always check that rusting canisters are free from gas leaks, and use them as soon as possible

*Even if a canister does not exhibit rusting, do not use a canister that has been stored for an extended period (more than 6 or 7 years as a rough guide).

Maintenance and inspection after use

■ Cautions during inspection and maintenance

Inspect and maintain the product after use.

- To protect your hands and fingers, always wear gloves.
- Do not wash this product as a whole.
If water enters the gas line, gas will no longer come out, which may cause rust.
- Always remove the canister before inspections and maintenance.
- Wait until the main unit has cooled down before inspecting and maintaining the product.
- Never disassemble the gas line section.
- If there is a spillover during use, please clean burner.

Inspection	Maintenance method	Precaution
Spillovers of food or liquid	Wipe off the spillover with a dry cloth. If the stain is obstinate, please use mild detergent. And wipe off totally with dry cloth.	Moisture and spillovers may cause malfunction, rust or failure. Please clean inside and outside frequently. Do not move electrode or flame rod.
If burner ports are blocked	Clean with a brush and/or small needle. (Do not move electrode or flame rod.)	It may cause incomplete ignition or irregular flames. Please clean burner frequently.
Food particles on electrode (burner won't ignite)	Please remove particles from electrode with dry cloth. (Do not move the electrode.)	If there is a stain on electrode, it may cause hindered ignition. During maintenance, if the ON/OFF knob rotates to "ON" position, it may cause electric shock.
Food residue on stove	Please wipe off with dry cloth. If the stain is set, use mild detergent with water and then dry.	Do not use thinner, gasoline, polishing powder, nylon brush or metal brush. This may cause damage to the machine.
Staining of the double windshield unit	<ul style="list-style-type: none"> • Gently wash the unit using a sponge scourer or other soft cleaning tool with mild detergent. • When food has burned and stuck to the unit, soften the food before washing the unit. For example, first soak the burnt food in hot water. • After cleaning, wipe away moisture with a dry cloth, and then allow the unit to dry well. • You can also disassemble the unit before cleaning. (Disassembly method → Page 4) 	<ul style="list-style-type: none"> • To prevent deformation, do not apply strong impacts to the double windshield unit. Also, do not rapidly cool the unit, for example with water, just after use. The glassy finish of the enameled surface may peel, which will expose the metal and make it more likely to rust. If the glassy finish has peeled, you can prevent rust by allowing the area to dry well and applying cooking oil to the metal surface. • Do not use a metal scouring brush, cutlery, or polishing powder to clean the unit. These items may damage the surface.

■ When the product is not used for a long time

- Confirm there are no food particles causing blockage and the unit is dry.
- Separate the canister from the unit. Do not store when these two products are connected.
- When this product cools down, put into carrying case and store in a dry place. Never leave the unit outdoors without it being in the carrying case.
- Please perform regular inspection and maintenance to prevent product from rusting.
- Do not use any lubricants on this product.

■ Cautions regarding time-related deterioration of this product

Rubber parts are used in the gas connection opening of this product. Regardless of frequency of use, rubber parts deteriorate over time. Please consider replacing this product 10 years after manufacture.

- The manufacture date is listed on the rating plate.

Warranty and Repair

■ LIMITED WARRANTY INFORMATION

To view our limited warranty information, visit our website at www.iwatani.com/product-warranty, call us at 1-713-965-9970 or mail a written request including your name and return mailing address to:

Iwatani Corporation of America
ATTN: Product Warranty Request
2200 Post Oak Blvd., Suite 1150 Houston, TX 77056.

■ REPAIR (Out of Warranty)

Refer to the section "Troubleshooting" (page 10) and check the product again. If your product is malfunctioning, contact us through www.iwatani.com/contact or at 1-713-965-9970 with following information:

- Your name, address and daytime phone number
- Product name and model number (on the rating plate)
- Description of the problem (in as much detail as possible)

Troubleshooting

In the event of an unexpected malfunction, troubleshoot by using the following information.

Issue	Remedy	
	Cause	Solution
Canister cannot be installed → Remedy 1 2 3 4 11 12	1 Is there any deformation or warping on the main unit?	▶ Request an inspection and repair.
Difficult to ignite → Remedy 4 5 6 7 8 9	2 Have iron scraps or powder adhered to the magnet?	▶ Remove the iron scraps or powder using adhesive tape.
Cannot ignite → Remedy 5 6 7 8 9 10 11 12 13 15 16	3 Is the ON/OFF knob set to "ON"?	▶ Set the ON/OFF knob to "OFF".
Burner would not stay lit → Remedy 5 7 10	4 Is a canister made by another company being used?	▶ Use a dedicated Iwatani canister.
Flames around the electrode is red → Remedy 17	5 Has the gas run out? Is there little gas remaining?	▶ Replace with a new canister.
Burns with a yellow flame → Remedy 7 10	6 Have stains or moisture stuck to the electrode section?	▶ Wipe away the stains or moisture.
Flame is unstable → Remedy 7 10	7 Is the burner flame opening clogged?	▶ Use a metal brush or other similar item to remove the clog.
Flame is irregular → Remedy 7	8 Is the ignition operation being performed correctly?	▶ Perform the ignition operation correctly. (page 5)
Heating power is low → Remedy 5 7 10 14	9 The ON/OFF knob may have failed.	▶ Request an inspection and repair.
There is a gas odor → Remedy 4 8 9 12	10 The gas duct (nozzle) may be clogged.	▶ Request an inspection and repair.
Flame goes out during use → Remedy 5 10 11	11 Has the pressure sensor safety device been activated?	▶ Reset the device following "• When the pressure sensor safety device has been activated" (page 3).
Flame does not go out → Remedy 9	12 Is the canister installed correctly?	▶ Install the canister correctly. (page 4)
Gas leaks even when the ON/OFF knob is "OFF" → Remedy 4 9 12	13 The ignition device may have failed.	▶ Request an inspection and repair.
A popping sound occurs during extinguishing → Remedy 18	14 Is the ON/OFF knob opened fully?	▶ Open the ON/OFF knob fully.
Flames burn away from the burner → Remedy 19	15 Is the spark jumping from the electrode to the burner?	▶ When the spark is not jumping from the electrode to the burner, adjust so that the distance between the electrode tip and burner is about 3 mm, and the flame opening is centered.
	16 Is the spark jumping?	▶ If the spark is not jumping, stains or water drops have stuck to the white section of the electrode (ceramic). Wipe away the stains or moisture.
	17 The flame around the electrode is red during the first use after purchase. After several uses, the red flame disappears. Continue to use the product as is.	
	18 A sound during extinguishing is not a problem. Continue to use the product as is.	
	19 This is not a problem. Turn down the ON/OFF knob slightly for 2 to 3 minutes.	