

USER'S MANUAL

**AUTOMATIC LUBRICATION
SYSTEM
LBIⅡ
(Head)**



Foreword

This user's manual describes about the correct using method and instructions for use of this product. Please use this machine after understanding the contents of the manual.

This manual may contain discrepancies in detailed specification as compared with the actual production. If you have any question about this manual, consult your TAJIMA distributor.

We believe that "BASICS TAJIMA EMBROIDERY MACHINES" and "MACHINE SETUP INSTRUCTIONS" are useful to deepen your knowledge about this product. Please also read those booklets.

Regarding how to handle the products related, refer to the user's manual exclusive for them included in the manual CD.

TISM Co.,Ltd.

SAFETY PRECAUTIONS

To prevent any harm or damage to the person who use this product or other person, we describe items that must be surely followed as below.



Indicates that there is a lot of danger of death or serious injuries [*1] if handled by mistake.



Indicates that there is a likelihood of death or serious injuries [*1] if handled by mistake.





Indicates a potentially hazardous situation which may result in minor or moderate injury [*2] or property damage if handled by mistake.

*1: A condition caused by electric shock, injury, fracture of a bone, etc., that leads to aftereffects, or an injury that necessitates hospitalization or visits to a hospital over a long period.

*2: An injury that does not necessitate hospitalization or visit to a hospital over a long period.

: Prohibited items

: Items that may cause electric shock if not observed

: Items that must be followed carefully to ensure safe operation

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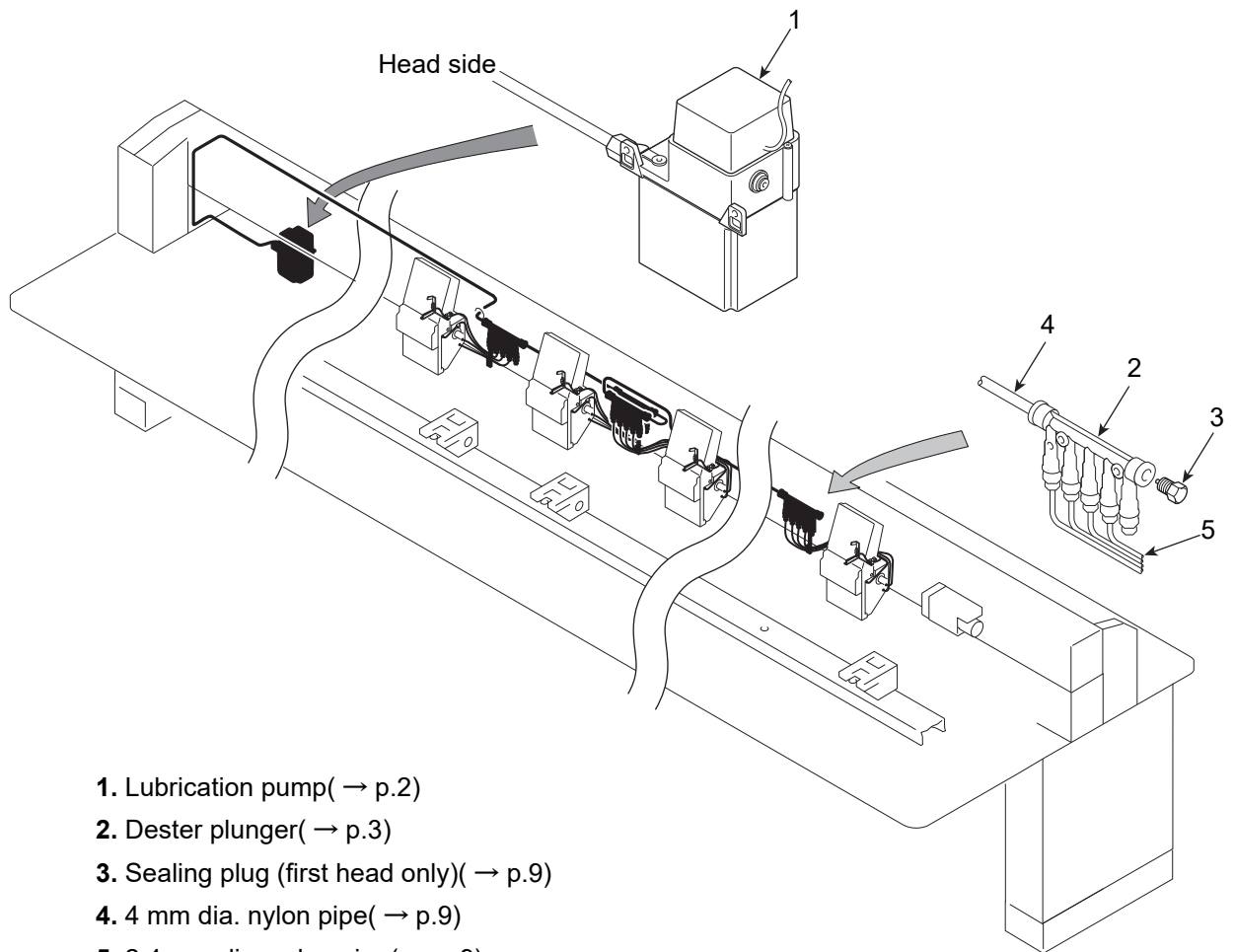
- 4.** Setting for lubrication cycle 6
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1. Name of each part

[Typical example]



1. Lubrication pump(→ p.2)
2. Dester plunger(→ p.3)
3. Sealing plug (first head only)(→ p.9)
4. 4 mm dia. nylon pipe(→ p.9)
5. 2.4 mm dia. nylon pipe(→ p.9)

2. Lubrication pump

There are following two types of lubrication pump (differs depending on model).

2-1. When oil is lacking

CAUTION

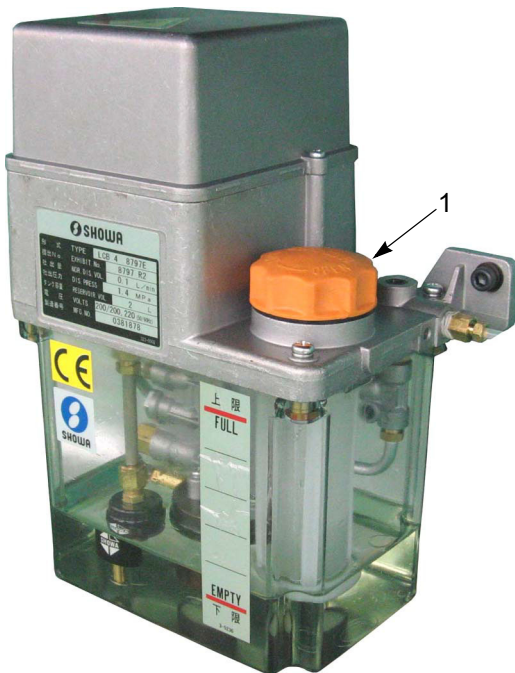
- ❗ This device does not have function that collects supplied oil. Therefore, inspect and clean the bottom section of the machine head once a month.
- ❗ Use the TF oil (packed with the machine), or the equivalent (viscosity grade = equivalent to VG20).

When oil in the tank becomes lacking, code No.251 will be displayed on the operation panel. Remove the cap (1 in the figure below) and refill oil to the full level.



Tank capacity of both tanks is 2 liters.

200 VAC



24 V DC



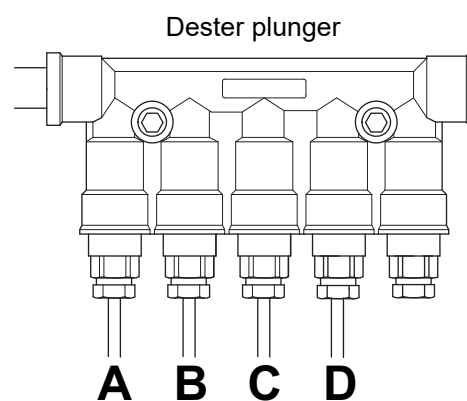
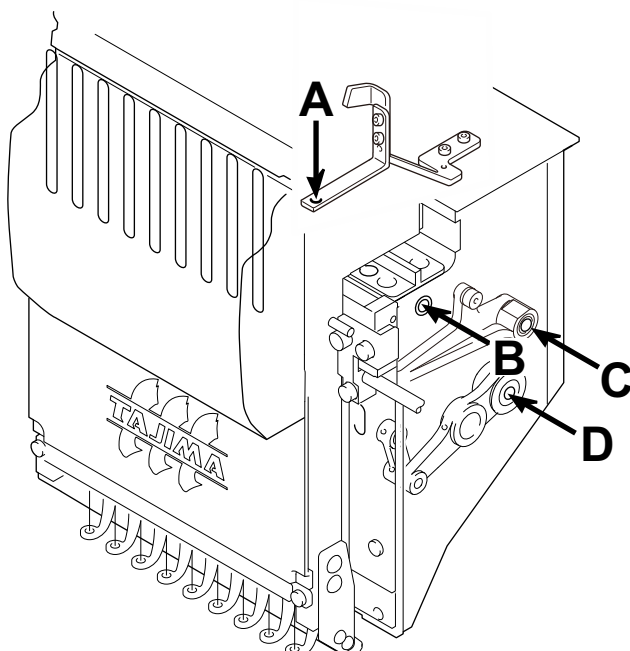
2-2. Lubricating spot

CAUTION

 Regarding parts in the head, it is necessary to lubricate other spots than those indicated below by the oiler (accessory). Refer to the user's manual of the machine, and perform lubrication periodically.

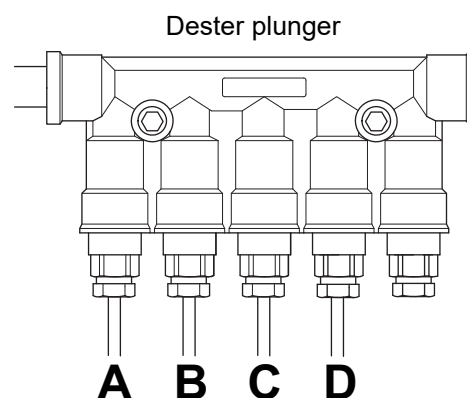
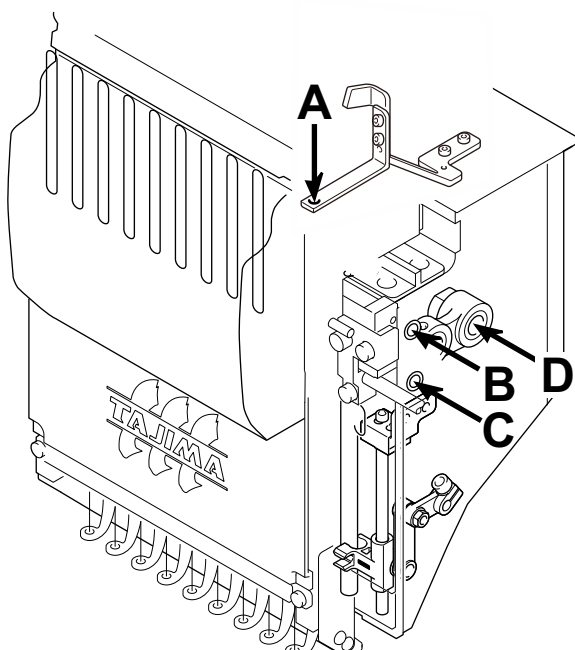
The device lubricates the spots indicated in the figure below (A to D, or A and B).

(1) TFMX, TCMX-mixed type (FM head)



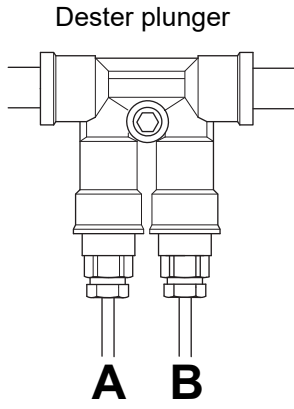
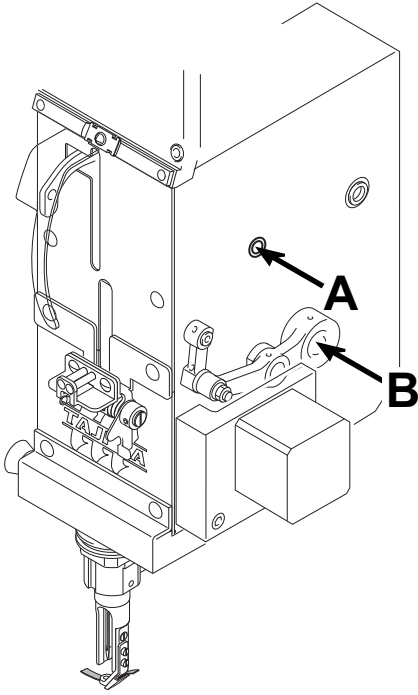
- A: Needle bar
- B: Needle bar drive shaft
- C: Presser foot drive shaft
- D: Needle bar drive shaft

(2) TMAR TYPE-2, TMAR-VC, TMCR, TMCP



- A: Needle bar
- B: Needle bar drive shaft
- C: Presser foot drive shaft
- D: Needle bar drive shaft

(3) TLMX



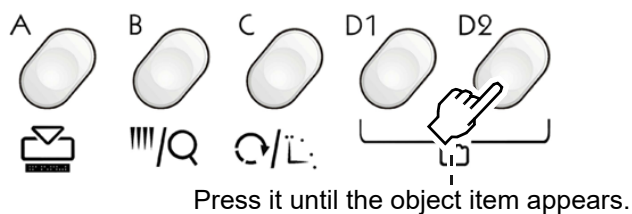
A: Needle bar drive shaft
B: Needle bar drive shaft

3. Manual Lubrication

Activate the device manually during stop of the machine to perform lubrication.

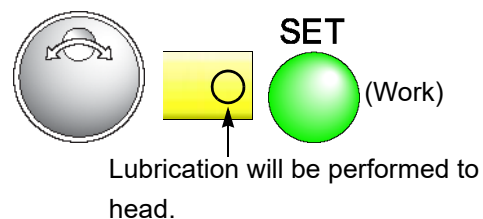
3-1. TLMX, TFMX, TCMX-mixed type (FM head)

(1) To switch screen



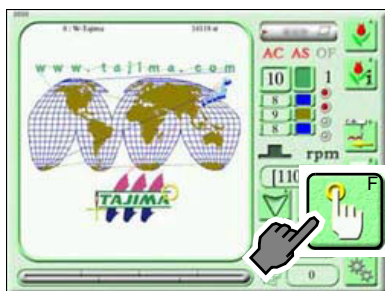
4 Manual Lubrication

(2) Select "O" to [SET].

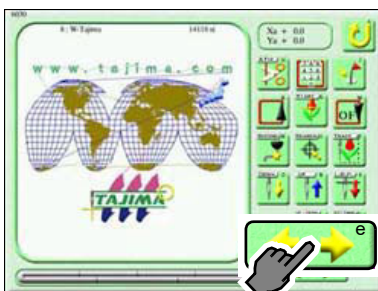


3-2. TMAR TYPE-2, TMAR-VC, TMCR, TMCP

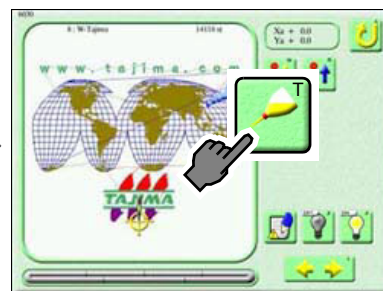
(1) Icon F



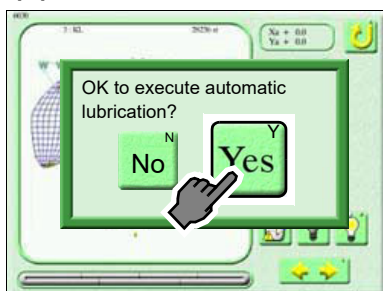
(2) Icon e



(3) Icon T



(4) Yes (Completed)

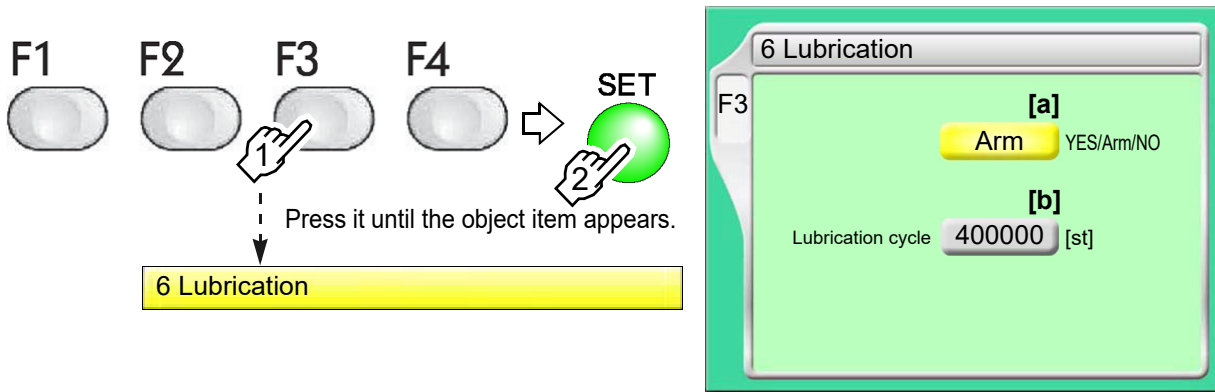


4. Setting for lubrication cycle

The device will perform lubrication automatically when counting of the machine reaches the number of setting stitches (lubrication cycle) in the middle of its operation.

4-1. TLMX, TFMX, TCMX-mixed type (FM head)

(1) To call the screen



<Screen>

[a] With/without device

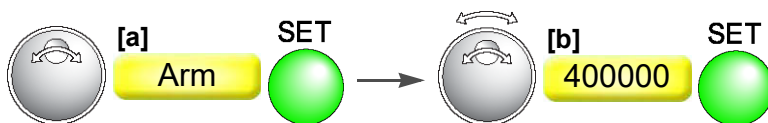
YES: Type lubricating the inside of head and rotary hook

ARM: Type lubricating the inside of head

NO: Without device

[b] Lubrication cycle (recommended value: 400000 stitches)

(2) Select a value and [SET].

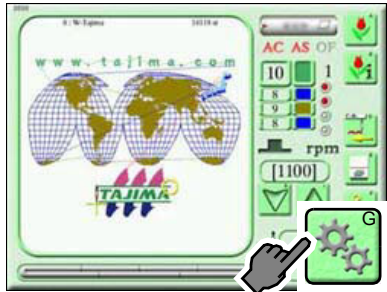


Setting for lubrication cycle

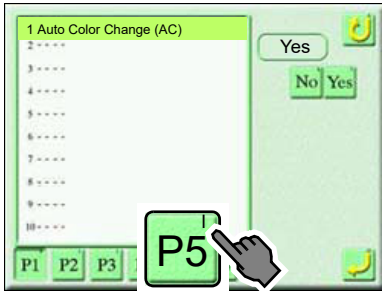
4-2. TMAR TYPE-2, TMAR-VC

(1) Setting for lubrication cycle (Head)

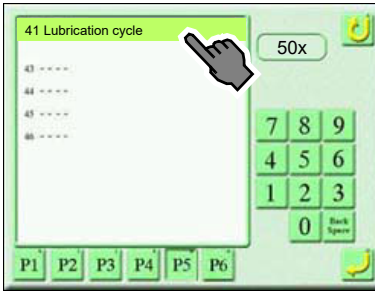
1. Icon G



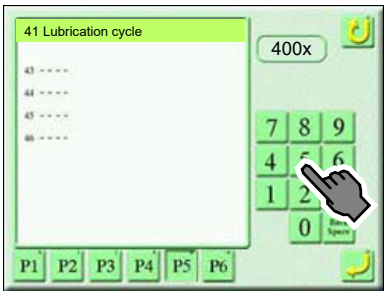
2. P5



3. 41 Lubrication cycle

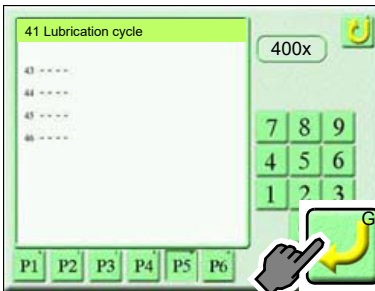


4. To input lubrication cycle



Input value x 1000 = lubrication cycle.
Recommended value is "400"
(400000 stitches).

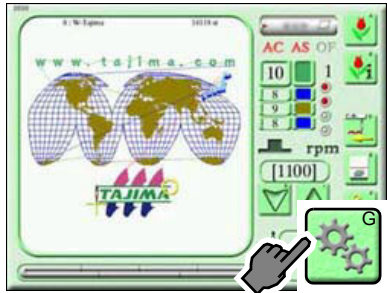
5. To set



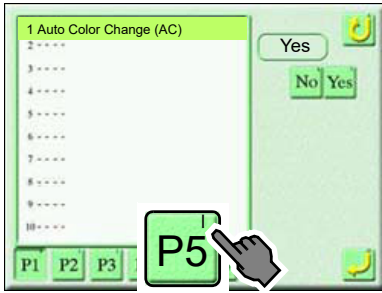
4-3. TMCR, TMCP

(1) Setting for lubrication cycle (Head)

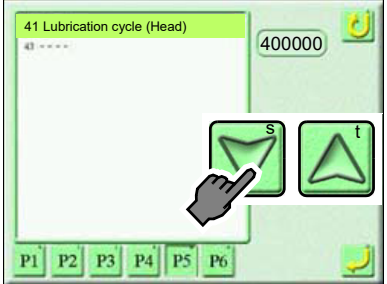
1. Icon G



2. P5

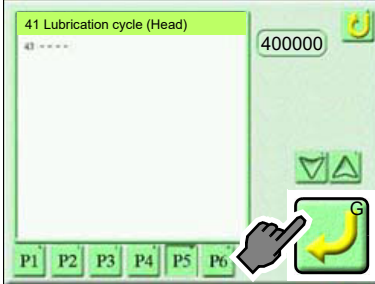


3. To input lubrication cycle



Example: lubricate every 400,000 stitches (the recommended value)
Do not select "1,000" because it is for maintenance only.

4. To set



5. Setting after installation of software

After software installation, confirm that the parameters are the setting contents in the table below.

	Parameter	Setting contents
TMAR TYPE-2, TMAR-VC, TMCR, TMCP	P7 77 Optional Device (Hardware) 9 Auto lubrication system	YES Without valve
TLMX, TFMX, TCMX-mixed type (FM head)	F3 6 Lubrication	Arm

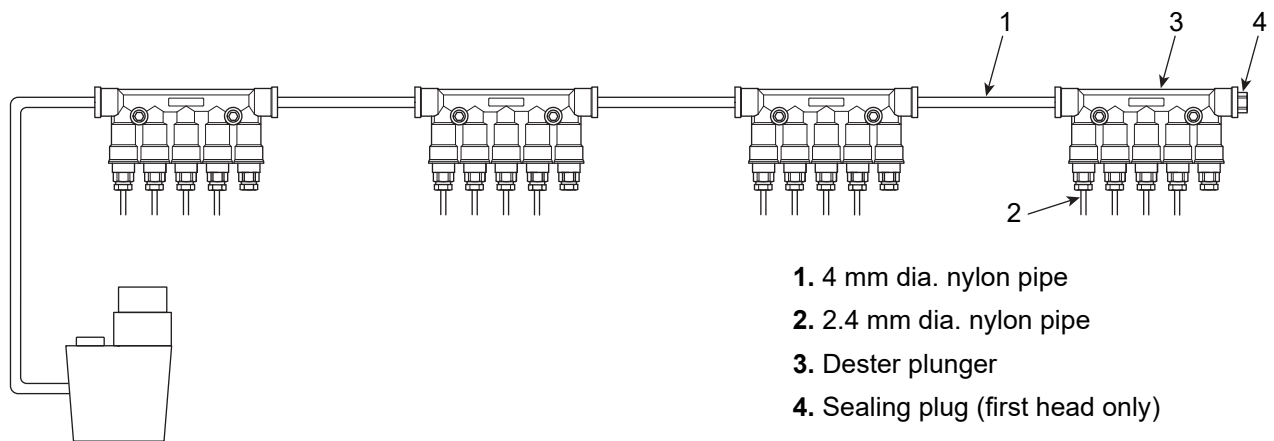
6. Maintenance

6-1. Bleeding air in the nylon pipe

! CAUTION

! When you bleed air, plenty of oil will come out with air, and it will cause smearing to the machine. To loosen the sealing plug (4 in the figure below), use a tray, etc. to receive oil.

When air comes in nylon pipes 1 and 2 to be mixed by changing nylon pipes (1 and 2 in the figure below), the dexter plunger 3 etc., quantity of lubrication will become imprecise. When air comes in to be mixed, bleed air by the following procedure.



(1) In case of 4 mm dia. nylon pipe

- [a] Check the position where air comes in to be mixed by visual observation.
- [b] Loosen the sealing plug (4 in the figure above).
- [c] Perform "Manual lubrication" on the operation panel. This operation feeds oil into the 4 mm dia. nylon pipe (1 in the figure above), and air will be discharged outside with oil from the position where the sealing plug 4 is loosened. If it is not possible to make air come off by one operation, repeat the operation.
- [d] When all air in nylon pipes comes out, tighten the sealing plug 4.

(2) In case of 2.4 mm dia. nylon pipe

- [a] Check the position where air comes in to be mixed by visual observation.
- [b] Perform "Manual lubrication" on the operation panel. This operation feeds oil into the 2.4 mm dia. nylon pipe (2 in the figure above), and the inside of head will be lubricated. Repeat operation until air comes off.
- [c] Wipe off oil that pools at the bottom inside of the head.

6-2. Change of nylon pipe

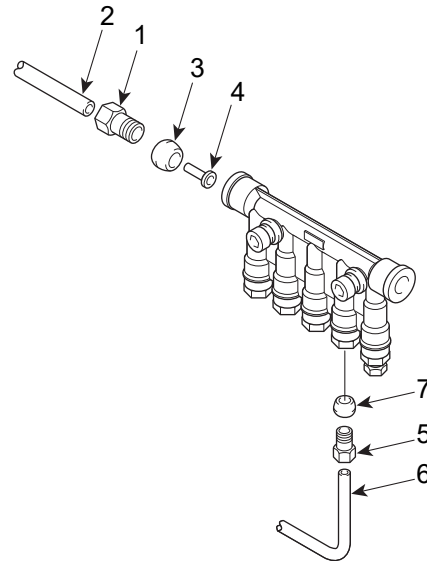
(1) In case of 4 mm dia. nylon pipe

[a] Loosen the tightening plug (1 in the right figure) to detach the 4 mm dia. nylon pipe 2, sleeve 3 and tube insert 4.

[b] Replace the 4 mm dia. nylon pipe 2, sleeve 3 and tube insert 4 with new ones.

[NOTE]

Tighten the tightening plug 1 by hand and additionally tighten it 1/2 rotation with a wrench.



(2) In case of 2.4 mm dia. nylon pipe

[a] Loosen the tightening plug (5 in the right figure) to detach the 2.4 mm dia. nylon pipe 6 and sleeve 7.

[b] Replace the 2.4 mm dia. nylon pipe 6 and the sleeve 7 with new ones.

[NOTE]

Tighten the tightening plug 5 by hand and additionally tighten it 1/4 rotation with a wrench.

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