



Riparazione e Manutenzione Erogatori

Cressi-sub

SL Spearguns - SI Star





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Riparazione e Manutenzione Fucili

SL Spearguns - SI Star

WARNING !

- ⚠ Attenzione, fucile sotto pressione. Leggere attentamente le informazioni, prima di qualsiasi utilizzo.
- ⚠ Caution, gun under pressure. Carefully read the instructions before use.
- ⚠ Attention fusil sous pression. Lire impérativement la notice avant toute utilisation.
- ⚠ Atención, fusil bajo presión. Leer con atención las informaciones antes de su utilización.



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SL Spearguns - SI Star

WARNING !

- This manual is intended for use by expert technicians who have already received training in equipment repairs and maintenance from Cressi-sub.
- We decline all responsibility for any maintenance and/or repair performed by personnel not authorized by Cressi-sub.
- Avoid performing maintenance and/or repair operations on the equipment without the proper training required to conduct these operations.
- Users must never perform maintenance themselves; all maintenance must be performed **EXCLUSIVELY** by an authorized Cressi-Sub center.
- If the information provided in this document is unclear or not fully intelligible, please contact Cressi-sub before proceeding with any disassembly or maintenance procedures.
- Before proceeding, Cressi-sub recommends that you read the following document carefully to familiarize yourself with all the **tools** and techniques needed to perform proper equipment maintenance and/or repair.
- Use this document as a guide during the various steps of maintaining and/or repairing the equipment.



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WARNING !

- All operations must be done strictly in the order provided in this document. Failure to do so could lead the equipment to function poorly, or worse, result in an accident.
- To prevent any assembly errors when performing maintenance and/or repairs, we recommend using **all** the replacement parts provided by Cressi-Sub in every operation.
- Pay special attention to the recommendations provided in the margin of the figures that show the various sequences of equipment maintenance and/or repair in order to avoid any problems that could result in an accident.
- The document below in no way replaces the equipment's instruction manual.
- The instructions provided in this document are based on the most recent information available about the equipment, and Cressi-sub reserves the right to make changes at any time.
- You can find your authorized Cressi-Sub center by asking your dealer, or Cressi Sub S.p.A. itself by sending an e-mail to:


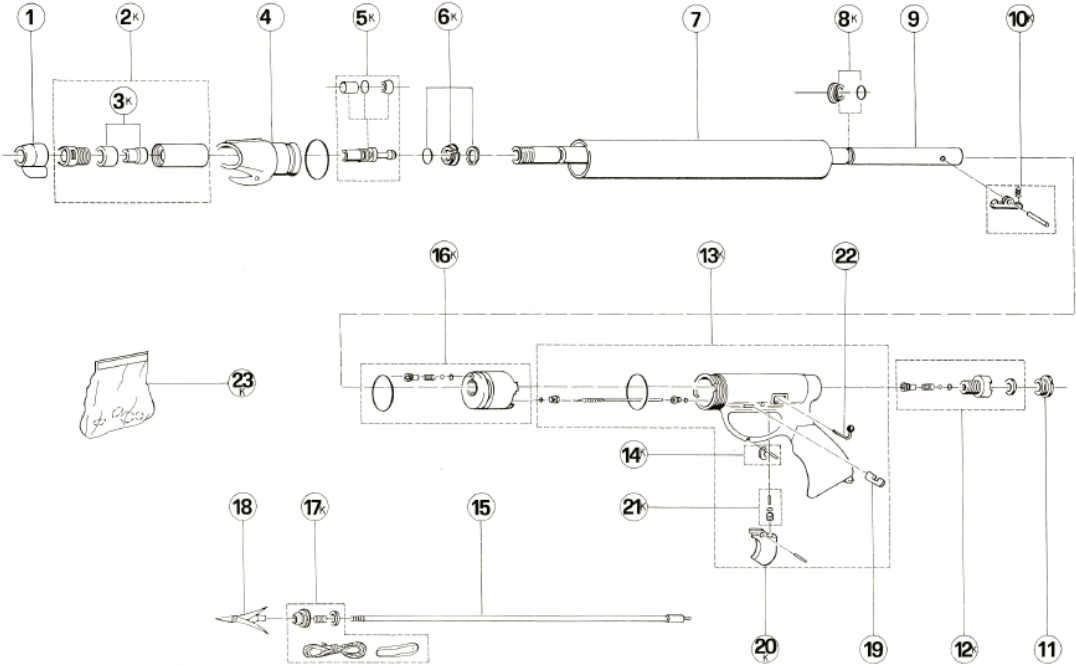
info@cressi-sub.it



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SL Spearguns - SI Star

 FUCILI SL CON RIDUTTORE / SL GUNS WITH REDUCER				N° TAV./TABLE NO. 7			
							
Pos.	Codice/Code	Pos.	Codice/Code	Pos.	Codice/Code	Pos.	Codice/Code
1	FZ 340050	7	FZ 365010 SL 100	13K	FZ 360098	19	FZ 360025
2K	FZ 360070	8K	FZ 360049	14K	FZ 360085	20K	FZ 360095
3K	FZ 360004	9	FZ 361011 SL 55	15	FZ 361036 SL 55	21K	FZ 360086
4	FZ 360005	9	FZ 362011 SL 70	15	FZ 362036 SL 70	22	FZ 360026
5K	FZ 360072	9	FZ 365011 SL 100	15	FZ 365037 SL 100	23K	FZ 360036 SET OR
6K	FZ 360090	10K	FZ 360091	16K	FZ 360089		
7	FZ 361010 SL 55	11	FZ 360088	17K	FZ 360093		
7	FZ 362010 SL 70	12K	FZ 360096	18	FZ 390004		

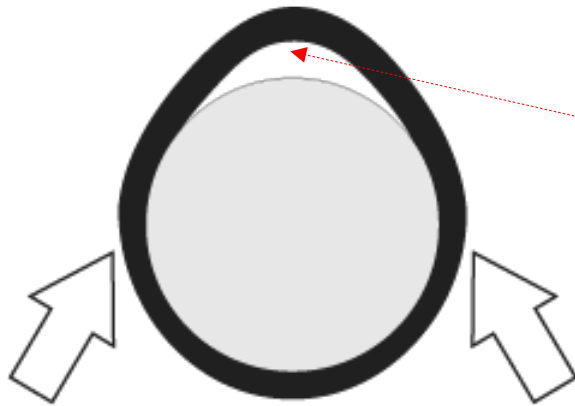
Use only original Cressi-sub replacement parts.



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- Remove and replace all gaskets in the speargun.
- To remove the O-Rings, use a plastic tool, or a metal one, but with a rounded tip in order to avoid damaging the gasket seal.
- To replace the gaskets correctly, press on the sides of the O-Rings to create a protuberance under which you can insert the tool with the rounded tip used for removing O-Rings, as shown in the figure.
- **Warning: ONLY USE ORIGINAL CRESSI-SUB GASKETS**



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SL Spearguns - SI Star: steps in disassembly

• ATTENTION!

- Oleopneumatic spearguns are pressurized devices (18 – 20bar).
- BEFORE PROCEEDING with disassembly they must be depressurized (after switching the power regulator – if present – to the “MAX” position, corresponding to maximum firing power) by placing the speargun with the head pointing downward for a few minutes.
- Next, unscrew the rear cap and press the valve sphere with a tool that won't scratch it in order to allow all the air in the barrel to exit.
- Hold the valve away from your face while depressurizing the gun to avoid getting sprayed with nebulized oil from the tank, which can be expelled along with the air.





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SL Spearguns - SI Star: steps in disassembly

- Unscrew the muzzle with the pin wrench.
- Remove the muzzle by hand. After this, the tailpiece should be visible.
- Pull out the piston body from the barrel with needle nose pliers.





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SL Spearguns - SI Star: steps in disassembly

- Remove the sight from the barrel by twisting it gently.
- Then drain away all the oil out of the speargun.





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SL Spearguns - SI Star: steps in disassembly

- Remove the barrel.





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SL Spearguns - SI Star: steps in disassembly

- Remove the trigger pin from the speargun hand grip.





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SL Spearguns - SI Star: steps in disassembly

- Then pull the trigger out of the hand grip.





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SL Spearguns - SI Star: steps in disassembly

- Remove the release pin using needle nose pliers.





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SL Spearguns - SI Star: steps in disassembly

- Insert the special screwdriver into the opening of the release pin guide set screw, and then unscrew it and remove it from its housing in the speargun hand grip.





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SL Spearguns - SI Star: steps in disassembly

- Remove the OR located underneath the release pin guide set screw.





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SL Spearguns - SI Star: steps in disassembly

- Using the special wrench, unscrew the reload valve and pull it out of the gun.



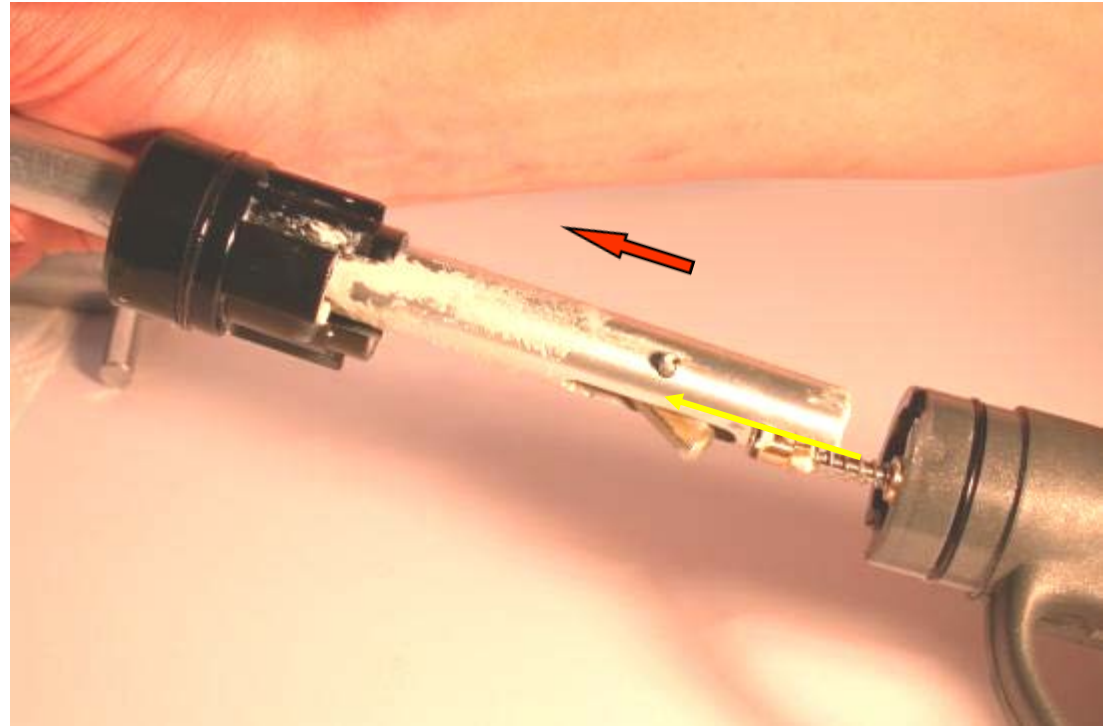


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SL Spearguns - SI Star: steps in disassembly

- Remove the barrel from the gun, complete with the pressure reducer (on models that feature one) from the hand grip.





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SL Spearguns - SI Star: steps in disassembly

- Remove the fastening pin from the barrel locking tab.



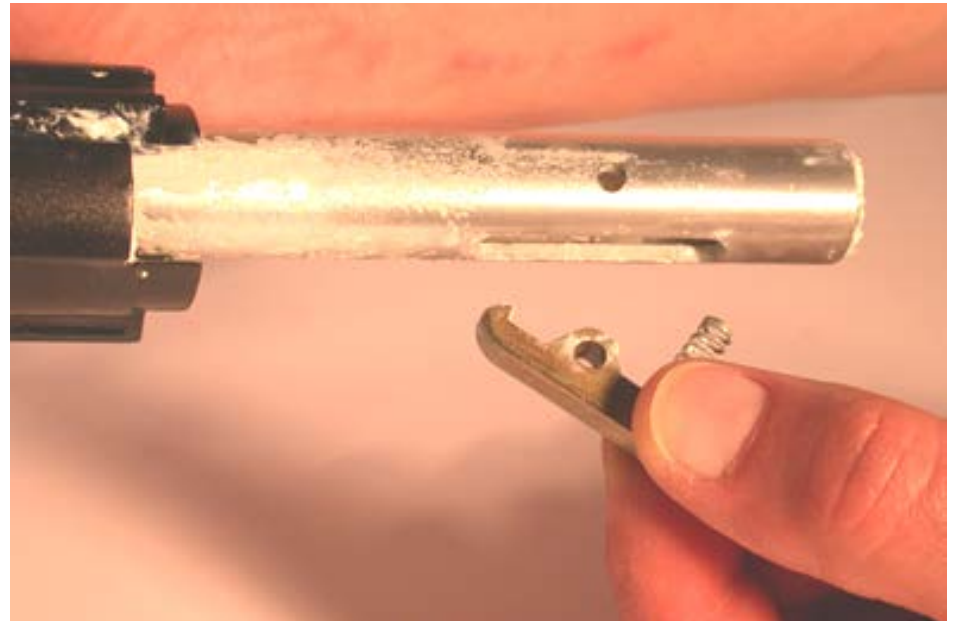


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SL Spearguns - SI Star: steps in disassembly

- Remove the locking tab, complete with the spring, from the barrel of the speargun.





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SL Spearguns - SI Star: steps in disassembly

- In spearguns fitted with a reducer, remove it from the barrel, pulling it out as shown in the picture.





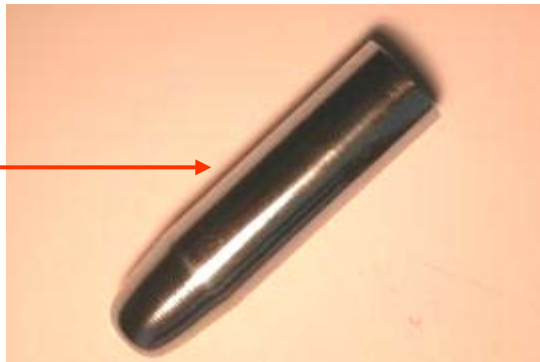
Riparazione e Manutenzione Erogatori

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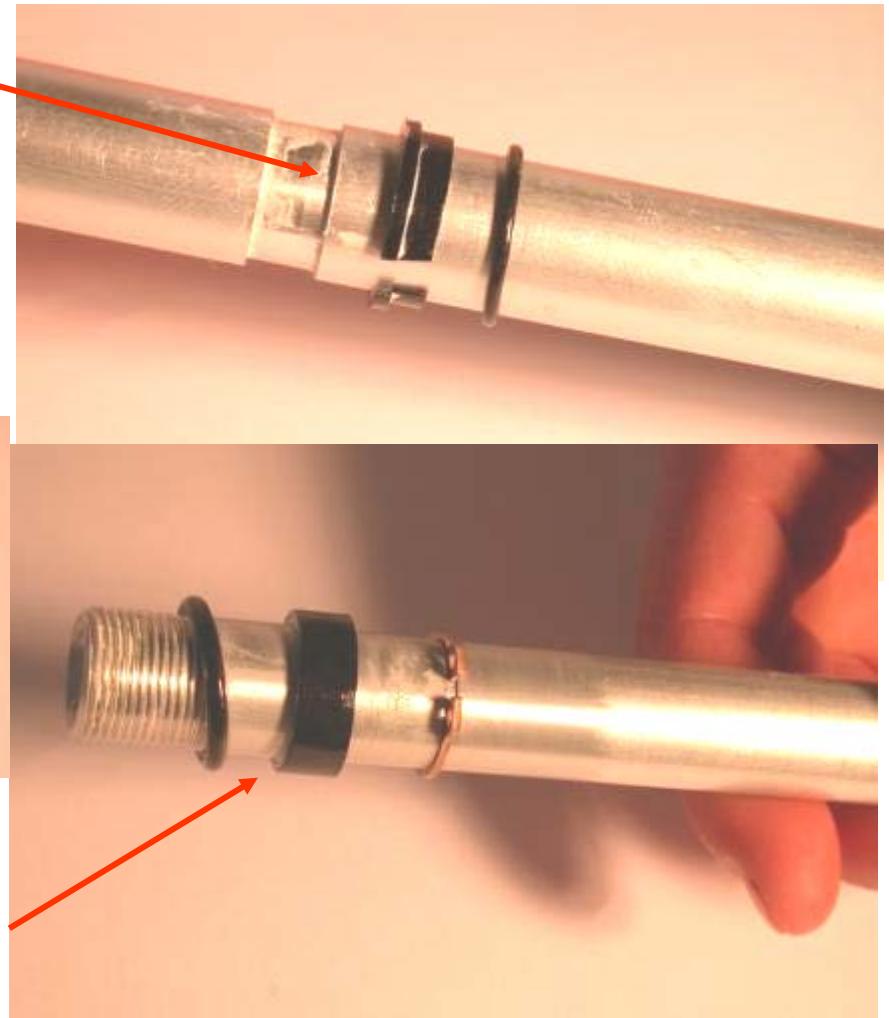
SL Spearguns - SI Star: steps in disassembly

Remove and replace the pressure reducer bushing (in weapons that have one) and the OR seal.

USE THE SPECIAL
CONE-SHAPED TOOL
TO PUT THE SEALS
BACK INTO THEIR
SEATS CORRECTLY.



Remove and replace the bushing of the tip on the barrel, the OR seal, and the snap ring.





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SL Spearguns - SI Star: steps in disassembly



- In guns with a pressure reducer, remove the reducer rod, the handle, and the OR seal of the handle and the hand grip, as shown in the figure.



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SL Spearguns - SI Star: steps in disassembly

- Remove and replace the seals on the hand grip and the muzzle on the speargun.



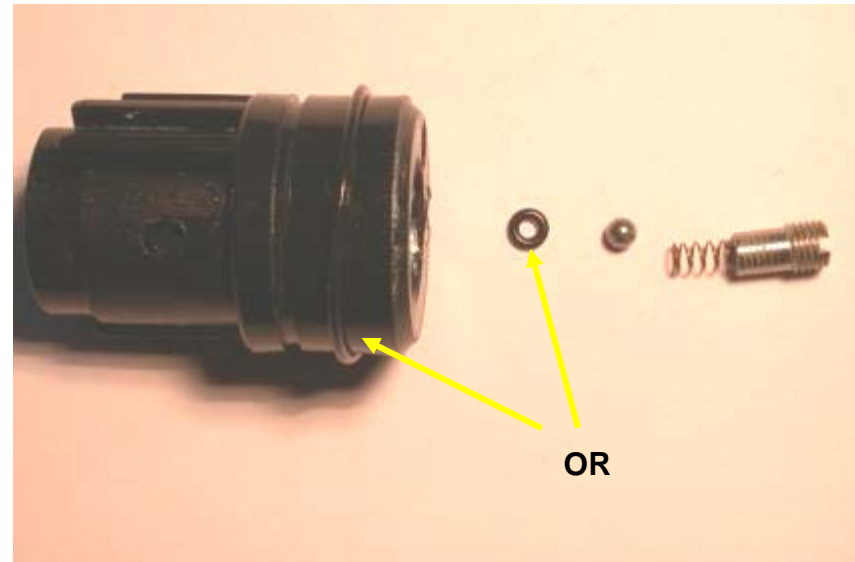


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SL Spearguns - SI Star: steps in disassembly

- In spearguns fitted with a pressure reducer, disassemble the spring pusher set screw, the sphere, and replace the ORs.





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SL Spearguns - SI Star: steps in disassembly

- With a flat-head screwdriver, unscrew the valve cap set screw, the spring, and the valve sphere, and replace the ORs.





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SL Spearguns - SI Star: steps in disassembly

- Unscrew the muzzle with the special pin wrench using the lateral drainage holes, and at the same time fasten a pin on the head of the muzzle to push against.





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SL Spearguns - SI Star: steps in disassembly

- Remove the line drop from the hand grip with a pin punch as shown in the figure.





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SL Spearguns - SI Star: phases of assembly

- Insert the special screwdriver into the hole in the hand grip set screw.
- Then, insert the tool into the hand grip, passing it through the milling as shown in the figure, carefully keeping it straight.
- Next, screw down the set screw, making sure it remains straight, into its threaded seat in the hand grip.
- Then insert the trigger pin into the hole in the set screw inside the hand grip.



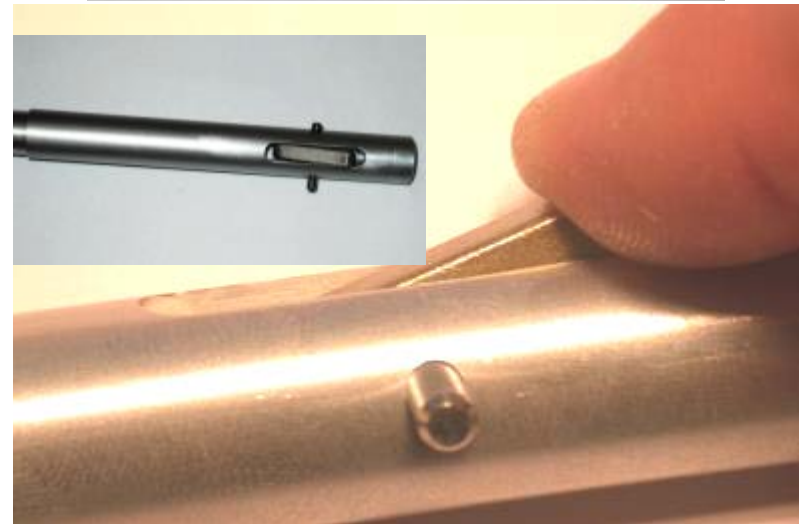
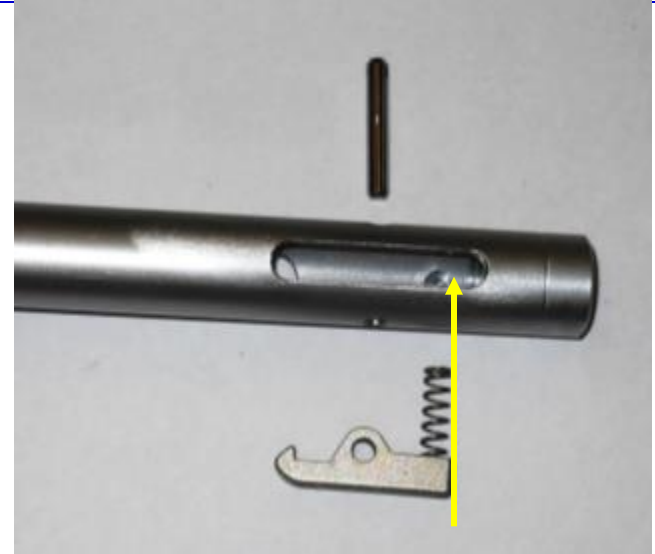


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SL Spearguns - SI Star: phases of assembly

- In spearguns that use it, insert the reducer on the barrel.
- Then insert the spring in the locking tab hole.
- Insert the locking tab assembly into its housing in the barrel, making sure to position the spring in the special seat located inside the barrel.
- Then, holding the locking tab down slightly in order to settle the spring perfectly into its seat, insert the fastening pin on the barrel as shown in the photo.





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SL Spearguns - SI Star: phases of assembly

- While pressing on the locking tab, insert the shaft into the barrel as shown.
- Then, release the locking tab and keep the shaft in the barrel for subsequent assembly steps.
- This prevents the locking tab spring from falling out of its seat inside the barrel.





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SL Spearguns - SI Star: phases of assembly

- Next, while still holding the locking tab with the shaft inserted in the barrel, insert the barrel with its reducer (in guns that use it) inside the hand grip as shown in the figure, making sure that the reducer fits together with the shaft mounted on the gun's hand grip.
- In spearguns without a reducer, insert the barrel as above into the grooves inside the hand grip, as shown in the figure.





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SL Spearguns - SI Star: phases of assembly

- Then insert and screw down the valve cap, complete with the sphere, seals, and spring on the barrel that was just assembled in the gun's hand grip.
- Screw down the cap on the barrel using the special tool as shown.





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SL Spearguns - SI Star: phases of assembly

- Reassemble the trigger in its housing on the hand grip, and fasten it with the pin as shown.
- Once the trigger is fastened, removed the shaft from the gun's barrel.
- Reassemble the line drop on the hand grip, fastening it as shown.





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SL Spearguns - SI Star: phases of assembly

- Inject the special oil into the barrel in the quantities shown below. These quantities depend on the length of the speargun.

- SL 40 = 4 cc
- SL 55 = 5 cc
- SL 70 = 7 cc
- SL 100 = 10 cc





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SL Spearguns - SI Star: phases of assembly

- Insert the new piston into the gun barrel after greasing it thoroughly, as shown in the photo.



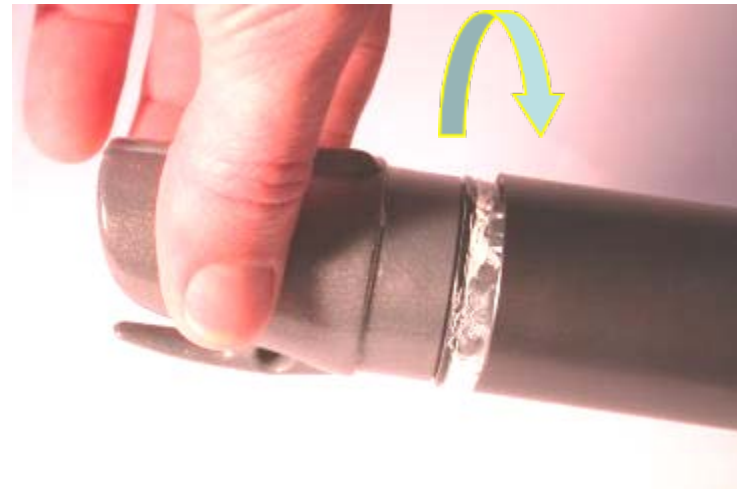


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SL Spearguns - SI Star: phases of assembly

- Insert the outer barrel onto the hand grip, taking care to rotate it slightly back and forth to make it easier to slide in the seals on the reducer (on guns fitted with one) and the hand grip into the outer barrel itself. This is to guarantee that the seals hold properly once they are assembled.
- Use the same method to insert the tip into the outer barrel as shown in the figure, and then align it with the hand grip.





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SL Spearguns - SI Star: phases of assembly

- Next, screw the muzzle and bushing all the way down on the speargun barrel and tighten them together using the special pin wrench.
- If you have a torque wrench available, the correct setting is 15 – 20 Nm.





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SL Spearguns - SI Star: phases of assembly

- In spearguns with pressure reducer, move the reducer lever to the MAX position.
- Then, screw the pump provided standard onto the valve cap and pressurize the gun, to a pressure NOT to exceed 18 - 20 bar.
- To fully reset the pressure for the gun, depending on size, you will need:



SL STAR

MODEL	0-18 BAR	0-20 BAR
SL 40	100 ↓↓	115 ↓↓
SL 55	180 ↓↓	200 ↓↓
SL 70	250 ↓↓	280 ↓↓
SL 100	480 ↓↓	510 ↓↓



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SL Spearguns - SI Star: phases of assembly

- Use the gauge to check the gun loading pressure. Weapons with a pressure reducer must be tested at maximum pressure.



MAX 20 BAR !

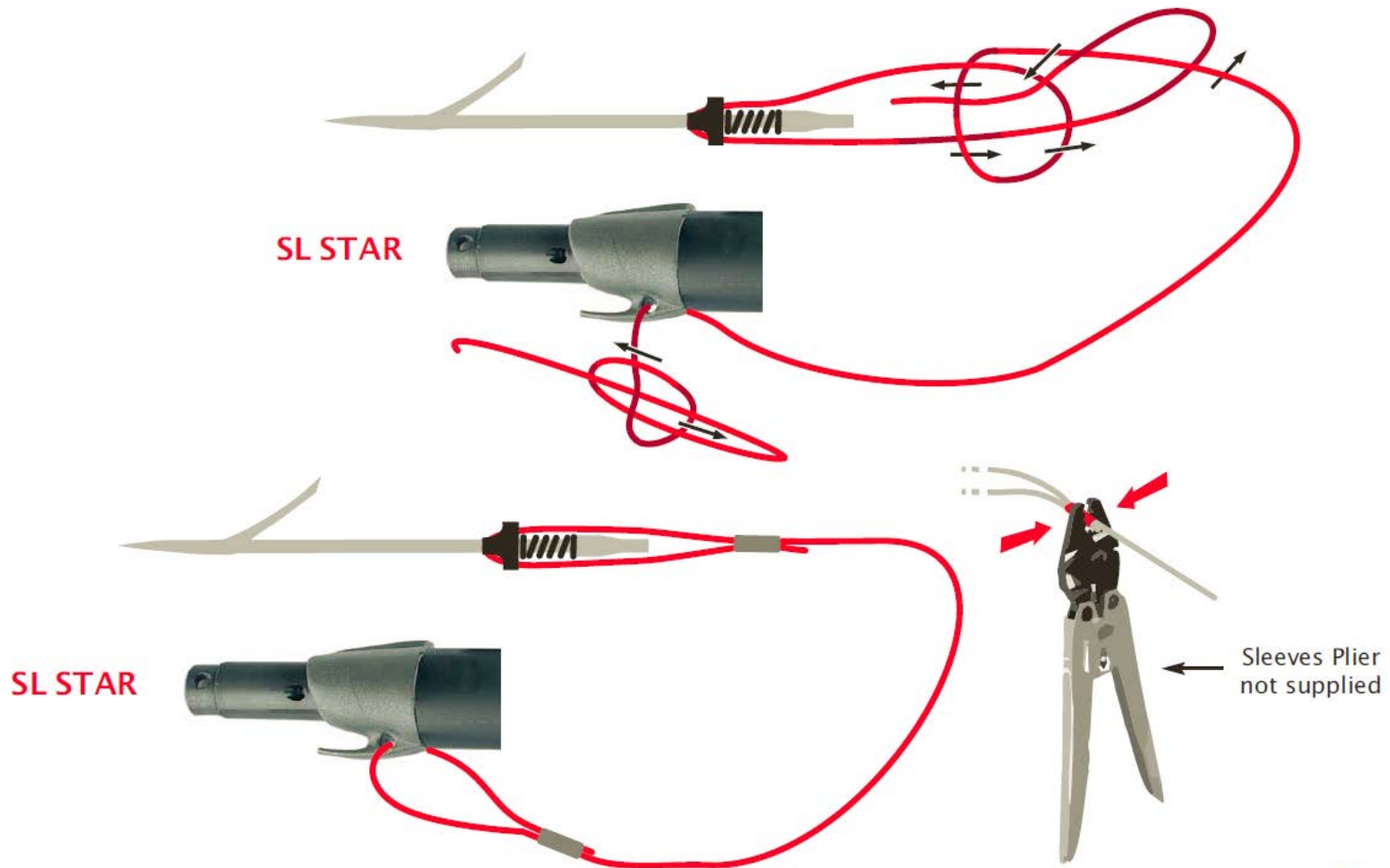




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**SL Spearguns - SI
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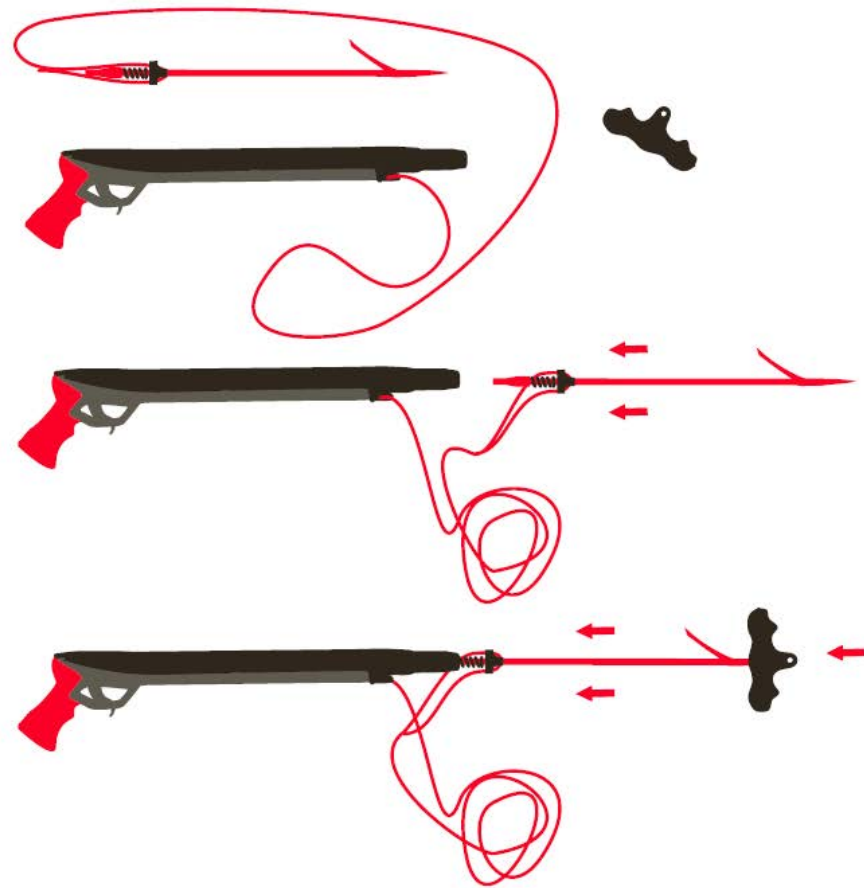
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SL Spearguns - SI Star: phases of assembly

OK



WRONG!





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**SL Spearguns - SI
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FZ360000