



**PEGASUS®**

# MHG Series

**Models: MHG-110/W664-08  
MHG-130/WT664-08  
MHG-140/WT664-35**

Thank you for purchasing Pegasus' automatic unit.

Study this manual very carefully before beginning any of the procedure and then use the device correctly and safely.

Keep this manual in a convenient place for quick reference when needed.

Hemming bottoms of tubular goods  
and/or flat sleeves  
**Versatile sewing unit for hemming**

**INSTRUCTIONS**



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Be sure to study very carefully **for safety.**

## **1.Introduction**

This instruction manual describes the instructions for using this automatic sewing unit safely.

Study this instruction manual very carefully and understand fully how to operate, check, adjust and maintain the automatic unit before beginning any of the procedures.

You always perform operations close to moving parts such as needles when using industrial sewing machines. Therefore, you have to keep in mind you could easily touch them. To prevent accidents, it is essential that you use the safe products supplied by Pegasus correctly. All the people who will use the automatic sewing unit must study this instruction manual and one for the sewing machine very carefully and then take necessary safety measures before beginning any of the procedures.

## **2.Symbols and/or icons of dangers, warnings and cautions**




The symbols and/or icons shown below are used according to the degree of danger. To prevent accidents, study the contents very carefully and follow the instructions.

Warning labels should be plainly visible.










Attach new labels when they are stained or removed.

Contact our sales office when new labels are needed.

### **Symbols and/or icons of dangers, warnings and cautions that attract users' attention**

 <b>DANGER</b>	Indicates an immediate hazard to life or limb.
 <b>WARNING</b>	Indicates potential hazards to life or limb.
 <b>CAUTION</b>	Indicates possible mistakes that could result in injury or damage.

## Symbols and messages

	Be sure to follow the instructions when you operate the machine and/or automatic unit.
	If you use the machine and/or automatic sewing unit incorrectly, you may get an electrical shock.
	If you use the machine and/or automatic sewing unit incorrectly, your hands and/or fingers may be injured.
	If you use the machine and/or automatic sewing unit incorrectly, it may cause fire.
	Never do this.
	Unplug the automatic sewing unit or shut off the power when checking, adjusting and/or repairing the machine and/or automatic unit, or when lightning may strike.
	Be sure to connect the GND wire. (Be sure to ground the automatic sewing unit.)
	If you use the machine and/or automatic sewing unit incorrectly, your fingers and/or hands may be caught in them or it, causing trouble.
	If you use the machine and/or automatic sewing unit incorrectly, you may burn yourself.

### 3. Safety precautions

#### Applications, purpose

The automatic unit is designed to increase quality and productivity according to your needs.

Therefore never use the automatic unit for the applications, which may defeat the above purpose.

#### Circumstances

Some circumstances when you are using the automatic unit may affect its life, function, performance, and safety.



For safety, do not use the automatic unit under the circumstances below.

1. Do not use the automatic sewing unit near objects that make noises, such as a high-frequency welder, etc.
2. Do not use or store the automatic sewing unit near chemicals or in the air that has chemical vapor.
3. Do not leave the automatic sewing unit outside in an area exposed to high temperatures and/or direct sunlight.

4. Do not use the automatic sewing unit in high humidity or ambient temperatures that may affect it.

5. Do not use the automatic sewing unit on the condition that the voltage fluctuation range exceeds  $\pm 10\%$  of the rated voltage.

6. Do not use the automatic sewing unit at the place where the supply voltage specified for the control motor cannot be properly obtained.

7. Do not use the automatic sewing unit at the place where the air supply specified for the automatic sewing unit cannot be properly obtained.

8. Do not use the automatic sewing unit near water.

#### Safety measures



(1) Safety precautions when you perform maintenance on the automatic sewing unit.

When performing maintenance such as checking, repairing, cleaning the automatic sewing unit, turn off the power, unplug the machine and press the machine treadle in order to make sure the machine does not run.

Be careful when you perform the procedures with the power on. To prevent accidents due to the unexpected start of the automatic sewing unit and users' misoperation, consider the procedures for safety and follow them.

Only well-trained people should perform routine daily maintenance and/or repair the machine and/or automatic unit.



Do not modify the machine and automatic unit yourself.

Consult your local Pegasus' sales office or representative for modification.



(2) Before operating the automatic sewing unit

Before operating the automatic sewing unit, check the machine head and automatic sewing unit to make sure they do not have any damage and/or defects.

Repair or replace any defective parts immediately.

To prevent accidents, always make sure the safety covers and safety guards are properly secured.

Never remove the safety covers and safety guards.



(3) Training

To prevent accidents, operators and service/maintenance personnel should have proper knowledge and skills for safe operation.

Supervisors should make educational plans for these people in advance and carry them out.

#### 4. Warnings and cautions in each procedure

### CAUTION

#### Unpacking

The machine and automatic unit are packed in boxes (and plastic bags) in the factory before shipment. Unpack the boxes and bags properly and sequentially while checking the contents are not upside down by following the instructions on them.

### WARNING

#### Transportation

1. More than two people should move the automatic sewing unit.
2. When moving the automatic sewing unit, considerable care should be taken not to apply excessive physical shock and shake because the sewing machine head could be removed and dropped from the unit.

#### Installation , preparation

### CAUTION

Connecting the air lines

1. Always turn off the power first and then connect the air lines to the joints. Be sure to connect all the air lines before connecting them to the air source.
2. When connecting the air lines to the joints, be sure to insert the joints to the proper depth of the air lines and fasten securely.
3. Do not allow excessive force to be exerted on the air lines while using the automatic sewing unit.
4. Do not bend the air lines too much.
5. If necessary, protect the air lines by positioning them safely and/or using the cover.
6. Never use staples to secure the air lines. Otherwise it may cause damage.

### WARNING

Connecting the cords

1. When connecting the power cord, be sure to turn off the power and disconnect the power plug from the outlet.
2. Check the voltage designation to make sure the power relay cord matches the local supply voltage. The use of wrong cord may cause damage to parts and/or fire.
3. Do not allow excessive force to be exerted on the cords while using the automatic sewing unit.
4. Do not bend the cords too much.
5. When connecting the cords, check to make sure there is at least 25mm between the moving parts, such as the pulley or V belt and the cords.
6. If necessary, protect the cords by positioning them safely and/or using the cover.
7. Never use staples to secure the cords. Otherwise it may cause damage, a short circuit and/or a fire.


Ground

1. Connect the GND wire correctly. Do not connect the GND wires of other machines to the GND terminal of this unit.
2. Connect the GND wire securely to the specified terminal on the machine bed.

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## WARNING

### Before operation

1. Check the cords, connector and air lines to make sure they do not have any damage, disconnection's or tangles and then turn on the power.
2.  Never bring your hands and/or any part of your body close to the needle when turning on the power.
3. Well-trained people who have studied this instruction manual very carefully should use the automatic sewing unit.
4. Read and study the contents on "2. Symbols and/or icons of dangers, warnings and cautions" very carefully and then provide users with safety training if necessary.


## WARNING

### Precautions for work and operation

1.  The area near the presser foot is very dangerous during sewing. Do not bring your hands and/or any part of your body close to the presser foot.
2. To prevent accidents, be careful that any foreign matter such as water, other liquids or metals do not get into the automatic sewing unit.
3. Wear clothes that cannot be caught in the automatic unit.
4.  Do not leave tools or other unnecessary objects near the automatic unit.
5. To prevent accidents, always make sure the safety cover are properly secured.
6. Drain and clean the filter regulator periodically if the automatic sewing unit is pneumatic. Otherwise drainage will flow into the solenoid valve and/or air cylinder, causing trouble.
7. Always turn off the power before leaving the automatic unit.
8. If any trouble occurs, stop using the automatic unit and turn off the power. Check, repair and/or perform other necessary procedures immediately.
9.  To prevent injury to your hands and/or fingers by the cutting edge of the knife, great care should be taken when you perform the procedures.

## CAUTION

### Maintenance, check, repair

1. Well-trained people who have studied this instruction manual very carefully should maintain, check and repair the machine and automatic unit.
2. Perform routine daily maintenance and periodical maintenance by following this instruction manual.
3. Use Pegasus' genuine parts when repairing and/or replacing parts. Pegasus assumes no responsibility for accidents caused by improper repair/adjustment and/or use of parts which are not genuine.
4.  Do not modify the automatic unit yourself. Pegasus assumes no responsibility for accidents caused by modification.
5. After maintaining, checking, and/or repairing the machine and automatic unit, always make sure that any trouble does not occur when the power is turned on.
6. To avoid trouble, before and after operation clean the automatic sewing unit by removing lint and contaminants.
7. If the safety covers are removed for a check and maintenance, be sure to replace them.

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## Applications and performance

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### Features:

For hemming bottoms of tubular goods and/or flat sleeves, such as T-shirts, polo shirts, etc.

MHG (versatile sewing unit for hemming) automates and deskills what had been a difficult hemming operation. When hemming bottoms on tubular goods, all you have to do is position the fabric.

The unit forms the hem using the guide.

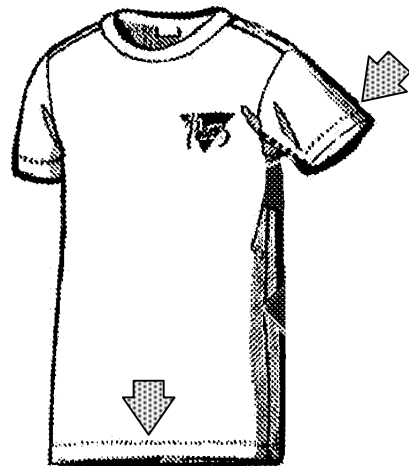
This guide automatically open/close during sewing. In addition, the machine will stop automatically when the sensor detects the overlapped seams.

Thanks to these features, even if the size of the fabric is changed, the overlapped seam length is always constant without additional settings.

The optional parts are necessary for hemming on flat sleeves.

Hem width: 15 ~ 35mm

Minimum circumference: 360mm



# Installation

# Description of each part

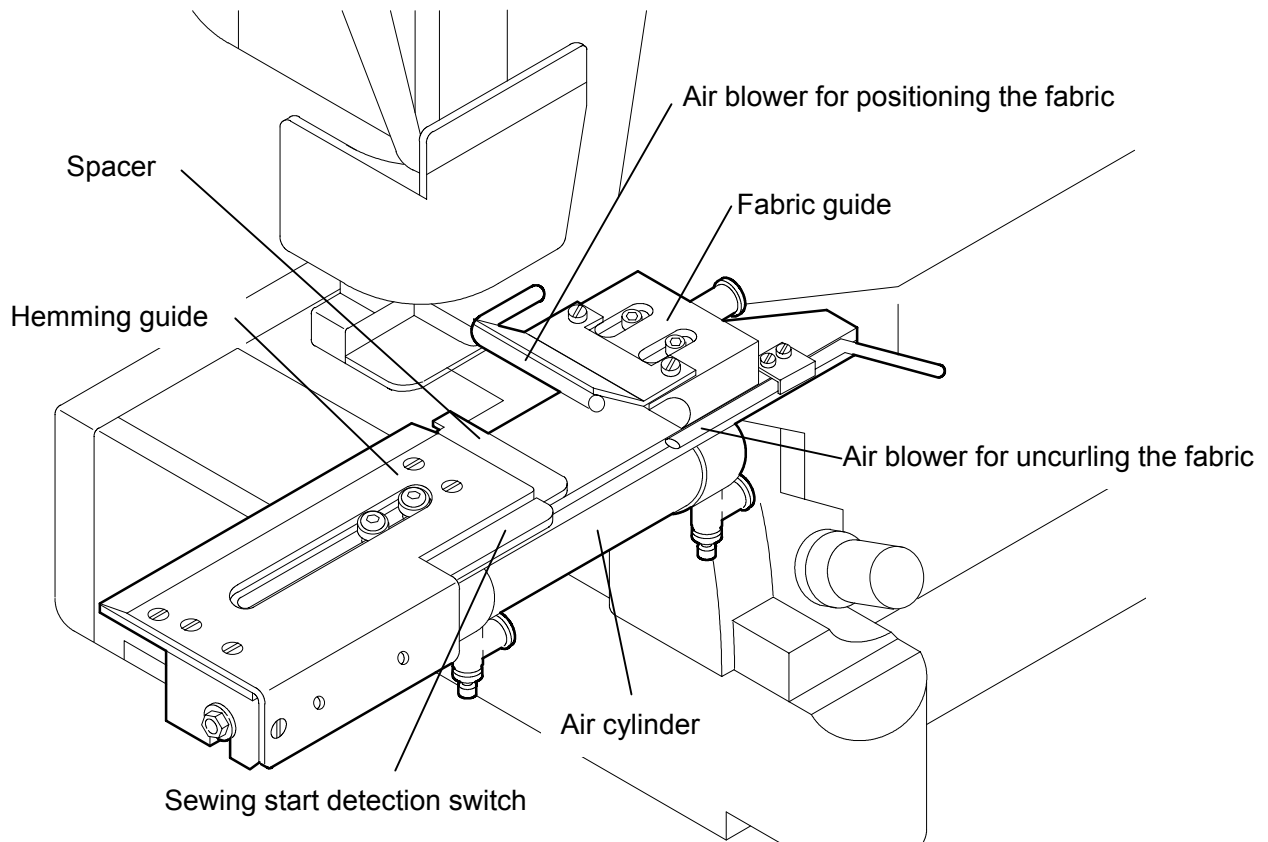



Fig.1 Description of each part

# Installing the device

## CAUTION

 Always turn off the power, unplug the machine and then well-qualified technicians should install the device.

Install the device by referring to sequence as shown below.

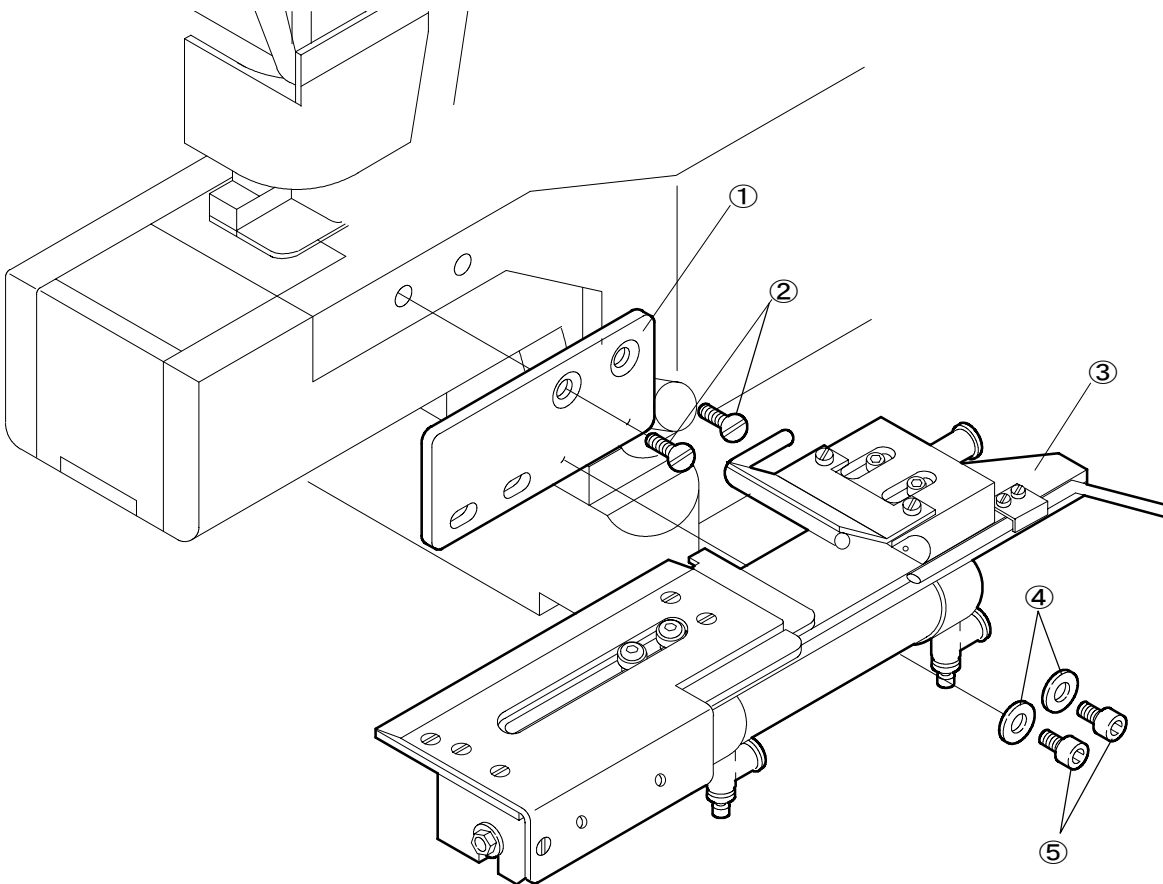


Fig. 2 To install the device

# Installation

Mechanic level

## Connecting the cords

### CAUTION

Always turn off the power, unplug the machine and then well-qualified technicians should connect relay cords. Match the colors and shapes of the connectors when connecting the relay cords.

### WARNING

Faulty wiring of the relay cords may cause a malfunction. To prevent accidents and damage to the machine, check the relay cords for correct wiring.

To disconnect the locking connector, pull the connector while pressing locking mechanism with your thumb.

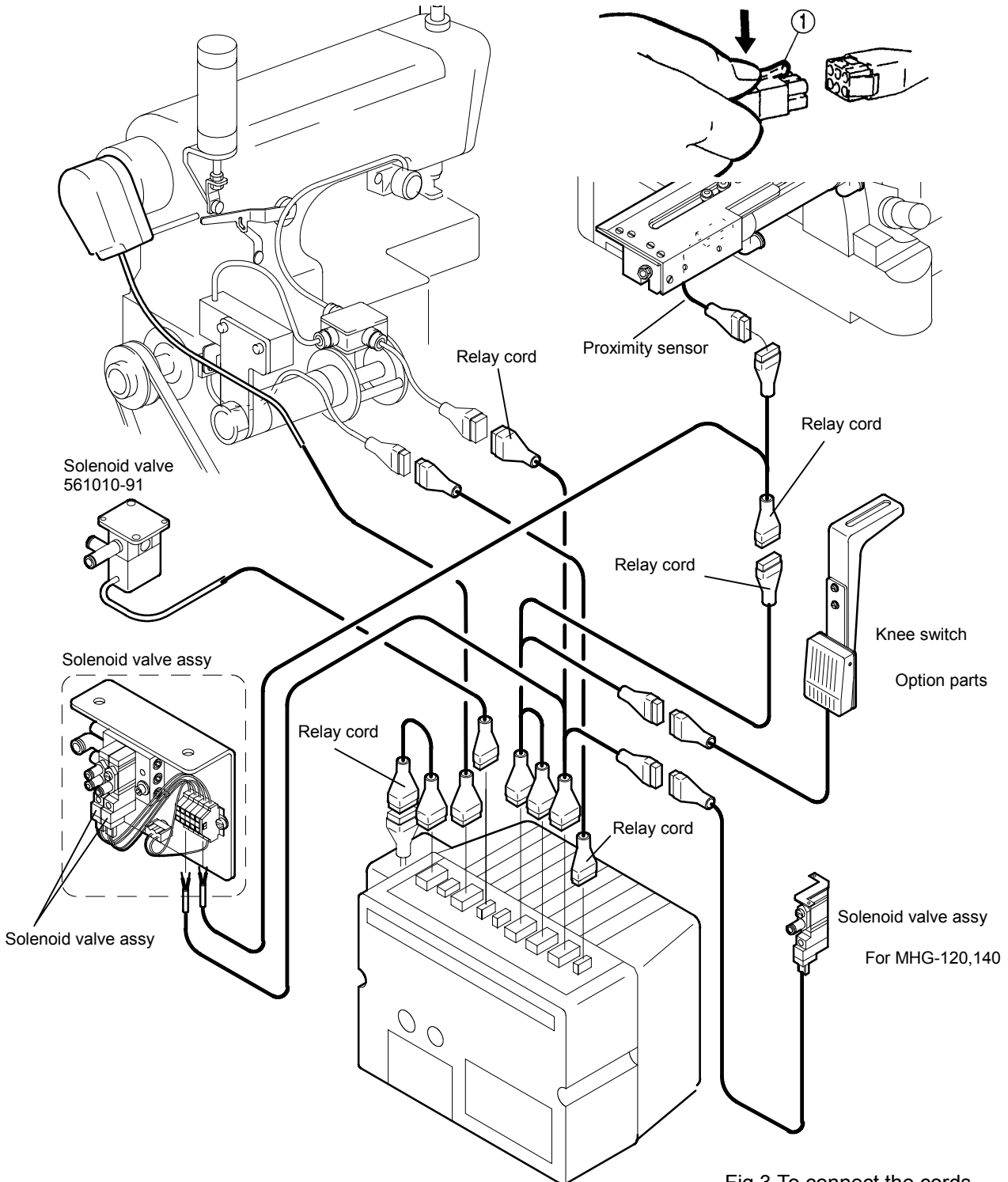


Fig.3 To connect the cords

# Installation

Mechanic level

## Connecting the cords

### CAUTION

Always turn off the power, unplug the machine and then well-qualified technicians should connect relay cords. Match the colors and shapes of the connectors when connecting the relay cords.

### WARNING

Faulty wiring of the relay cords may cause a malfunction. To prevent accidents and damage to the machine, check the relay cords for correct wiring.

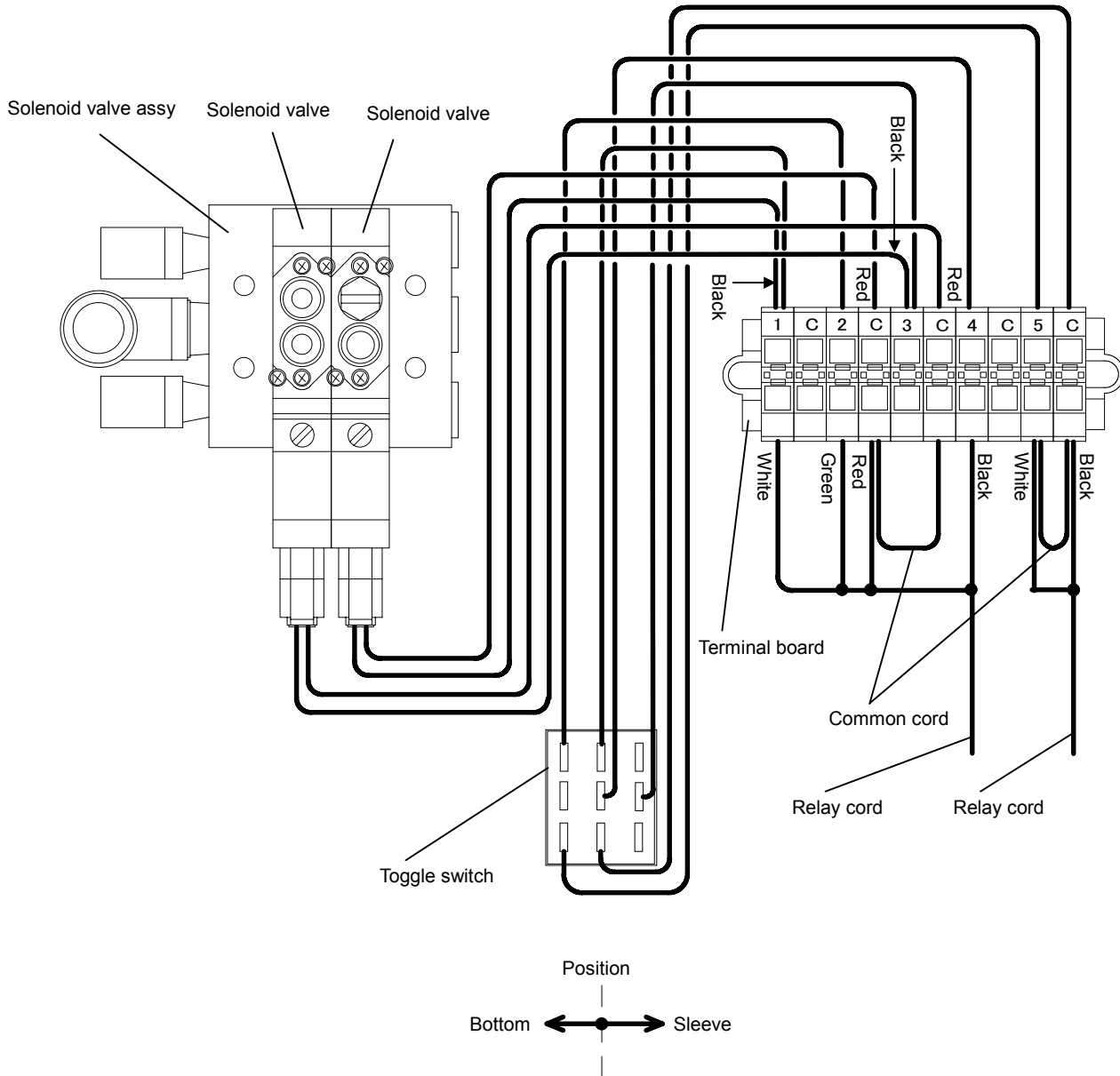


Fig.4 To connect the cords (2)

## Installation

Mechanic level

# Connecting the air lines (MHG-110, 130)

## ⚠ CAUTION

- ⚠ Always turn off the power and shut down the air compressor first and well-qualified technicians should connect the air line.
- ⚠ Before connecting to the air compressor (air source), all the air lines should be connected completely.

## ⚠ WARNING

- ⚠ Improper piping of the air lines may cause a malfunction. To prevent accidents and damage to the machine, check all the air lines for correct piping.

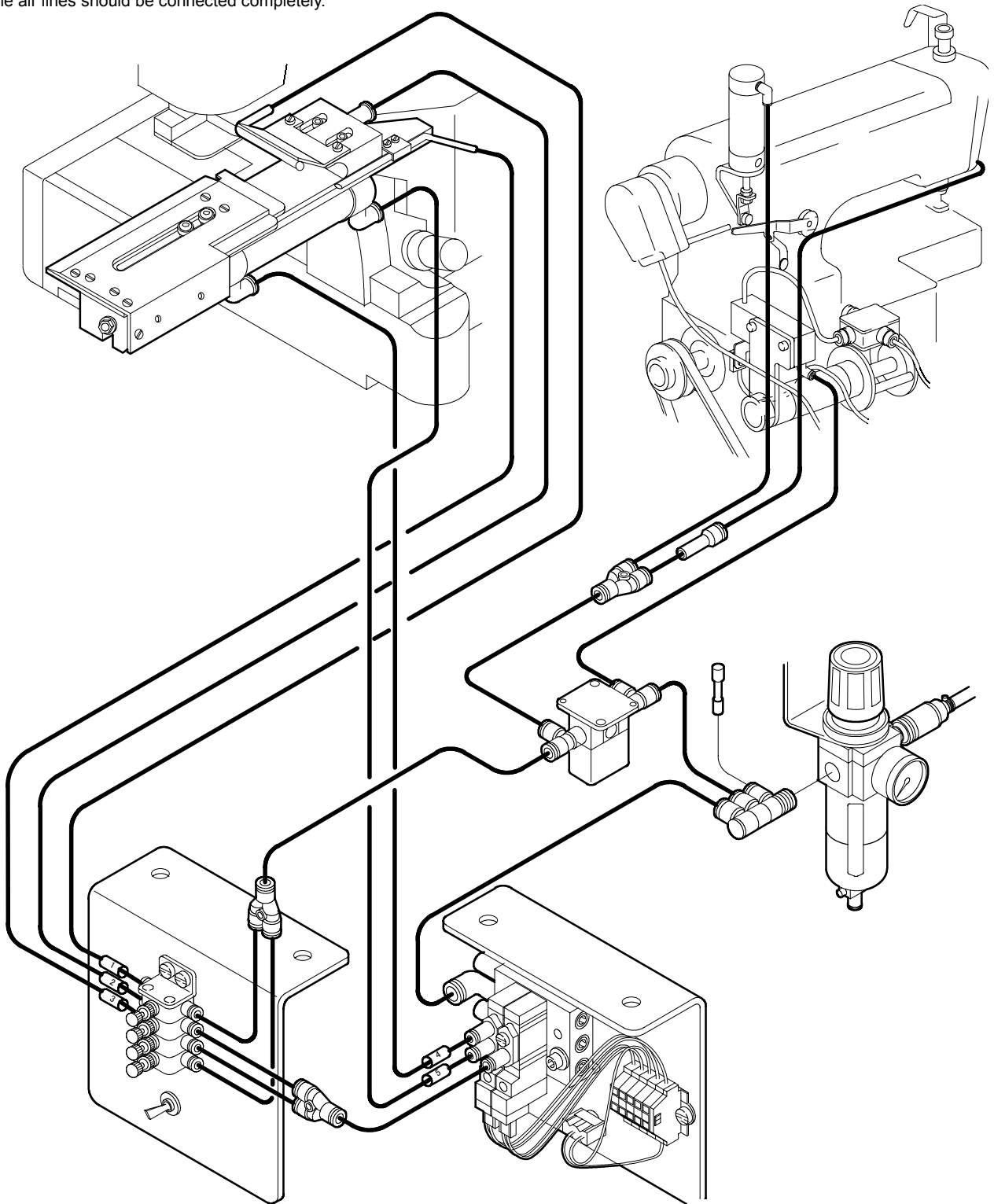




Fig.5 To connect the air lines  
(MHG-110, 130)

## Installation


Mechanic level

# Connecting the air lines (MHG-140)

### CAUTION

-  Always turn off the power and shut down the air compressor first and well-qualified technicians should connect the air line.
-  Before connecting to the air compressor (air source), all the air lines should be connected completely.

### WARNING

-  Improper piping of the air lines may cause a malfunction. To prevent accidents and damage to the machine, check all the air lines for correct piping.

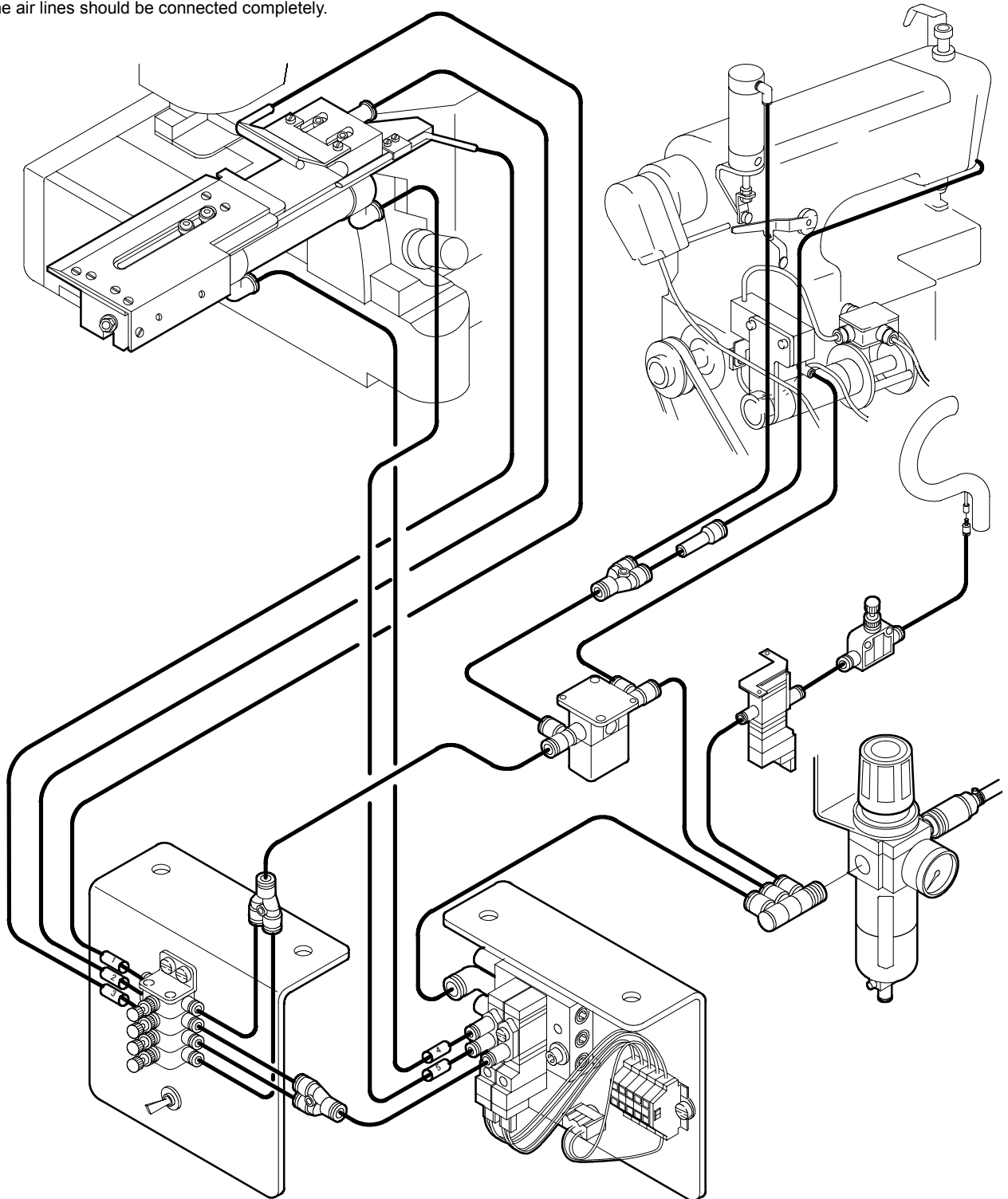


Fig.6 To connect the air lines  
(MHG-140)

## CAUTION

To adjust the filter regulator, turn off the power and finish air piping and then turn on the air compressor.

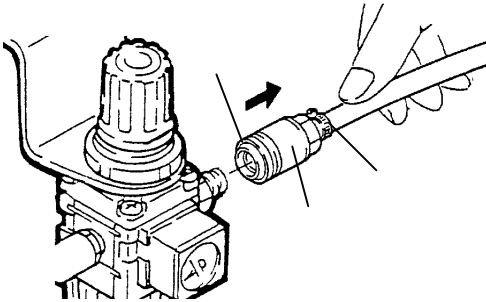


Fig. 7. To connect the air hose

### (1) Connecting the air hose

Fasten coupler firmly onto the air hose from the air compressor with hose clamp. Pull collar toward you (see the illustration) and then press the air hose onto the joint on the filter regulator. Replace collar.

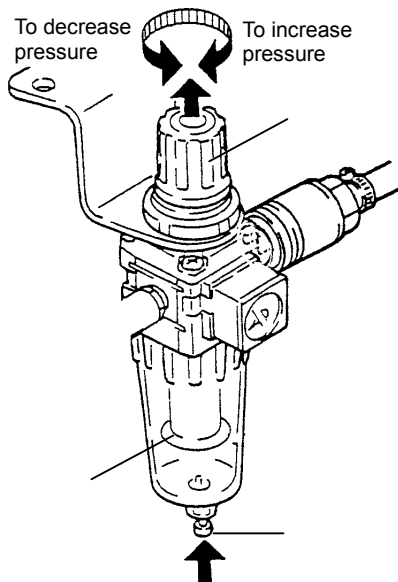


Fig. 8. To adjust the filter regulator

### (2) Adjusting air pressure

Pull up knob on filter regulator until it clicks. Then set the air pressure at 0.5Mpa. (5kgf/cm<sup>2</sup>).

To increase the air pressure, turn knob clockwise.  
To decrease the air pressure, turn knob counterclockwise.

### (3) Draining the filter regulator


Drain the filter regulator by pressing button before drainage level reaches baffle.

## CAUTION

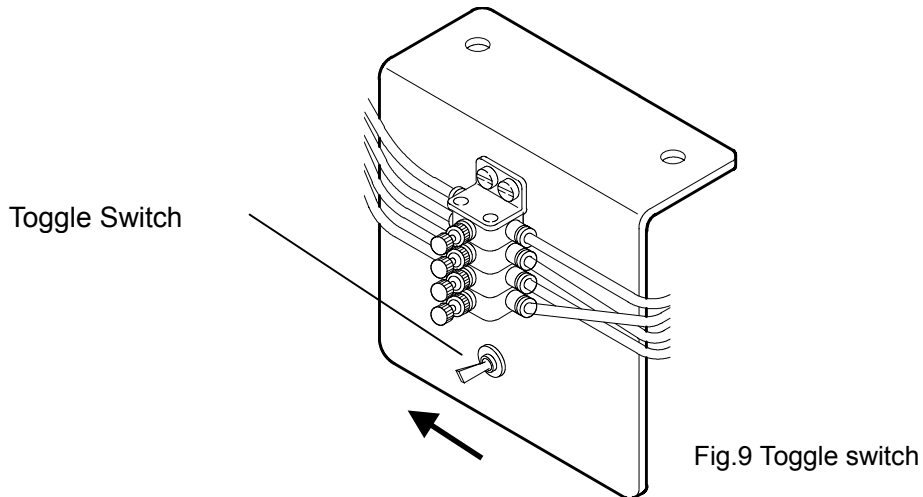
Be sure to drain periodically before drainage level reaches the baffle. Otherwise the drainage will flow into the solenoid valve or air cylinder and may cause trouble. Note that drainage spouts downward with air.

# Installing the optional parts for hemming flat sleeves

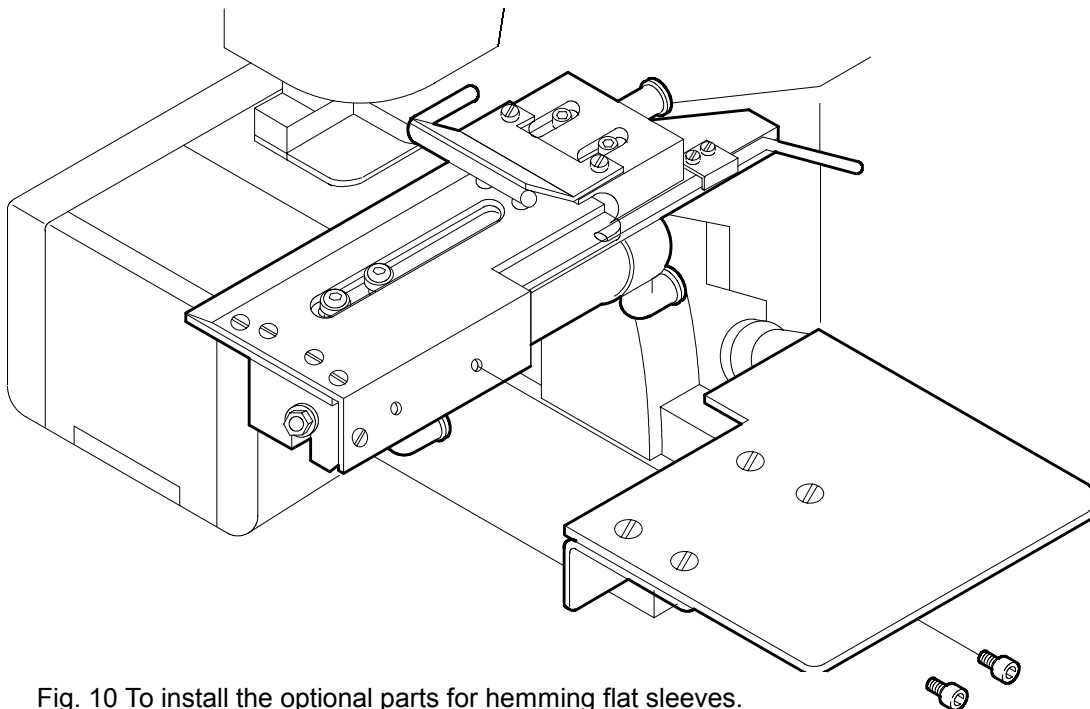
## CAUTION

 Always turn off the power, unplug the machine and then well-qualified technicians should install the device.

1. Flip the switch to [Hemming sleeve].



2. Install the optional part for sleeve hemming.



## Installing the optional parts for hemming flat sleeves

3. Change the connection of the sensor cord.

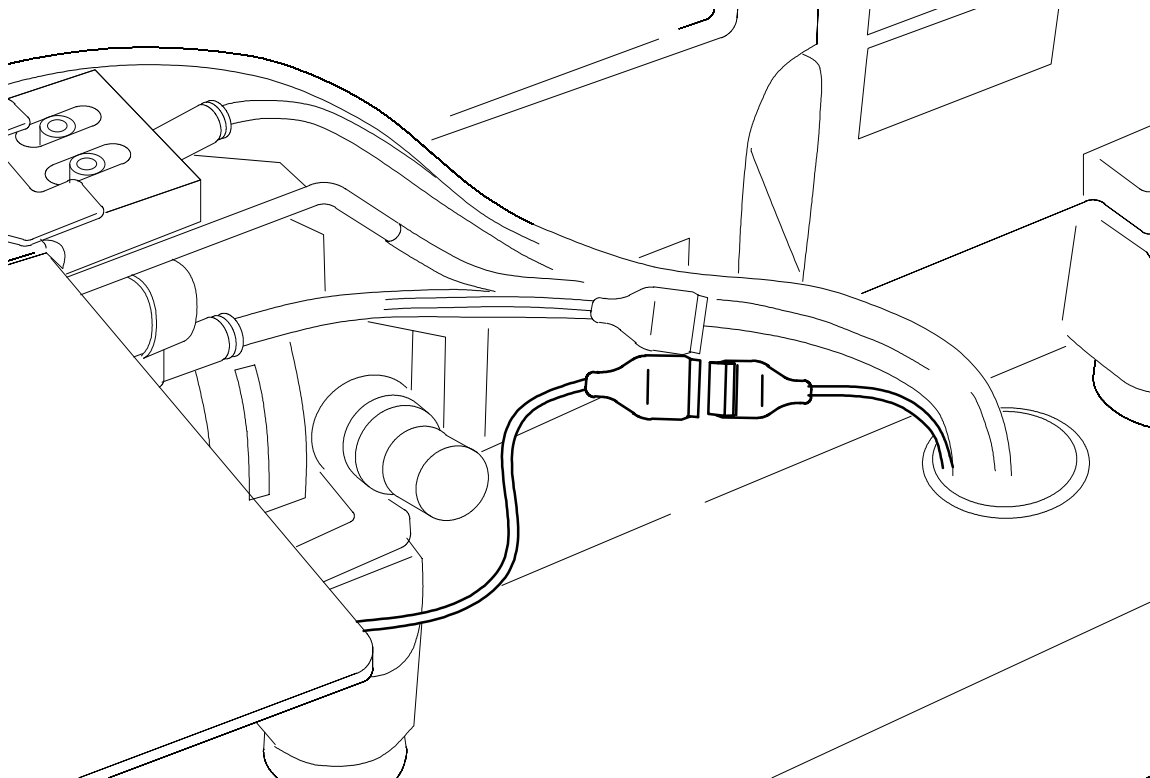



Fig. 11 To change the connection of the sensor cord.

## Installation

Mechanic level

# Installing the knee switch that operates the fabric guide manually (option)

## CAUTION

 Always turn off the power, unplug the machine and then well-qualified technicians should install the device.

Install the knee switch by referring to the illustration below.

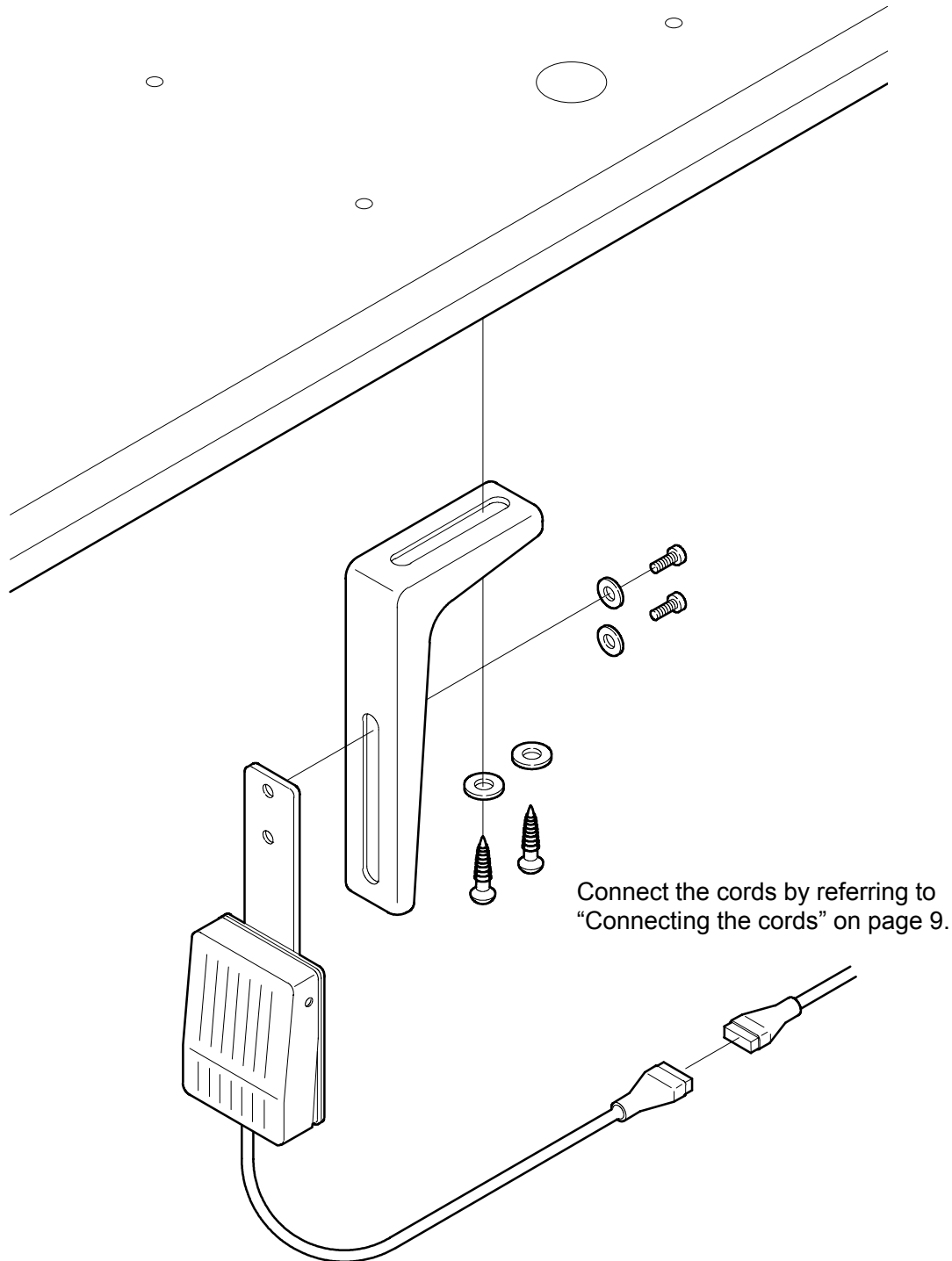



Fig. 12 To install the optional knee switch

# Basic Adjustment

## Adjusting the hem width

### CAUTION

 Always turn off the power, shut down the air compressor first and well-qualified technicians should adjust hem width.

(To adjust the hem width)

Loosen screws A. Adjust the hem width by moving the fabric guide to the left or right as required.

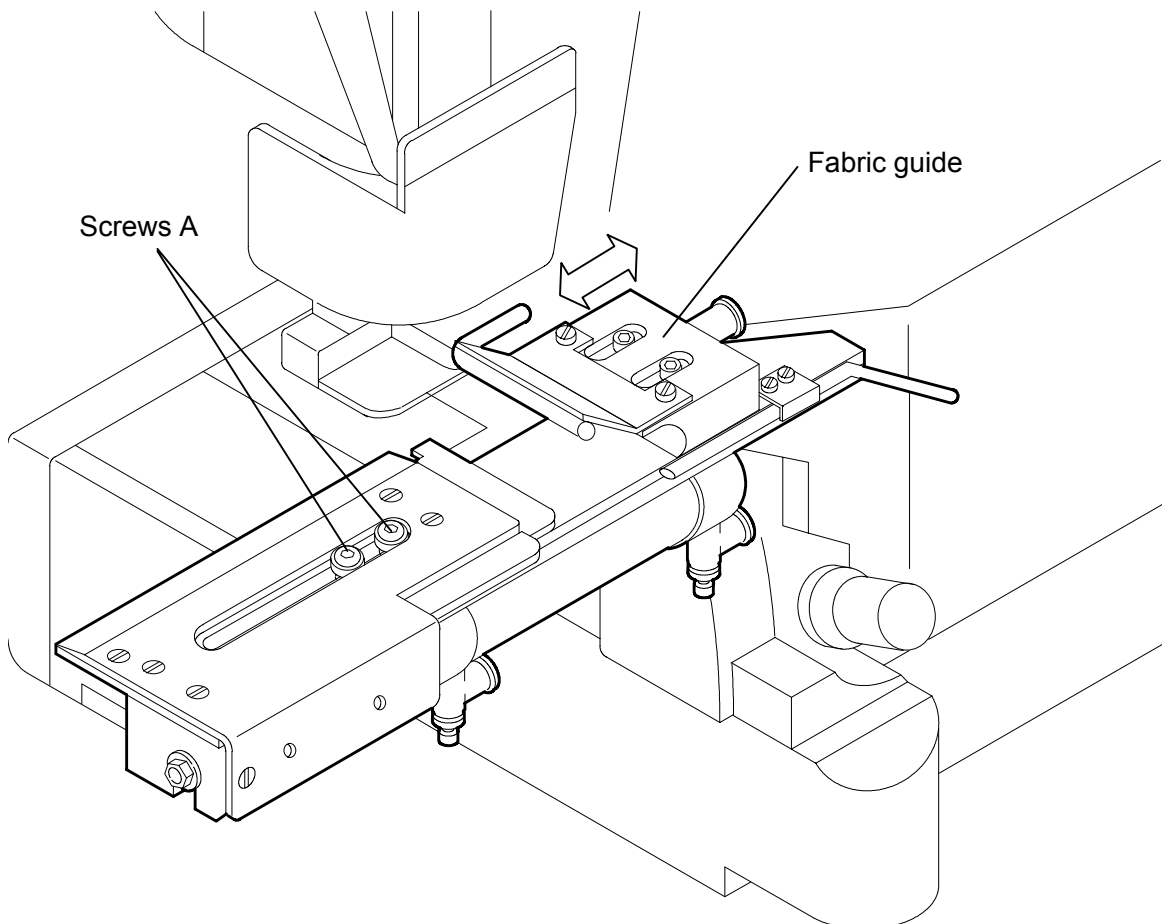



Fig.13 To adjust the hem width

## Basic Adjustment

Mechanic level

# Changing the spacer (for the fabric thickness)

## CAUTION

 Always turn off the power shut down the air compressor first and well-qualified technicians should change the spacer.

(To change the spacer.)

Remove screws A. Change the spacer according to the fabric thickness.

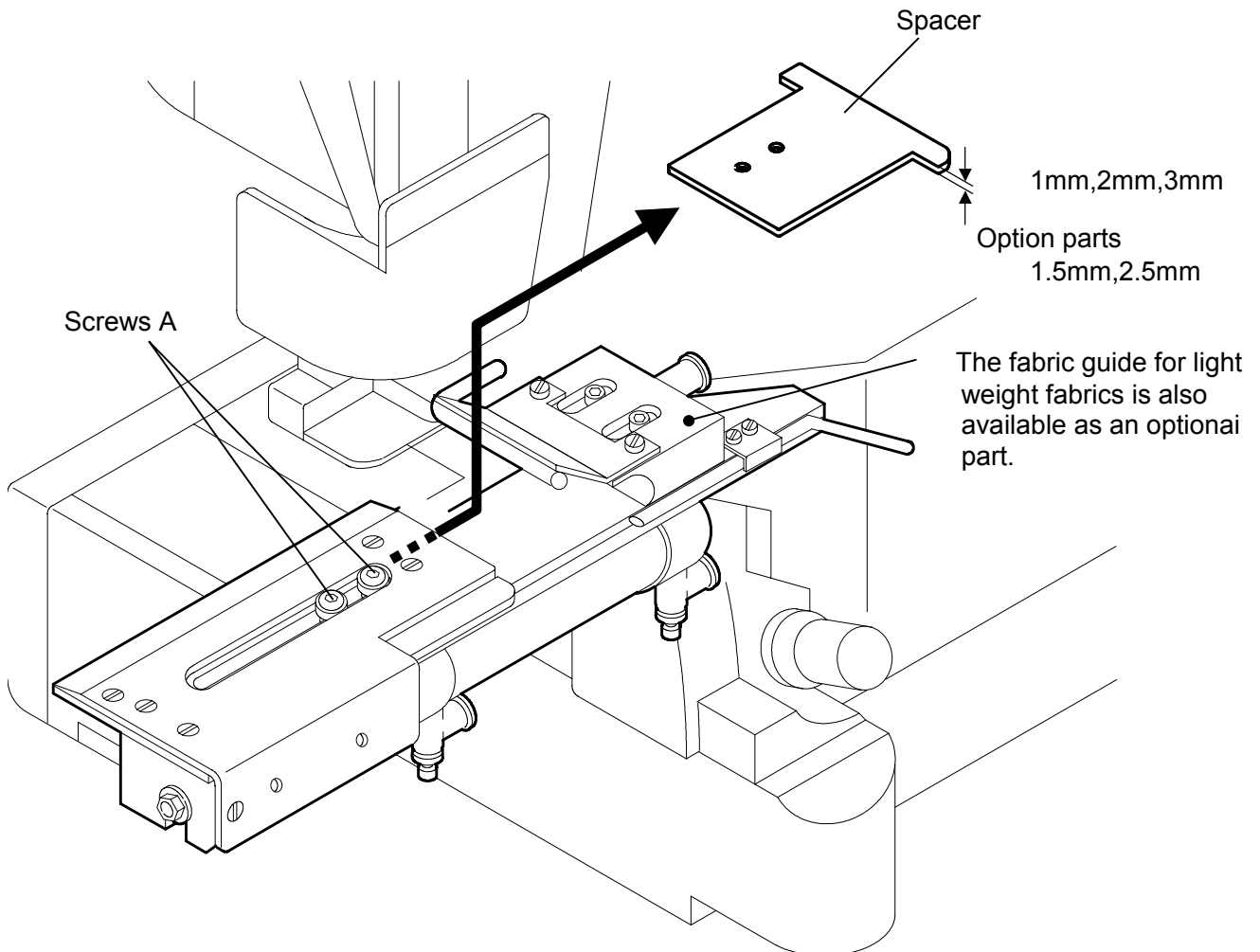



Fig.14 To change the spacer

## Adjusting the spacer (for the fabric edge)

### CAUTION

 Always turn off the power, shut down the air compressor first and well-qualified technicians should position the spacer.

(To position the spacer.)

Loosen screws A. Move the spacer to the left or right as required so that the left needle sews the fabric edge properly.

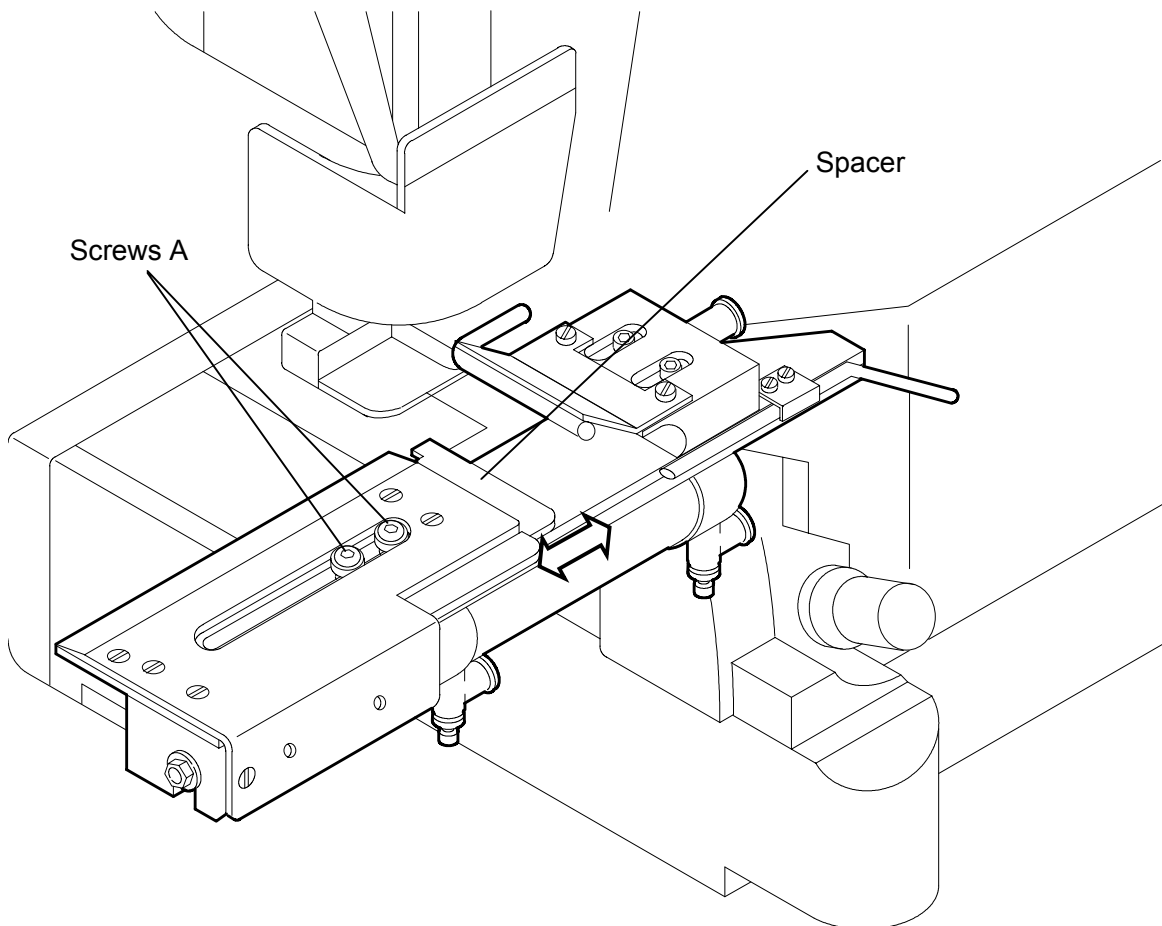


Fig.15 To position the spacer

# Adjusting the air blowers

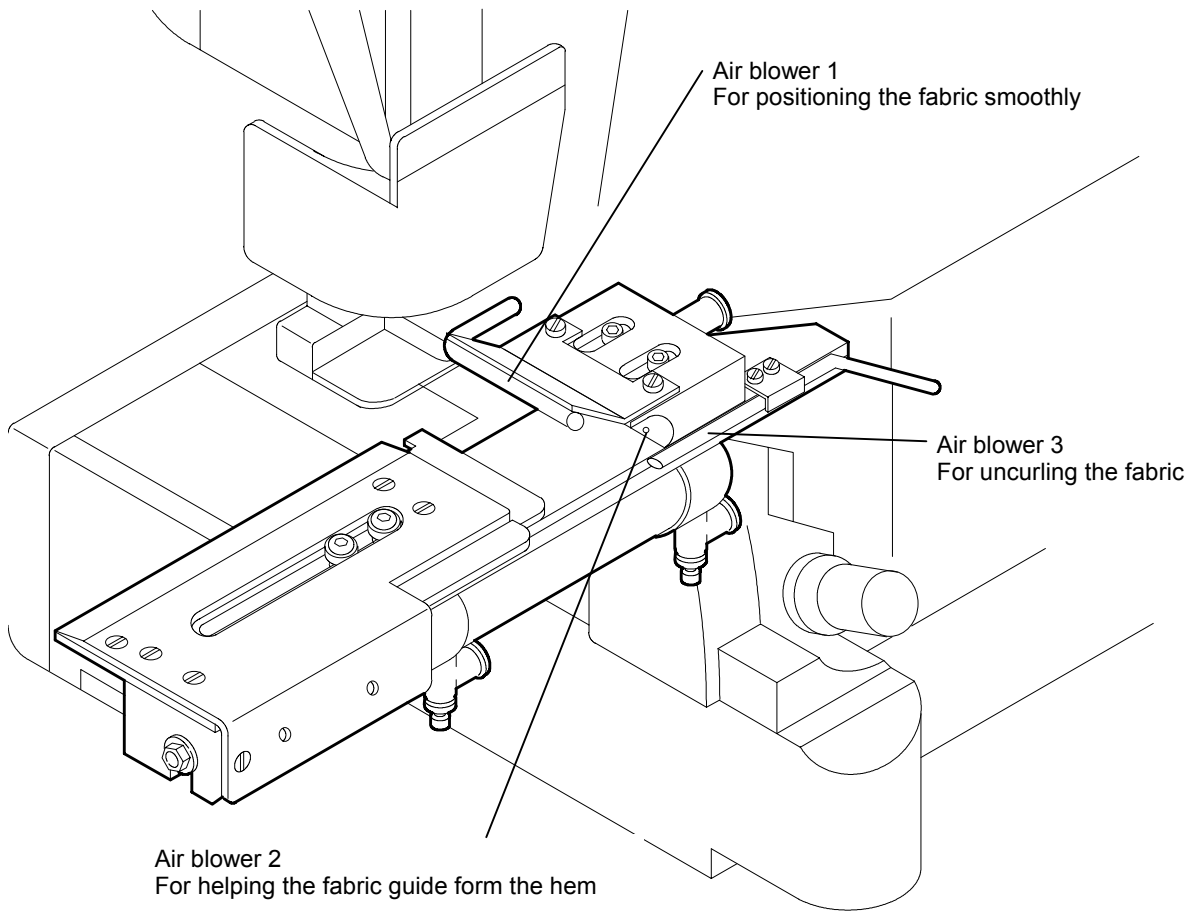


Fig. 16 To adjust the air blowers

- Adjustment knob for air blower 1
- Adjustment knob for air blower 2
- Adjustment knob for air blower 3
- Spare (not assigned)

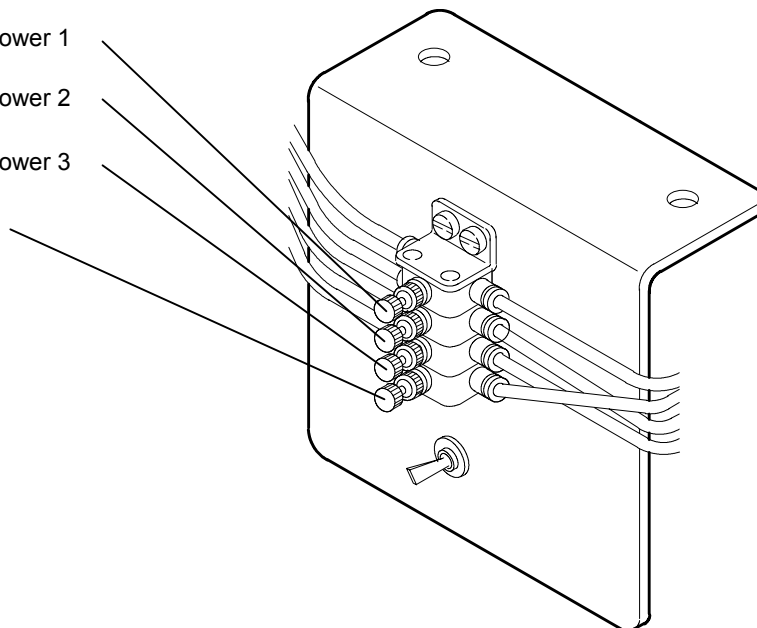
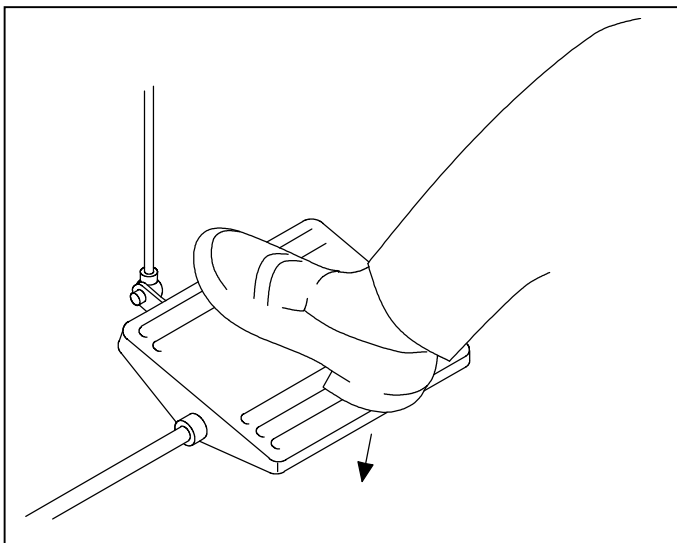
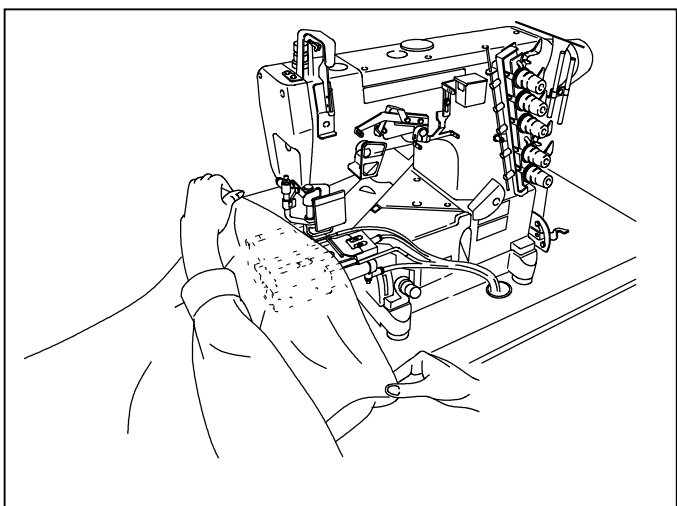


Fig. 17 To adjust the air blowers

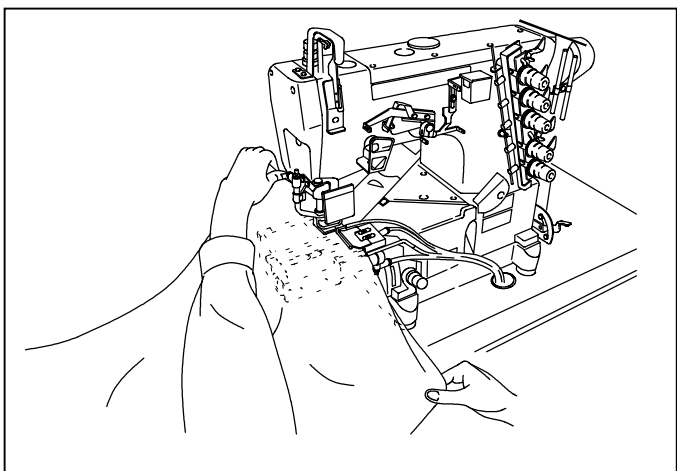
# Sewing



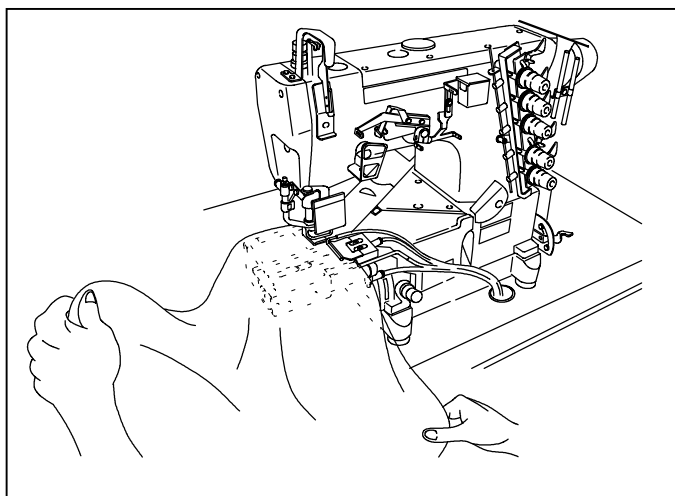
1. Heel the treadle to lift the presser foot.



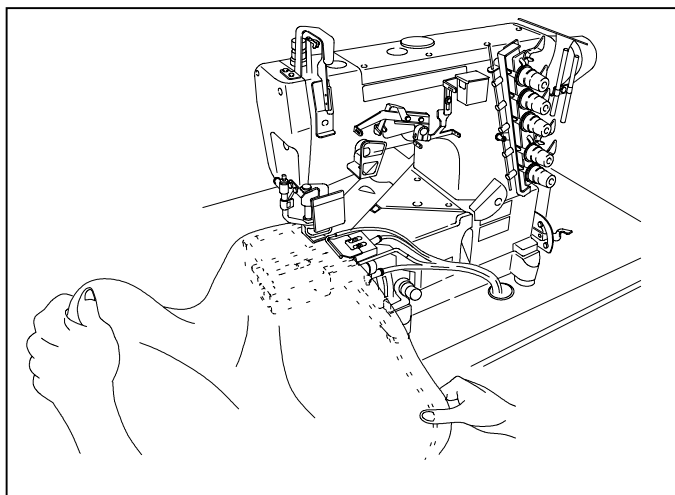
2. Insert the fabric into the fabric guide (the fabric is folded pneumatically).



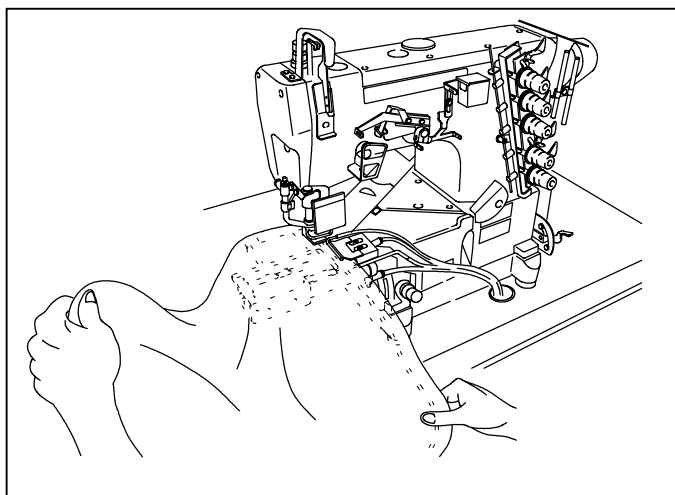
3. Form the hem neatly by pulling the fabric slightly to the back. Then release the treadle to lower the presser foot.



4. Toe the treadle to start sewing (unnecessary to fold the fabric previously).

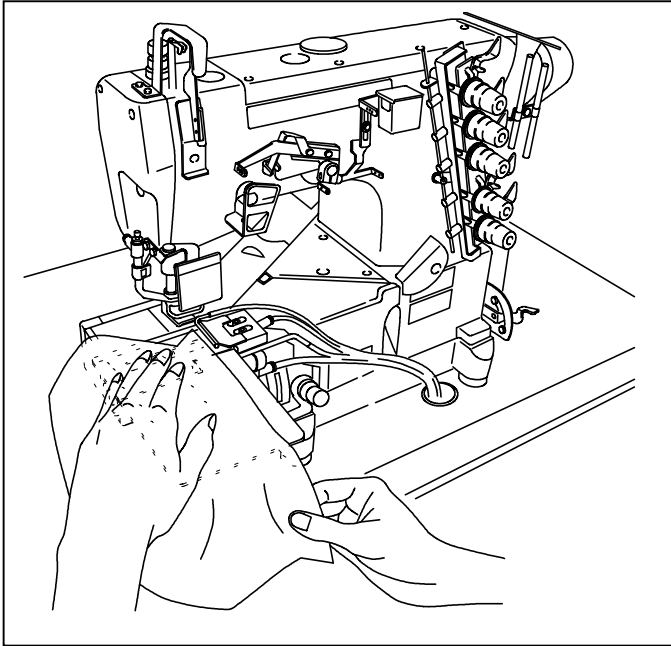


5. When the start of sewing come to the fabric guide, the sewing start detection sensor detects the start of sewing. Then the fabric guide moves to the left and the machine slows down.

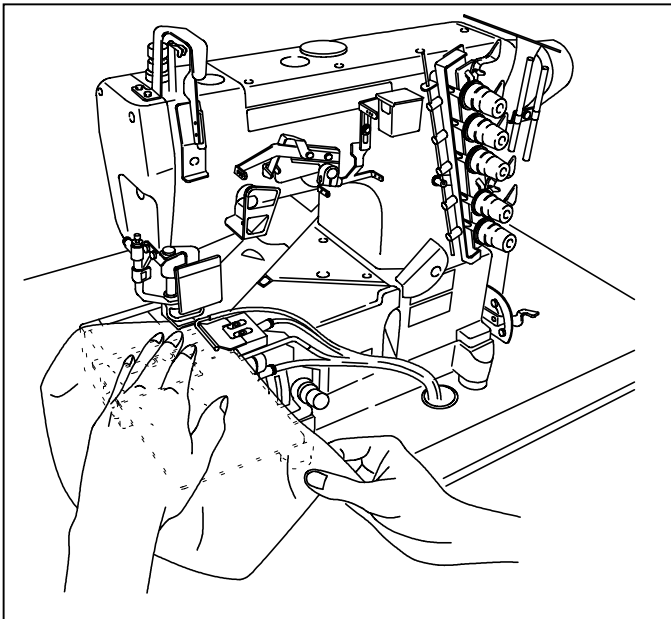


6. The fabric is fed continuously. Then the machine automatically stops at the preset stitch count of the overlapped seams. Heel the treadle to trim the thread and lift the presser foot.

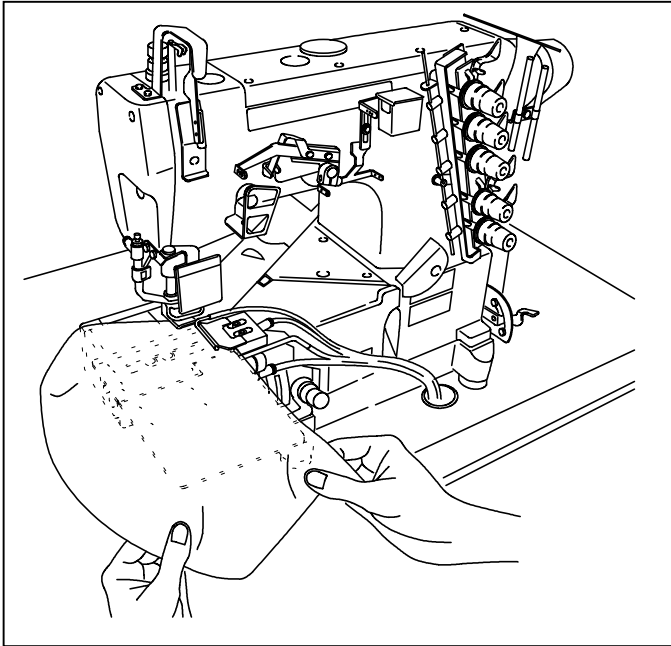
Install the optional parts for hemming flat sleeves by referring to pages 14 and 15.



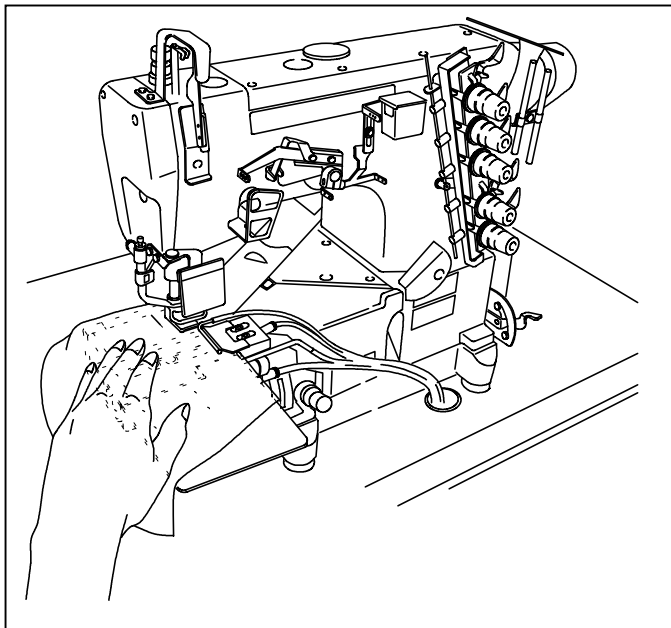
1. Heel the treadle to lift the presser foot.



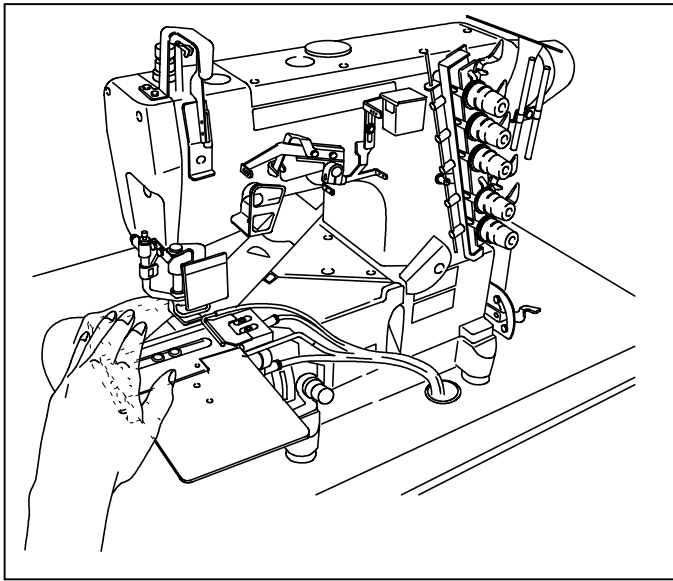
2. Insert the fabric into the fabric guide (the fabric is folded pneumatically).



3. Toe the treadle to start sewing while holding the fabric by hand.




4. When the fabric has gone through the sensor, the machine automatically slows down and then stops at the preset stitch count.

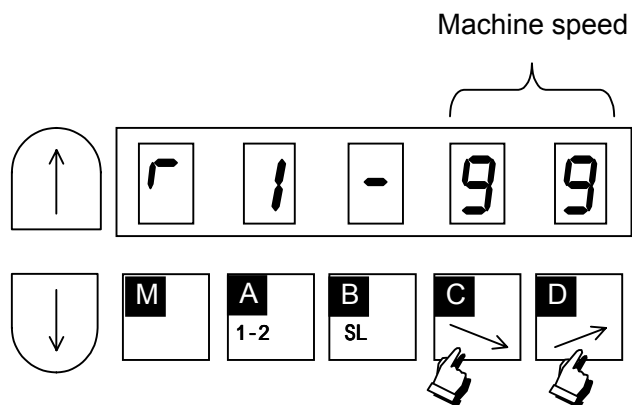


5. Heel the treadle to trim the thread and lift the presser foot.

# Entering sewing data

## CAUTION

 The power is on while the data is entered. Therefore, the machine could start unexpectedly. Great care should be taken in entering the data.



The machine speed can be adjusted with 99 steps in the range of the minimum to the maximum speeds.

To increase the machine speed by 1 step, press  key.

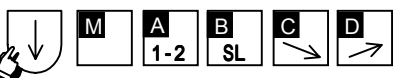
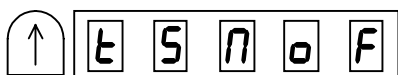
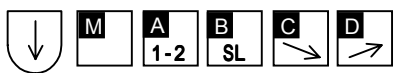
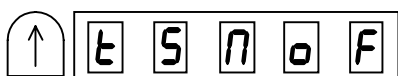
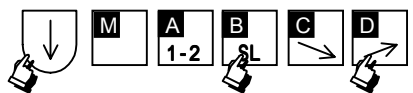
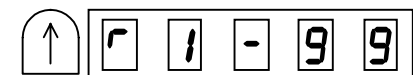
To decrease the machine speed by 1 step, press  key.

Adjustable in the range from 0 to 99.

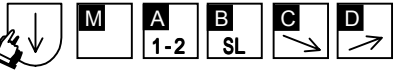
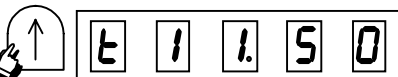
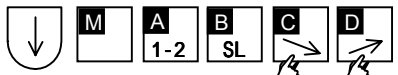
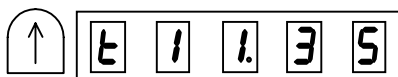
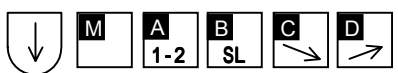
## CAUTION

The power is on while the data is entered. Therefore, the machine could start unexpectedly. Great care should be taken in entering the data.

<Normal mode>



Function Parameter      Number of stitch



1. Call up program mode "S" by pressing , and keys simultaneously for more than 2 seconds.

2. The display on the left appears.

3. Select function parameter *tll* by pressing key 15 times.

4. The display on the left appears.  
Factory-set value: 35

5. Enter the number of stitches with key and/or key.  
Enter the first digit with key.  
Enter the second digit with key.

Every time each key is pressed, the number changes with 0 to 9.

Adjustable in the range of 0 to 99 stitches.

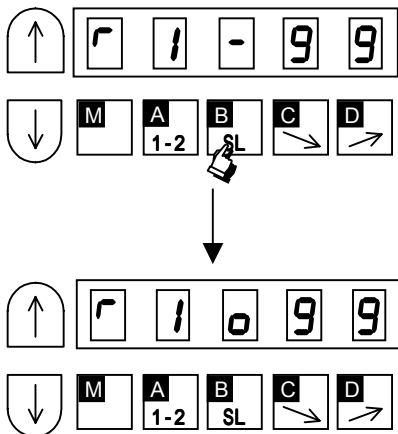
6. Return to the normal mode by pressing and keys simultaneously.

## CAUTION

The power is on while the data is entered. Therefore, the machine could start unexpectedly. Great care should be taken in entering the data.

### 1. To call up the slow start mode

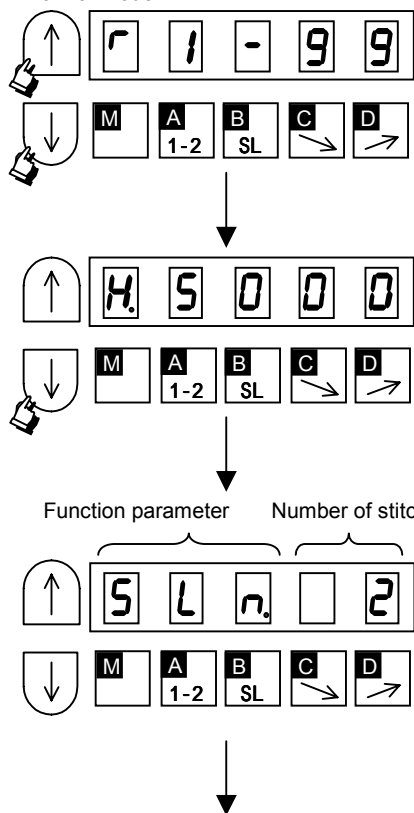
<Normal mode>



Pressing **B SL** key calls up the slow start mode.  
To release this mode, press **B SL** key again.

### 2. To program the slow start by stitch counting

<Normal mode>



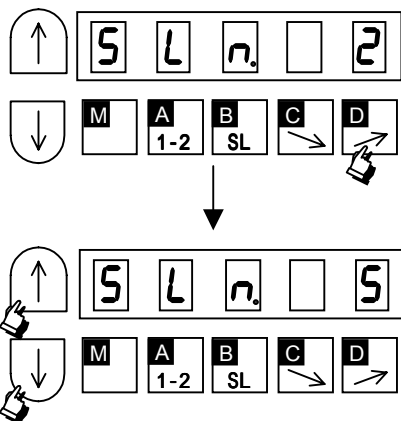
1. Call up program mode "P" by pressing and keys simultaneously for more than 2 seconds.

2. Select function parameter **SL<sub>n</sub>** by pressing key 7 times.

3. The display on the left appears.

<Continued on the following page.>

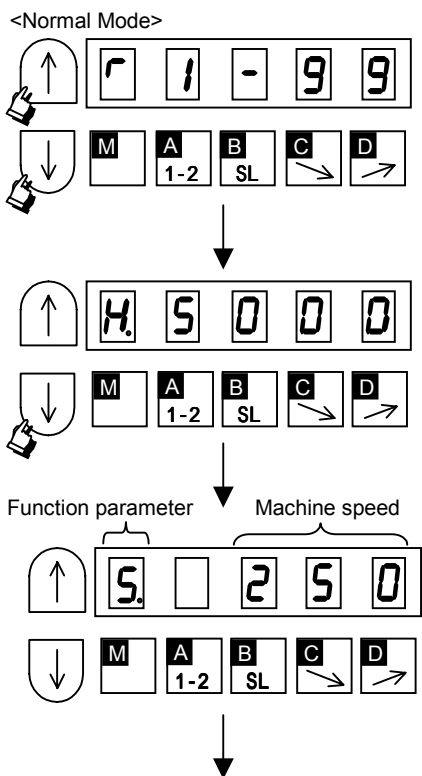
## Adjusting the machine speed at the start of sewing



4. Enter the number of stitches with key.  
Factory-set value: 2  
Adjustable in the range of 1 to 5 stitches.

5. Return to the normal mode by pressing and keys simultaneously.

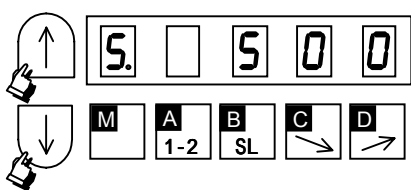
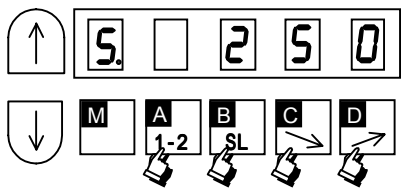
### 3. To program the machine speed in the slow start mode




1. Call up program mode "P" by pressing and keys simultaneously for more than 2 seconds.
2. Select function parameter **S.** by pressing key 6 times.
3. The display on the left appears.

<Continued on the following page.>


## Adjusting the machine speed at the start of sewing



4. Enter the machine speed with , ,  and  keys.

Enter the fourth digit with  key.



Enter the third digit with  key.

Enter the second digit with  key.

Enter the first digit with  key.

Every time each key is pressed, the number changes with 0 to 9.

Factory-set value: 250

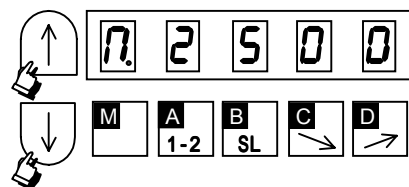
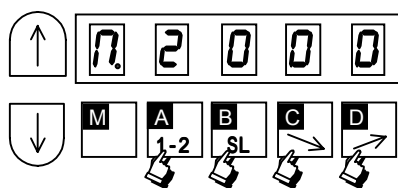
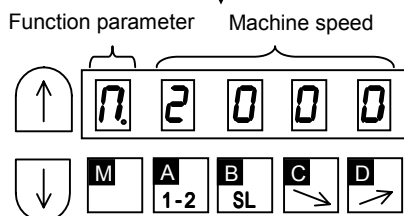
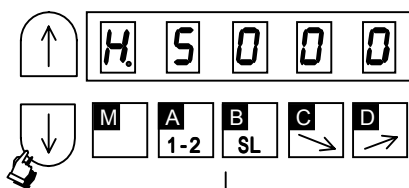
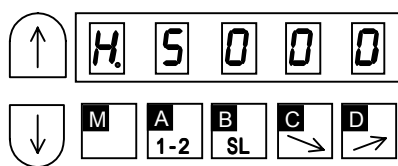
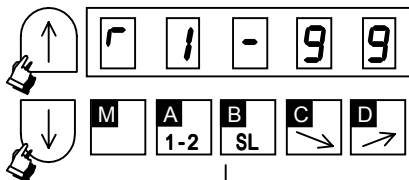
5. Return to the normal mode by pressing  and  keys simultaneously.

# Adjusting the machine speed at the end of sewing

## CAUTION

The power is on while the data is entered. Therefore, the machine could start unexpectedly. Great care should be taken in entering the data.

<Normal mode>



1. Call up program mode "P" by pressing and keys simultaneously for more than 2 seconds.

2. The display on the left appears.

3. Select function parameter  $n$  by pressing key 5 times.

4. The display on the left appears.

5. Enter the machine speed with , , and keys.

Enter the fourth digit with key.

Enter the third digit with key.

Enter the second digit with key.

Enter the first digit with key.

Every time each key is pressed, the number changes with 0 to 9.

Adjustable in the range of 0 to 2999 rpm.

Factory-set value: 2000

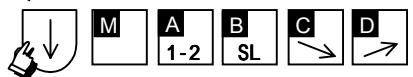
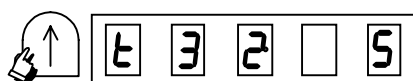
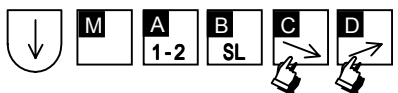
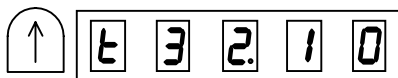
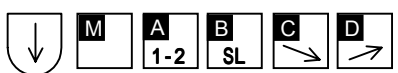
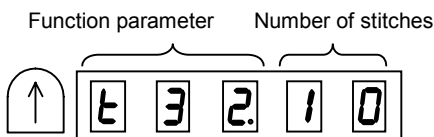
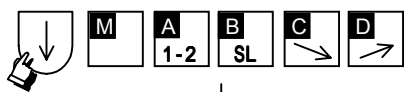
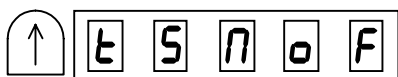
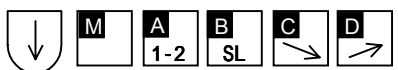
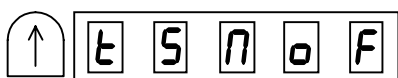
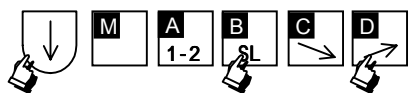
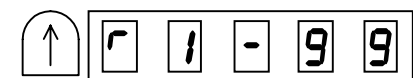
6. Return to the normal mode by pressing and keys simultaneously.

# Adjusting the stitch counter for the air blower for uncurling

## CAUTION

The power is on while the data is entered. Therefore, the machine could start unexpectedly. Great care should be taken in entering the data.

<Normal mode>



1. Call up program mode "S" by pressing , and keys simultaneously for more than 2 seconds.

2. The display on the left appears.

3. Select function parameter **t32** by pressing key 20 times.

4. The display on the left appears.


5. Enter the number of stitches with key and/or key.  
Enter the first digit with key.  
Enter the second digit with key.

Every time each key is pressed, the number changes with 0 to 9.

Factory-set value: 10

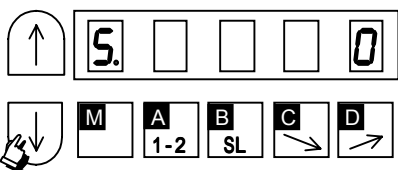
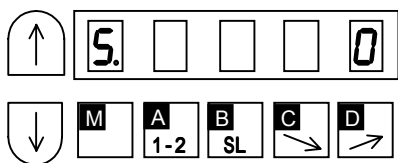
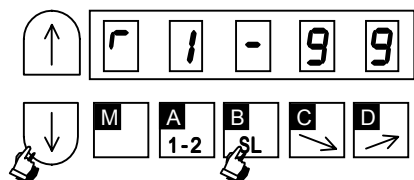
6. Return to the normal mode by pressing and keys simultaneously.

## CAUTION

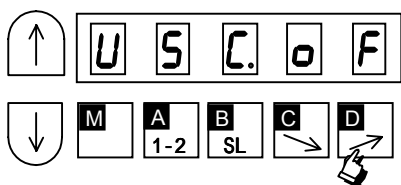
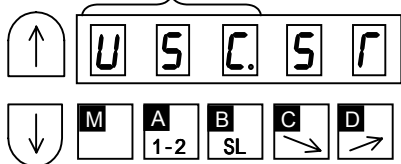
 The power is on while the data is entered. Therefore, the machine could start unexpectedly. Great care should be taken in entering the data.

### 1. To program the output counter



<Normal mode>



Function parameter



<Continued on the following page.>

1. Call up program mode "B" by pressing  and  keys simultaneously for more than 2 seconds.

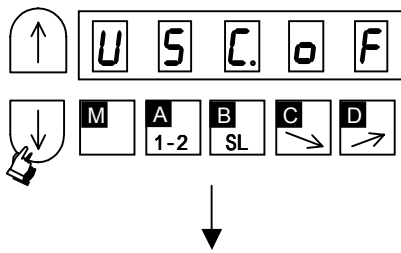
2. The display on the left appears.

3. Select function parameter **USC.** by pressing  key 6 times.

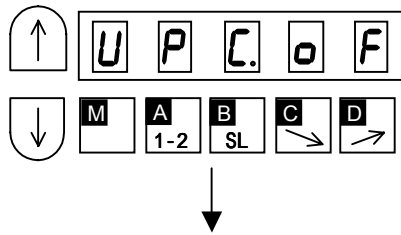
4. The display on the left appears.

5. Press  key.

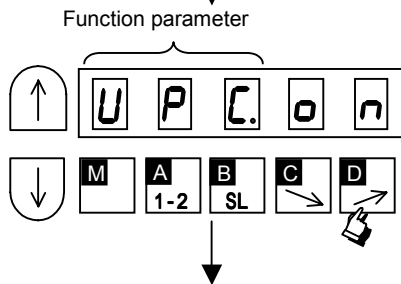
# Adjusting the output counter



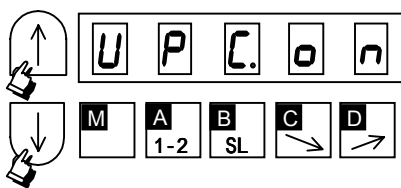
6. Select function parameter **UPC.** by pressing key twice.



7. The display on the left appears.



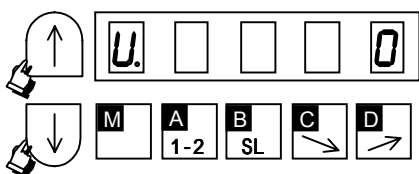
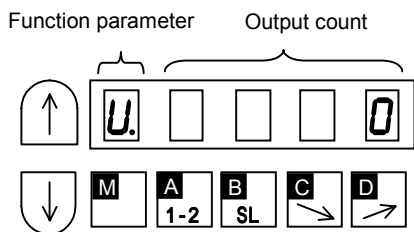
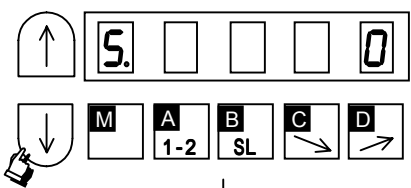
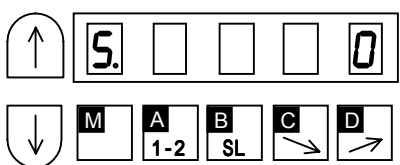
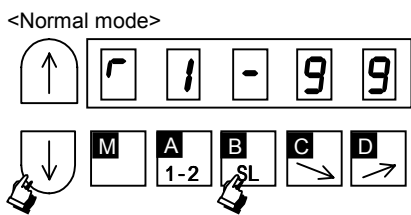
8. Press key.



9. Return to the normal mode by pressing and keys simultaneously.

# Adjusting the output counter

## 2. To show the output on the display



1. Call up program mode "B" by pressing and keys simultaneously for more than 2 seconds.

2. The display on the left appears.

3. Select function parameter **U.** by pressing key 4 times.

4. The display on the left appears. Then entering is completed.  
To show "0" or to correct the number on the counter, press , , and/or key.

Enter the fourth digit with key.

Enter the third digit with key.

Enter the second digit with key.

Enter the first digit with key.

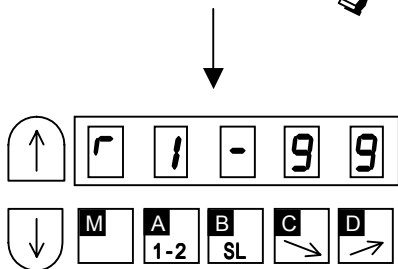
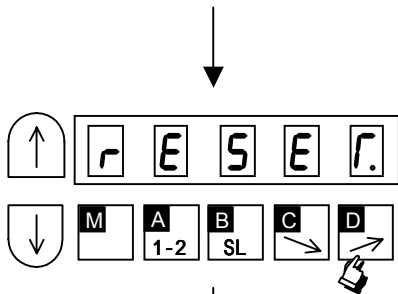
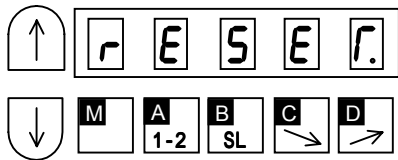
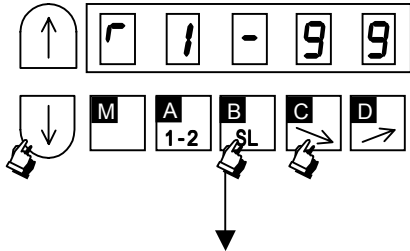
Every time each key is pressed, the number changes with 0 to 9.

5. Return to the normal mode by pressing and keys simultaneously.

## ⚠ CAUTION

⚠ The power is on while the data is entered. Therefore, the machine could start unexpectedly. Great care should be taken in entering the data.

<Normal mode>



1. Call up program mode "R" by pressing , and keys simultaneously for more than 2 seconds.

2. The display on the left appears.

3. Press for more than 2 seconds.

4. The display automatically returns to the normal mode. Entering is completed.



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The description in this INSTRUCTION is subject to change without notice.