

ENGLISH

DJ10
INSTRUCTION MANUAL

INTRODUCTION

In regard to the M900/DJ, it is important to carefully study the following Instruction Manuals on PEGASUS' website and fully understand the contents.

- M900/DJ TO USE THE MACHINE SAFELY
- M900/DJ INSTRUCTIONS

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1. SPECIFICATION

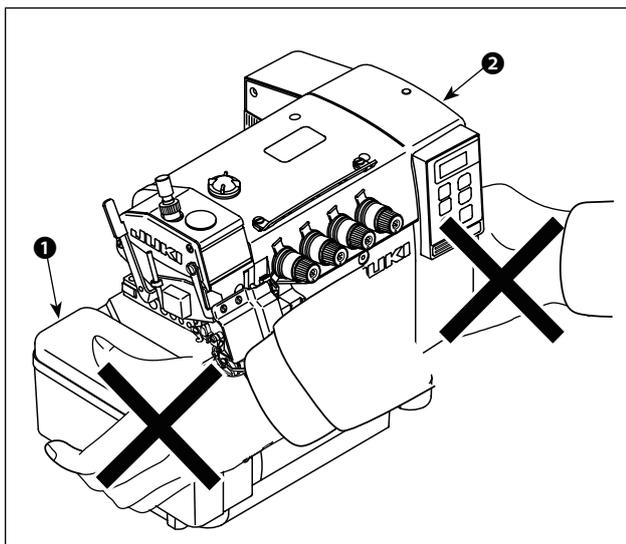
1-1. Specifications of the control box

Rated voltage	Single phase 220 to 240V	Single phase 220 to 240V (type EU)	
Frequency	50Hz/60Hz	50Hz/60Hz	
Operating environment	Temperature : 0 to 35°C Humidity : 90% or less	Temperature : 0 to 35°C Humidity : 90% or less	
Rated Input	330VA	315VA	

2. INSTALLATION

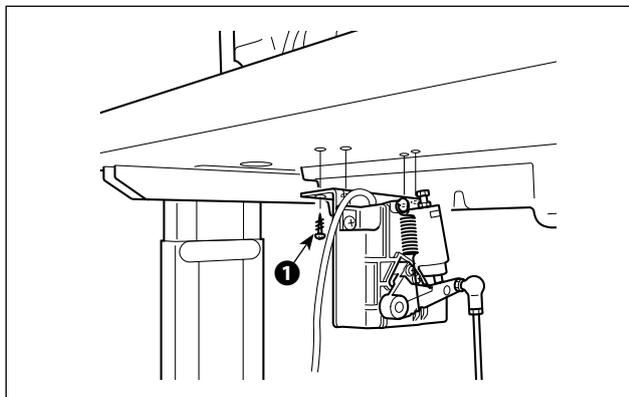
WARNING :

- Machine installation should only be carried out by a qualified technician.
- Contact your dealer or a qualified electrician for any electrical work that may need to be done.
- The sewing machine weighs 30.5 kg. The installation should be carried out by two or more people.
- Do not connect the power cord until installation is complete. The machine may operate if the treadle is depressed by mistake, which could result in injury.
- Use both hands to hold the machine head when tilting it back or returning it to its original position. If only using one hand, the weight of the machine head may be too heavy to hold, and may cause human physical injuries.
- To protect against possible personal injury due to abrupt start of the machine, be sure to start the following work after turning the power off and ascertaining that the motor is at rest.

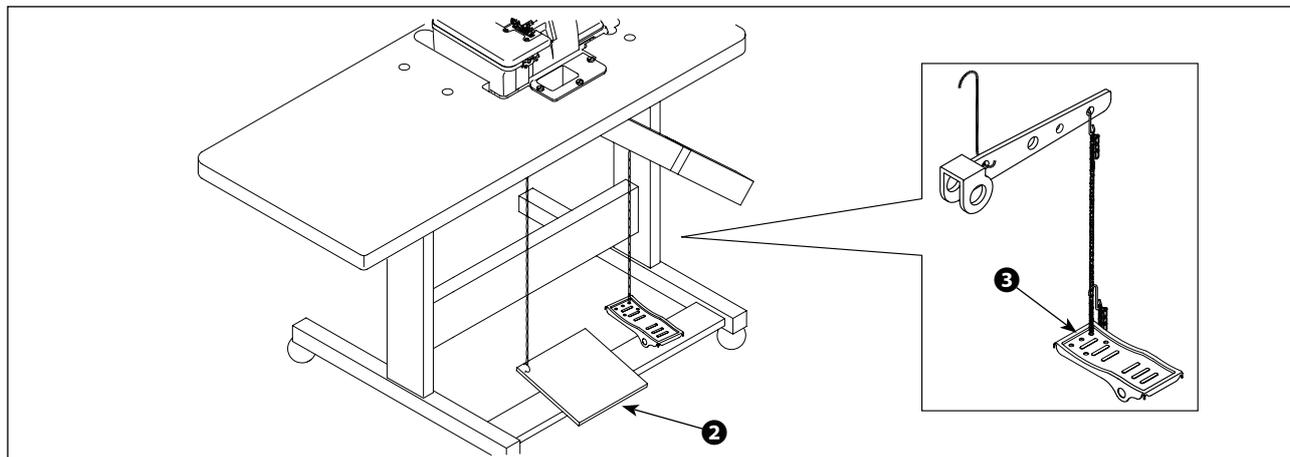


1. After unpacking, do not carry the sewing machine holding the lower section of cloth plate cover ① .
2. Do not hold the bottom section of the electrical box cover ② .

2-1. Installing the pedal sensor



- 1) Install the pedal sensor to the table with mounting screws ① supplied with the unit. It is necessary to install the pedal sensor at such a position that the connecting rod is perpendicular to the table.
- 2) After the completion of installation of the pedal sensor on the table, place the sewing machine head on the table.



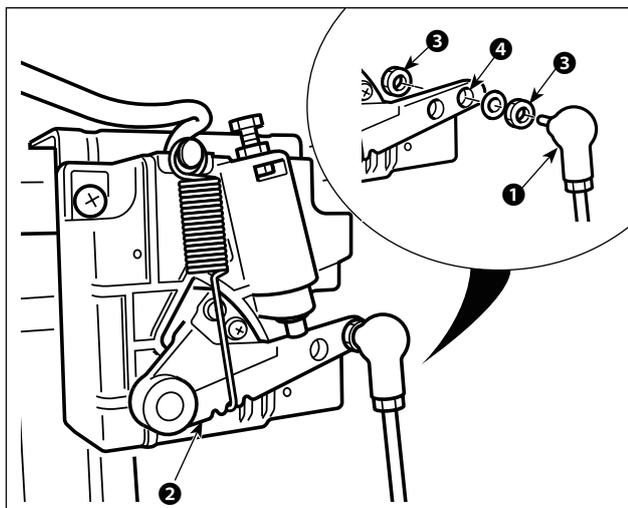
- 3) Assemble the motor starting pedal ② to the left side, and the presser foot pedal ③ to the right side.

2-2. Attaching the connecting rod



WARNING :

To protect against possible personal injury due to abrupt start of the machine, be sure to start the following work after turning the power off and a lapse of 5 minutes or more.



Fix connecting rod ① to installing hole ④ of pedal lever ② with nut ③ .

2-3. Air piping



WARNING :

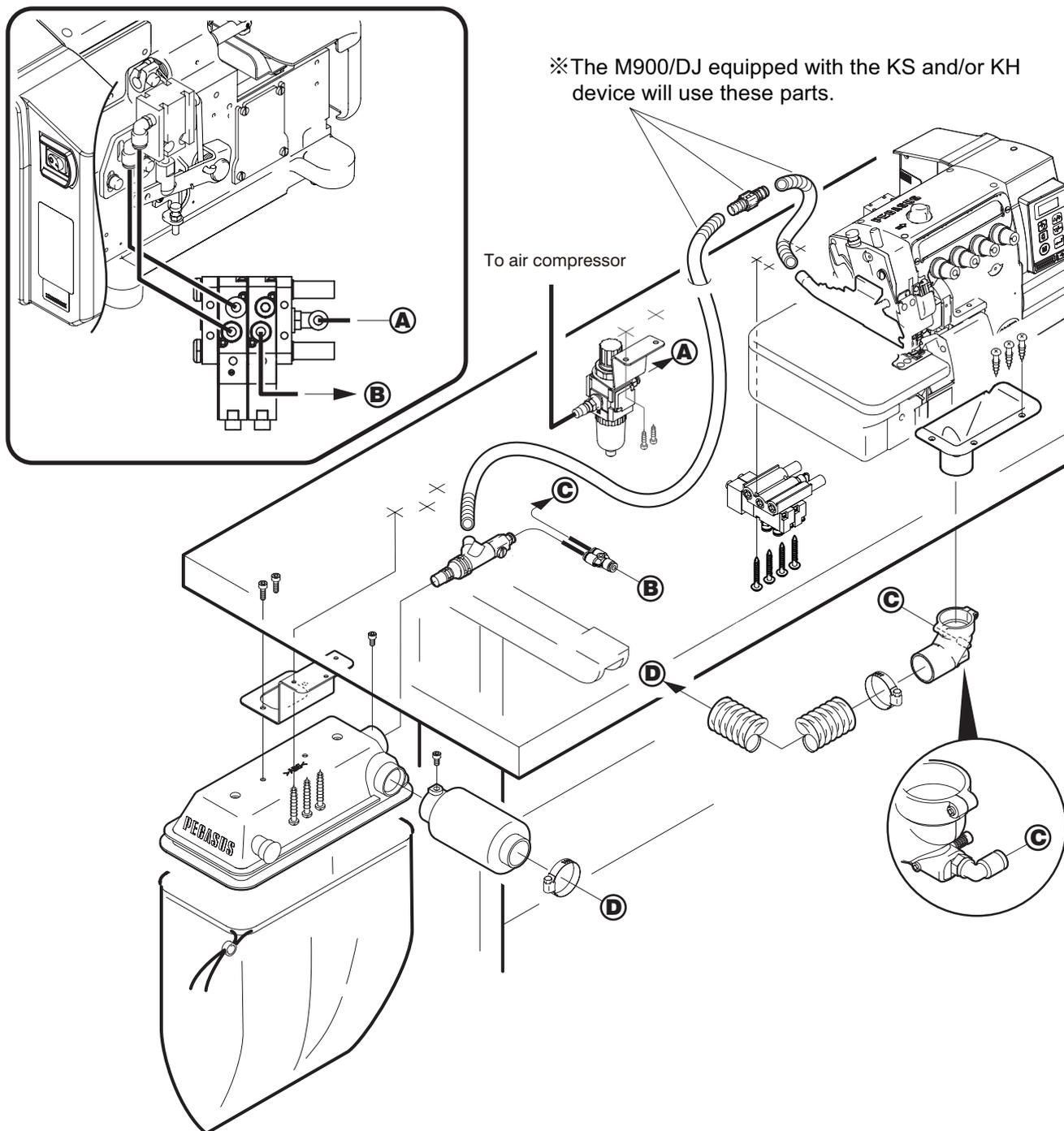
To protect against possible personal injury due to abrupt start of the machine, be sure to start the following work after turning the power off and ascertaining that the motor is at rest.

[DJ10]

- 1) Connect air tubes by referring to the illustration below.



Connect other lines first before connecting to the air source.

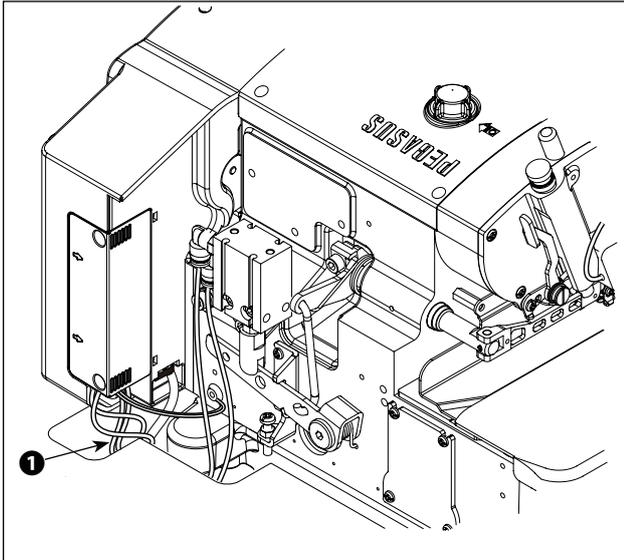


2-4. Connecting the connector

WARNING :

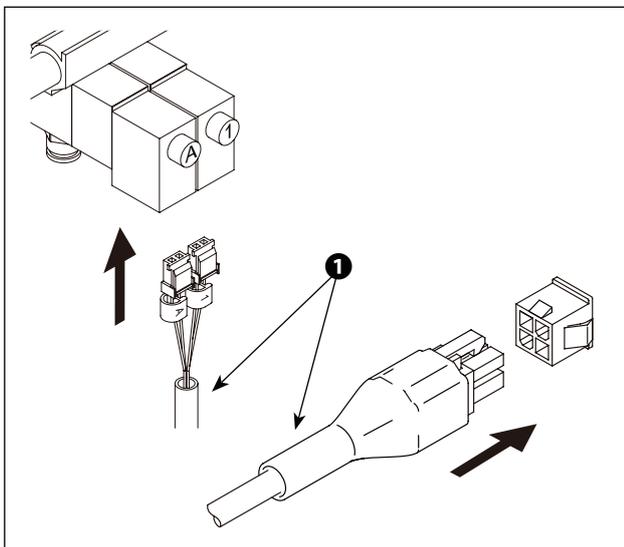


- To protect against personal injury resulting from abrupt start of the sewing machine, be sure to turn the power OFF, unplug the machine and wait for five minutes or more before installing the pedal sensor.
- To prevent damage of device caused by maloperation and wrong specifications, be sure to connect all the corresponding connectors to the specified places. (If any of the connectors is inserted into a wrong connector, not only the device corresponding to the connector can break but also it can start abruptly, inviting the risk of personal injury.)
- To prevent personal injury caused by maloperation, be sure to lock the connector with lock.
- Do not connect the power plug until the connection of cords is completed.
- Fix the cords while taking care not to forcibly bend them or excessively clamp them with staples.
- As for the details of handling respective devices, read carefully the Instruction Manuals supplied with the devices before handling the devices.



1. Do not insert the power plug into the wall outlet.
2. Check to be sure that the power switch is turned OFF.
3. Be sure to fully insert the connectors into the corresponding ports until they are locked.

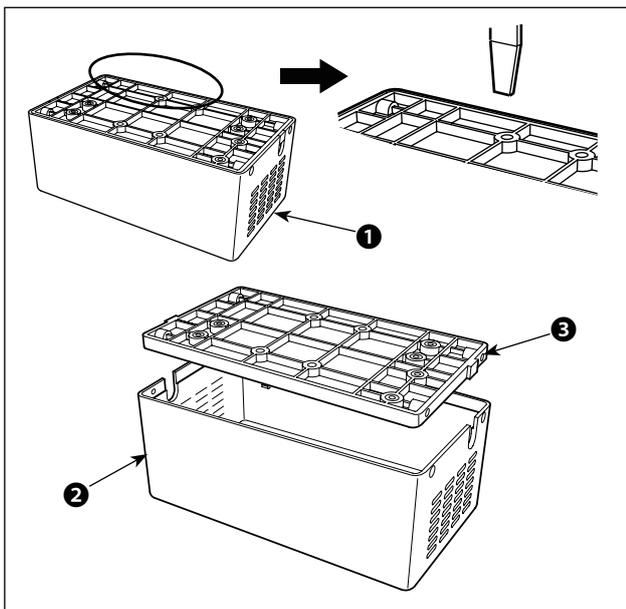
- 1) Draw out unconnected cables ① on the control box to the undersurface of the table.



- 2) Connect cables ① to the corresponding connector under the table.

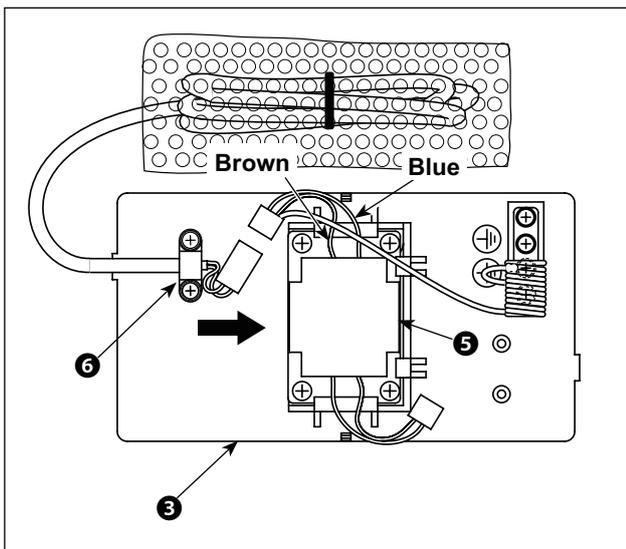
2-5. Installing the reactor box [Only for the EU type models]

* For the EU-type models, install the reactor box that is supplied with the sewing machine.



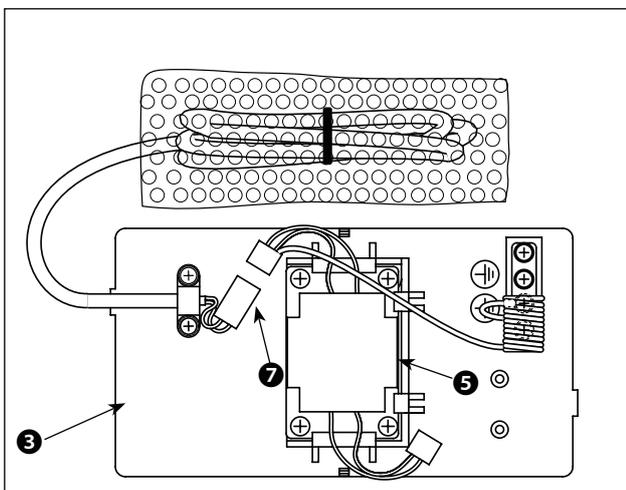
1) Detach reactor cover **2** from reactor box **1** to separate from reactor base asm. **3**.

* The reactor cover can be detached with ease by inserting a tool that has a thin flat tip such as a flat-blade screwdriver between the cover and base.



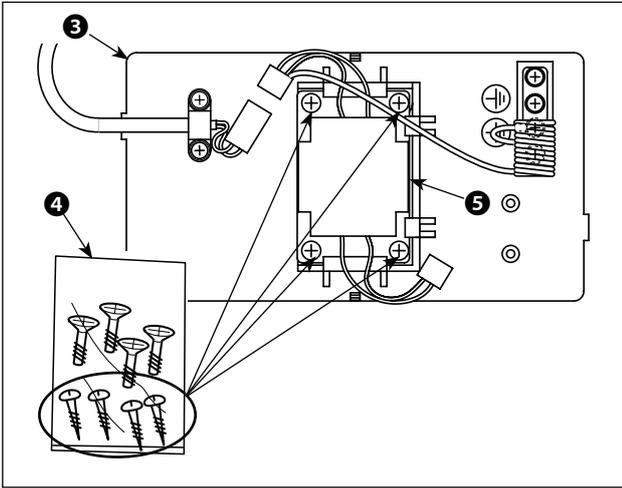
2) Slide reactor **5** in the direction of the arrow to insert into reactor base asm. **3**.

- Caution**
1. When inserting the reactor, detach bundled wire clamp **6** beforehand.
 2. Insert reactor **5** into the reactor base asm. while facing brown and blue lead wires side upward.



3) Connect the connector **7** of the power cord that is fixed to reactor base asm. **3** to the connector of reactor **5**.

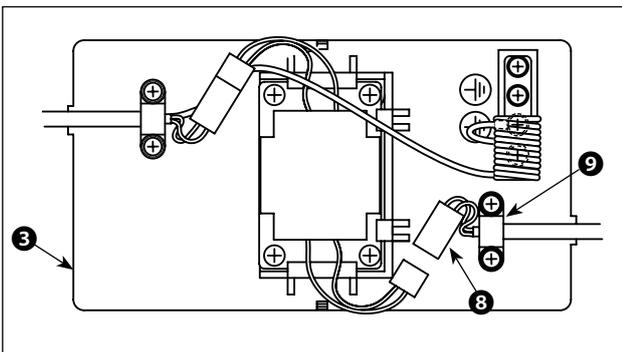
Caution Be sure to insert the former fully into the latter until the connector is locked.



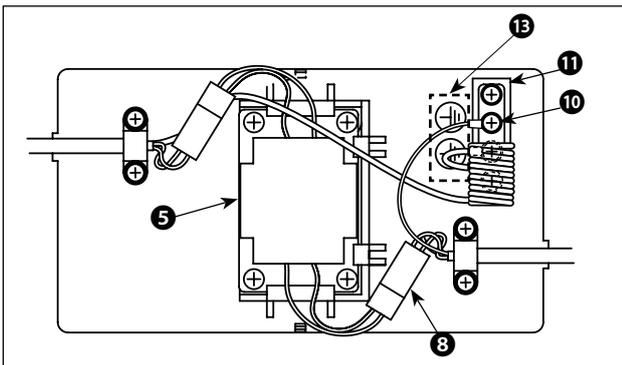
- 4) Take out wood screws (ST4.2 x 25) from screw bag 4 . Secure reactor base asm. 3 and reactor 5 to the undersurface of sewing machine table with the wood screws (at four locations).



Refer to the instruction figure shown in the following step of procedure 10) for the mounting positions of the reactor cover and reactor base asm.



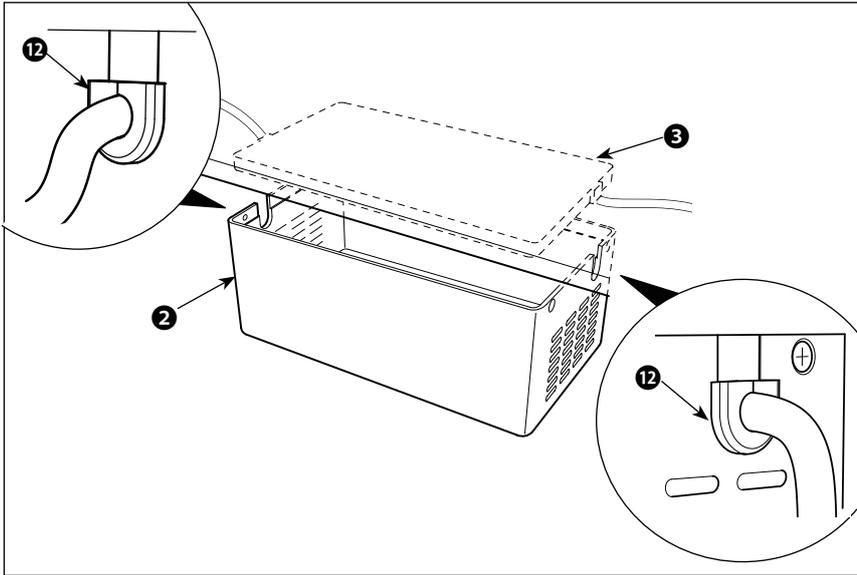
- 5) Secure power cord asm. 8 coming from the electrical box to reactor base asm. 3 with bundled wire clamp 9 .



- 6) Connect the connector of power cord asm. 8 to connector of reactor 5 .
- 7) Secure earth terminal 10 of power cord asm. 8 to earth base 11 with a screw.



Secure the earth terminal to the screw with earth mark 13.

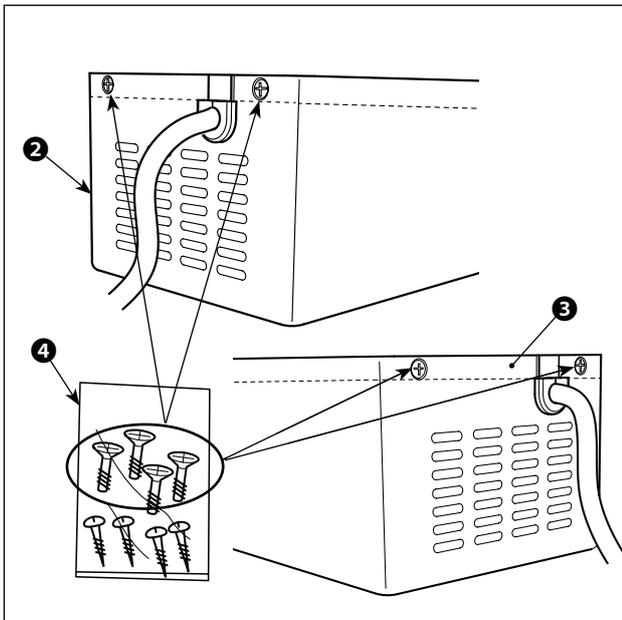


- 8) Fit reactor cover **2** over reactor base asm. **3**.

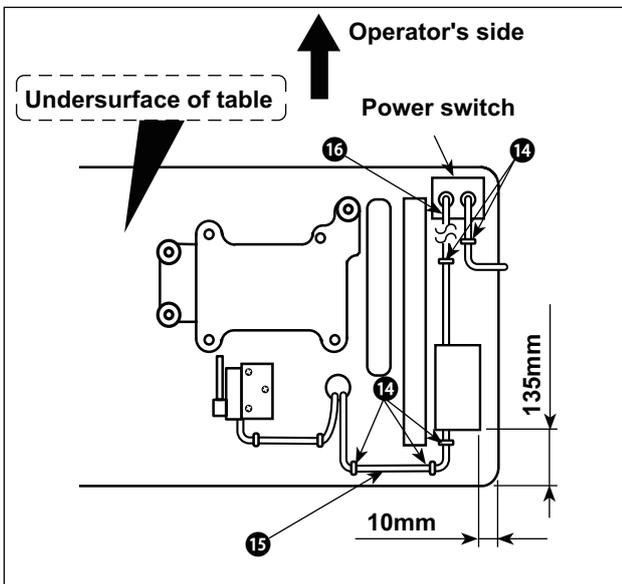


Take care not to allow the cord to be caught under reactor cover **2**.

Pass the power cord through cord bushing **12**. Then, insert the power cord into the slit portion of reactor cover **2** and hold it with reactor base asm. **3**.



- 9) Take out reactor cover fixing screws from screw bag **4**. Secure reactor cover **2** to reactor base asm. **3** with the fixing screws (at four locations).



- 10) Attach AC input cable **15** and output cable **16** on the undersurface of table using supplied staple **14**.

At this time, take care not to cross the input- and output-cables **15** **16**.



AC input cable **15** and output cable **16** should be used with lightly bundled with an accessory cable clip band.

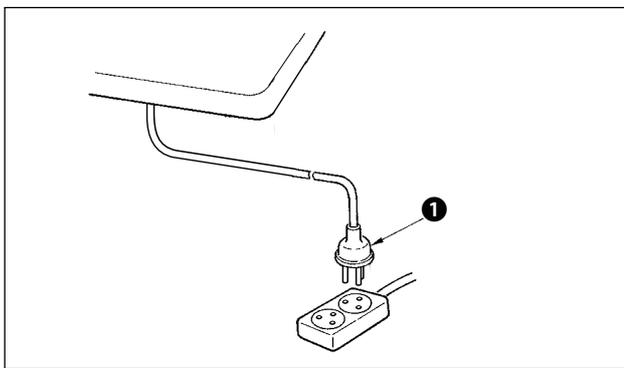
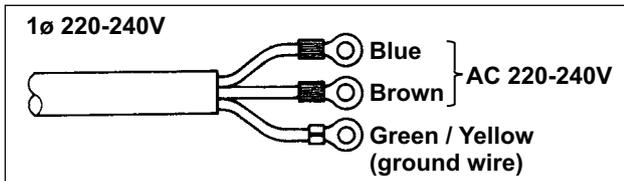
2-6. How to install the power plug



WARNING :

1. Be sure to attach the ground wire (green/yellow) to the specified location (on the ground side).
2. Take care not to allow terminals to come in contact with each other.

[Single phase 220 to 240V]



- 1) Connect the power cord to power plug **1**. Connect the blue and brown wires (1Ø) to the power supply side and the green/yellow wire to the earth side as illustrated in the figure.

1. Be sure to prepare the power plug **1 which conforms to the safety standard.**

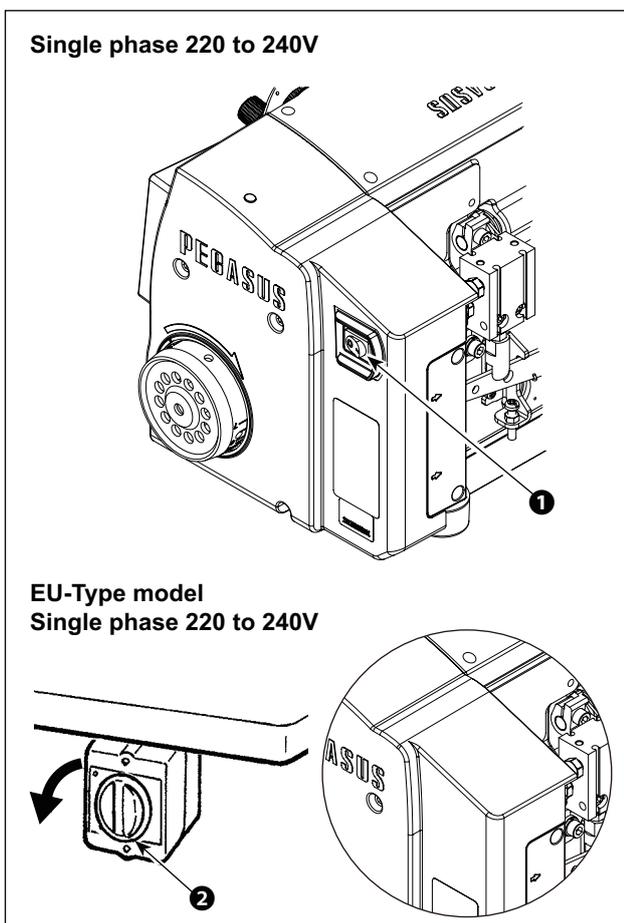
2. Be sure to connect the ground lead (green/yellow) to the grounding side.

- 2) Check that the power switch is in the OFF state. Then, insert the power plug **1** coming from the power switch into the plug receptacle.

In prior to the connection of the power plug **1, re-check the supply voltage specification indicated on the control box.**

* The power plug **1** is different in shape according to the destination of the sewing machine.

3-7. Power switch



- 1) Turning the power ON with the power switch **1****2**. The power to the sewing machine is placed in the ON state when the "I" mark side of power switch **1** (1Ø 220 - 240V type) is pressed; or in the OFF state when the "O" mark side is pressed. The power to the sewing machine is placed in the ON state when the knob of power switch **2** (EU type, 1Ø 220 - 240V type) is turned by 90 degrees counterclockwise; or in the OFF state when it is turned clockwise to return to its home position.

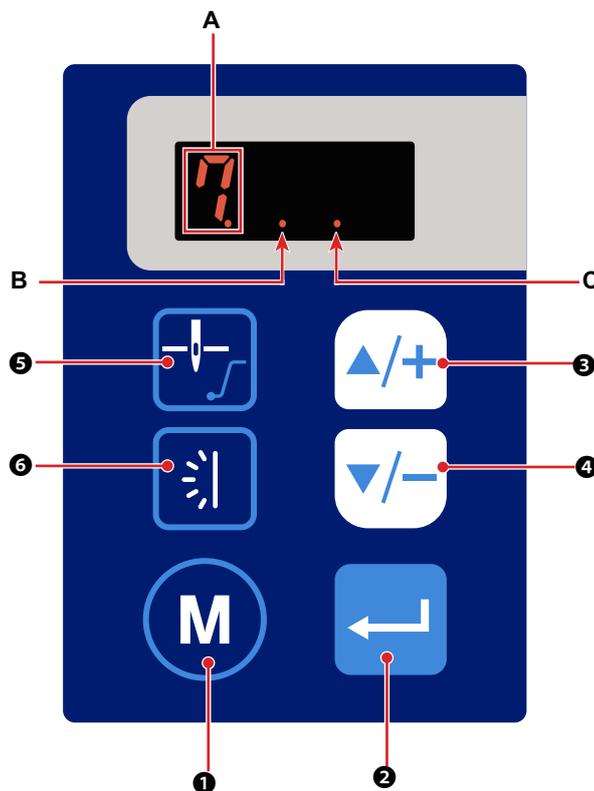
1. Do not strongly tap the power switch by hand.
2. If the power indicator LED on the panel does not light up after having turned ON the power switch **1****2**, immediately turn OFF the power switch and check the supply voltage.

When you want to re-turn ON power switch **1**2** after carrying out the aforementioned steps, it is necessary to wait for five minutes or more after you have turned OFF power switch **1****2**.**

3. Do not place your hand or anything under the needle since the needle bar may automatically move according to the memory switch setting when you turn ON the power to the sewing machine.

3. OPERATION PROCEDURE

3-1. Operation panel



No.		How to press the button	Function
①		Short time	This button is used for changing over the current mode to the function setting mode.
②		Short time	This button is used for confirming the settings you have changed.
③		Short time	This button is used for increasing the current numerical value on the function setting screen.
		Long time	Continuous input is enabled
④		Short time	This button is used for decreasing the current numerical value on the function setting screen.
		Long time	Continuous input is enabled
⑤		Short time	This button is used for changing over the position of the needle bar between the upper and lower positions when the sewing machine stops. Dot B lights up: The needle bar stops at its upper position; Dot B goes out: The needle bar stops at its lower position.
		Long time	Keeping this button held pressed changes over the enable / disable of the soft-start function. Dot C lights up: Enabled / goes out: Disabled
⑥		Short time	This button is used for changing the brightness of the hand illumination LED. Refer to "3-7. Hand LED light" p.19.
		Long time	Keeping this button held pressed changes over the color of the hand illumination LED between the incandescent light color and the light bulb color. Refer to "3-7. Hand LED light" p.19.
	A		This LED repeats ON and OFF in sequence to indicate that the sewing machine is in operation.

3-2. Font comparison table

Arabic figures:

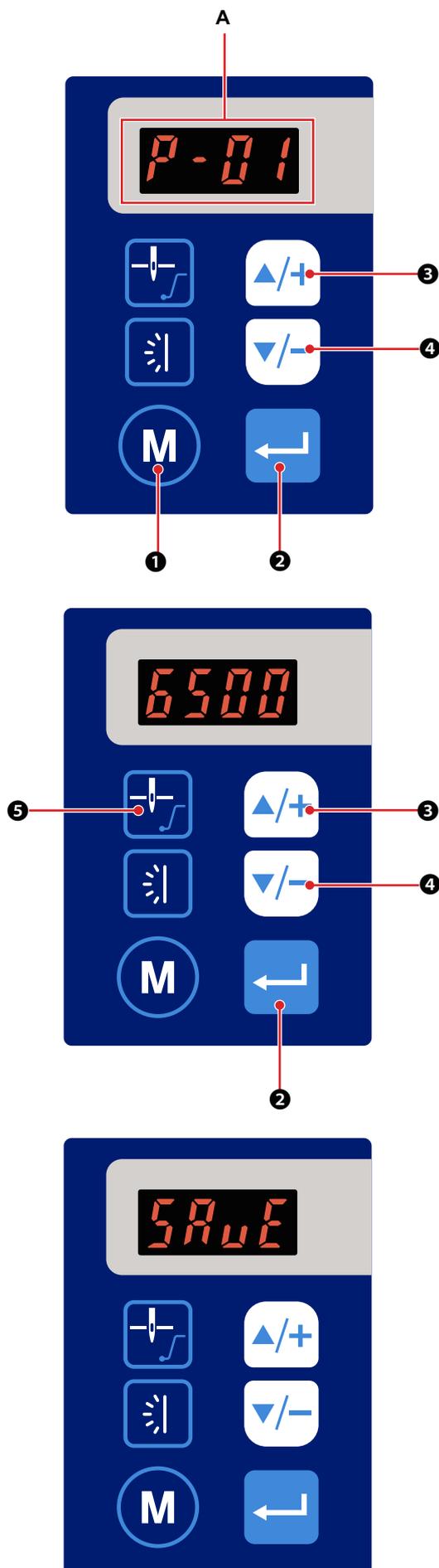
Actual shape of figure	0	1	2	3	4	5	6	7	8	9
Display	٠	١	٢	٣	٤	٥	٦	٧	٨	٩

Arabic figures:

Actual shape of figure	A	B	C	D	E	F	G	H	I	J	K	L	M
Display	ا	ب	ج	د	هـ	ف	غ	ح	ز	ح	ك	ل	م
Actual shape of figure	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
Display	ن	و	پ	ق	ر	س	ت	ث	د	ذ	ز	ح	ز

3-3. Function setting

Functions can be selected and set as described below.



- 1) Press **M** ① .

The display on the display section A is changed over to display the Function setting No. (P- * *).

(The display item that has been previously changed is displayed unless you have turned the power OFF after you changed the setting last time.)

- * If the display on the screen fails to change, carry out the operation procedure 1) again.

Be sure to re-turn ON the power switch after 10 seconds or more have passed after you turned OFF the power switch. If you re-turn ON the power switch immediately after you have turned it OFF, the sewing machine may fail to operate normally. In such a case, be sure to re-turn ON the power switch. Functions can be selected and set as described below.

- 2) When you want to change the function setting number, change it by pressing **▲/+** ③ and **▼/-** ④ .

When you want to change the function setting number, change it by pressing **▲/+** ③ and **▼/-** ④ .

- 3) When you press **↩** ② after you have changed the function setting number, the set value of the relevant function setting number is displayed.

- 4) Change the set value by pressing **▲/+** ③ and **▼/-** ④ .

- 5) Confirm the set value by pressing **↩** ② .

- * If you have changed the set value during sewing, there is a parameter that enable the set value when you depress the back part of the pedal.

- 6) If you keep **⚡** ⑤ held pressed without confirming the set value in step 5), only the set value that is currently selected can be saved to memory. While the set value is being saved, the word "SAVE" is displayed on the screen.

After the set value has been saved, the screen returns to the normal sewing screen.

Refer to "**3-6. Initialization of the function setting data**" p.18 for how to initialize the function setting data.

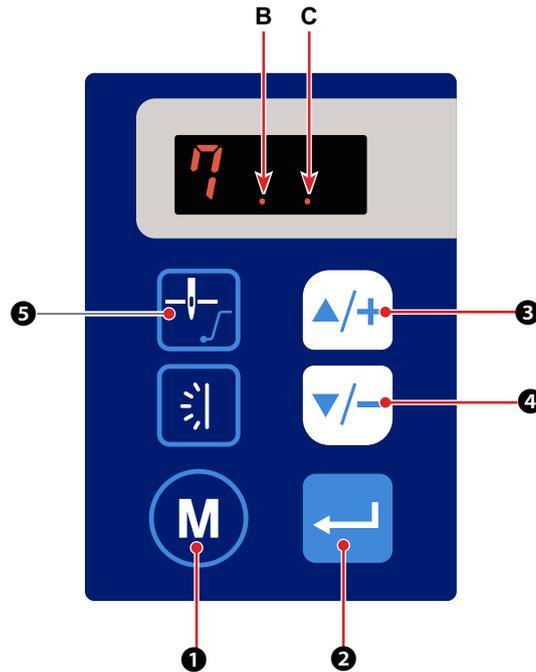
3-4. Function setting table

No	Item	Description	Range	Initial value		
				0 : General	1 : High lift	2 : Extra-high lift
P01	Maximum sewing speed	The maximum sewing speed is limited with the function setting number P41. Regarding the right column (0: General, 1: High lift, 2: Extra-high lift), setting is available with the function setting number P54. (They can be set under the Service Level mode.)	200-P41 (7000)	6500	6000	5500
P02	Stop position selection	This function setting number is used for setting the needle stop position. (0: The needle stops at its upper position 1: The needle stops at its lower position 2: The needle stop position is not specified) If you select "6: Intermittent suction (controlled with the number of stitches)" for the function setting number "P17 Pedal control suction 1 (for the waste)" or "P22 Pedal control suction 2 (for the thread chain)", it will not be allowed to select "2: The needle stop position is not specified" for this function setting number P02.	0-2	0		
P03	Soft start ON / OFF	This function setting number is used for setting ON / OFF of the soft-start function. (0: OFF 1: ON)	0-1	0		
P04	Soft-start sewing speed	This function setting number is used for setting the soft-start sewing speed at the beginning of sewing.	200-1500	400		
P05	Number of soft-start stitches	This function setting number is used for setting the number of stitches to be sewn with the soft-start function at the beginning of sewing.	1-15	2		
P06	Minimum number of revolutions	This function setting number is used for setting the minimum value of the number of revolutions.	200-500	200		
P12	Number of times of manual thread trimming	In the case the manual switch is connected to the sewing machine, this function setting number is used for setting the number of times of thread trimming carried out when the switch is manually pressed.	1-5	1		
P13	Interval of time between continuous manual thread trimming operations	In the case the number of times of manual thread trimming set for "P12" is "2 or more", the interval of time between two consecutive thread trimming operations set for this function setting number "P13" is to be used.	30-990	50		
P15	Presser-foot lifting protection time	This function setting number is used for setting the ON time during which the presser foot is held lifted. Unit [s]	0-60	5		
P16	Presser foot lifting switch	This function setting number is used for setting ON / OFF of the presser foot lifting operation when the back part of the pedal is depressed. 1: The presser foot lifting operation is carried out. 0: The presser foot lifting operation is not carried out.	0-1	1		
P17	Pedal control suction 1 (for the waste)	This function setting number is used for selecting the operation of the device connected to the suction 1. 0: OFF 1: Front suction (P18); 2: Rear suction (P19) 3: Front and rear suction (P18, P19); 4: Long suction; 5: Intermittent suction (controlled by time) (P20, P21); 6: Intermittent suction (controlled by the number of stitches) (P31, P32) In the case "2: The needle stop position is not specified" is selected for "P02 Stop position selection", "6: Intermittent suction (controlled by the number of stitches)" cannot be selected for this function setting.	0-6	1		
P18	Front suction operating time for pedal control suction 1 (for the waste)	In the case "1" or "3" is selected for "P17", the suction 1 is kept in the operating state for the period of time set for this function setting number "P18" when the front part of the pedal is depressed to start sewing. Unit [ms]	0-5000	300		
P19	Rear suction operating time for pedal control suction 1 (for the waste)	In the case "2" or "3" is selected for "P17", the suction 1 is kept in the operating state for the period of time set for this function setting number "P19" when the back part of the pedal is strongly depressed. Unit [ms]	0-5000	300		
P20	Intermittent suction operating time for pedal control suction 1 (for the waste)	In the case "5" is selected for "P17", the suction 1 is kept in the operating state for the period of time set for this function setting number "P20" when the sewing machine carries out sewing. The suction 1 carries out operation and non-operation of suction alternately in repetition. Unit [ms]	0-9000	200		

No	Item	Description	Range	Initial value
P21	Intermittent suction non-operation time for pedal control suction 1 (for the waste)	In the case "5" is selected for "P17", the suction 1 is held in the stopped state for the period of time set for this function setting number "P21" when the sewing machine carries out sewing. The suction 1 carries out operation and non-operation of suction alternately in repetition. In the case this function setting number is set to "0", the sewing machine will carry out the same operation as it carries out when the function setting number "P17" is set to "4: Long suction" regardless of the set value of the function setting number "P20". Unit [ms]	0-9000	200
P22	Pedal control suction 2 (for the thread chain)	This function setting number is used for selecting the operation of the device connected to the suction 2. 0: OFF 1: Front suction (P23); 2: Rear suction (P24); 3: Front and rear suction (P23, P24); 4: Long suction; 5: Intermittent suction (controlled by time) (p25, P26); 6: Intermittent suction (controlled by the number of stitches) (P33, P34) In the case "2: The needle stop position is not specified" is selected for the function setting number "P02 Stop position selection", "6: Intermittent suction (controlled by the number of stitches)" cannot be selected for this function setting number P22."	0-6	1
P23	Front suction operating time for pedal control suction 2 (for the thread chain)	In the case "1" or "3" is selected for "P22", the suction 2 is kept in the operating state for the period of time set for this function setting number "P23" when the front part of the pedal is depressed to start sewing. Unit [ms]	0-5000	300
P24	Rear suction operating time for pedal control suction 2 (for the thread chain)	In the case "2" or "3" is selected for "P22", the suction 2 is kept in the operating state for the period of time set for this function setting number "P24" when the back part of the pedal is strongly depressed. Unit [ms]	0-5000	300
P25	Intermittent suction operating time for pedal control suction 2 (for the thread chain)	In the case "5" is selected for "P22", the suction 2 is kept in the operating state for the period of time set for this function setting number "P25" when the sewing machine carries out sewing. The suction 2 carries out operation and non-operation of suction alternately in repetition. Unit [ms]	0-9000	200
P26	Intermittent suction non-operation time for pedal control suction 2 (for the thread chain)	In the case "5" is selected for "P22", the suction 2 is held in the stopped state for the period of time set for this function setting number "P26" when the sewing machine carries out sewing. The suction 2 carries out operation and non-operation of suction alternately in repetition. In the case this function setting number is set to "0", the sewing machine will carry out the same operation as it carries out when the function setting number "P22" is set to "4: Long suction" regardless of the set value of the function setting number "P25". Unit [ms]	0-9000	200
P27	Manual thread trimming time	In the case the manual switch is connected to the sewing machine, this function setting number is used for setting the time to carry out thread trimming when the manual switch is pressed. Unit [ms]"	0-990	40
P28	Manual thread trimming suction	"In the case the manual switch is connected to the sewing machine, this function setting number is used for selecting the operation of the device connected to the suction 1 and suction 2 when the manual switch is pressed. 0: OFF; 1: Manual suction 1 (for the waste) ON; 2: Manual suction 2 (for the thread chain) ON; 3: Manual suction 1 and manual suction 2 (for the waste and the thread chain) ON"	0-3	3
P29	Manual suction 1 (for the waste) Operating time	In the case the manual switch is connected to the sewing machine and "1" or "3" is selected for "P28", the suction 1 is kept in the operating state for the period of time set for this function setting number "P29" when the manual switch is pressed. Unit [ms]"	0-5000	300
P30	Manual suction 2 (for the thread chain) Operating time	In the case the manual switch is connected to the sewing machine and "2" or "3" is selected for "28", the suction 2 is kept in the operating state for the period of time set for this function setting number "P30" when the manual switch is pressed. Unit [ms]	0-5000	300

No	Item	Description	Range	Initial value
P31	Number of stitches for keeping the intermittent suction in the operating state for pedal control suction 1 (for the waste)	In the case "6" is selected for "P17", the suction 1 is kept in the operating state for the number of stitches set for this function setting number "P31" during sewing. The suction 1 carries out operation and non-operation of suction alternately in repetition.	0-200	50
P32	Number of stitches for keeping the intermittent suction in the stopped state for pedal control suction 1 (for the waste)	In the case "6" is selected for "P17", the suction 1 is kept in the stopped state for the number of stitches set for this function setting number "P32". The suction 1 carries out operation and non-operation of suction alternately in repetition. In the case this function setting number is set to "0", the sewing machine will carry out the same operation as it carries out when the function setting number "P17" is set to "4: Long suction" regardless of the set value of the function setting number "P31".	0-200	50
P33	Number of stitches for keeping the intermittent suction in the operating state for pedal control suction 2 (for the thread chain)	In the case "6" is selected for "P22", the suction 2 is kept in the operating state for the number of stitches set for this function setting number "P33" during sewing. The suction 2 carries out operation and non-operation of suction alternately in repetition.	0-200	50
P34	Number of stitches for keeping the intermittent suction in the stopped state for pedal control suction 2 (for the thread chain)	In the case "6" is selected for "P22", the suction 2 is kept in the stopped state for the number of stitches set for this function setting number "34". The suction 2 carries out operation and non-operation of suction alternately in repetition. In the case this function setting number is set to "0", the sewing machine will carry out the same operation as it carries out when the function setting number "P22" is set to "4: Long suction" regardless of the set value of the function setting number "P33".	0-200	50
P35	Number of pieces	This function setting number is used for counting the number of pieces produced.	0-9999	0
P36	Number of times of thread trimming for sewing one piece of product	This function setting number is used for setting the number of times of thread trimming to be carried out before adding one to the current number of counts of "P35".	1-50	10
P40	N1-N2	N1: Electrical box software version; N2: Operation panel software version		

3-5. Details of setting of the main functions



① Stop position setting (Function setting No. P02)

This function setting number is used for setting the stop position of the needle.

- P02 0: The needle stops at its upper position
- 1: The needle stops at its lower position
- 2: The needle stop position is not specified

The needle stop position can also be changed with the relevant button on the operation panel.

The upper stop position and the lower stop position can be selected alternately by pressing  ⑤.

When the display **B** dot lights up, the needle stops at its upper position. When the display **B** dot goes out, the needle stops at its lower position.

- * In the case the function setting number "P02" is set to "2: The needle stop position is not specified" under the function setting mode, the needle stop position is not specified regardless of ON / OFF of the display **B** dot.
- * In the case "6: Intermittent suction (controlled by the number of stitches)" is selected for the function setting number "P17 Pedal control suction 1 (for the waste)" or "P22 Pedal control suction 2 (for the thread chain)", "2: The needle stop position is not specified" is not allowed to be selected.

② Selection of soft-start function (Function setting No. P03)

- P03 0: Soft start OFF
- 1: Soft start ON

It is also possible to change the speed limit value for the soft start function and the number of stitches to be sewn with the soft start function. (Function setting No. P04 - No. P05)

- P04 Data settable range: 200 - 1500 [sti / min] <100 sti / min>
- P05 Data settable range: 1 - 15 (stitches)

The soft-start function selection can also be changed with the relevant button on the operation panel.

The soft start OFF and ON can be selected alternately by keeping  ⑤ held pressed.

When the display **C** dot lights up, the soft start ON is selected. When the display **C** dot goes out, the soft start OFF is selected.

③ **Selection of the presser foot lifting function (Function setting No. P16)**

This is the function to select whether the presser foot is lifted or not when the back part of the pedal is depressed.

* This selection is enabled in the case the presser foot lifting device is connected to the sewing machine. (Refer to the Engineer's Manual for the detailed connection method.)

P16 0: The presser foot lifting operation is not carried out.

1: The presser foot lifting operation is carried out.

④ **Selection of the suction function (Function setting No. P17 and No. P22)**

This function setting is enabled when the suction device is connected to the suction 1 or 2.

(Refer to the Engineer's Manual for the detailed connection method of the suction 1 and suction 2.)

For each of the devices connected, the suction function can be separately selected.

P17 (for the waste)	0: Suction OFF 1: Front suction (P18) 2: Rear suction (P19) 3: Front and rear suction (P18, P19) 4: Long suction 5: Intermittent suction (controlled by time) (P20, P21) 6: Intermittent suction (controlled by the number of stitches) (P31, P32)	P22 (for the thread chain)	0: Suction OFF 1: Front suction (P23) 2: Rear suction (P24) 3: Front and rear suction (P23, P24) 4: Long suction 5: Intermittent suction (controlled by time) (P25, P26) 6: Intermittent suction (controlled by the number of stitches) (P33, P34)
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* In the case "2: The needle stop position is not specified" is selected for the function setting number "P02 Stop position selection", "6: Intermittent suction (controlled by the number of stitches)" cannot be set.

⑤ **Selection of the manual thread trimming function (Function setting No. P12 and No. P28)**

This selection is enabled in the case the manual switch is connected to the sewing machine.

(Refer to the Engineer's Manual for the detailed connection method of the manual switch.)

The number of times of manual thread trimming can be selected.

P12 Setting range: 1 - 5 times

In addition, the suction function at the time of manual thread trimming can be selected.

P28 0: Suction OFF

1: The device connected to Suction 1 (for the waste) is operated

2: The device connected to Suction 2 (for the thread chain) is operated

3: Both devices connected to Suction 1 and Suction 2 are operated

(Refer to the Engineer's Manual for the detailed connection method of the suction.)

⑥ **Production number counting function (Function setting No. P35 and P36)**

This is the function to count the number of pieces produced.

P35 Number of pieces: 0 - 9999 pieces

In addition, the number of times of thread trimming to be carried out before adding one to the count number can be set.

P36 Setting range: 1 - 50 times

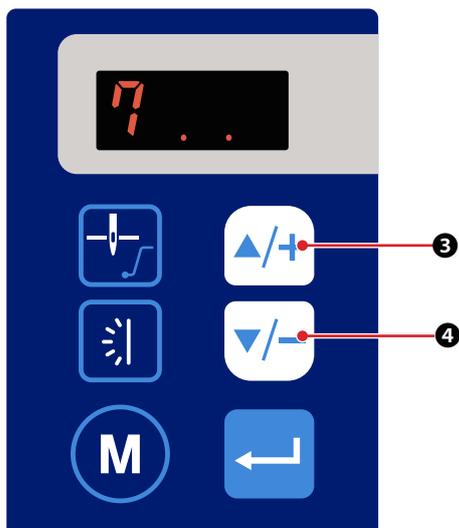
It is possible to carry out the sewing while the number of pieces is displayed.

If you want to reset the number of pieces to "0", keep  5 held pressed. The number of pieces pro-

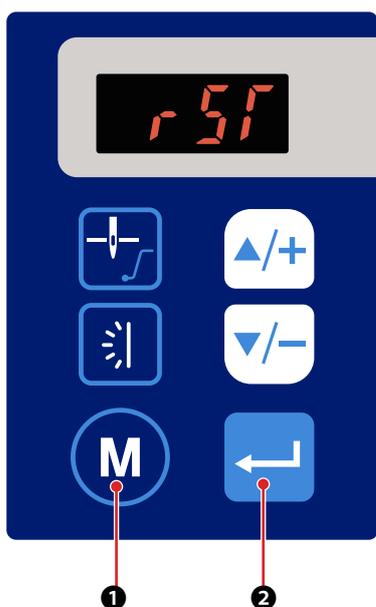
duced can be increased or decreased by pressing  3 or  4.

3-6. Initialization of the function setting data

The function setting data you have changed arbitrarily can be stored in memory. If you change the data afterward, it can be returned to the aforementioned data that you have stored in memory.



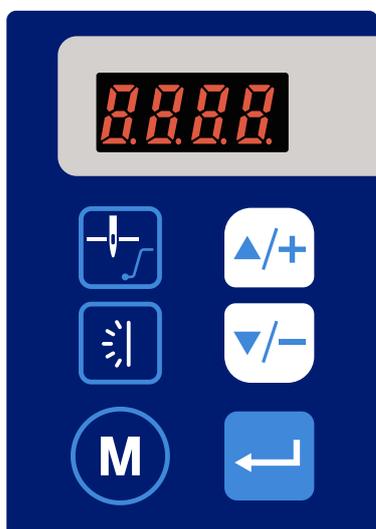
- 1) The initialization screen is displayed by keeping  **3** held pressed for five seconds in the normal sewing state or by turning ON the power to the sewing machine while pressing  **3** and  **4** simultaneously.



- 2) In the case you have kept  **3** held pressed for a long time to display the initialization screen, all of the set values can be initialized to those you have stored in memory as described in **"3-3. Function setting" p.12** by pressing  **2** on the initialization screen.

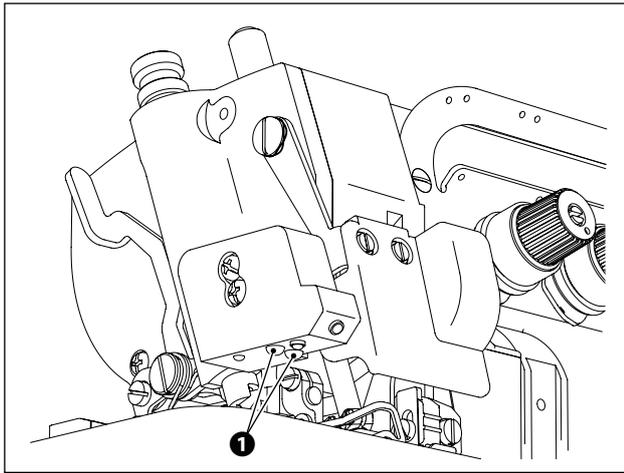
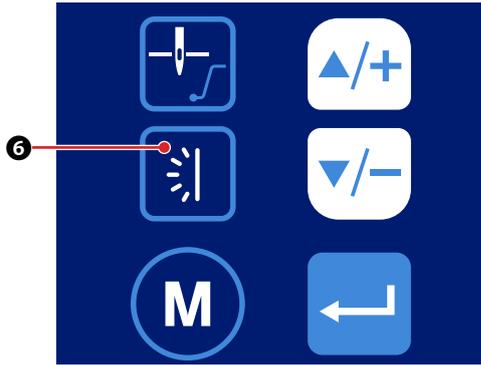
In the case you have turned the power ON by pressing  **3** and  **4** simultaneously, the set values will be reset to the factory-set initial values at the time of shipment. In this case, the set values you have stored in memory as described in **"3-3. Function setting" p.12** will also be initialized to the factory-set values.

Initialization can be cancelled by pressing  **1**.



- 3) During the initialization, the full-screen is displayed. After the completion of the initialization, the screen returns to the normal sewing-state screen.

3-7. Hand LED light



Brightness of hand LED light ① can be changed by pressing  ⑥ . When you keep  ⑥ held pressed for a long time, the light adjustment function is changed over to the color temperature changing function. In this state, the color temperature can be changed by pressing  ⑥ .

If you wait for three seconds without pressing any button, the color temperature changing function will be automatically returned to the light adjustment function.

Brightness / color temperature changing method is as shown in the tables given below.

(Values [%] in the table only provide reference data that helps clarify the explanation.)

*** If you want to change the color temperature, change it when you select the light adjustment (dimming) step from five different steps (1 - 5).**

Color temperature		
Steps	White [%]	Yellow [%]
0	100	0
1	90	10
2	80	20
3	70	30
4	60	40
5	50	50
6	40	60
7	30	70
8	20	80
9	10	90
10	0	100

↑

Short time

Light adjustment (Dimming)	
Steps	Intensity [%]
0	0
1	20
2	40
3	60
4	80
5	100

←

Long time

→
Automatic restoration after waitig for three seconds

↑

Short time

3-8. About the USB

WARNING :



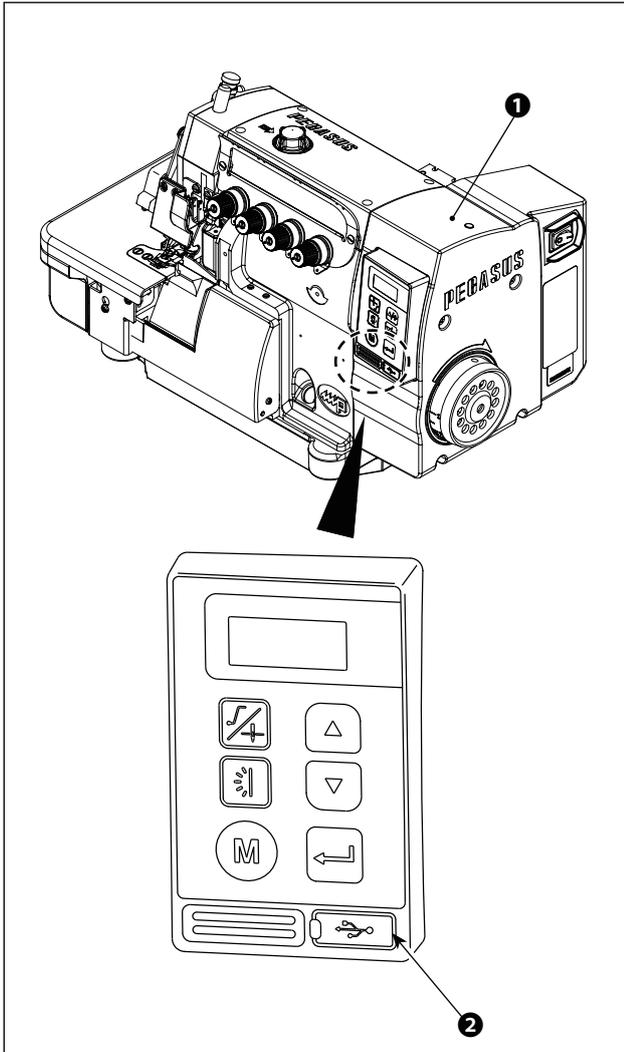
The device to be connected to the USB port should have the rated current value or less as shown below.

If any device rated current value of which is higher than the rated current value, the main body of the sewing machine or the USB device connected can be damaged or malfunction.

Rated current value of the USB port

USB port on the electrical box side: Maximum rated current value of 1 A

[Insertion position of the USB thumb drive]



A USB connector is provided for electrical box **1** .

To use a USB thumb drive, remove connector cover **2** and insert the USB thumb drive into the USB connector.

* In the case a USB thumb drive is not used, the USB connector should be protected with connector cover **2** without exceptions.

If dust or the like enters the USB connector, a failure can be caused.

4. ERROR CODE LIST

4-1. Error code list

Error code	Description
E01	Overvoltage error This error code is displayed when the alternating-current voltage exceeds 317 V - 325 V.
E02	Low voltage error This error code is displayed when the alternating-current voltage drops below 170 V.
E03	Communication fault between the operation panel and the electrical box
E05	Pedal signal fault
E07	Lock error This error is automatically reset when the pulley is turned.
E09	Upper stop position cannot be found during operation.
E14	Encoder signal or hall signal is not normal.
E15	Hardware overcurrent signal (fault signal)
E19	Electrolytic capacitor connection error
E21	The operation panel PCB has re-started

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