

For Outdoor Use only

snow peak
outdoor lifestyle creator since 1958

GS-320

Giga Power LI Stove Metal Crab

This is a detachable stove that was developed exclusively for outdoors use. Please do not use it inside a building, a vehicle or a tent. In such enclosed or narrow spaces, there is the danger of death by asphyxiation due to carbon monoxide poisoning or oxygen deficiency. Even when using it in narrow outdoor spaces, make sure that there is sufficient ventilation. The fuel cartridge is extremely hot during and immediately after use, so take sufficient care to avoid burning yourself. And also be careful to keep it out of the reach of children. All Snowpeak combustion devices undergo thorough combustion tests before shipping out. Please note that these combustion tests sometimes result in a certain amount of discoloration of trivets, burner heads and windscreens, but these are not defects.

Users Instruction Manual

Thank you very much for purchasing this Snow Peak product. Please make sure to read this instruction manual in order to make sure to use it safely for a long period of time. After reading, please put the manual away for safekeeping. If you should find any part of the instruction manual difficult to understand, or if you have any questions about its contents, please contact the Snow Peak offices to clarify these points before you use the product.

Concerning the Safety Precautions and Warnings in the Instruction Manual.

Warning: This indicates something that could cause death or serious injury to the user if the product is used improperly.

Caution: This indicates something that it is thought possibly could give rise to the danger of injury to the user or damage to other materials if the product is used improperly.

This product is not fitted with an automatic lighting device, so please be sure to bring along matches or a lighter for use with it. Under certain weather conditions, it is not possible to light this product with a piezoelectric lighter.

Warning

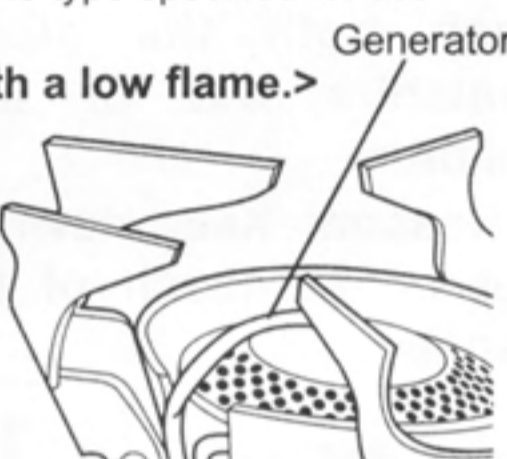
This is a "liquid injection system" combustion device for which the fuel cartridge is attached upside down in order to output compressed liquid petroleum gas in its original form for combustion. This is a totally different combustion system from that of the conventional combustion devices that use the fuel cartridge in an upright position. So in order to ensure steady burning under safe conditions, please make sure to obtain a clear understanding of the unique features of the "liquid injection system" before using this product.

Warning: <Do not use any device other than the special fuel cartridge with this product>

Do not use this product with any fuel cartridge other than the specified special fuel cartridge under any circumstances. Also note that this product cannot even be used with other Snow Peak fuel cartridges than the type specified for use with it.

Warning: <Make certain to light the stove with a low flame.>

Make sure to light the stove with a low flame and then gradually warm the generator pipe (vaporizing device). When you want a high flame, please check the condition of the flame as you increase its intensity. If you increase the intensity of the flame before the generator pipe is warmed up or ignite it with a high flame, there is a danger of sudden gushing out of the compressed gas in its liquid form, causing the flame to leap up high.

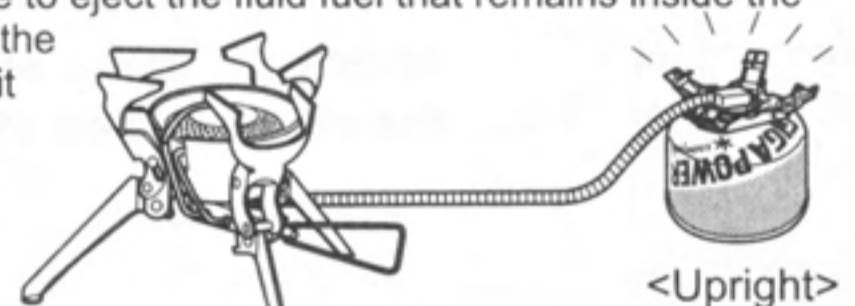


Warning: <About the Generator>

Never alter the shape of the generator pipe under any circumstances. If its shape is altered, it will not combust correctly.

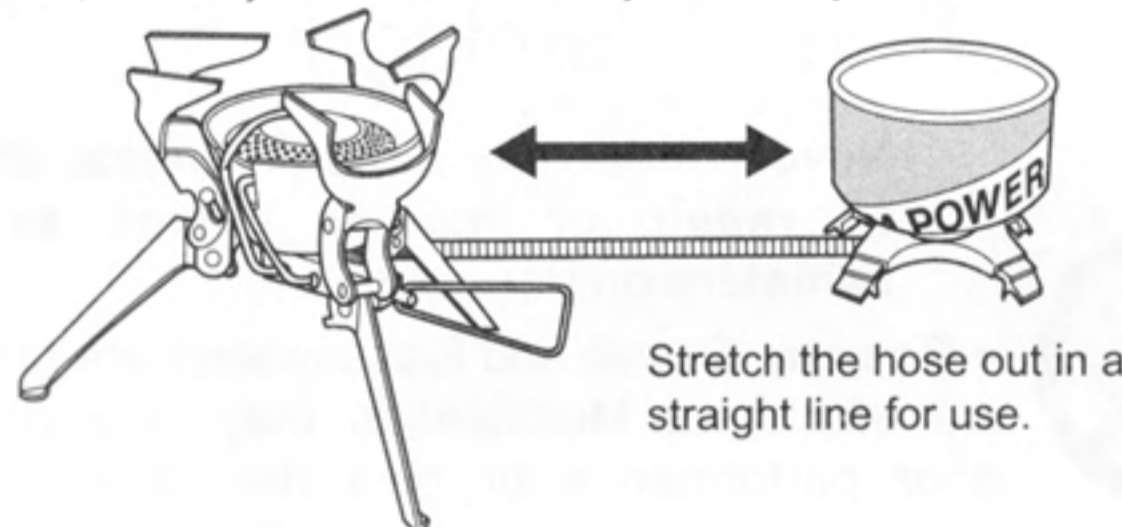
Warning: <Extinguishing the flame with the fuel cartridge in an upright position>

Slowly bring the fuel cartridge to an upright position, let it continue burning for ten seconds, and then extinguish the flame by rotating the flame adjustment knob. When the fuel cartridge is turned right side up, the gas that comes out of the fuel cartridge will be converted from its compressed liquid state to a gaseous state, making it possible to eject the fluid fuel that remains inside the hose in ten seconds. Ejection of the liquid fuel in this manner makes it possible to decrease the gas remaining inside the hose when detaching it from the stove, increasing the level of safety when extinguishing the flame.



Warning: <Straightening the Hose>

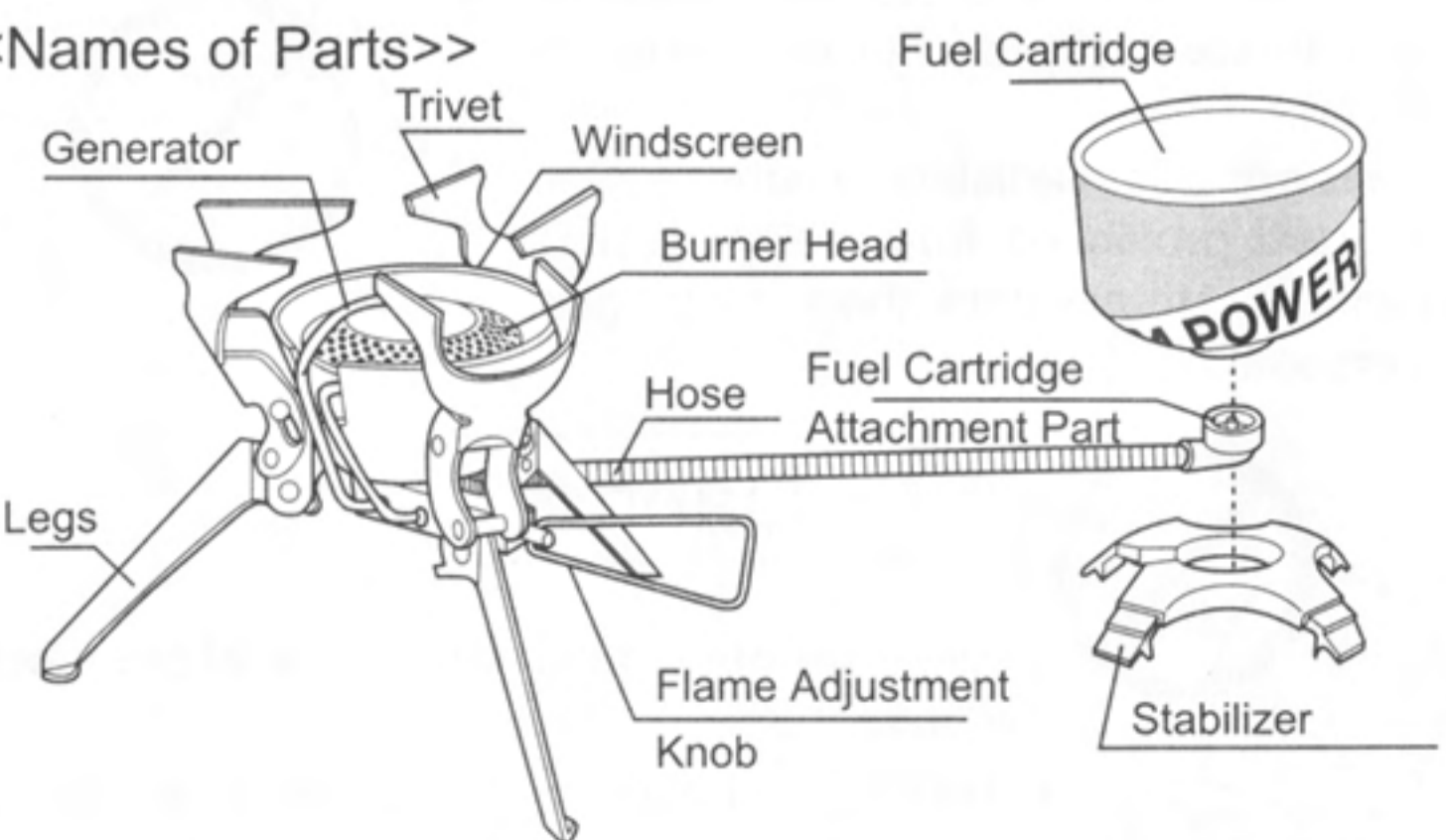
When using the stove, untangle the hose and straighten it out. Then stretch it out in a straight line so that the spread of the heat radiation from a cooking device or the combustion device is as far from the fuel cartridge as possible in order to prevent an adverse effect on the fuel cartridge. Different from conventional combustion devices that use the fuel cartridge in an upright position, the structure of this fuel cartridge makes it difficult for the output power to decrease, and easy for it to be adversely affected by external heat.



• In case of abnormal combustion, extinguish the flame immediately •

If the fuel cartridge is adversely affected by the spread of heat radiation from the combustion section or the cooking device, it can give rise to an abnormal increase of heat and a resultant increase in pressure inside the fuel cartridge, causing the flame to leap up high and burn bright red (abnormal combustion). Occurrence of such abnormal combustion is dangerous, so immediately extinguish the flame.

<<Names of Parts>>



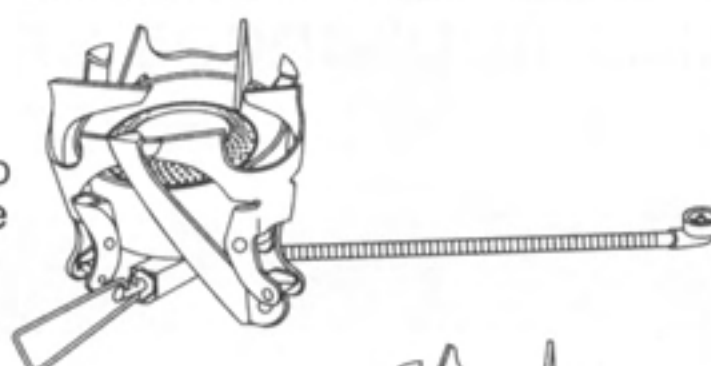
Specification

Name of Product	Detachable Type Outdoor Camping Stove		
Type	GS-320		
External Measurements	When in use:	142×125×118mm / 5 1/2 × 5 × 4 3/4"	
	During storage:	Ø 90×H70mm / Ø 3 1/2 × 2 3/4"	
Weight	305g / 10 3/4 oz	Usable pot diameter	
Gas Consumption Volume	212g/h	Less than 14cm (5 1/2")	
Power Output	2500kcal / 10,000 BTUs	Less than 3.0liter (0.5 gal) capacity	
Special fuel cartridges	Snow Peak GigaPower Fuel GP-110S, GP-250S, GP-500S		

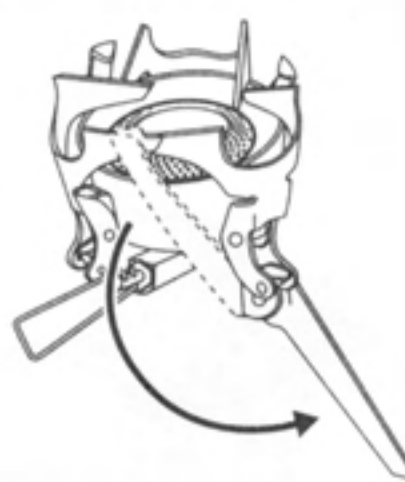
• The gas consumption volume and output figures were measured and calculated in Snow Peak testing laboratories
• Use only the special Snow Peak fuel cartridges listed on the top

How to Assemble the Main Body

1. Unwind the hose that is wrapped around the main body, stretch it out straight and lay it down horizontally in a straight line. If the hose has bends that do not straighten out immediately, make sure to pull to make it lie in a straight line.

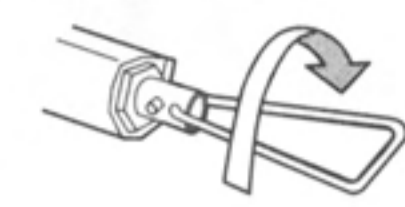


2. Spread out the three legs that are folded against the main body as seen in the diagram, and set them in place folded out all the way. The trivet opens out automatically when the legs are spread open. Turn the flame adjustment knob while taking care to avoid getting the hose tangled up with the legs. Then when you are ready to use the stove, place it on a stable and horizontal spot.



Assembly of the Fuel Cartridge

1. Looking at the flame control knob from the front, turn it in a clockwise direction until it stops completely.



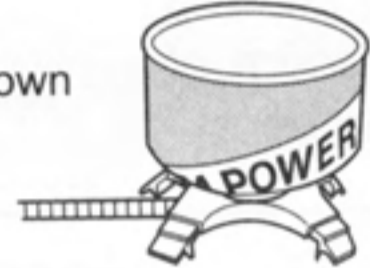
2. Stand the fuel cartridge upright so that the attachment part is on top, then match the screw-shaped part on top of the fuel cartridge with the axel threads of the screw-shaped part on the end of the hose, and screw them together in a clockwise direction when viewed from the bottom of the fuel cartridge until it stops naturally, and then tighten it with a firm additional twist. Check to make certain that there is no gas leakage indicated by a whooshing sound or the odor of gas.



3. Open out the legs of the stabilizer that comes with the fuel cartridge, and attach it to the attachment part of the fuel cartridge by pressing down as shown in the diagram.



4. Turn the fuel cartridge upside down to complete attachment of the stabilizer.



Warning: When attaching the fuel cartridge, first check without fail to make sure that there are no abnormalities in the screw part and the O-ring. If there are any abnormalities, do not attach the fuel cartridge under any circumstances.

Caution: When attaching or detaching the fuel cartridge, a small amount of gas leakage may occur, so never attach or detach a fuel cartridge near a flame or under poor ventilation conditions.

How to use

Warning: When igniting, keep your hands and all parts of your body a enough distance from the top of the burner head, and do not peer into the burner head with your face near to it.

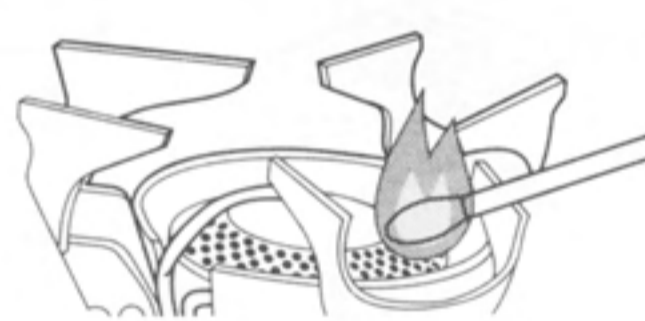
Warning: Use a match or a lighter with a long handle in order to keep as far as possible from the ignition point.

Warning: Always operate the flame adjustment knob slowly and carefully when igniting, and let it burn with a low flame, because if you turn the knob open quickly, a large volume of gas will flow out causing a large flame. Also, when the outside temperature is high causing an increase in the pressure inside the fuel cartridge, or when the gas vaporizes insufficiently in extremely cold weather, a large flame may burst forth. In such a case, turn the knob to produce a low flame, and let it burn until the flame has stabilized.

Warning: Make sure that there are no combustibles above or around the flame.

1. Ignition Method

Use a match or a lighter with a long handle to ignite the burner first, and then turn the flame adjustment knob in a counterclockwise direction (rotation toward the left) when viewing the burner head from above, and complete the ignition process. When the burner does not ignite, close the flame adjustment knob, and begin the entire process once again.



Caution: When igniting, check to make sure that there are no combustible objects in the surrounding area, and ignite the flame in a flat and stable spot. During combustion, do not cause the stove to lean over and do not move the stove.

2. Flame Adjustment

When you turn the flame adjustment knob in a counterclockwise direction (rotation toward the left), the flame becomes larger, and when you turn it in a clockwise direction, the flame becomes smaller. Always manipulate the flame adjustment knob slowly.

3. Extinguishing Method

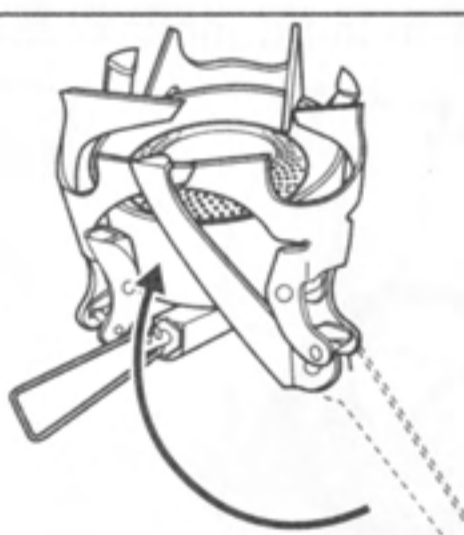
Stand the fuel cartridge upright slowly and carefully, and, after allowing it to burn for another ten seconds, turn the flame adjustment knob slowly in a clockwise direction to extinguish the flame. Check to make sure that the flame is completely extinguished. Wait to detach the fuel cartridge until it has cooled sufficiently after extinguishing the flame.

Method for detaching the fuel cartridge

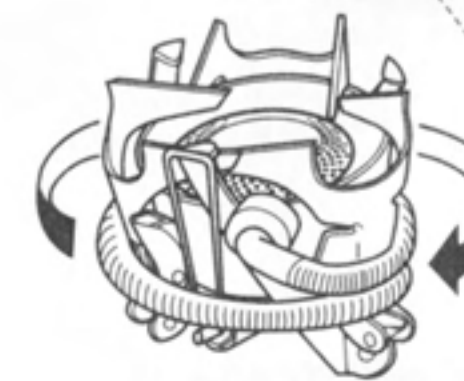
1. Immediately after use, the stove body is extremely hot. Please let it cool sufficiently before detaching it.
2. Turn the fuel cartridge upright so that the attachment part is on top, detach the stabilizer, set the fuel cartridge and the combustion device in a straight upright position, and detach them from each other by turning the fuel cartridge in the opposite direction from that when you attached it. Make sure to attach the cap to the fuel cartridge without fail before storing it.

Storage Method

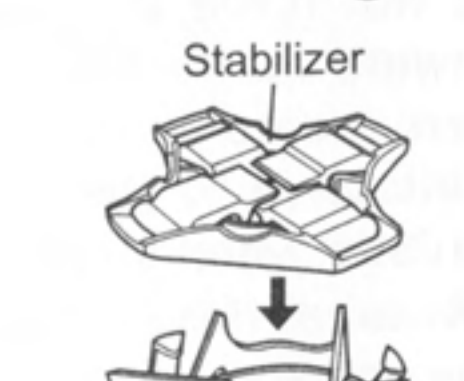
1. Fold the three legs all the way inward as shown in the diagram. The trivet automatically folds inward with the legs. Make sure that you fold the legs in slowly, taking especial care to avoid bringing them into contact with the flame adjustment knob or the hose.



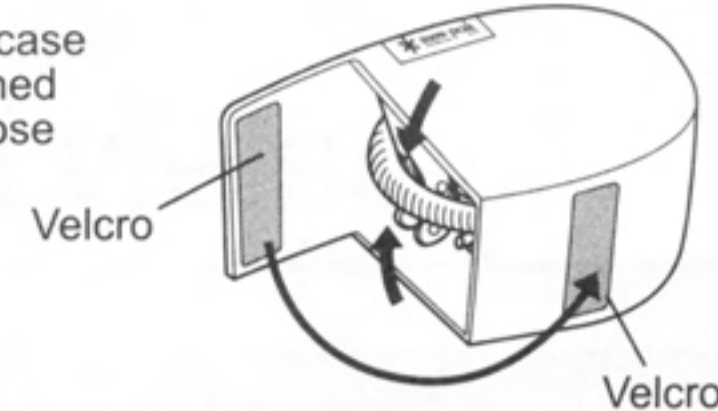
2. Looking at the main body from the top, wrap the hose around the main body in a clockwise direction (wrapping toward the right), making it fit into the three indentations on the trivet.



3. Fold the legs of the stabilizer in toward the center, place the stabilizer on top of the main body and store them in the case together.

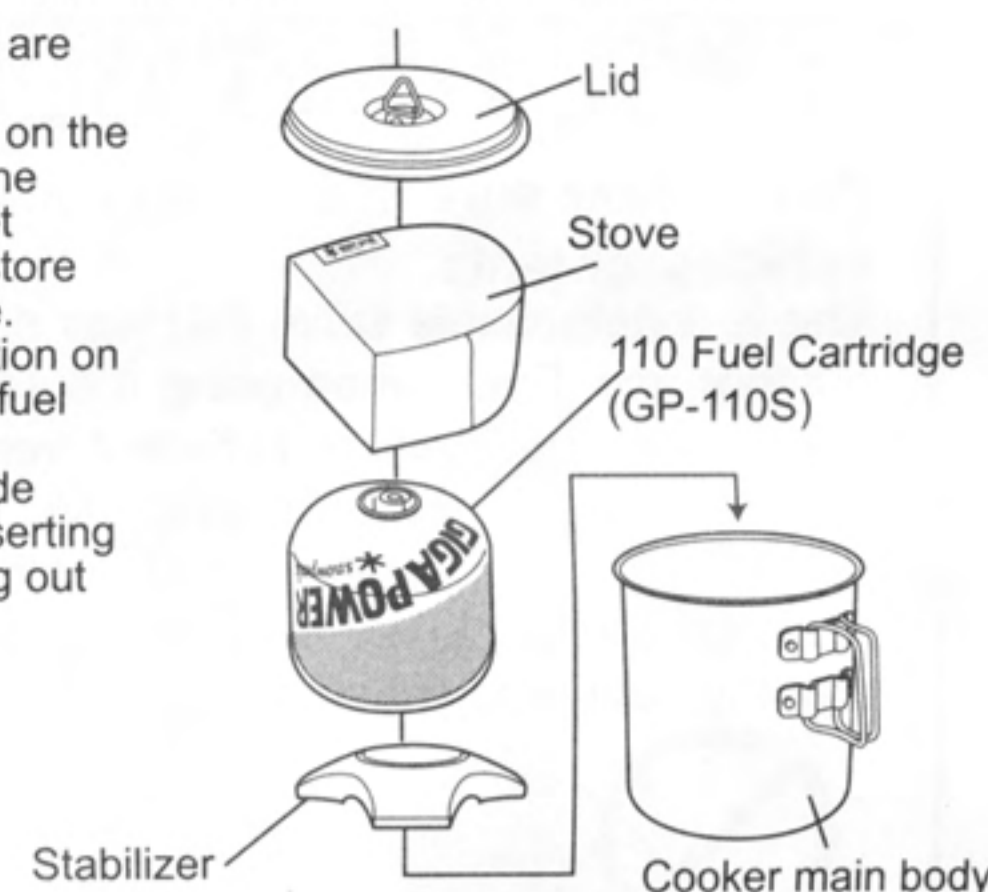


4. Fold the upper and lower parts of the case inward and close it with the Velcro attached to both sides, to make certain that the hose does not protrude out.



5. Storage in Snow Peak "Mini Solo Cook Set" SCS-004 or SCS-004T

Stove and Mini Solo Cook Set are stored together in the related position shown in the diagram on the right. Store the main body of the stove in the case with the trivet facing downward. But do not store the stabilizer in the same case. Instead, store it in the indentation on the bottom of Snow Peak 110 fuel cartridge (GP-110S). Also, be careful not to damage the inside surface of the cooker when inserting or removing the stove, carrying out the process slowly.



Precautions during Use

Never use products that leak gas, that have received a shock, or than do not work correctly.

- Due to its high heat output, if you continuing cooking for a long time, the handle or knob of your cook set may be damaged. Never cook with the flame so high that it protrudes out from the bottom of the pot.
- Never use this product for anything other than cooking.
- Before use, make sure that there is no dirty or trash adhering to the stove. Always keep all parts of the stove clean and never carelessly place it on the ground. Dirt or trash adhering to the stove will lower the output power and give rise to such problems as a complete lack of gas output.
- Choose pots of up to 14cm (5 1/2") in diameter and 2.0 liters (0.5 gallons) capacity for use on this stove. Use of oversized pots can give rise to such problems as spread of heat radiation and the danger of the pot toppling over due to instability.
- Spread of heat radiation under the pot during cooking causes the bottom of the pot to overheat, so make sure to use a burner sheet that reflects the heat upward.
- Air temperature and the heat level of the fuel cartridge causes alterations in the gas pressure that result in changes in the combustion conditions (the size and shape of the flame and the level of power, etc.).
- Strong winds or boiling over may extinguish the flame, so keep your eye on the stove at all times during use.
- If abnormal combustion occurs, quickly extinguish the flame and stop using the stove.
- Metal parts of the stove that come into contact with or are situated near the flame may be discolored due to scorching.
- If you smell gas, do not ignite the stove under any circumstances. Make sure to extinguish all fires and flames in the surrounding area. And detach the fuel cartridge.

Inspection and Maintenance Method

- Carry out regular inspection and maintenance.
- Check to make sure that the stove is working properly before use.
- If the pot boils over, make sure to wipe the pot and the stove clean with a cloth.
- If the stove is damaged or broken, do not use it.
- It is dangerous for the user to try to repair a broken or damaged stove. If the stove does not work properly, please confer with the shop where it was purchased or the Snow Peak offices.

How to detect and deal with malfunctions or abnormalities.

Causes	Symptoms							
	Use of other than specified fuel cartridges	Abnormality in the screw part of the fuel cartridge connector	Malfunction of the stove	Insufficient attachment of the fuel cartridge	Spiral malfunction	Approximacy of the fuel cartridge	Plugging of the burner part	Plugging of the nozzle
Difficulty in attaching the fuel cartridge	✓	✓	✓					
Gas leaks out			✓	✓	✓	✓		
Difficulty in igniting						✓	✓	✓
Low flame power						✓	✓	✓
Uneven flame output							✓	✓
Flame goes out during use						✓	✓	✓
Stove does not ignite			✓		✓	✓		
Method for Dealing with Malfunctions	Use a specified Snow Peak fuel cartridge	Replace with a new fuel cartridge	Request inspection and repair	Check the attachment of the fuel cartridge	Request inspection and repair	Replace with a new fuel cartridge	Wipe away the dirt with a cloth, taking care to avoid damaging the stove	Request inspection and repair

• If an abnormality persists even after checking the contents of the above graph, please confer with the shop where the stove was purchased or the Snow Peak offices.
In case you cannot extinguish the flame, check to make sure that everything in the surrounding area is safe and allow combustion to continue until the gas is all used up.

After Services

The product that you have purchased has been checked thoroughly, but if there should happen to be any sort of discrepancy, please contact the shop where it was purchased or the Snow Peak Offices. In case the problem is the result of a defect in the manufacturing process, the product will be repaired or exchanged free of charge. In other cases, repairs will be made at a reasonable charge. In addition, please realize that repair may be impossible under the following circumstances.

- Damage resulting from aging of the materials or lifespan of the product.
- Malfunction resulting from misuse or careless use.
- Malfunction due to reconstruction.
- Malfunction resulting from use forbidden in the Users Instruction Manual
- Damage resulting from unexpected accidents.
- Malfunction of the product due to defects other than those occurring during the manufacturing process.
- Malfunction caused by dirt or rust.
- Malfunction or breakage caused by disassembly.
- Malfunction caused by alteration of the shape or breakage of the product due to dropping or shocks.
- Alteration of parts due to friction and resulting malfunctions.
- Damage caused by use in combination with products manufactured by other companies.

Snow Peak, Inc.
958 Sanganj Sanjo, NIIGATA JAPAN
PH:+81-256381110 FAX:+81-256381015
www.snowpeak.co.jp

Snow Peak U.S.A., Inc.
POBox 2002, Clackamas, OR 97015, U.S.A.
PH:(503)697-3330 FAX:(503)699-1396
www.snowpeak.com

Snow Peak Deutschland GmbH
Krampenhauweg 1, D-40882 Ratingen
PH:02102 610 2840 FAX:02102 610 2852