

***ENGLISH***

**PS-810**  
**Suction device**  
**INSTRUCTION MANUAL**

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# 1. List of parts comprising the suction device

Check the parts.

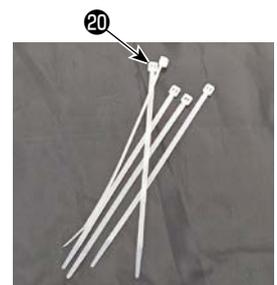
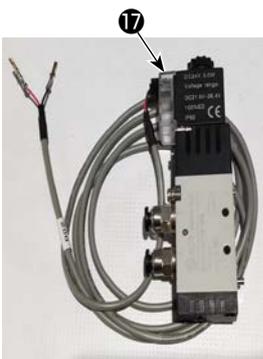
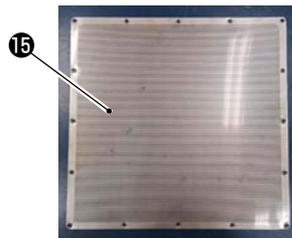
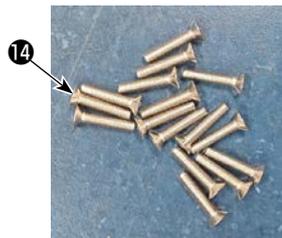
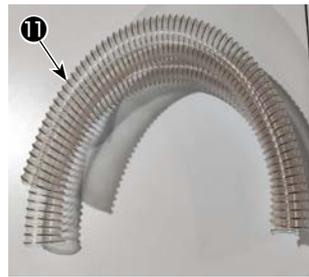
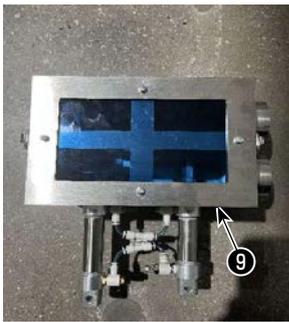
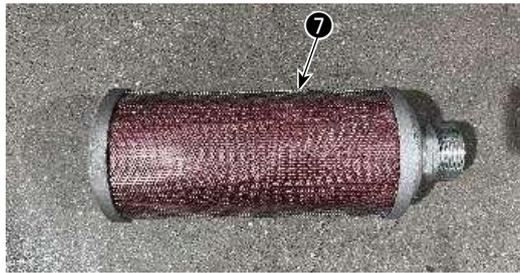
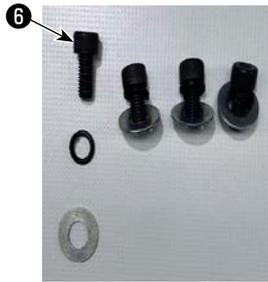
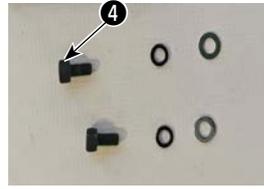
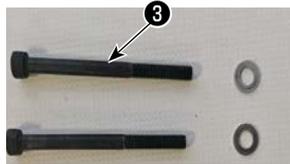
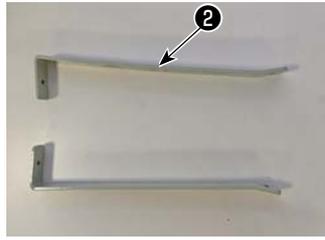
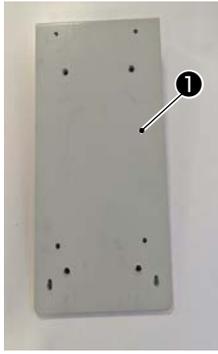
[8045/10045 sewing machine parts]



## 40313599 Suction device asm.

	No.	Part name	Quantity	Description
Parts of the fan	①	Tray	1	
	②	Screw asm.	16	M5-12 (including a spring washer and a plain washer)
	⑤	Blower	1	Provided with the power switch
	⑥	Screw asm.	4	M8-16 (including a spring washer and a plain washer)
	⑦	Silencer	1	
	⑧	Screw asm.	2	M4-10 (including a spring washer and a plain washer)
Parts of the filter box	⑨	Filter box	1	
	⑩	Screw asm.	2	
	⑪	∅60×∅68 pipe	2	Long: 1.3 M; Short: 1.0 M
	⑫	Pipe band	4	
	⑬	Suction cover	1	Ball valve and PVC pipe included
	⑭	Flat head screw	16	
	⑮	Mesh plate	1	
	⑯	Screw asm.	4	Nuts included
Parts of the solenoid valve	⑰	Solenoid valve	1	Provided with a fixing screw
	⑱	Air tube	2	Numbered: 15, 16
Parts of the pedal switch	⑲	Pedal	1	Numbered
Binding parts	⑳	Cable clip band	5	7X200

[13085 Sewing machine parts]



## 40313600 Suction device asm.

	No.	Part name	Quantity	Description
Parts of the fan	①	Tray	1	
	②	Support bar	2	
	③	Screw asm.	2	M5-50 (including a plain washer)
	④	Screw asm.	2	M5-10 (including a spring washer and a plain washer)
	⑤	Blower	1	Power switch and switch fixing screw set included
	⑥	Screw asm.	4	M8-16 (including a spring washer and a plain washer)
	⑦	Silencer	1	
	⑧	Screw asm.	2	M4-8 (including a spring washer and a plain washer)
Parts of the filter box	⑨	Filter box	1	
	⑩	Screw asm.	2	
	⑪	∅60×∅68 pipe	2	Long: 1.3 M; Short: 0.6 M
	⑫	Pipe band	4	
	⑬	Suction cover	1	Ball valve and PVC pipe included
	⑭	Flat head screw	32	
	⑮	Mesh plate	1	
	⑯	Screw asm.	4	Nuts included
Parts of the solenoid valve	⑰	Solenoid valve	1	Provided with a fixing screw
	⑱	Air tube	2	Numbered: 15, 16
Parts of the pedal switch	⑲	Pedal	1	Provided with a terminal
Binding parts	⑳	Cable clip band	5	7X200

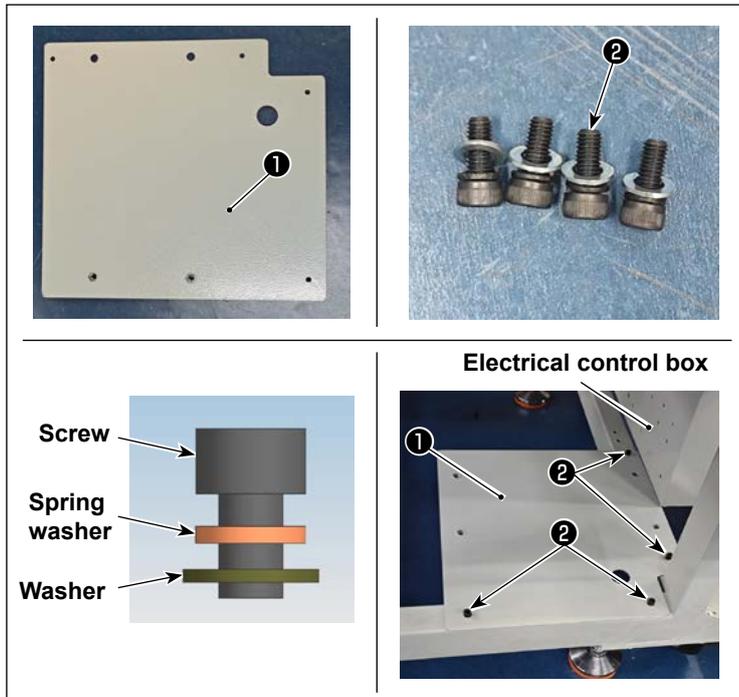
## 2. Installing the suction device



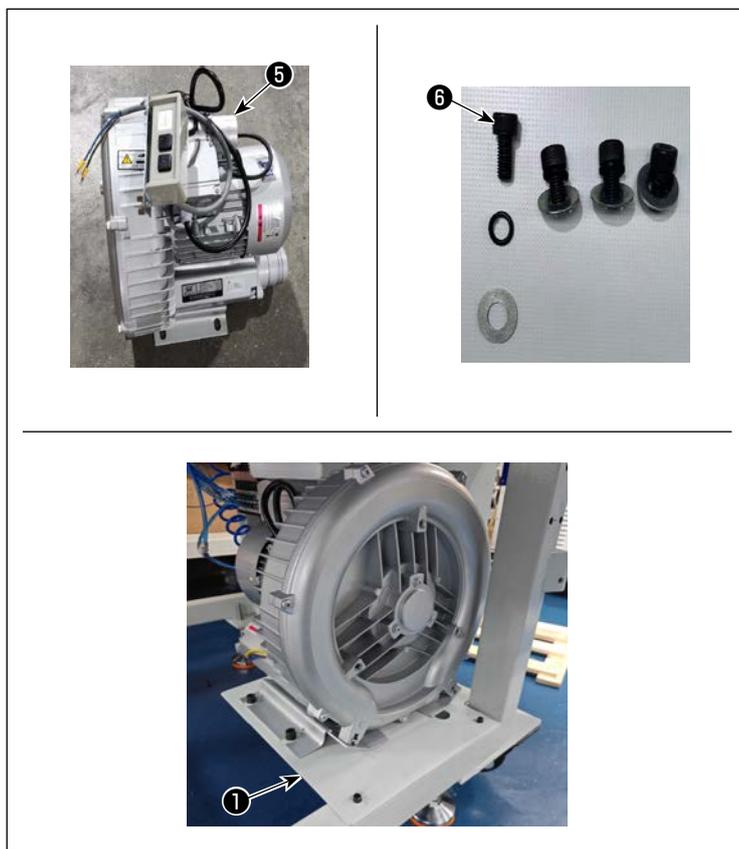
Turn OFF the power supply and air supply for the sewing machine.

### 2-1. Installing the blower

#### 2-1-1. Installing the blower for the 8045/10045 sewing machine

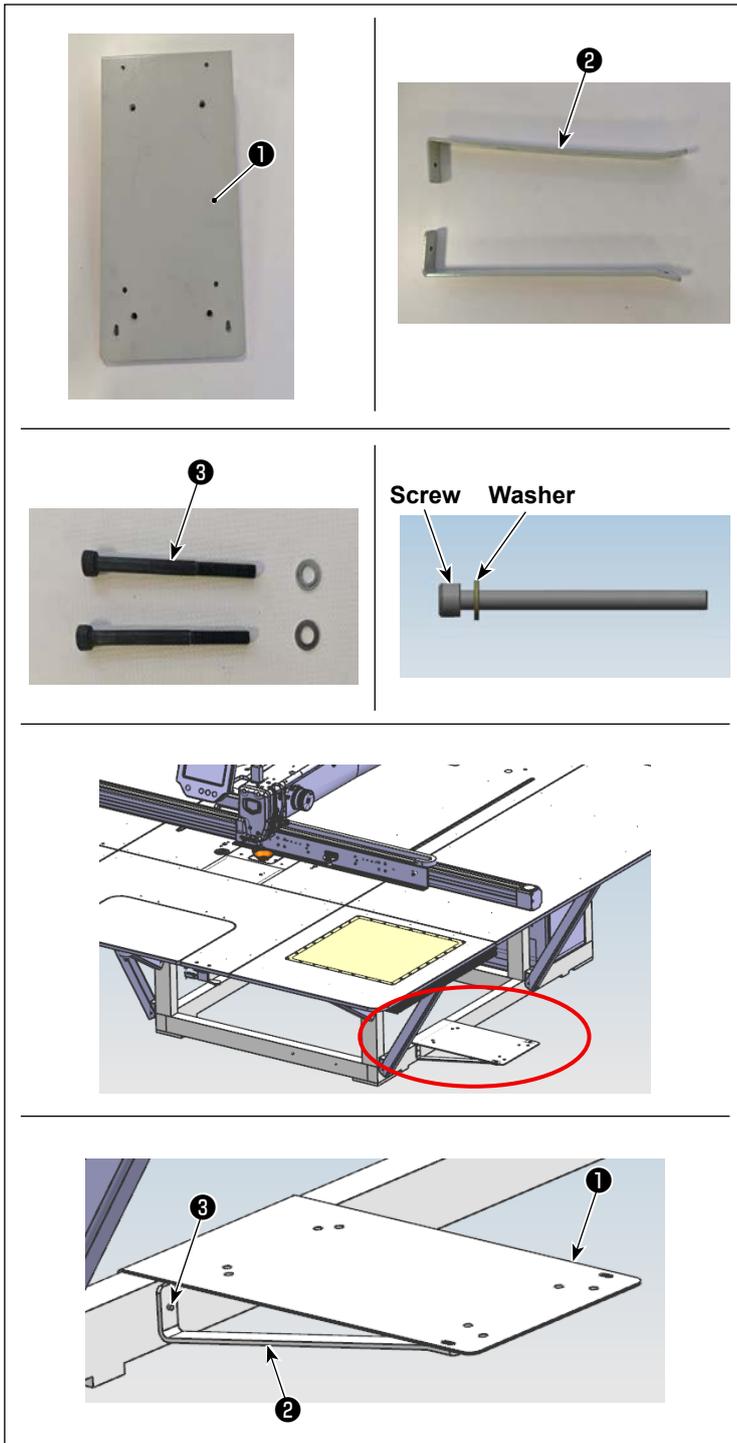


- 1) Using the screw set **2** (4 pcs) as shown in the left figure, secure the tray **1** to the table stand (on the electrical control box side).

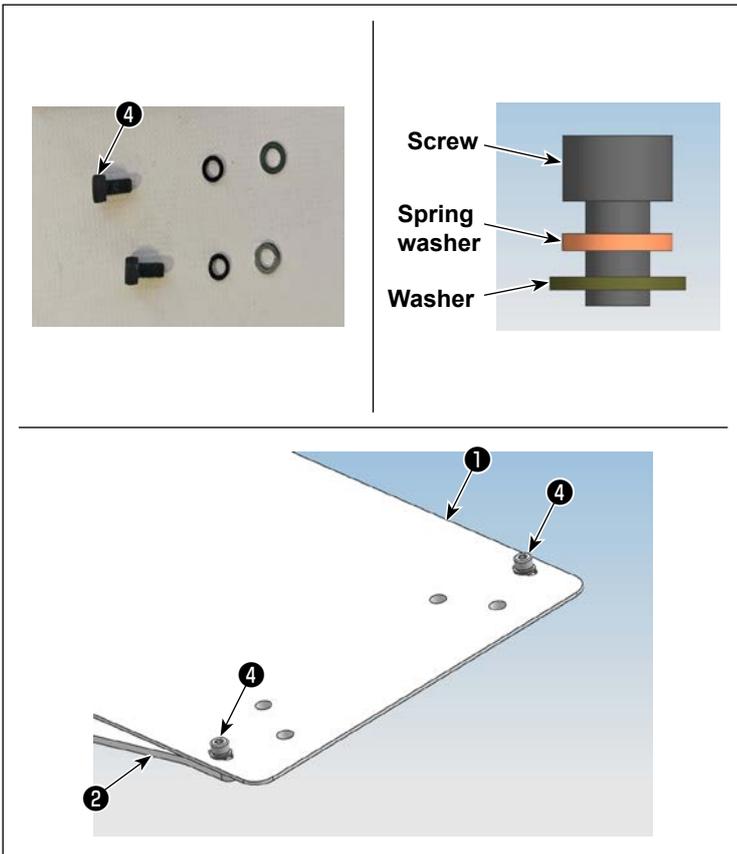


- 2) Using the screw set **6** (4 pcs) as shown in step 1), secure the blower **5** to the tray **1**.

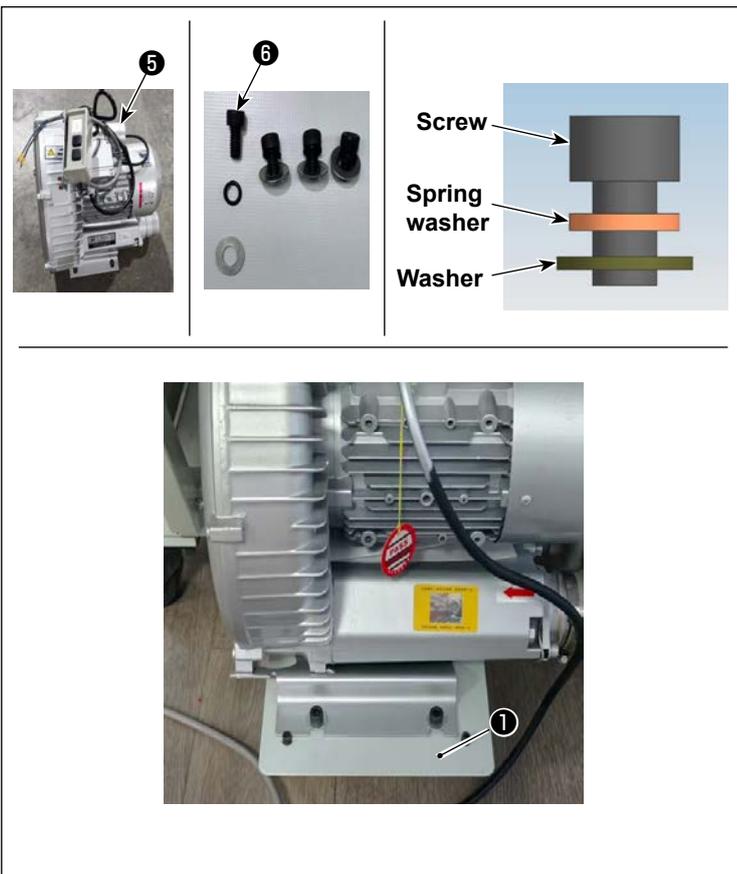
## 2-1-2. Installing the blower for the 13085 sewing machine



- 1) Using the screw set ③ (2 pcs) as shown in the left figure, secure the tray ① and the support bars ② (2 pcs) to the right side of the table stand.

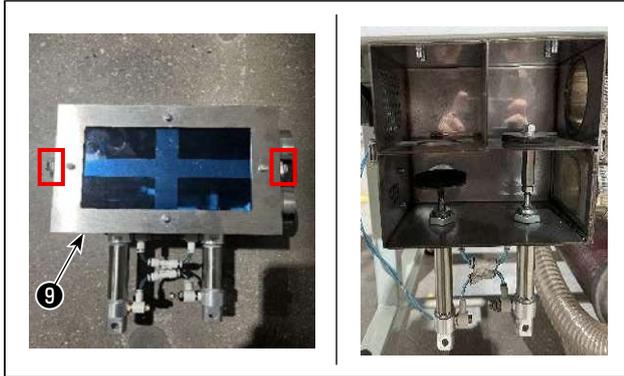


2) Using the screw set ④ (2 pcs) as shown in the left figure, secure the tray ① and the support bars ② (2 pcs).

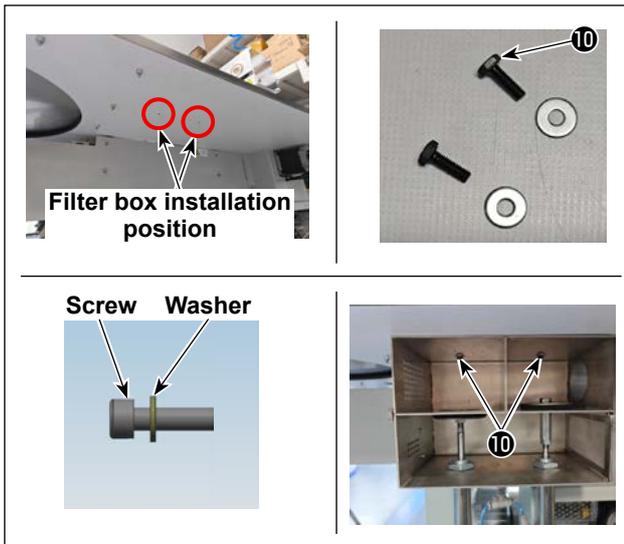


3) Using the screw set ⑥ (4 pcs) as shown in the left figure, secure the blower ⑤ to the tray ① .

## 2-2. Installing the filter box and silencer



- 1) Release draw latches (2 pieces) on the side face of filter box ⑨ to remove the cover.



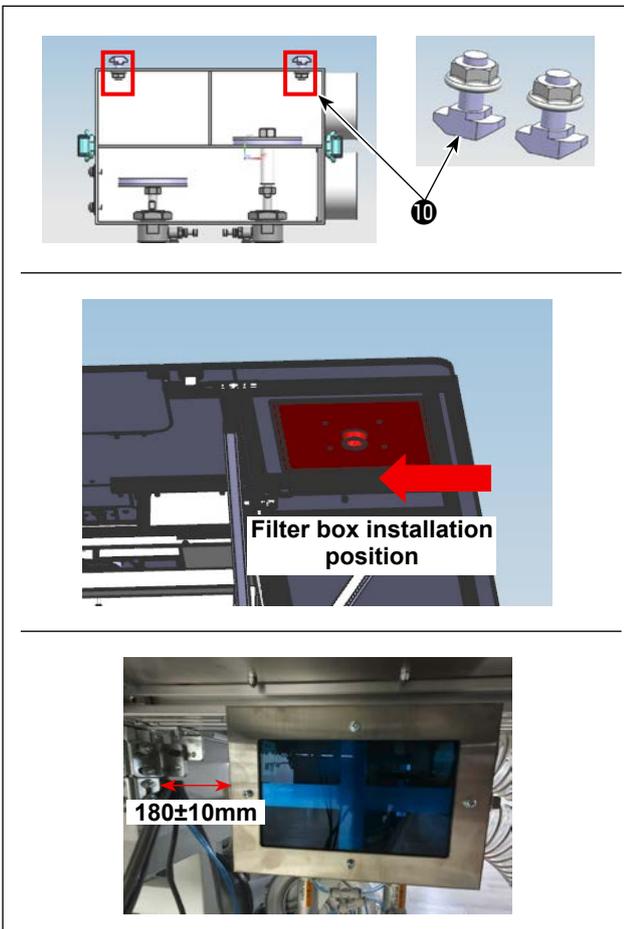
- 2) **Fixing the filter box**

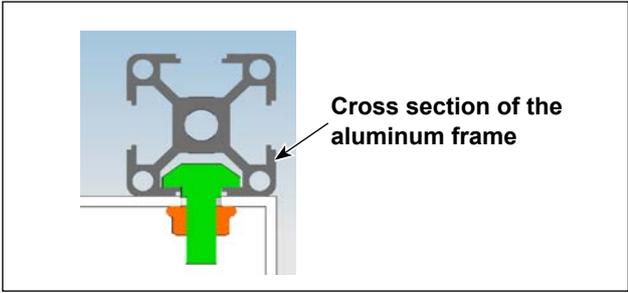
### 8045/10045 sewing machine :

Using the screw set ⑩ (2 pcs) as shown in the left figure, attach the filter box ⑨ from inside to the right side of the table.

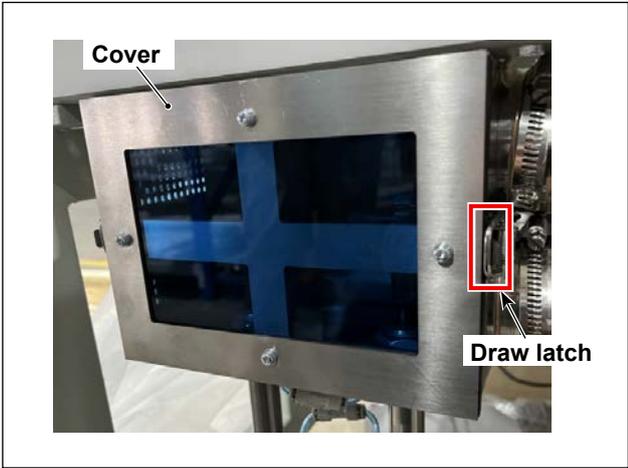
### 13085 sewing machine:

Attach the screw set ⑩ (2 pcs) to the top of the filter box ⑨ . Insert the T-screws of screw set ⑩ into the aluminum frame, adjust the left and right position of the filter box to  $180 \pm 10$  mm, and then tighten the nuts of screw set ⑩ .

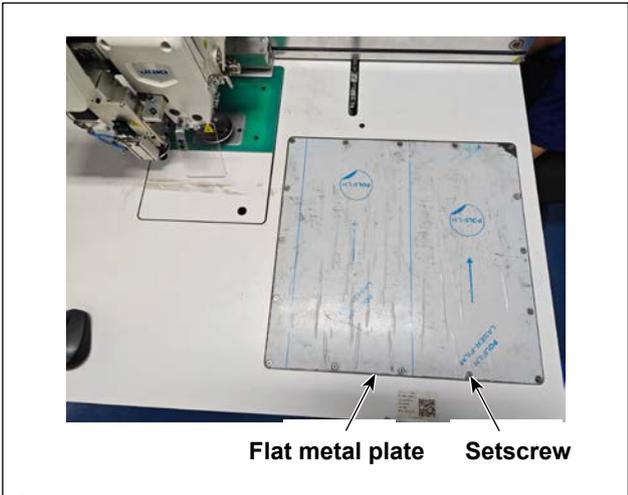




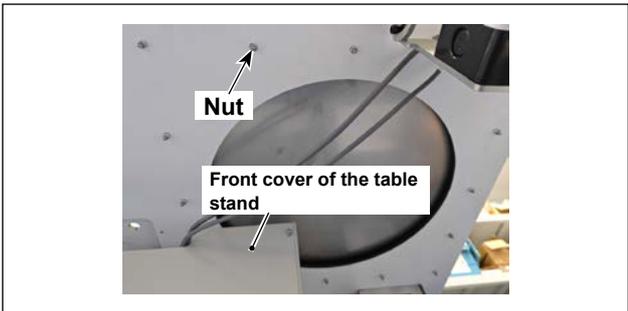
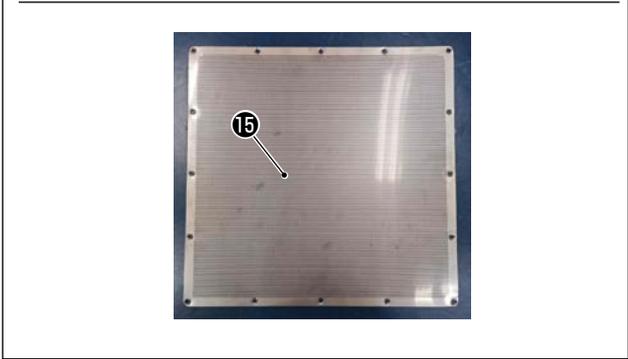
**Caution** Secure the T-screw in the correct direction as shown in the figure on the left.



3) Attach the cover to the box and secure with draw latches (2 pieces).



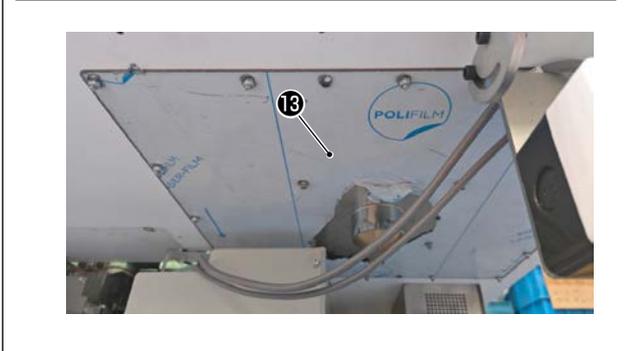
4) Remove the 16 setscrews and 16 nuts, and replace the flat plate with mesh plate 15.



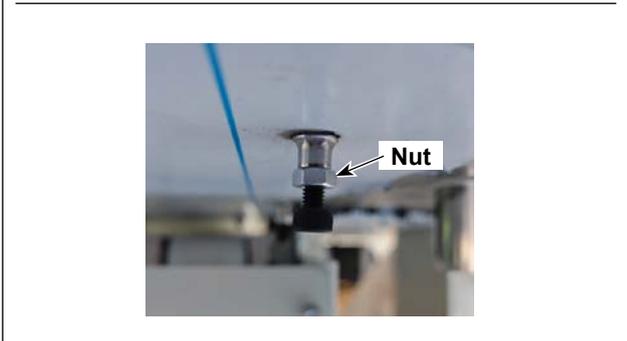
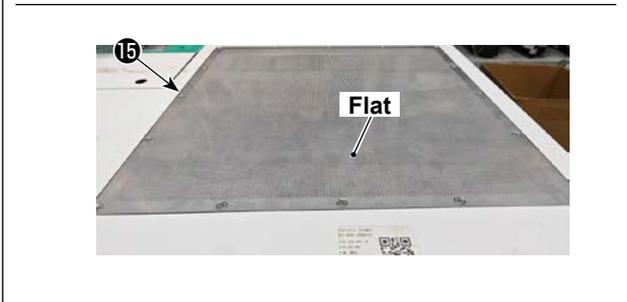
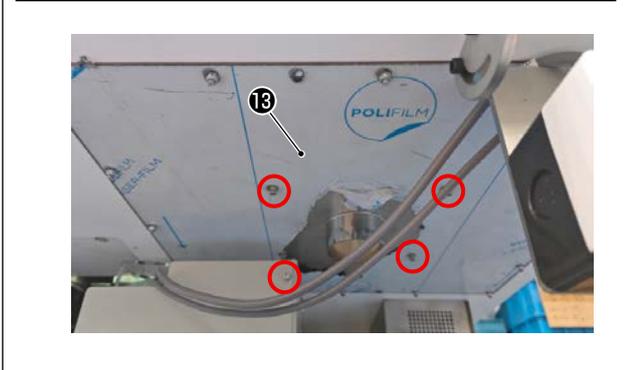
**Caution** There are nuts on the reverse side of the table. Take care not to allow the nuts to come off when you loosen the screws.

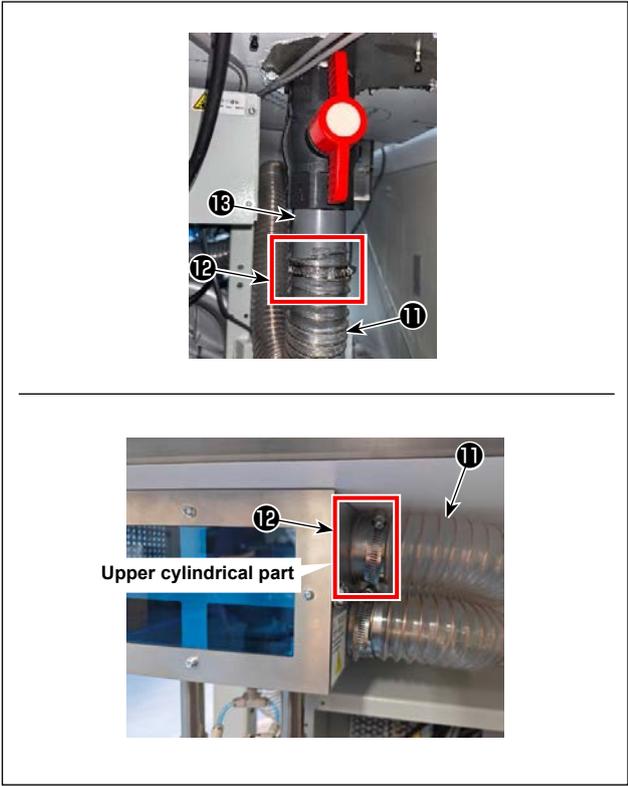


5) Replace the setscrews on the mesh plate 15 with screws 14 (16 pcs), and secure the suction cover using screws 14 and nuts.

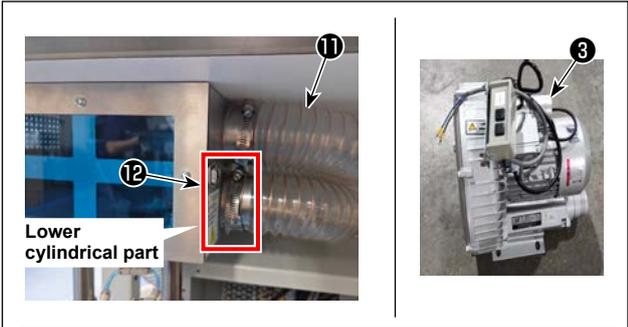


6) Attach the screw set 16 (4 pcs) to the locations marked with red circles on the suction cover 13 shown in the left figure. Adjust the screw set 16 until the top surface of the mesh plate 15 becomes flat, and then tighten the nuts of screw set 16 to the cover 13.

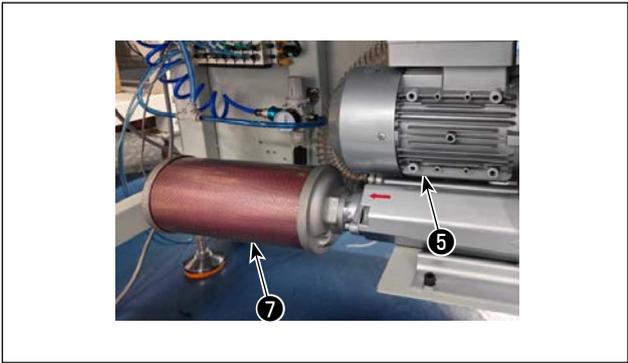
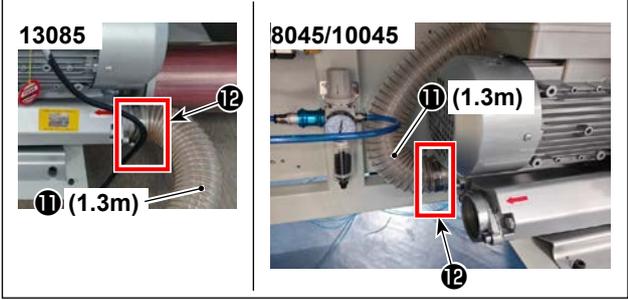




7) Insert pipe 11 (8045/10045: 1.0 m; 13085: 0.6 m) fully into the PVC pipe section of the suction cover 13 and the upper cylindrical section of the filter box 9 , then secure it with pipe band 12 (1 pc).

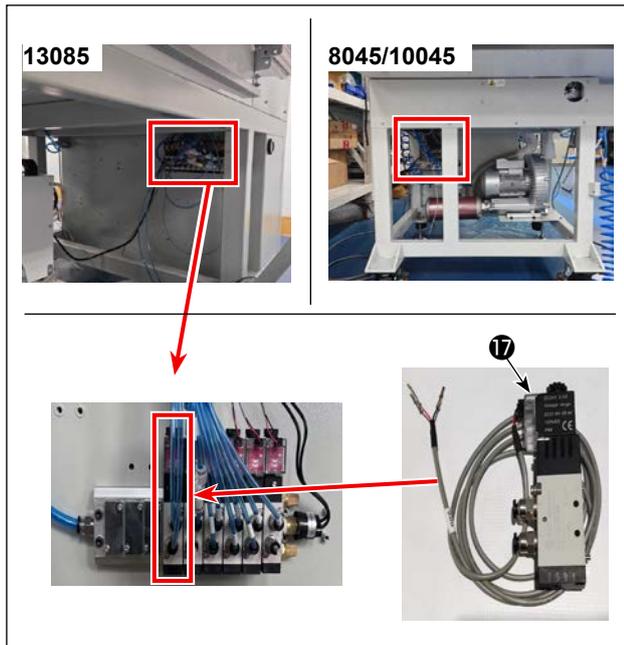


8) Insert pipe 11 (1.3 m) fully into the cylindrical section of the blower 5 and the lower cylindrical section of the filter box 9 , then secure it with pipe band 12 (1 pc).



9) Install silencer 7 onto blower 5 .

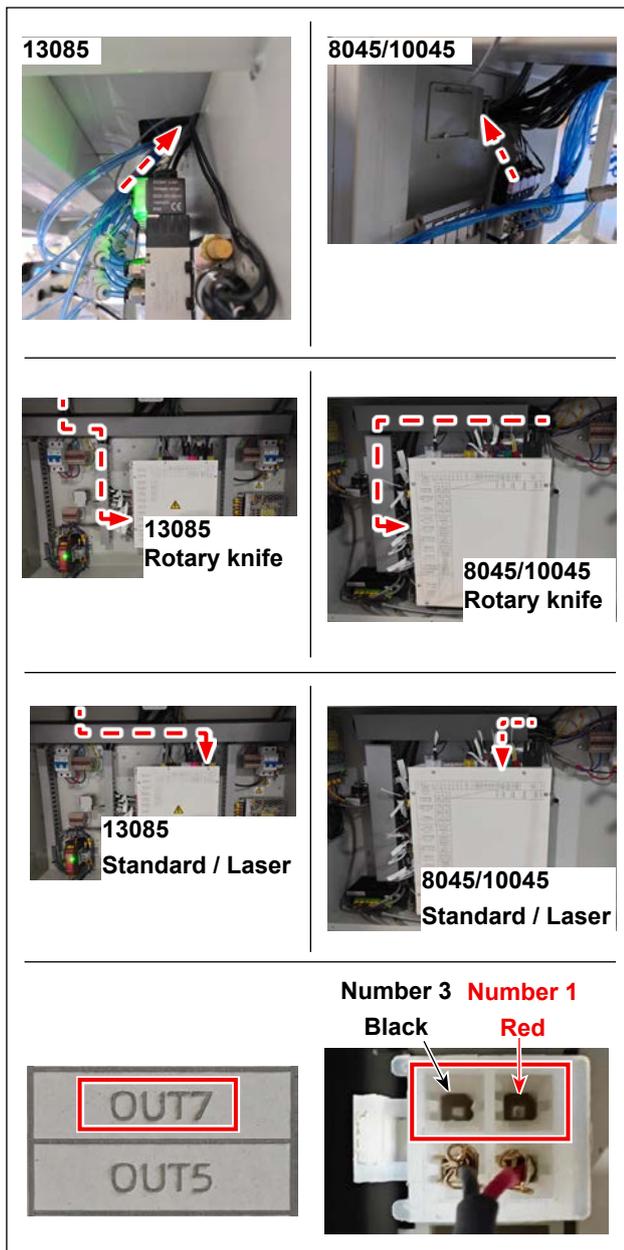
## 2-3. Installing the solenoid valve



- 1) Remove one metal plate from the manifold. Secure solenoid valve 17. (Provided with a rubber sheet)

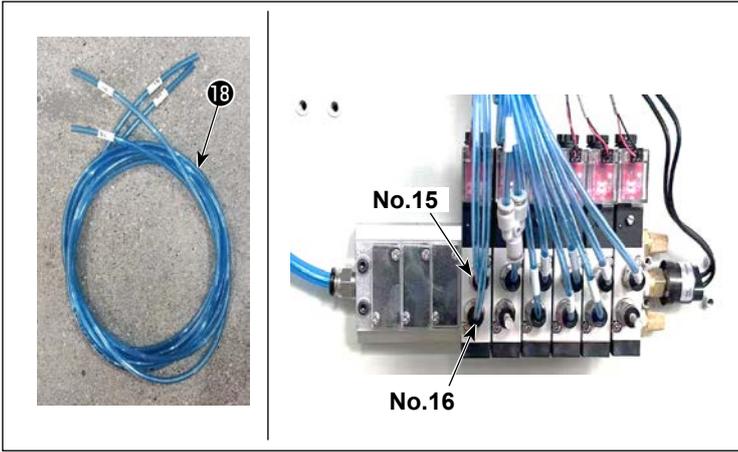


**There is a rubber sheet between the metal plate and the manifold.**

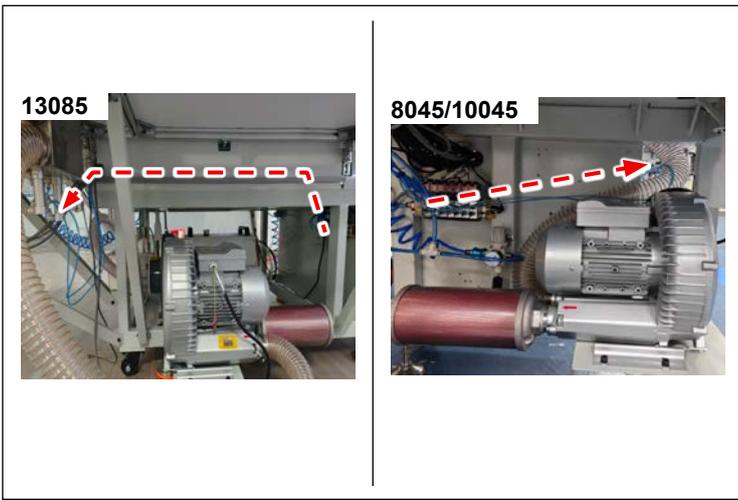


- 2) Route the cable of solenoid valve 17 up to the electrical control box shelf as shown in the figure.

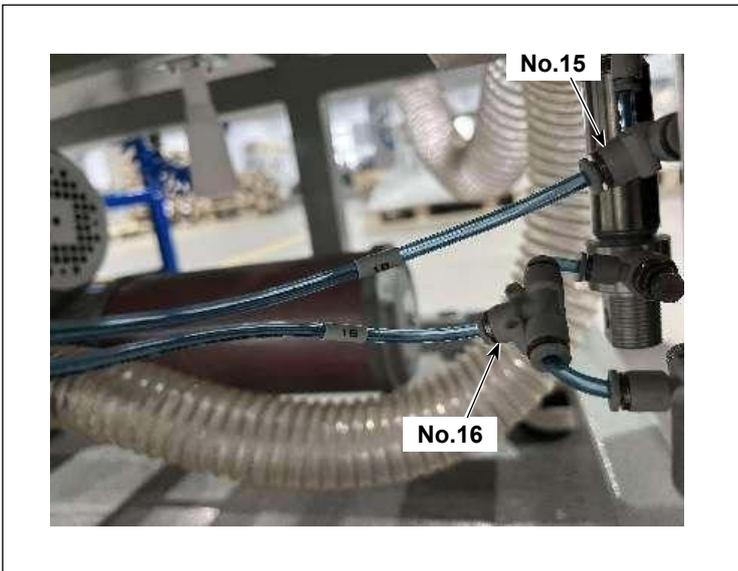
- 3) As shown in the figure, route the cable of solenoid valve 17 through the tact switch, and connect it to OUT7 terminals No. 1 (red) and No. 3 (black).



- 4) Insert air tubes 18 into solenoid valve 17 .

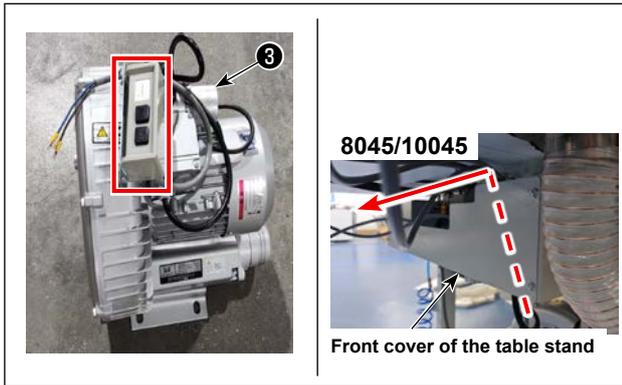


- 5) Route air tubes 18 as shown in the figure.

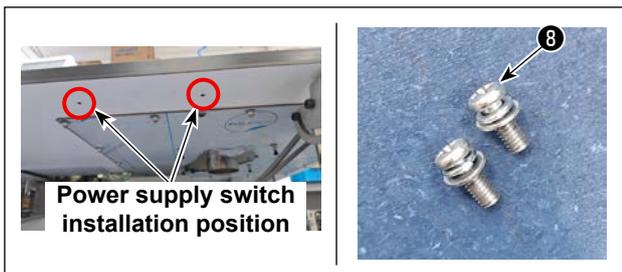


- 6) Connect air tubes 18 to the cylinders of filter box 9 .

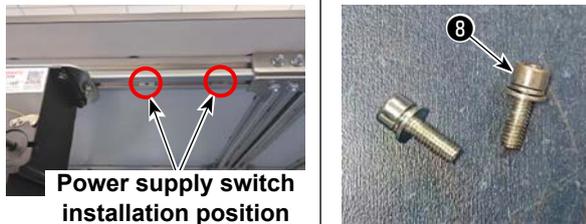
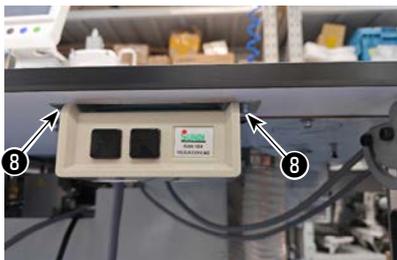
## 2-4. Installing the power switch



- 1) Route the power switch cable for blower ⑤ from the rear side of the front cover of the table stand toward the front. (8045/10045 only)



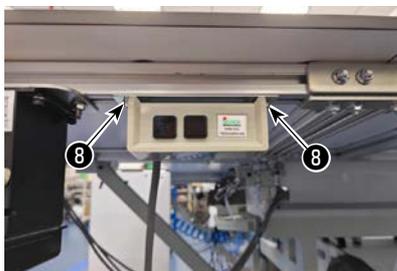
- 2) **Fixing the power supply switch**  
**8045/10045 sewing machine :**  
 Attach the power switch to the underside of the table (circled in red) using screw set ⑧ (2 pcs).

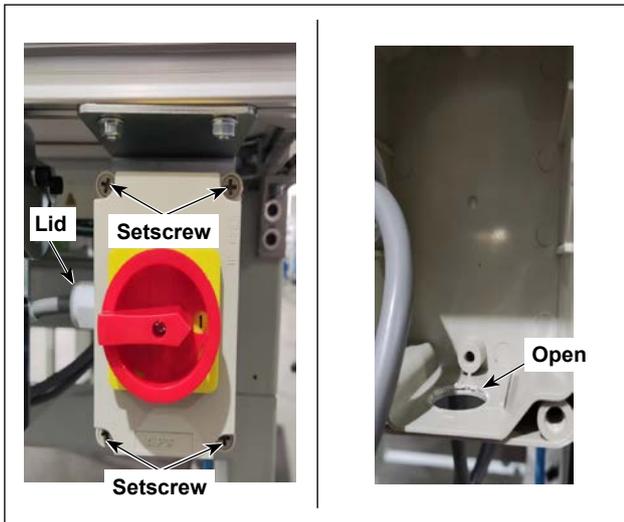


- 2) **Fixing the power supply switch**  
**13085 sewing machine :**  
 Attach the power switch to the underside of the table (circled in red) using screw set ⑧ (2 pcs).

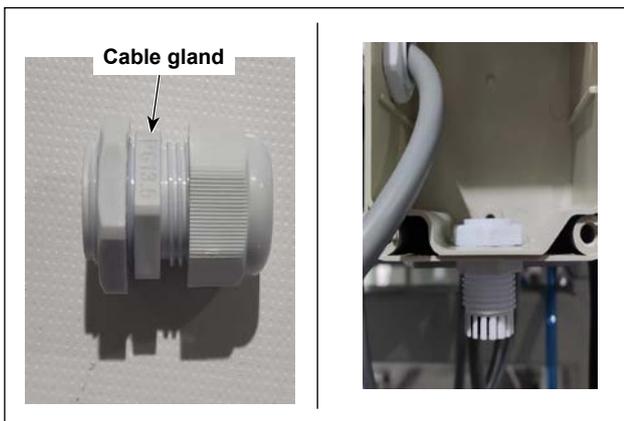


The square nuts are pre-installed in the aluminum frame.

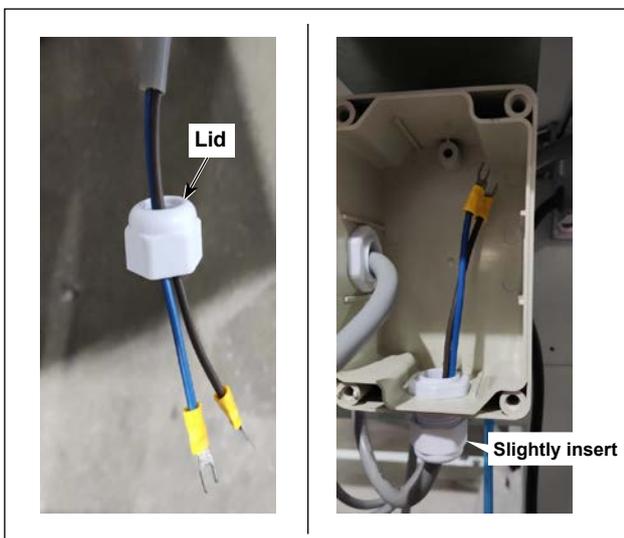




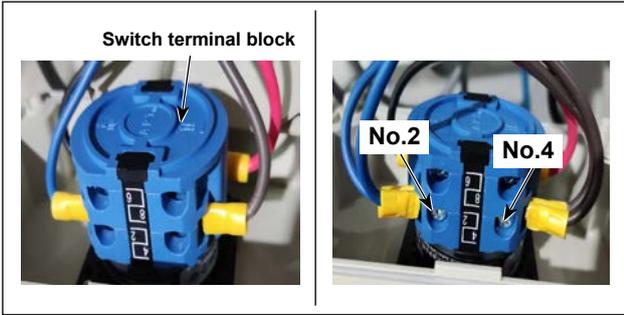
- 3) Loosen the setscrews of the cover of the power switch of the sewing machine and the lid of the cable gland. Open the switch cover to pull out the switch.  
Make a hole in the bottom of the power switch box.



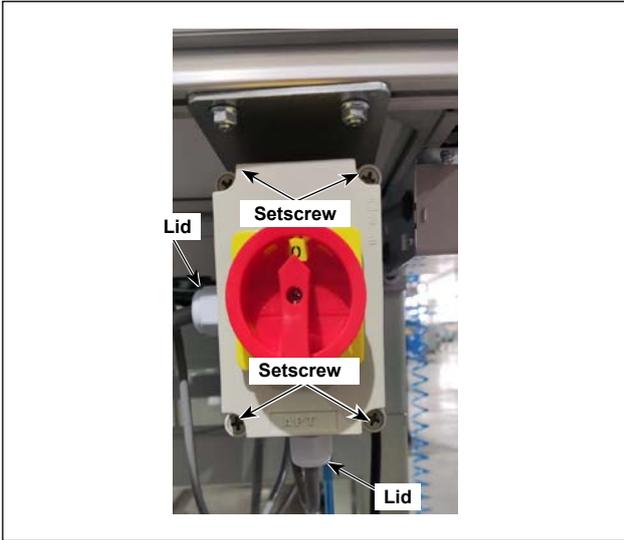
- 4) Put the cable gland located at the cable of the blower power supply into the hole in the power supply box.



- 5) Put the cable gland lid on the cable. Pass the cable through the cable gland. Insert the lid slightly into the gland.

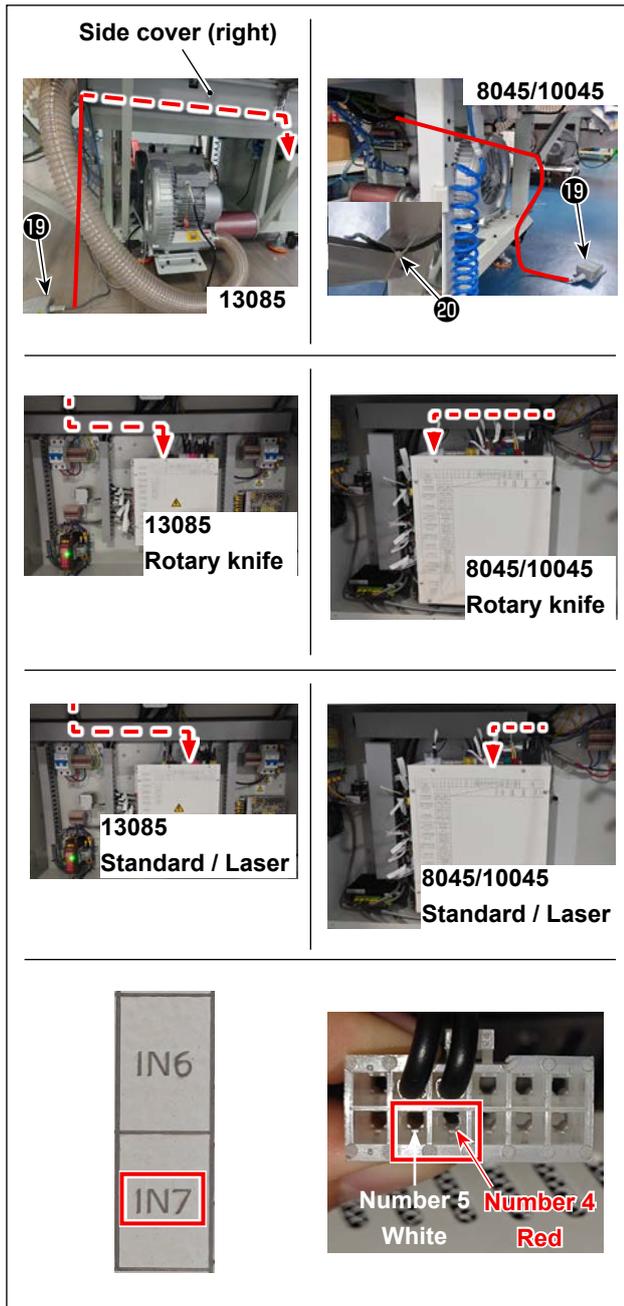


- 6) Insert the power cables into the switch terminal block and secure them with the screws. Insert the blue cable into terminal No. 2. Insert the brown cable into terminal No. 4.



- 7) Pull out the left and lower remaining cables from the power supply box. Put the switch in the power supply box and tighten the setscrews.  
8) Place the excess cables inside the table stand and secure the table stand front cover.

## 2-5. Installing the pedal



### 1) 8045/10045 sewing machine :

As shown in the figure, route the cable of pedal ⑱ to the electrical control box.

To prevent the cable from being damaged when the pedal is pulled, secure the pedal cable to the diagonal support of the table stand with cable clip band ⑳ .

### 13085 sewing machine :

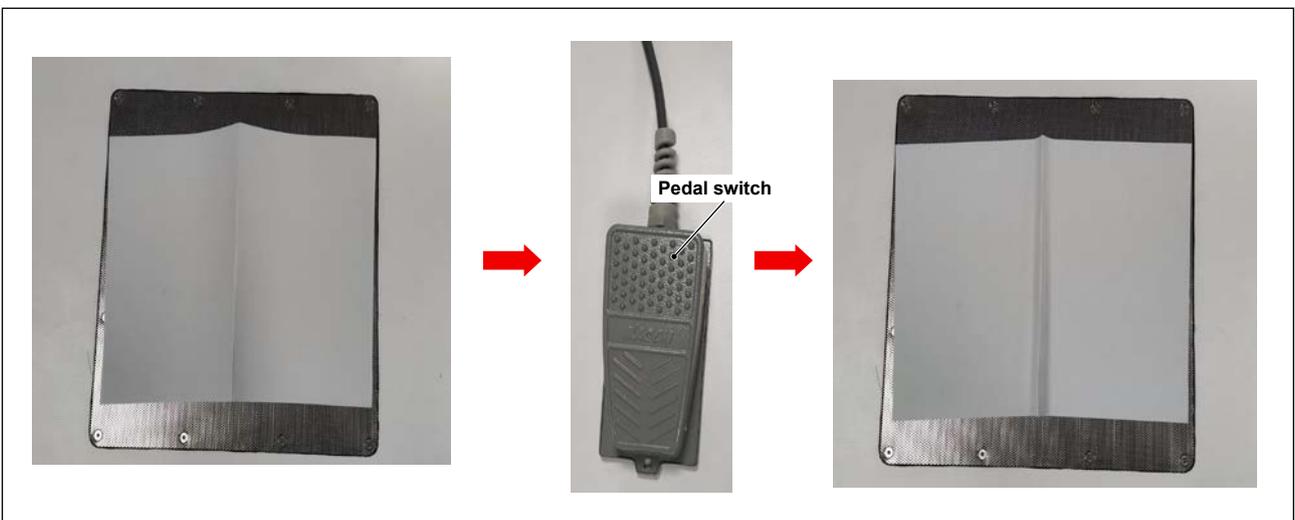
As shown in the figure, pass the cable of pedal ⑱ through the rear side of the right side cover and route it to the electrical equipment shelf.

- 2) As shown in the figure, route the cable of pedal ⑱ through the duct and insert it into IN7 terminals No. 4 (red) and No. 5 (white).

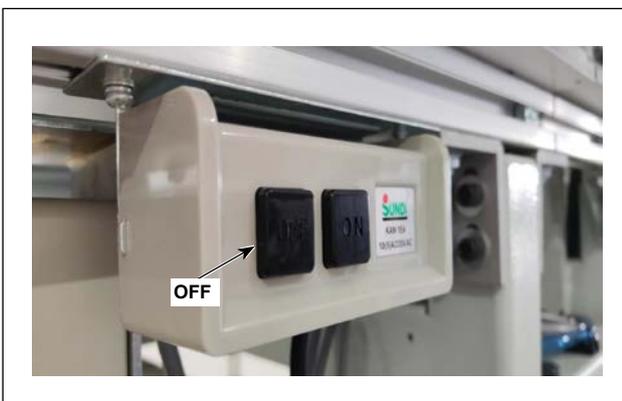
### 3. Checking the function of the suction device



- 1) The blower operates when the power supply for the blower is turned ON.



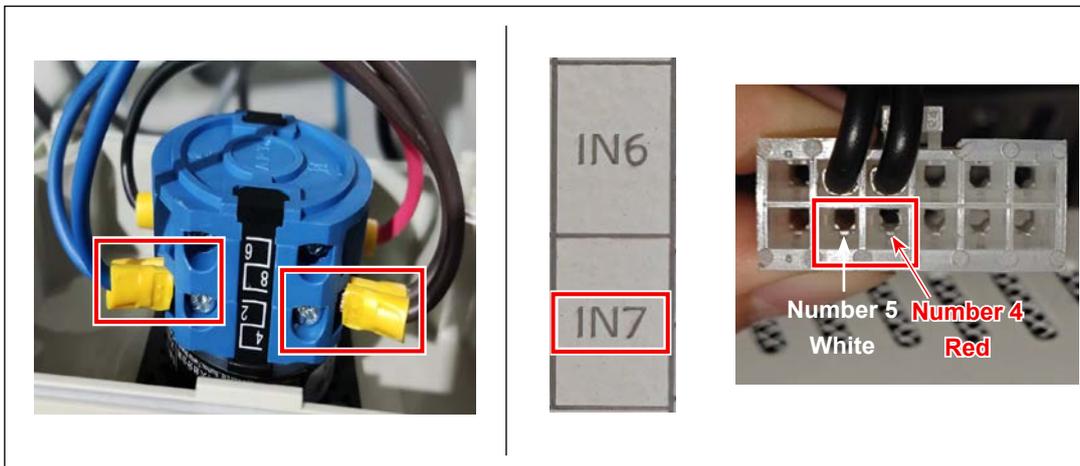
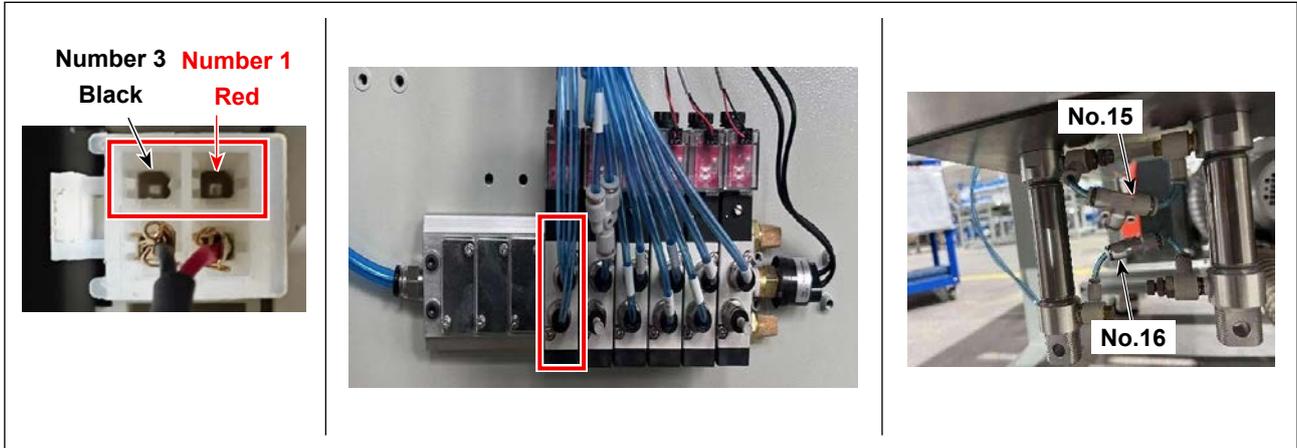
- 2) Place a sheet of paper (or cloth) on the mesh plate. Depress the pedal switch to suck up the paper (or the cloth). Then, depress the pedal switch again to disable the suction power. In this way, confirm that the suction capability of the suction device works properly.



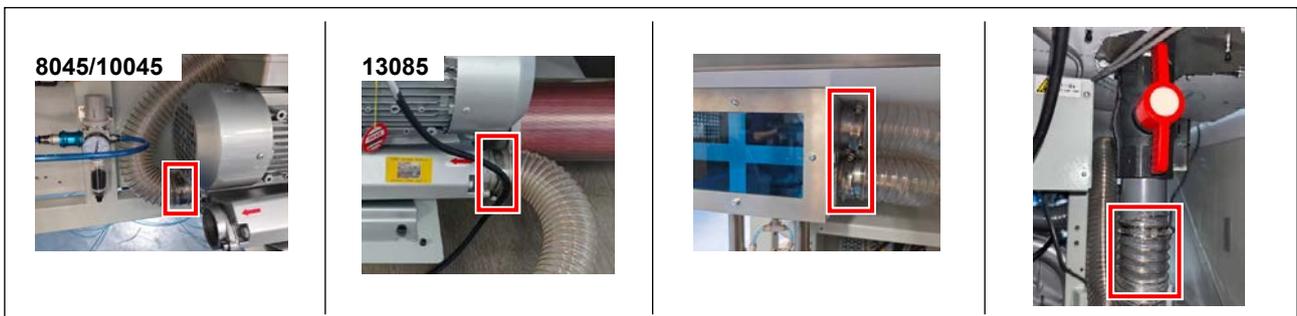
- 3) Press the OFF button to stop the blower.

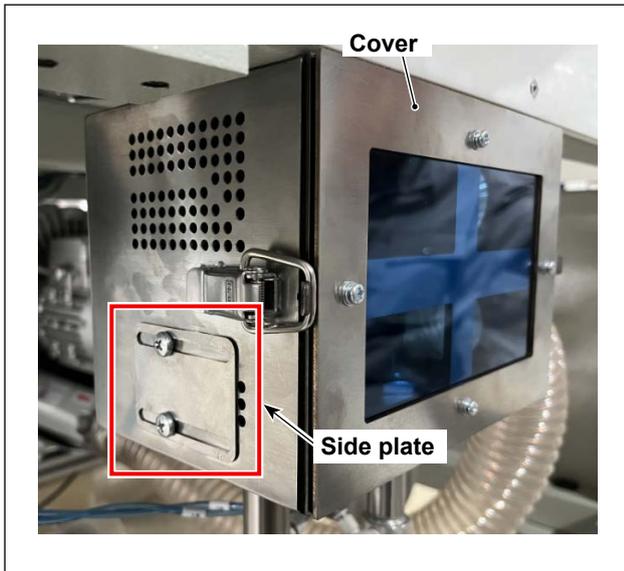
## 4. Troubleshooting

- 1) When the suction device is in operation, it fails to provide the suction power even if you depress the pedal.
- ① Check to make sure that the pedal switch cables, solenoid valve cables and air tubes are properly connected.



- 2) The suction device is able to suck up, but the suction power is inadequate.
- ① Check for air leakage from the pipe connecting portion of the blower, suction cover and filter box. If air leaks, secure the pipe clamp firmly.





- ② The filter box cover is poorly installed to cause air leakage. Unlock the draw latches. Then, re-lock them properly.
- ③ The side plate for finely adjusting the air that flows to the side face fails to hide all holes in the box. Re-adjust the side plate.