

## 9 Replacing the routine maintenance parts

Replace parts according to the following directions in order to maintain your machine in optimum operating condition.



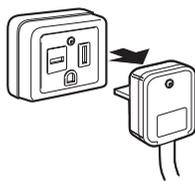
Always unplug power plug before replacing any parts. There is a danger of electrocution if conducted with the plug still inserted.



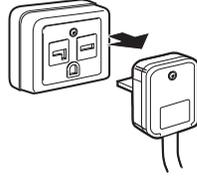
Do not replace parts according to other methods not described in the operating instructions. It is dangerous if incorrect methods are used.



When replacing parts, always use only specified parts sold through Fuji Impulse. Otherwise malfunction may occur.



110V specification



220V specification

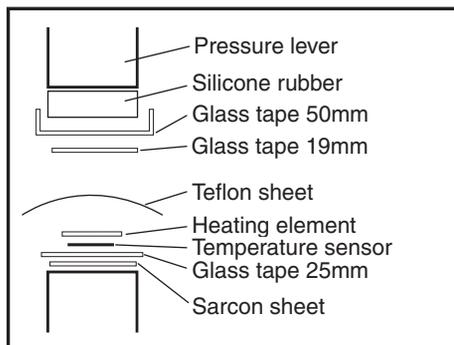


Always unplug power plug from the wall outlet before conducting any maintenance.

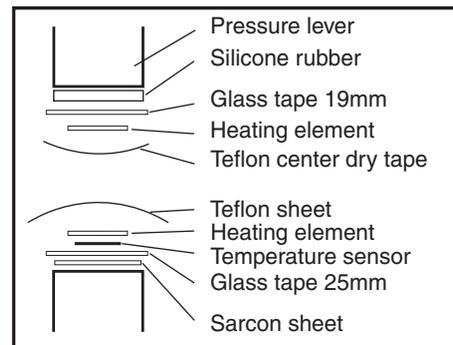
### Construction of the sealing section

The sealing section is constructed with parts illustrated in the diagram at left. When replacing parts, be careful to arrange the parts in the same exact order.

1 V-402 sealing section structure



2 V-402-10D sealing section structure



### Routine maintenance parts

As you use the sealer, the parts wear, sealing result worst., to continues operate with damage part will cause malfunction, so please replace the wear parts on time with space parts always in hands.

The routine maintenance parts are selling by the unit described below

Order from your dealer, specifying the name of your machine, the name and quantity of parts you need.

Parts name	Selling unit
Heating element (5mm,10mm)	10 pcs. per set or 20 pcs. per set
Teflon sheet	2 sheets per set
Silicone rubber	2 pcs. per set
Glass tape	5M roll or 10M roll
Sarcon sheet	2 sheets per set or 5M roll
Plastic nut (white)	5 pcs. per set
Teflon center dry tape	5M roll

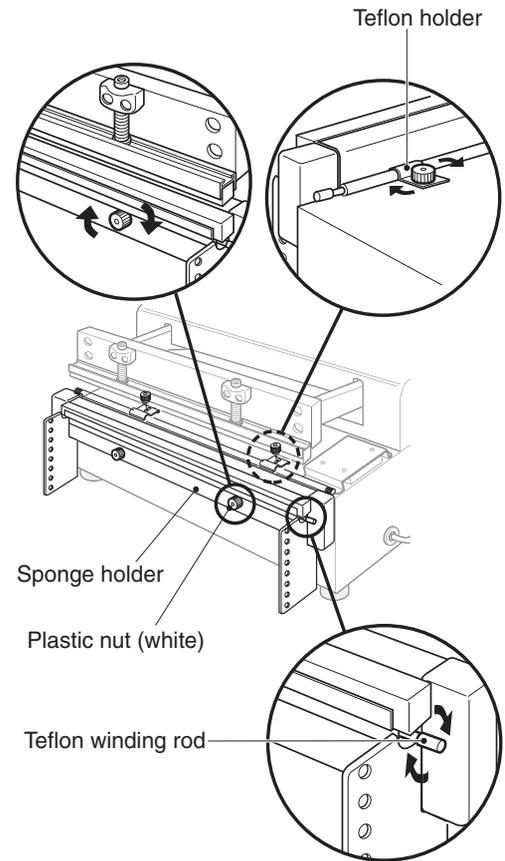
## 9-1 Sliding the lower teflon sheet (object: V-402, V-402-10D)

[Replace when] When the teflon sheet is torn, burnt or sealing is dirty.

[Essential tools] Scissors

- 1 Loose the four resin nuts (white) securing the teflon holder and sponge holder.
- 2 Turn the teflon sheet winding rod. Wind the damaged teflon sheet forward or backward for 15mm.
- 3 When the teflon sheet is loosen, hold the teflon winding rod and tight the resin nuts to fix the teflon holder and sponges holder.

When the teflon sheet is sticking to the heater wire, peel it off before winding. 25 to 30cm of teflon sheet is wound for a space, if the sheet remain a little or consumed, refer "changing the teflon sheet" to change the teflon sheet.

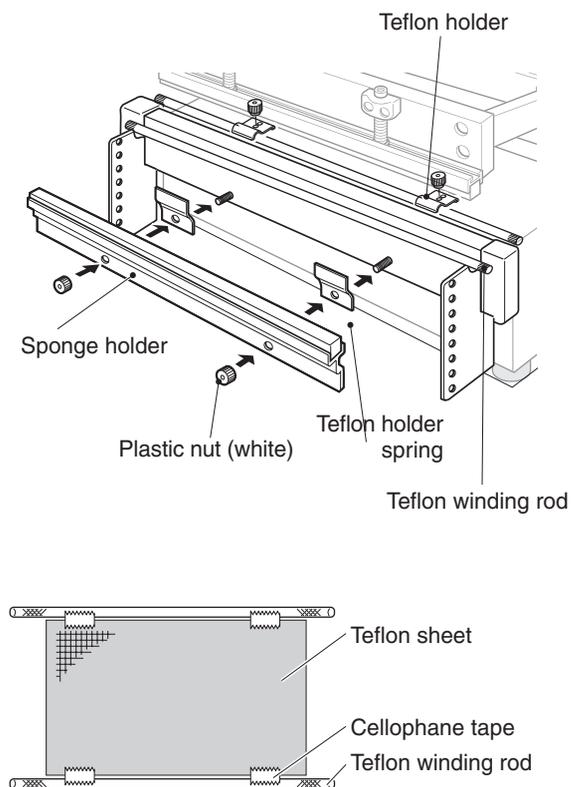


## 9-2 Changing the lower teflon sheet (object: V-402, V-402-10D)

[Replace when] When the teflon sheet is torn, burnt or sealing is dirty.

[Essential tools] Scissors

- 1 Unscrew the resin nuts (white) securing the teflon holder and sponge holder.
- 2 Remove the teflon holder and sponge holder, then peel off teflon sheet from the teflon winding rod.
- 3 Strike the new teflon sheet by cellophane tape on teflon sheet.
- 4 Screw the 4 pieces. resin nut (white) lightly. Hold the teflon winding rod by sponge holder and teflon holder.
- 5 To avoid wrinkles of teflon sheet above the heating element, winding the teflon rod to smooth the teflon sheet.
- 6 Screw the 4 pieces. resin nut (white) to push the teflon holder to fix the teflon winding rod.



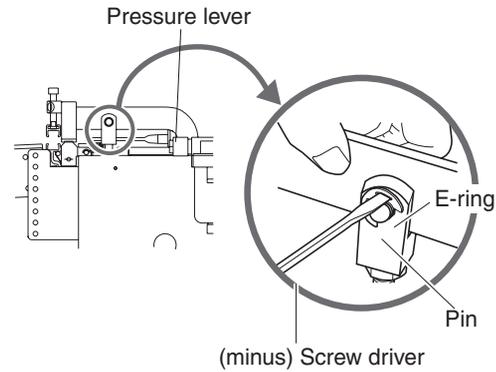
### 9-3 Changing the teflon center-dry tape on the upper lever (object : V-402-10D)

To change the teflon center dry tape attached on the pressure plate.

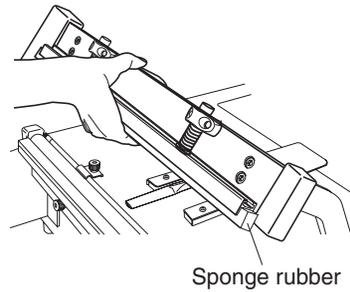
[Replace when] When the teflon sheet is torn, burnt or sealing is dirty.

[Essential tools] Scissors

- 1 Take off the frame cover.
- 2 Remove the both right and left side E-ring of the pressure lever by (minus) screwdriver, and pull out the pin.

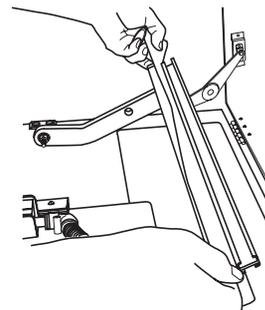


- 3 Raise up the pressure lever and remove the sponge rubber.

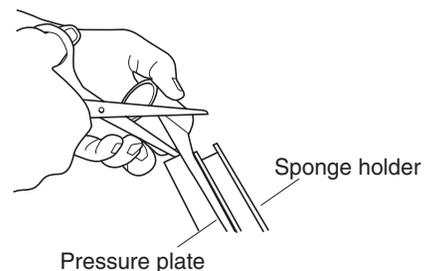


- 4 Remove the teflon center dry tape.  
Direct paste the new one's adhesive tape to the pressure lever.  
Insert one side of the center dry tape into the gap that in between the pressure lever and sponge holder.

**TIPS** When you could not paste smoothly, insert thin ruler between the sponge holder and pressure plate. Then slide the center dry tape with pushing it on the pressure plate.



- 5 Cut excess by scissors.



- 6 Fold the other side of the tape that attached adhesive tape to the opposite side of sponge holder.

**TIPS** Caution when replace the tape:  
Place the center space of the tape on the heating element.  
If the wrinkles remain on the dry tape, it will be printed on the seal bag.

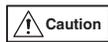


## 9-4 Changing the heating element

[Replace when] The heating element has burned out.  
Sealing is dirty or uneven.

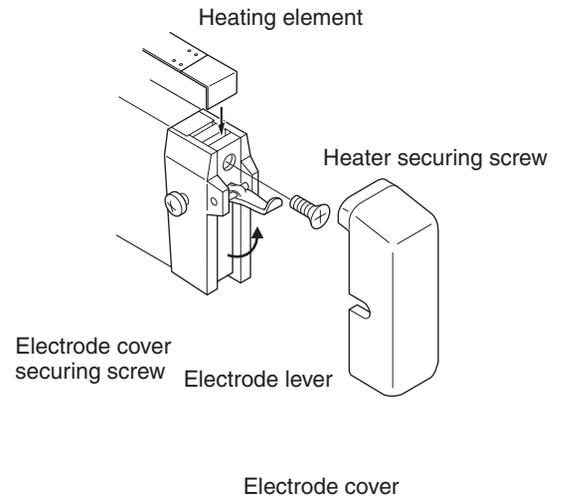
[Essential tools] Phillips screwdriver

- 1 The heating element is covered with the teflon sheet. Remove the teflon sheet, referring to "changing the teflon sheet"
- 2 The electrode cover is screwed on the side. Loosen the screw with a Phillips screwdriver and pull to remove it.
- 3 Raise the electrode lever up to loosen the heating element. Loosen the heater securing screw with a Phillips screwdriver.
- 4 Loosen the screw and remove the wearied heating element.
- 5 When the electrode lever is raised, insert the new heating element into the groove of electrode, tighten the securing screw to secure the element while pressure the heating element so that it does not slip from the electrode. After tighten the securing screw, push down the electrode lever.



**Caution** For your safety always reattach the electrode cover after installing the heating element.

Use a heating element specified for this model. Using a different element may cause transformer failure.



When heating element is exchanged to another width.

This machine is shipped with 10mm width heating element, and set up to the optimal sealing conditions (heating temperature, heating time, cooling temperature).

Since seal conditions change when the width is changed, please set up again, perform a seal test, and adjust to the optimal value.

Conversely, when 5mm width is changed into 10mm width, please work similarly.

## 9-5 Changing the glass tape 25mm width and sarcon sheet (object: seal receiving plate for V-402, V-402-10D and pressure lever for V-402-10D)

[Replace when] The heating element is often burnt out.  
Sealing is dirty.

[Essential tools] Phillips screwdriver, Scissors,  
Alcohol(Ethanol)

- 1 Remove the teflon sheet and heating element.
- 2 Peel the glass tape and sarcon sheet located on the seal receiving plate (lower) or silicone rubber (upper in V-402-10D) completely off.

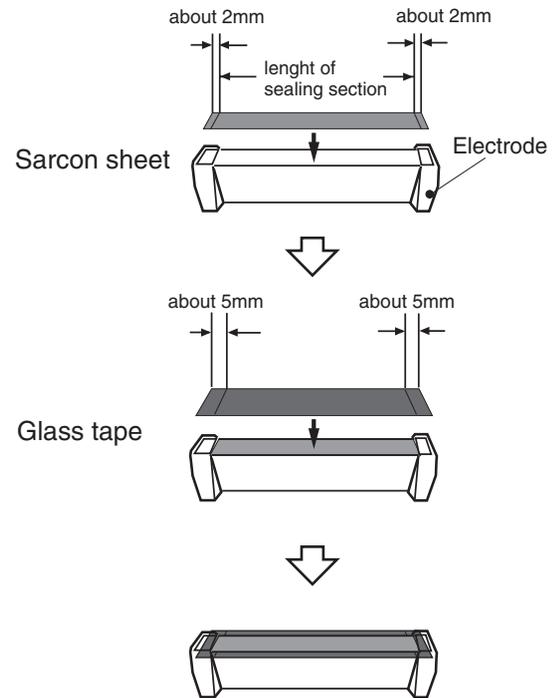
**TIPS** Some adhesive remain will uneven the sealing surface and has an adverse effect.

Please clean the surface thoroughly by alcohol (Ethanol).

- 3 Attach the new sarcon sheet so that the extra 2mm length covers the electrode at both ends.
- 4 Cut the new glass tape 5mm longer than sarcon sheet and paste it so that the extra length covers the electrode at both ends.)

**TIPS** If the sarcon sheet adhesive power seems to be down in the replacement process of glass tape, replace the sarcon sheet, too.

- 5 Attach the glass tape on the sarcon sheet, Fold the tape and paste onto the sides of pressure lever.

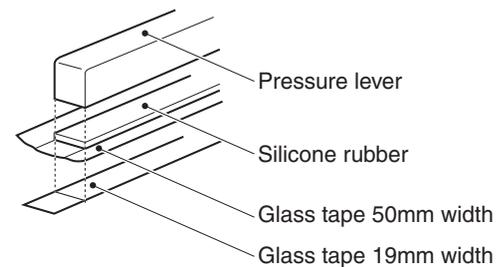


## 9-6 Changing the silicone rubber (object: V-402)

[Replace when] Silicone rubber is uneven.

[Essential tools] Alcohol(Ethanol)

- 1 Remove two types of glass tape attached on the pressure lever.
- 2 Remove the silicone rubber.  
Wipe the adhesive tape off the pressure lever with alcohol (Ethanol). Attaching the silicone rubber on the top of remained adhesive will has an adverse effect to sealing.
- 3 The silicone rubber has an adhesive tape on it, peel the paper and attach the new silicone rubber carefully, starting from one end.
- 4 After attaching the silicone rubber, paste two types of glass tape (50mm, then 19mm) on it.

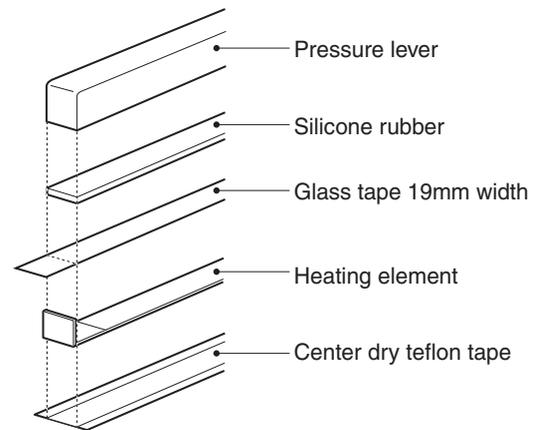


## 9-7 Changing the silicone rubber (object : V-402-10D)

[Replace when] Silicone rubber is uneven.

[Essential tools] Alcohol(Ethanol) etc.

- 1 Remove the center dry tape, heating element, and glass tape according to the each instructions.
- 2 Remove the silicone rubber, and wipe the adhesive tape off the pressure lever with alcohol (Ethanol) etc.  
Attaching the new silicone rubber on the remained adhesive tape will has an adverse effect to sealing.
- 3 The silicone rubber has an adhesive tape on it.  
Peel the paper and attach the new silicone rubber carefully, starting from one end.
- 4 After attaching the silicone rubber, paste on it in order of the sarcon sheet, glass tape (25mm width), heating element and center dry tape.

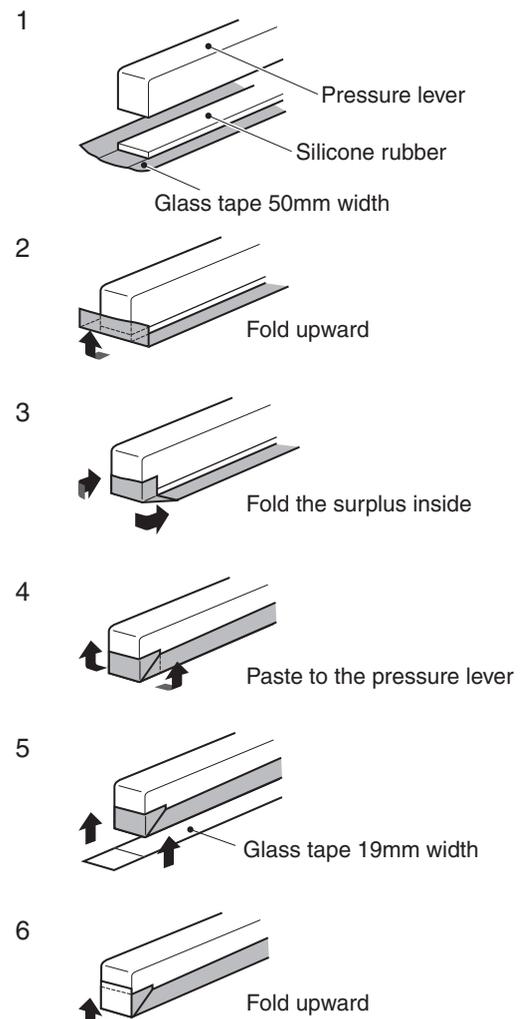


## 9-8 Changing the 50mm glass tape (Object: pressure lever for V-402)

[Replace when] The heating element is often burn out.  
Sealing is dirty.

[Essential tools] Scissors

- 1 After attaching the silicone rubber, cut the glass tape (50mm width) 2cmX2 longer than silicone rubber and attach it on the silicone rubber.
- 2 Fold the excess glass tape at both ends upward.
- 3 Fold the corners inward as shown in the right illustration.
- 4 Paste the tape onto the sides of the pressure lever.
- 5 Attach another glass tape (19mm width) on it as shown in the right illustration.
- 6 Fold the excess 2cm upward and paste onto the pressure lever at both ends.



## 9-9 Connecting and removing the tube

When remove the tube, press the release ring while pushing the tube.

### How to remove the tube

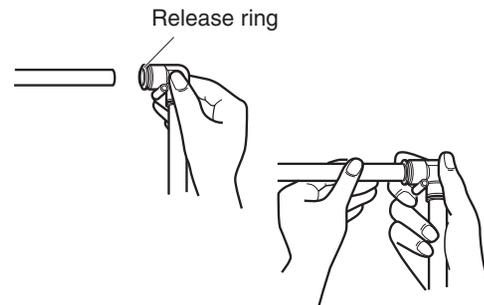
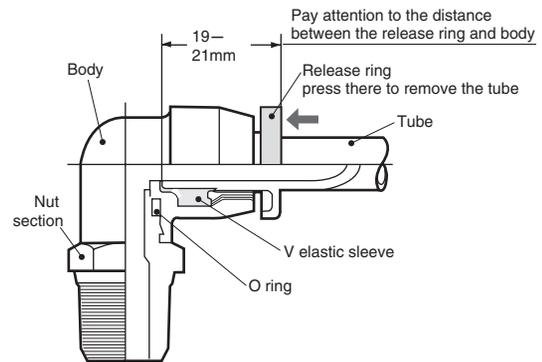
If you press the release ring while pushing the tube in at the same time, you can remove the tube quite easily.

### How to connect the tube

Insert the tube fully to the tube end of the joint.



To avoid the air leakage, please verify the tube is jointed firmly.



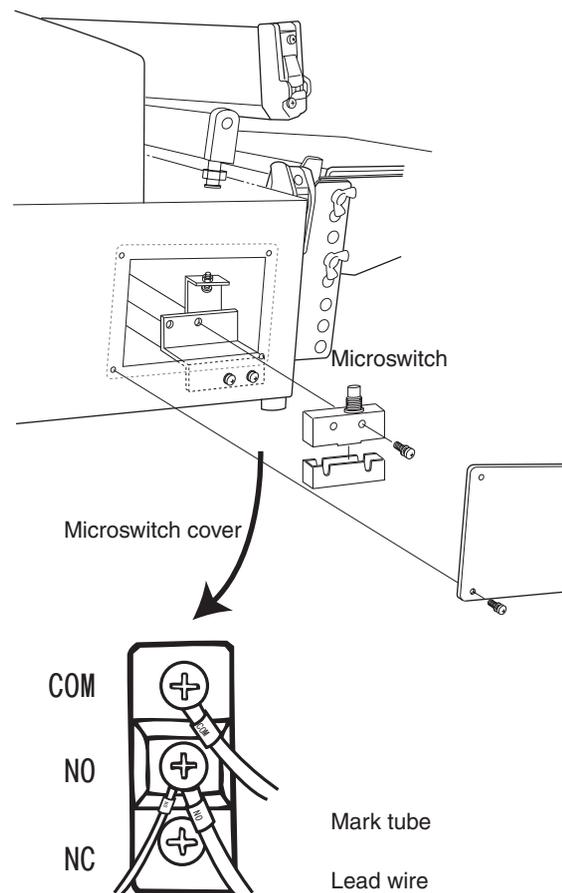
## 9-10 Changing the microswitch

[Essential tools] Phillips screwdriver

- 1 Take off the cover on the left side of frame by a Phillips screwdriver.
- 2 Remove the two screws which fasten the microswitch, and pick up microswitch.
- 3 Take off the microswitch cover.  
Remove the wiring with a Phillips screwdriver and exchange the microswitch.



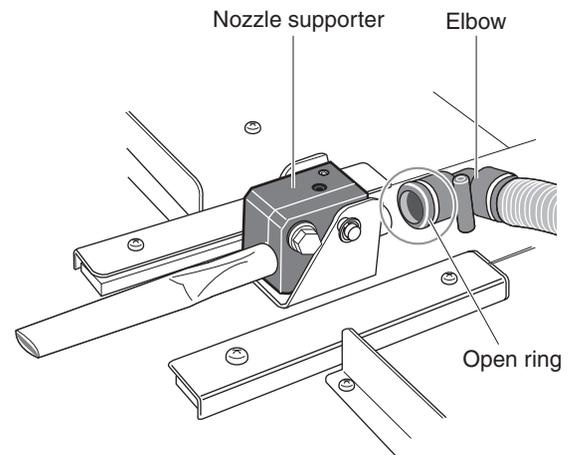
Connect the wiring so that the display on microswitch (COM,NO) accord to the display on the mark tube of lead wire.



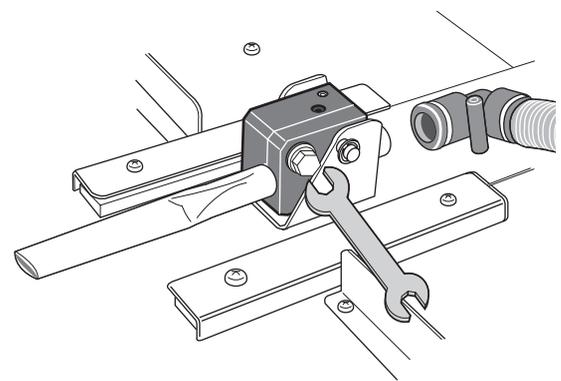
## 9-11 Changing the nozzle

[Essential tools] Spanner

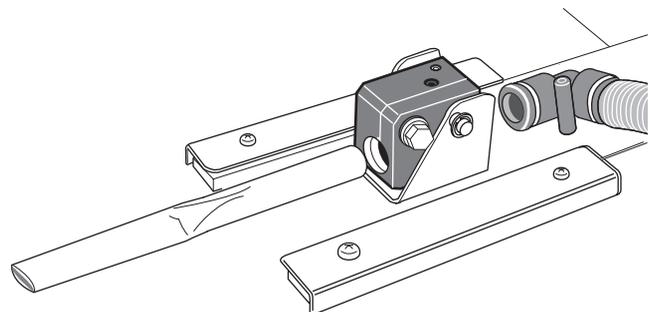
- 1 Take off the frame cover.
- 2 Remove the elbow from the nozzle.  
Push the open ring to horizontal direction with nozzle, then lock will be cancelled.



- 3 Loosen the bolt on the of nozzle supporter by the spanner.



- 4 Extract the nozzle from the nozzle supporter.



## 9-12 Changing the temperature sensor

[Replace when] Temperature sensor is damaged.

[Essential tools] Phillips screwdriver

Temperature sensor is set between glass tape and heating element, and located to the right-hand end of the seal- receiving plate.

- 1 Remove the teflon sheet.
- 2 Remove the heating element. (Refer to page 47.)
- 3 Unfasten the screw A-1, A-2 to remove the temperature sensor fixing plate, and unfasten the screw B. Temperature sensor can be removed.
- 4 Insert the protuberance of sensor fixing plate (screw A-1 side) into the tip (hole) of new temperature sensor and seal frame's hole. Then fasten screw A-1.

- 5 Set the other sensor fixing plate and temporarily fasten the screw A-2.  
(Refer to the right illustration.)

 **Caution** Please take care not to make a slack of sensor between screw A-1 and A-2.

- 6 Pull the temperature sensor module lightly to keep the tension of temperature sensor and fix the plate by screw A-2.

 **Caution** If the temperature sensor module would be pulled strongly, sensor might be broken.

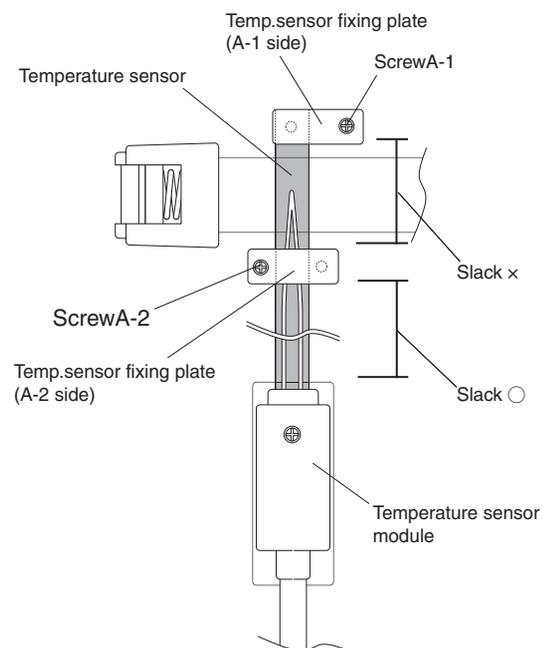
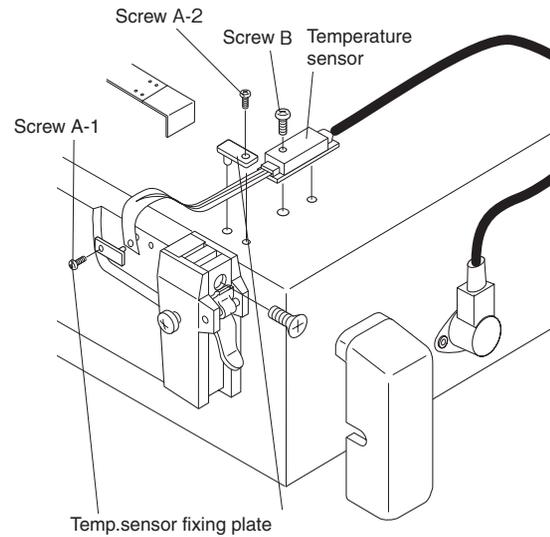
- 7 Fix the temperature sensor module by screw B.

- 8 Re-attach the heating element. (Refer to page 47.)

 **Caution** If the temperature sensor isn't installed on the proper position, seal function might not work.

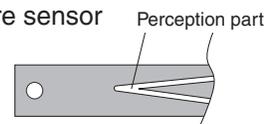
**TIPS** Install the new temperature sensor so that the perception part touches with the center of heating element. (Refer to the right illustration.)

If the perception part is slipped off, temperature could not be detected exactly.

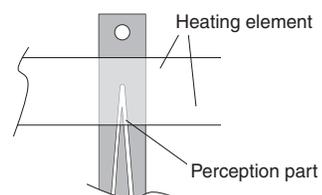


### Proper position of temperature sensor

- Temperature sensor



- Position



(Install the sensor under the heating element)