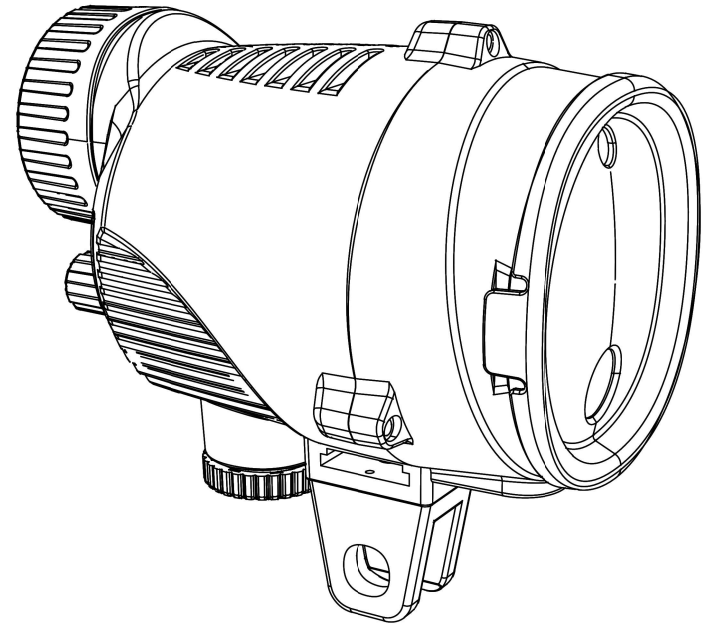


SF-01 Underwater Photography Strobe

———— User Manual ————

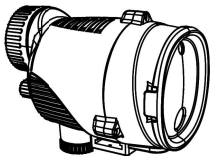
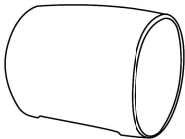


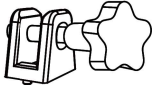


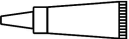

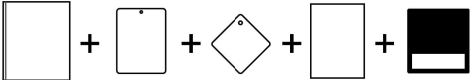


- Please read the user manual carefully before use

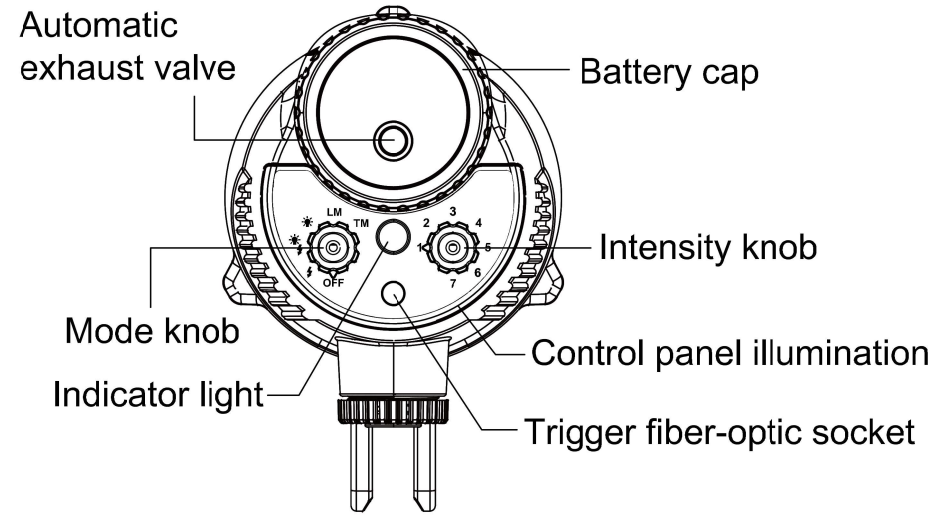
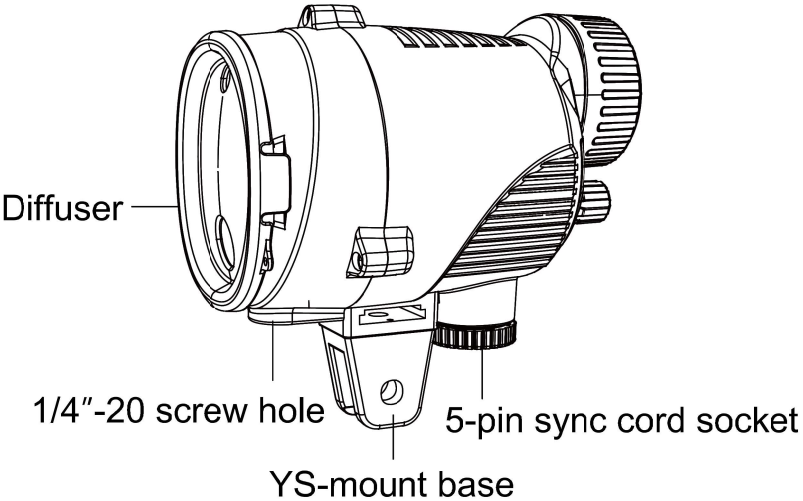
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Packing List

	
SF-01 underwater strobe(1)	Protection cover(1)
	
Dust-free cleaning cloth(1)	Fiber-optic cable rubber cap(2)
	
YS-mount(1)	O-Ring remove tool(1)
	
AM-3 YS ball arm (1)	Silicone grease(1)
	
Spare O-ring(2)	User Manual(1) Guarantee Card(1) Inspection Card(1) Battery Selection Guide(1) Battery Measurement Tool(1)

Parts Name



Specifications

Mode	Flash	Flash+Modelling light	Light
Guide Number	32GN	32GN+100LM	200LM
Number of Flashes	500times	12hours	6.5hours
Batteries	18650 High drain batteries x 2; or 18650 Normal lithium batteries x 2 ^① *Note(Please purchase batteries separately)		
Recycle Indicator	LED indicator flash		
Recycle Time	1.5S(High Drain Batteries);2.5-8S(Normal lithium batteries) ^②		
Control	Rotary/fiber-optic cable/5-pin sync cord		
Depth Rating	100m/328ft		
LED Specification	6W 3535		
Color Temperature	5000-6000K		
Beam Angle	> 120°		
LED Lifetime	50000 hours		
Main material	PC		
Dimensions	149(L)x96(W)x142.5(H)mm		
Weight	751g		

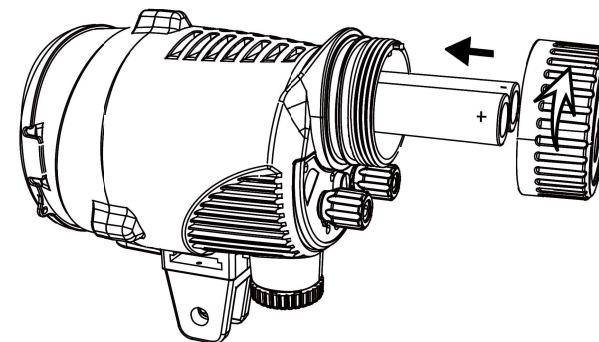
*note ① There are three types of 18650 batteries in the market. Please choose model C 69mm lithium ion batteries.

Types	Size	Description	Use
A	65mm	Flat batteries (without protection board)	✗ No
B	67mm	Pointed batteries (without protection board)	✗ No
C	69mm	Pointed high drain batteries (with protection board)	✓ Yes

*note ②
Use different brand battery and power will cause different recycle times.

Battery Installation

Open the battery cap, put 18650 batteries marked positive and negative direction inside and close the battery cap.



- Charge batteries fully before use.
- If you use high drain batteries, please set flash to ultra fast recycle speed mode. More details, please check page 16 “Recycle Speed Mode Setting”.
- Don't use normal lithium battery if you set ultra fast recycle speed setting mode. Because flash recycle will trigger the lithium battery build-in protection.

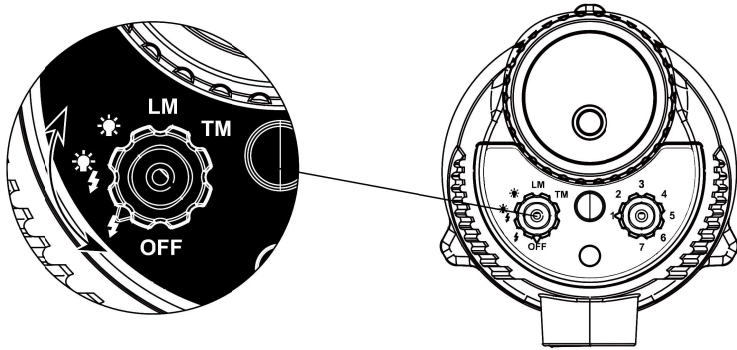
⚠ Please use same brand/model/specification battery, otherwise it will cause abnormal function or unusable.

⚡ Don't install and disassemble battery in wet environment or with wet hand, to avoid electric shock.

Power ON/OFF

Turn on: rotate mode knob to different position.

Turn off: rotate mode knob to OFF



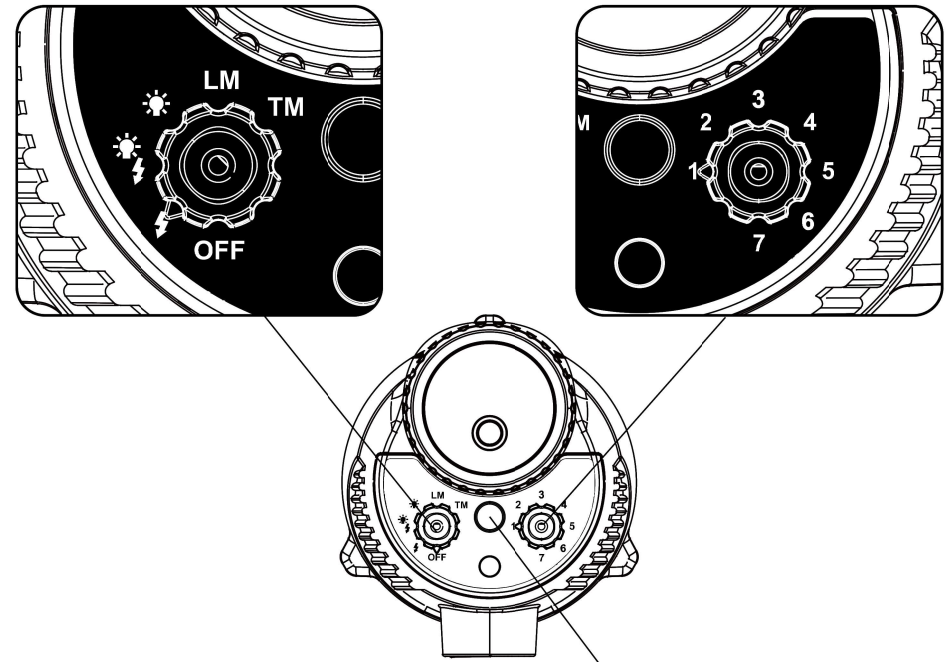
Note: Don't turn on flash when close to people eye, otherwise it will damage people eye.

Flash Mode " ⚡ "

- Turn mode knob to flash mode " ⚡ ". The control panel change to blue light.
- Indicator flash means recycle times. When the indicator don't flash, it means recycle finished and can use flash. Adjust intensity knob from 1-7 level. Lowest: Level 1 / Maximum: Level 7.
- When flash recycle, indicator display battery power. Green light more than 50%. Yellow light 25%-50%. Red light 10%-25%.. When the red light always on means battery power less than 10% and flash function will stop.

Select mode

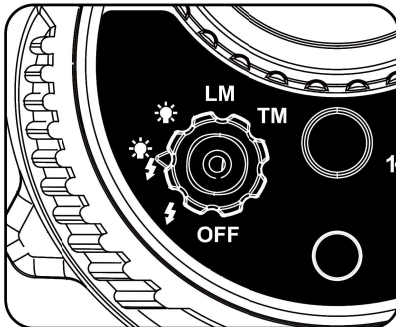
Adjust light intensity



Indicator light

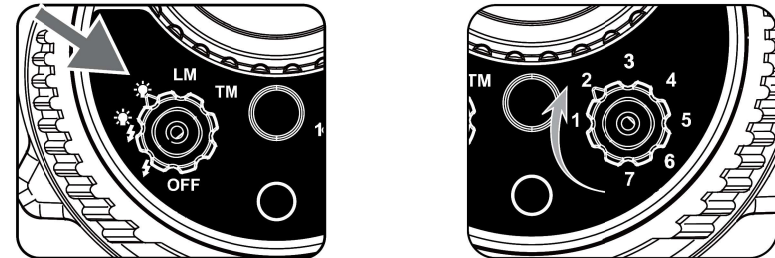
Flash+Modelling Light Mode "☀️"

- Turn mode knob to flash + modelling light mode "☀️". The control panel change to blue light.
- Adjust intensity knob from 1-7 level. Lowest: Level 1 / Maximum: Level 7.
- Meanwhile modelling light turn on, brightness could change from level 1 to level 7
(1~5%, 2~10%, 3~15%, 4~20%, 5~30%, 6~40%, 7~50%)
- When flash recycle, indicator display battery power. Green light more than 50%. Yellow light 25%-50%. Red light 10%-25%. When the red light always on means battery power less than 10% and flash function will stop.



Light Mode "☀️"

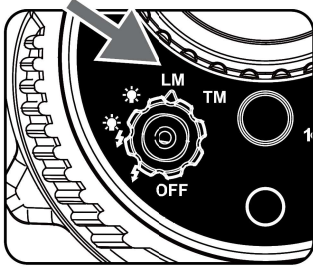
- Turn mode knob to light mode "☀️". The control panel change to white light.



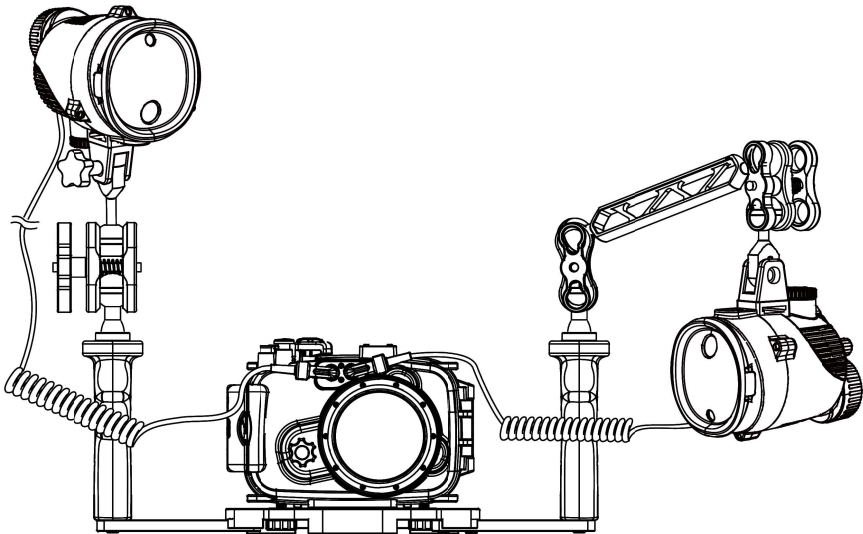
- Adjust light brightness from level 1-7
(1~10%, 2~20%, 3~30%, 4~40%, 5~60%, 6~80%, 7~100%)
- Indicator display battery power. Green light more than 50%. Yellow light 25%-50%. Red light 10%-25%. Red light flash means battery power less than 10% and light brightness will down to 6%.

Fiber-Optic Trigger Learn Mode "LM"

- Connect fiber-optic cable, turn mode knob to fiber-optic trigger learn mode "LM". The indicator flash blue and green light and the control panel change to white light flashes.

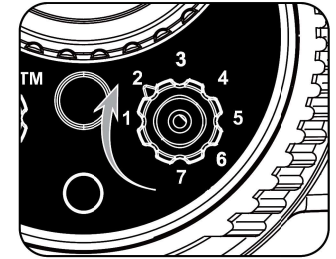
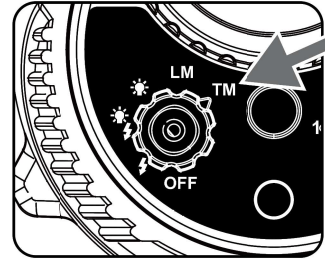


- Press camera shutter button and learn camera flash signal. When learn successfully, green indicator flash 3 times and change to flash mode. Otherwise red indicator flash 3 times and change to flash mode, the control panel change to blue light.



Flash Test Mode "TM"

Turn mode knob to flash test mode "TM". The control panel change to blue light. When the blue indicator on, turn the intensity knob can test flash.

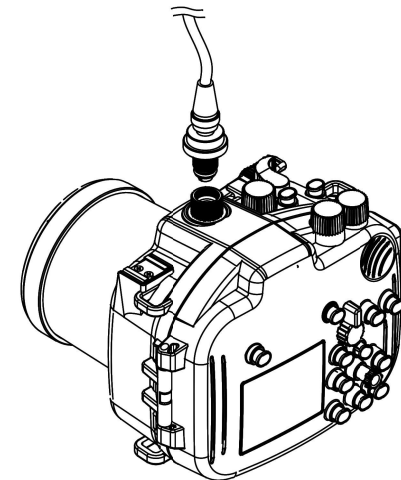
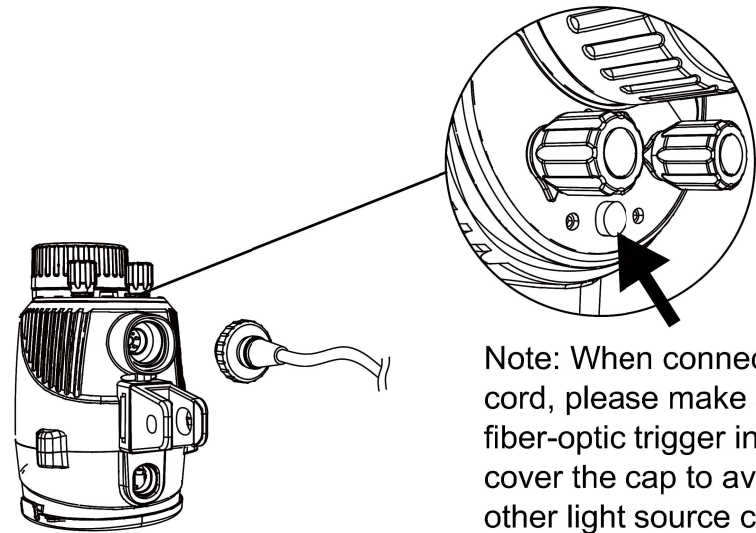


Automatic Turn Off

SF-01 Strobe will turn off automatically if don't use it more than 180 minutes. You need to turn the mode knob to OFF and turn it on again.

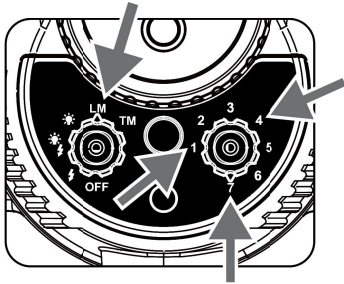
5-pin Sync Cord

Connect 5-pin sync cord to camera waterproof case and SF-01 strobe. Sync cord trigger can replace fiber-optic trigger.

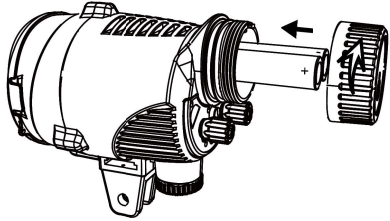


Recycle Speed Mode Setting

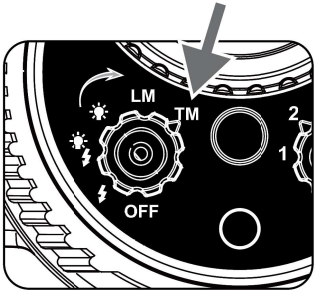
If installed higher drain batteries, please set faster Recycle Speed Mode.



- (1) Before install battery, turn mode knob to “LM” Fiber-Optic Trigger Learn Mode, and turn intensity knob to level 1, 4 or 7. level 1, 4 and 7 are corresponding to 3 recycle speed modes. They are normal speed, fast speed or ultra fast speed respectively.



- (2) Open battery cap and install two batteries, then close it.



- (3) After the control panel blue light flash 3 times, the indicator flash red and green light. Turn the mode knob to “TM” position within 10 sec and it will change to corresponding recycle speed mode. Meanwhile the green indicator flash 3 times to confirm.

⚠ Note(1): If don't turn the mode knob within 10 sec, it will keep previous memorized setting.

⚠ Note(2): Don't use low drain lithium battery in ultra fast recycle speed mode, because flash recycle will trigger the lithium battery built-in protection.

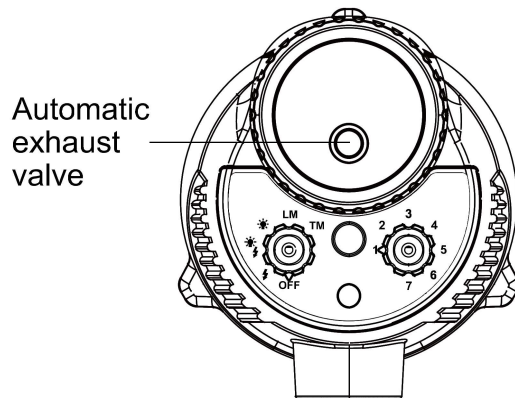
⚠ Note(3): To test the battery whether suitable for the recycle speed mode or not, fully charge the battery first. Then trigger flashes in the Flash + Modelling Light Mode with Intensity Knob at maximum intensity, and see if the battery built-in protection occurs. If the protection still occurs while the strobe is already in normal speed recycle mode, the battery is not suitable for use in the strobe.

Protect Function

- Temperature protection:
When the flash recycle, if the internal component temperature too high will cause recycle slow and yellow indicator flash.
- Continuous flash protection: When setting flash intensity to level 6 or level 7, flash will stop work if flash 10 times within 25 seconds and red indicator flash. After 10 minutes, flash function can work again.
- Charging abnormal protection: If charging time too long, charge will stop automatically and the red indicator flash.
- Circuit abnormal protection: Stop charging, purple indicator flash.

- Automatic exhaust valve

In a few extreme cases, the battery may explode or explode abnormally. Meanwhile the automatic exhaust valve will open automatically to release the internal air pressure to ensure the safety of users and products.

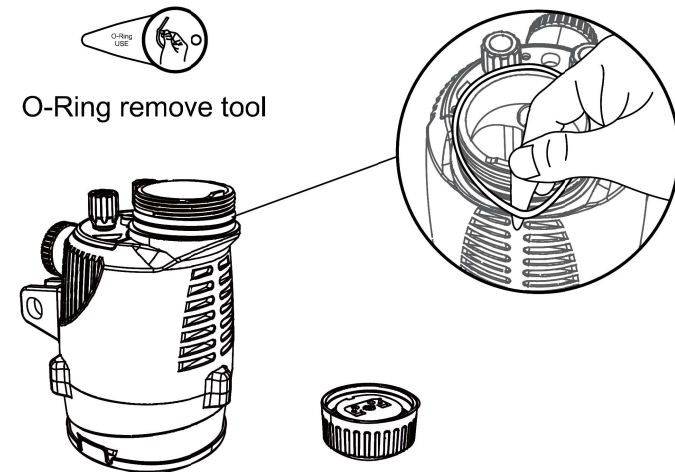


⚠ Danger: Do not disassemble or modify the automatic exhaust valve without authorization. Otherwise the exhaust valve may not operate normally and cause danger.

Maintenance

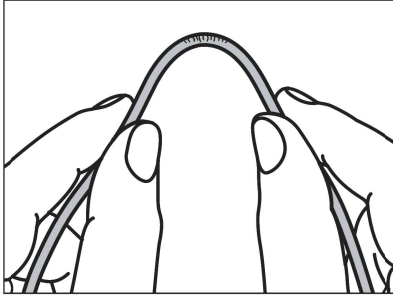
- Please check the strobe O-Ring every time before underwater. If the O-Ring is contaminated with debris, remove it and clean with freshwater. Dry it with dust-free soft cloth and add some silicone grease. Please refer to following step:

(1) Remove the O-Ring with attached remove tool.

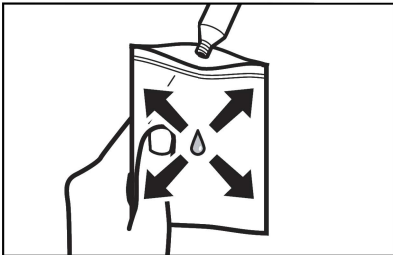


⚠ Warning: Do not use metal, sharp or hard objects to remove O-Ring. Otherwise, it may damage O-Ring or waterproof groove and cause water leakage.

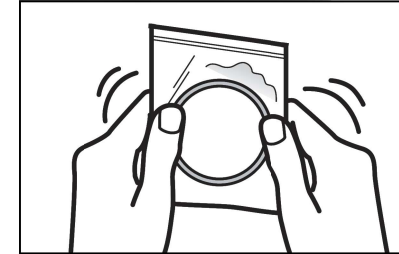
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- (2) Pull O-Ring with your finger and check it if there is any debris attached. If O-Ring is attached with debris, Clean O-Ring with freshwater. If the O-Ring is damaged, please replace it with a new one.



- (3) After cleaning the O-Ring, it is necessary to re-add silicone grease. Take a clean plastic bag, put the O-Ring inside and squeeze in the proper amount of silicone grease.



- (4) Gently pinch the plastic bag with your fingers to evenly distribute the silicone grease to O-Ring.



- (5) Check Strobe O-Ring groove carefully. If there is any debris in groove, please clean it with dust-free cloth or dedicated chipless cotton swab, cooperate with blowing. Then put the O-Ring with silicone grease back to groove.

