NE-9010
Peristaltic Pump
Addendum to NE-9000
Instruction Manual

Peristaltic Tubing Pump

Series



⚠ Caution	
This symbol indicates information that, if ignored or applied incorrectly, creates the possibility of minor or moderate personal injury or property damage.	

Safety precautions

Safety

In the interests of safety, this pump and the tubing selected should only be installed and used by competent, suitably trained personnel after they have read and understood this manual, and considered any hazard involved.

Markings & Symbols

The following are the meanings of the markings and symbols used in these Safety Precautions.

⚠ **Warning**	This symbol indicates information that, if ignored or applied incorrectly, creates the possibility of death or serious personal injury.
⚠ **Caution**	This symbol indicates information that, if ignored or applied incorrectly, creates the possibility of minor or moderate personal injury or property damage.

⚠ Warning

- This product is designed for liquid only.
- It is user's responsibility to determine the suitability of this product for any medical application.
- Never use in atmosphere with flammable gas. Doing so creates risk of smoke, fire or explosion.
- Never use in any location where there is a possibility of high humidity, high temperature, or extreme dust. Such conditions create the danger of fire and electrical shock.
- Never use a voltage that is different from voltage specified in this manual. Doing so creates the danger of fire and electrical shock.
- Never get any foreign matter (water, metal or other material) inside of Pump body and Geared Motor. Doing so creates the danger of fire and electrical shock.
- Do not touch motor when removing this product shortly after running down. Motor gets hot when it is operating and could cause serious burns.
- Never try to take the unit apart or modify it except as described in this manual. Doing so creates the danger of fire and electrical shock.
- Never leave any dangerous liquid inside of tubing when replacing tubing and disposing pump. Remaining liquid may cause serious injury.

⚠ Caution

- Do not transport and store this product where the temperature and the humidity are high or fluctuate greatly, or the product is subjected to direct sunlight.
- Remove tubing and keep separately from pump when the pump will not be used for a long time. The tubing wall may be damaged if the roller compresses the same part of the tubing for a long time.
- During installation and use,be careful not to cut yourself on the edge of Pump parts or Option bracket.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- Children shall not play with the appliance.

Precautions for applying Peristaltic Tubing Pump

- Chemical compatibility list provided by Saint-Gobain is only a guide.The user is responsible to determine the compatibility of the chemical and the tubing.
- Tubing's life depends upon the chemical compatibility and operating enviroment.
- Tubing is disposable and should be replaced periodically to keep stable performance.
- Regardless of the pump tube type, the phenomenon of peeling from inside of the tube starts with small amounts.
- The numerical data described on this manual are the conditions measured over short periods of time. The accuracy for long-term use is not assumed.
- There is a tendency for the flow amount to increase until the tubing settles, and so the flow amount may fluctuate between lots depending on the model, even if within tolerances.

New Era Pump Systems Inc. Limited Warranty

Note

Design and specifications are subject to change without notice. The information contained in this document is believed to be correct but New Era Pump Systems Inc. accepts no liability for any errors and reserves the right to modify this document without notice.

Specifications

■ General specification

Recommended installation height	2 meter (6.8 ft.) max (Water suction)
Liquid temperature range	5-50°C (41 to 122°F)
Environment temperature range	0-50°C (32 to 122°F) (Note: Freezing must be prevented.)
Ambient humidity range	20-80% RH (Note: Condensation must be prevented.)

■ Pump tube type: Materials & Sizes

	Tube type	Product Description
	Norprene A-60-G	"Industrial tubes" High performance alternative to general purpose rubber tubing

Tube ID*OD (inches)	5/16 * 1/2
Wall thickness (inches)	3/32

Nominal Maximum Flow Rate: 1500 mL/min
Nominal Purge Rate: 1300 mL/min

Caution: The above table describes the initial benchmark flow amounts during water suction.
This may vary considerably depending on the tube type, use period, ambient temperature, and lot tolerances, etc. Measure the specifications with reasonable leeway.

■ Tube fitting type: Descriptions & Sizes



T8

- **Available pump tube sizes (ID*OD)**
  5/16" x 1/2"
- **Connectable hose sizes**
  5/16" ID (Nylon or Polyethylene)

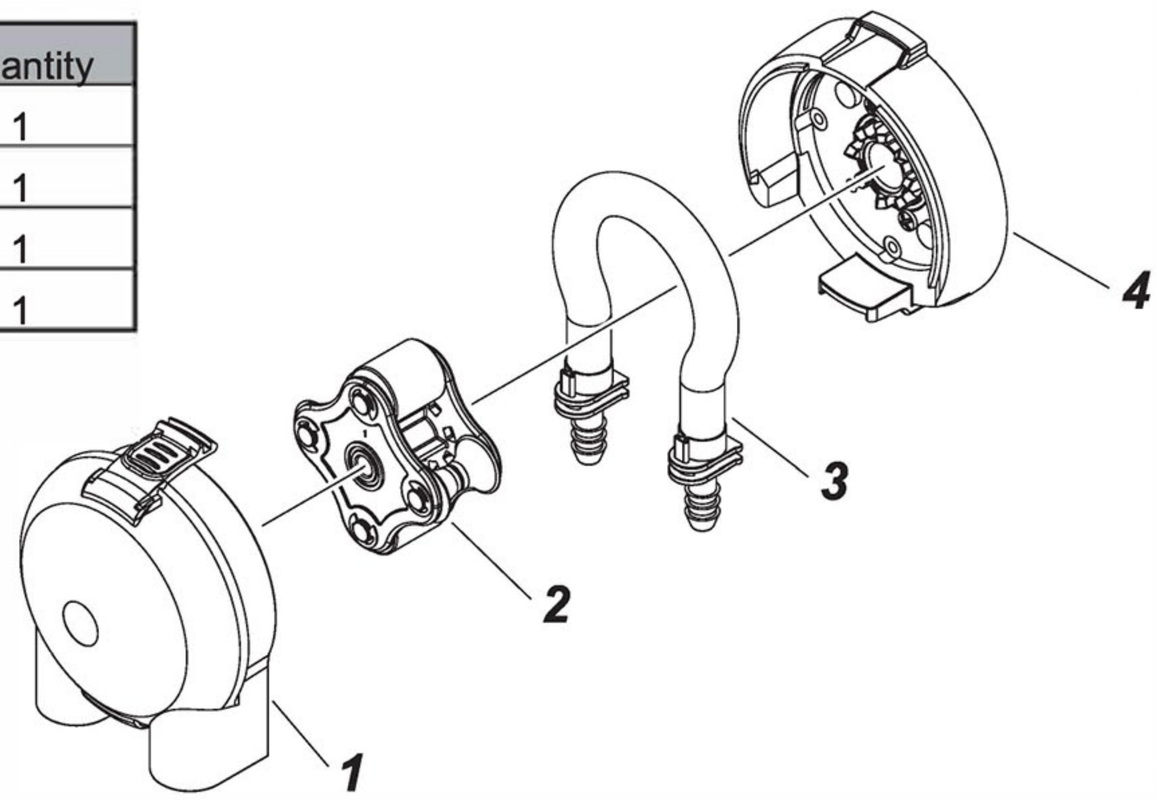
Barbed type. Inserted directly into hose and used.

*Please use clamp band in order to avoid the hose slipping out.

Components

■ Components list (for instance)

No.	Name	Quantity
1	Peri-Cassette-J Cassette	1
2	Peri-Cassette-J Rotor assembly	1
3	Peri-Cassette-J Tube assembly	1
4	Peri-Cassette-J Base assembly	1



Note: When ordering Replacement tube assembly...

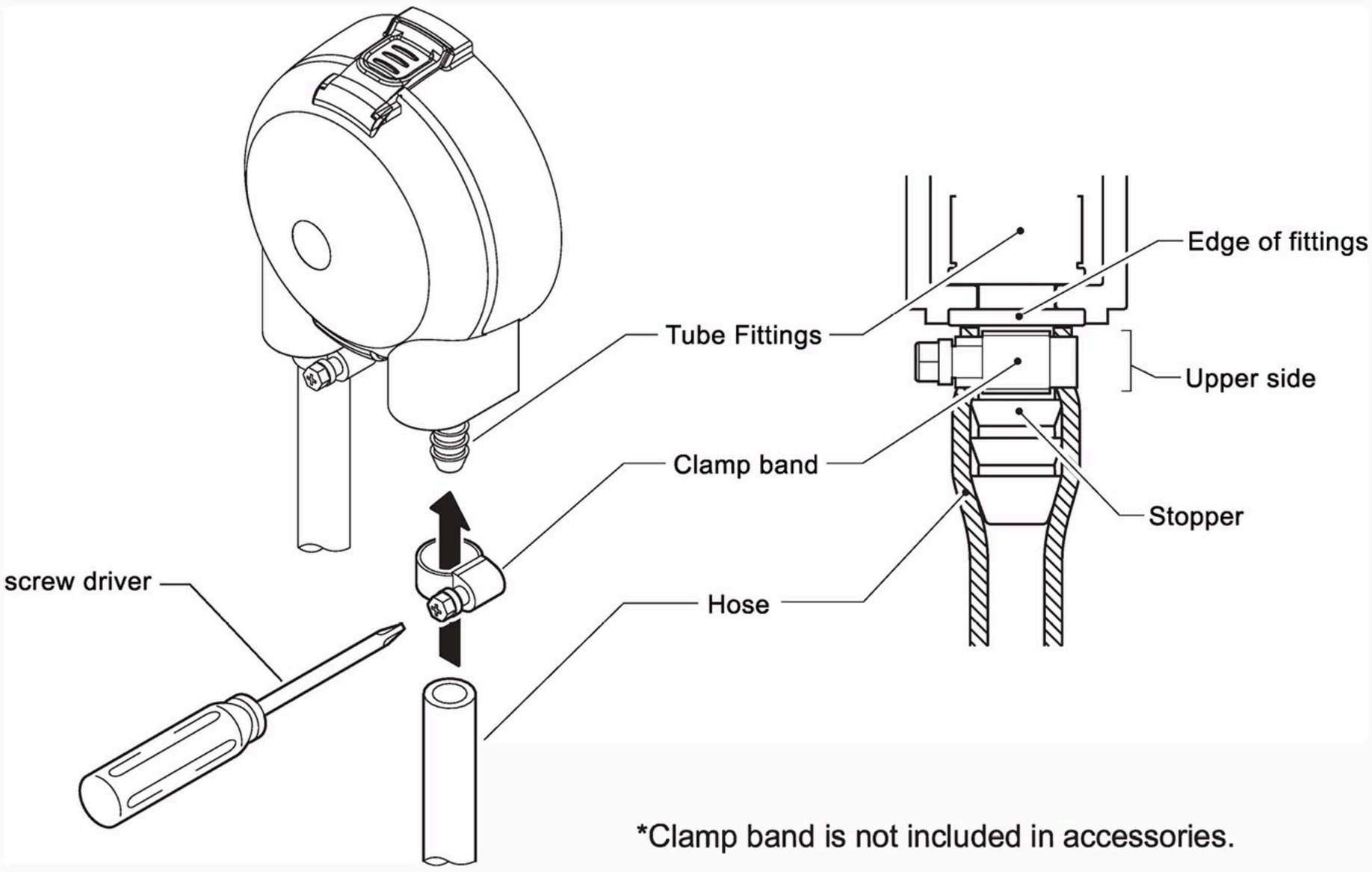
When you order Replacement tube assembly, please indicate Pump model number.

When Pump model number is not specified, we may not be able to proceed with your order.

Connecting hoses

1) Set hose into a clamp band and insert to the end.

2) Use screw driver to tie a clamp band over the upper side of the stopper at fittings.



*Clamp band is not included in accessories.

⚠ Caution

- Above mentions are in case of first-time connecting operation. Multiple connecting/disconnecting operations may occur liquid leak or looseness due to distortion of parts and hose. When compression nut can not hold hose absolutely, replace each parts.
- Cleaning and user maintenance shall not be made by children without supervision.

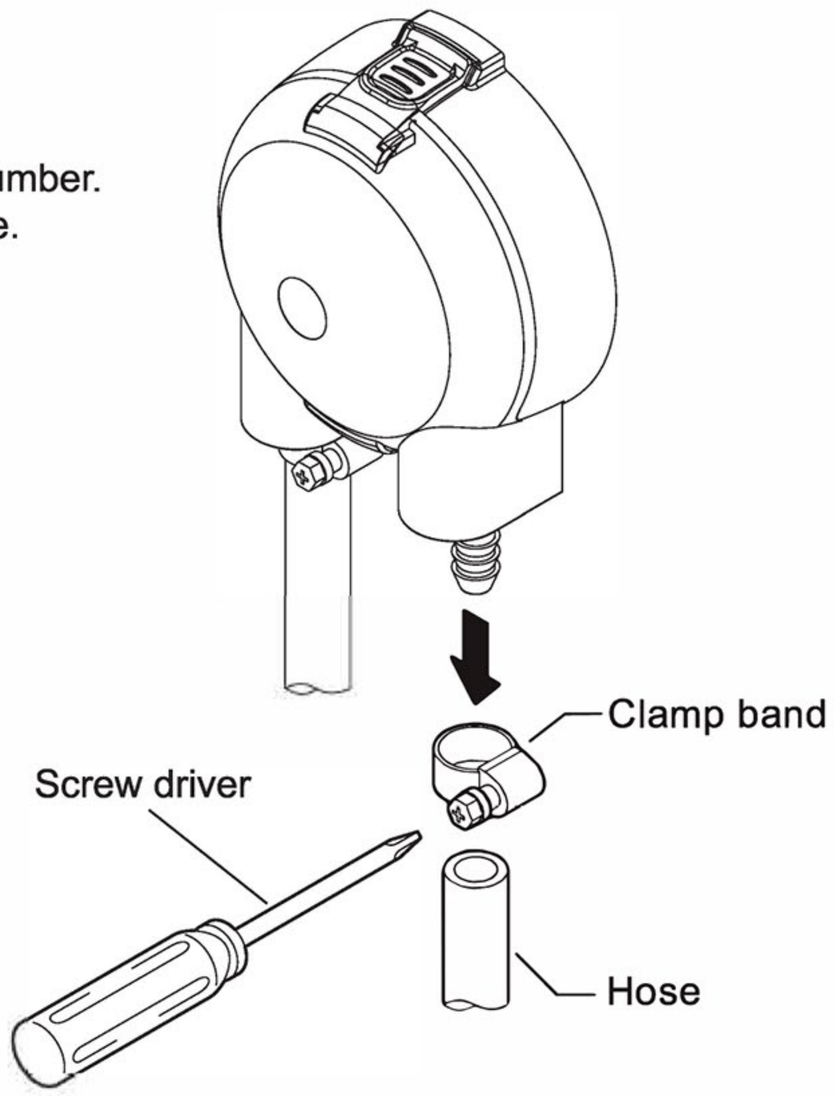
Replacement of Tube assembly

■ Disconnecting hoses

Before replacement...
- Prepare correct replacement tube assembly based on Pump model number.
- Grease is specified by each Tubing materials. Do not use other grease.

1) Unscrew the clamp band using screw driver and disconnect the inlet/outlet hoses.

2) Run Pump shortly to squeeze out liquid in the Tubing.

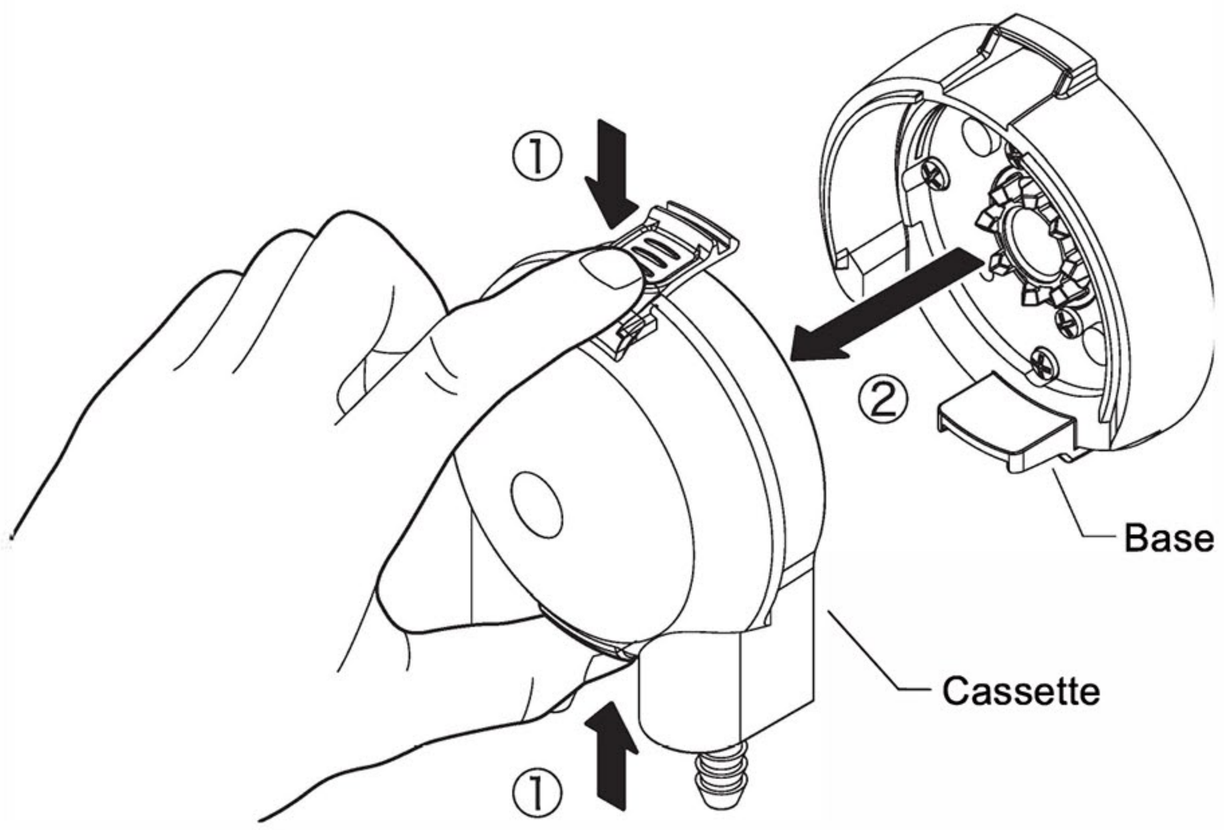


⚠ Caution

- Be careful for spilling or remaining liquid in the Tubing while operating replacement of Tube assembly.
- Do not reuse connecting parts, use attached new parts.
- Cleaning and user maintenance shall not be made by children without supervision.

■ Remove Pump cassette

Pull out the cassette with pushing top and bottom lever to remove pump cassette.



■ Remove Tube assembly

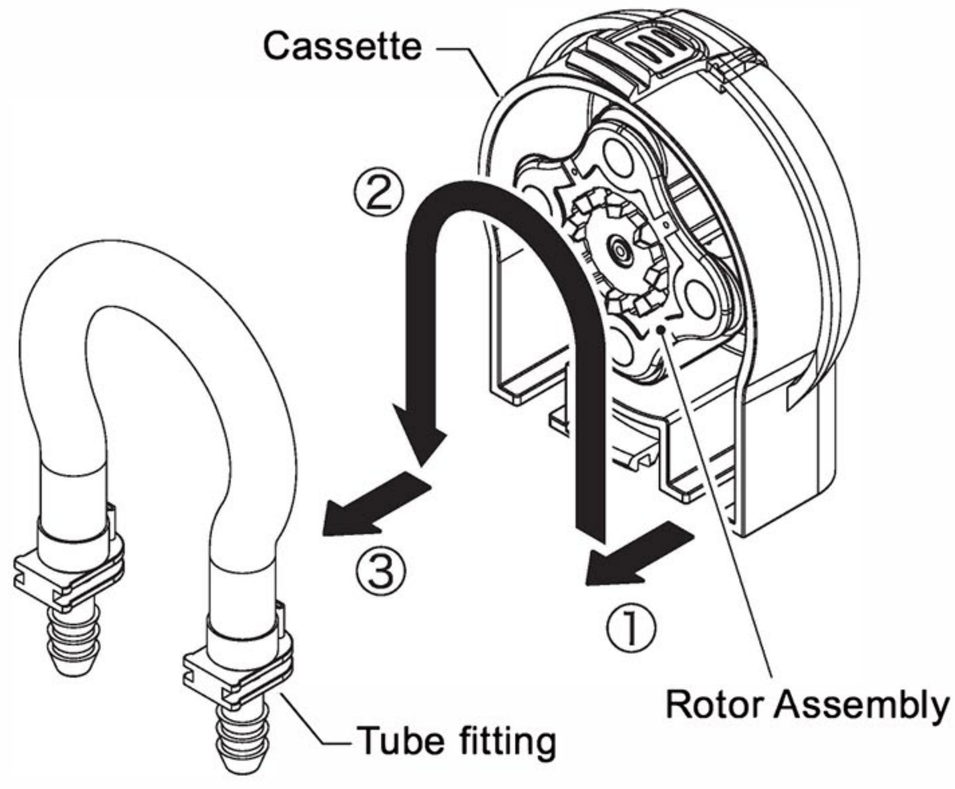
1) Remove the one Tube fitting from Cassette, by pulling out vertically.

2) Pull out tubing from Cassette.
Take care not to lose Rotor assembly.

3) Remove the other Tube fitting from Cassette.

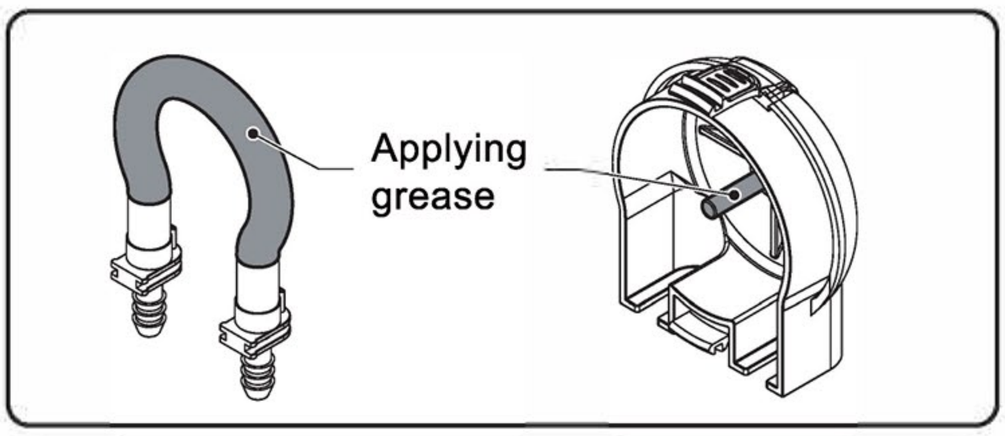
⚠ Caution

- Take care not to lose Rotor assembly when you pull out Tube assembly
- Be careful for spilling.



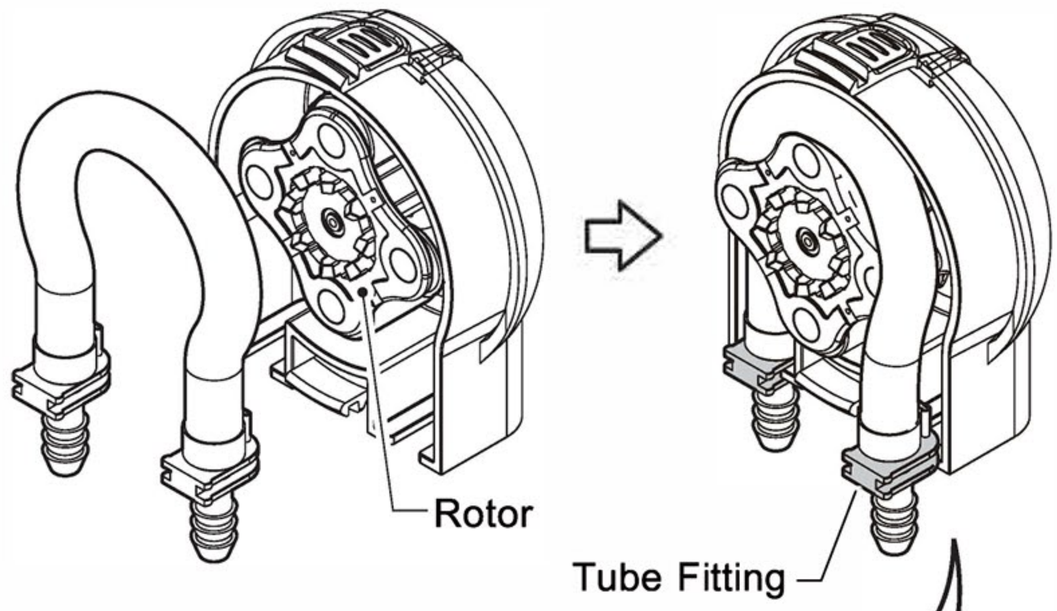
■ Install new Tube assembly

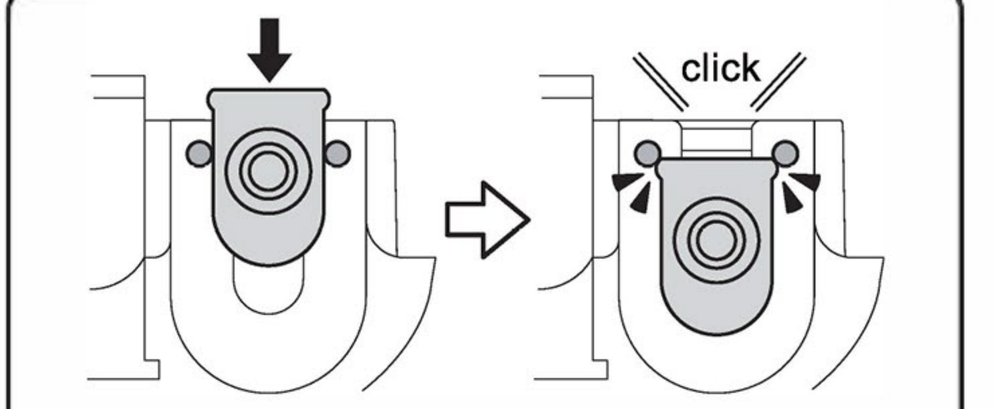
1) Apply the grease attached with Tube assembly set.
   (See gray area of below illustration)
2) Pull up Rotor a little and insert Tubing between the inside of Cassette and Rotor.
   (See right illustaration)



⚠ Caution

- Grease is specified by each Tubing materials. Do not use other grease.
- Cleaning and user maintenance shall not be made by children without supervision.

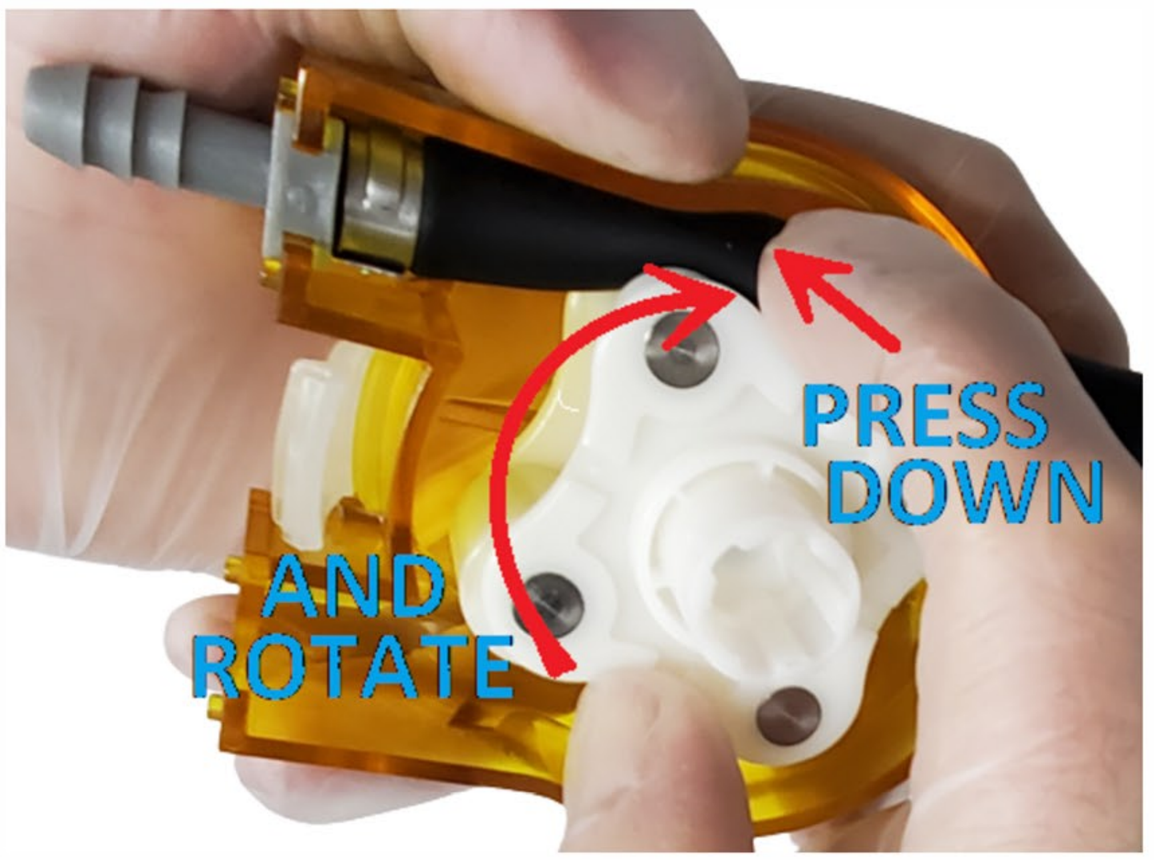




Push in until it clicks.

■ Press down on peristaltic tubing while rotating the Rotor.

When placing the pump head onto the gear, it may not readily engage. As you press the pump head onto the pump base, run the pump momentarily by pressing the start key twice.



■ Install a Cassette to Base

1) Attach Cassette onto Base with placing (a) and (b).

(See right illustration)

⚠ Caution

- No need to push top and bottom levers of the cassette when installing.

