First Edition: 12 February 2019

SERVICE MANUAL & PARTS LIST

MODEL: J30

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WHAT TO DO WHEN

Condition	Cause	How to fix	Reference
1. Skipping Stitches	 Needle is not inserted properly. Needle is bent or worn. Incorrectly threaded. Needle or thread are inappropriate for the fabric being sewn. Sewing on stretch fabric. Inappropriate needle bar height. Inappropriate needle to hook timing. Inappropriate needle to hook clearance. 	Insert the needle properly. Change the needle. Rethread. Use the recommended sewing needle and thread. Use a HA x #11 blue tip needle. See mechanical adjustment "Adjustment of needle bar height". See mechanical adjustment "Adjustment of hook timing". See mechanical adjustment "Clearance between needle and tip of the rotary hook".	P. 11 P. 10 P. 12
2. Fabric not moving	 Incorrect feed dog height. Feed dog is in down position. Thread on bottom side of fabric is jammed up. Feed dog teeth are worn. 	Adjust the presser bar level to make the pressure stronger. See mechanical adjustment "Feed dog height". Raise the feed dog. Make sure to bring both needle and bobbin threads under the foot when start sewing. Change the feed dog.	P. 13

Condition	Cause	How to Fix	Reference
Breaking upper thread.	Initial sewing speed is too fast.	Start with medium speed.	
illiedu.	2. Thread path is incorrect.	Use the proper thread path.	
	3. Needle is bent or dull.	Replace with a new needle.	
	4. Top tension is too strong.	Adjust top tension correctly.	
	Needle size is inappropriate for fabric.	Use appropriate needle for fabric and thread in use.	
	6. Needle eye is worn.	Change the needle.	
	Needle hole in needle plate is worn or burred.	Repair the hole or replace the needle plate.	
4. Breaking bobbin thread.	Bobbin holder is incorrectly threaded.	Set the bobbin thread correctly.	
uncad.	Too much thread is wound on the bobbin.	Adjust the position of bobbin winder stopper.	
	Lint is stuck inside the bobbin holder.	Clean the bobbin holder.	
	4. Thread quality is too low.	Change to a high quality sewing thread.	
	5. Thread is jamming around the bobbin holder.	Clear out the jamming thread.	
5. Needle breaks	Needle is hitting the needle plate.	See mechanical adjustment "Needle drop position".	P. 9
	2. Needle is bent or worn.	Change the needle.	
	3. Needle is hitting the hook.	See mechanical adjustment "Clearance between needle and tip of the rotary hook".	P. 12
	Fabric is being pulled too strongly while sewing.	Guide the fabric gently while sewing.	

Condition	Cause	How to fix	Reference
6. Noisy operation	Backlash between hook gear and lower shaft gear is too great.	Eliminate the backlash.	
	2. Lower shaft gear is loose.	Eliminate the looseness.	
	3. Inappropriate belt tension.	See part removal and replacement "driving motor (DC motor)".	P. 29
	4. Not enough oil.	Oil all moving parts.	
	5. Upper shaft gear is loose.	Eliminate the looseness.	
7. Deformation pattern	Inappropriate feed balance.	Adjust the feed balancing screw.	P. 15
	2. Top tension is too strong.	See mechanical adjustment "Top tension".	P. 14

FACE COVER

To remove:

1. Remove the cap and setscrew ① and lift the face cover to disengage the rib on the inside. Remove the face cover ②.

To attach:

2. Follow the above procedures in reverse.



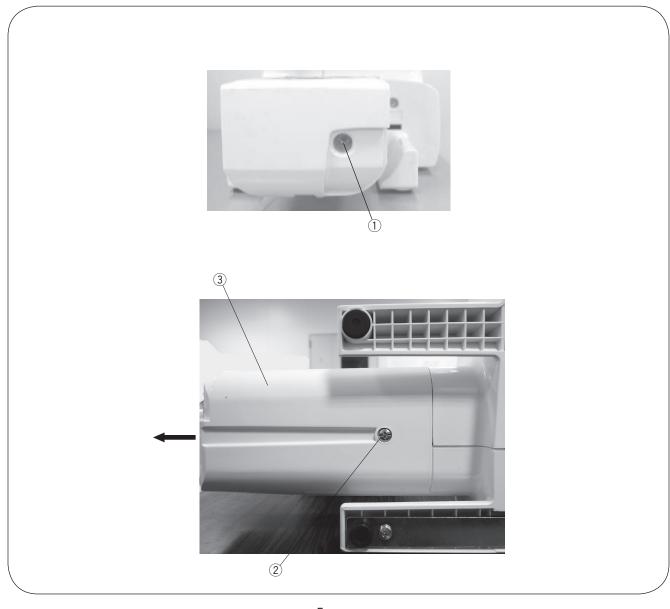
FREE-ARM COVER

To remove:

1. Remove the setscrew ① and ②. Move the free-arm cover ③ to the left. Remove the free-arm cover.

To attach:

Follow the above procedures in reverse.



FRONT COVER

To remove:

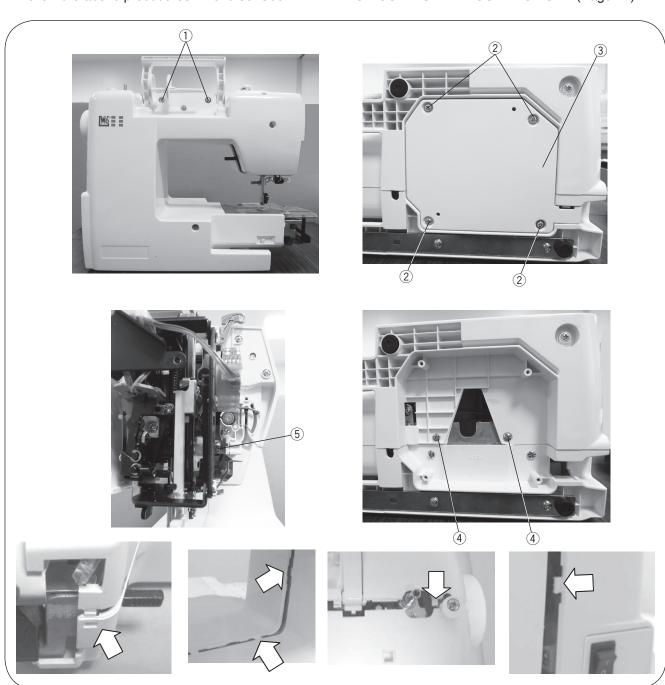
- 1. Remove the face cover and free-arm cover (See page 4 and 5).
- 2. Remove the setscrews ① (2 pcs.).
- 3. Remove the setscrews ② (4 pcs.), back cover ③.
- 4. Remove the setscrews 4 (2 pcs.).
- 5. Loosen the setscrew (5).
- 6. Disengage the front cover and rear cover hooks.
- 7. Remove the front cover.
- 8. Disconnect all the connectors from the circuit board A.

NOTE:

Do not disconnect the connectors by pulling on cord. To disconnect, grasp the connector, not the cord.

To attach:

7. Follow the above procedures in reverse. See "PRINTED CIRCUIT BOARD A CONNECTION". (Page 24)



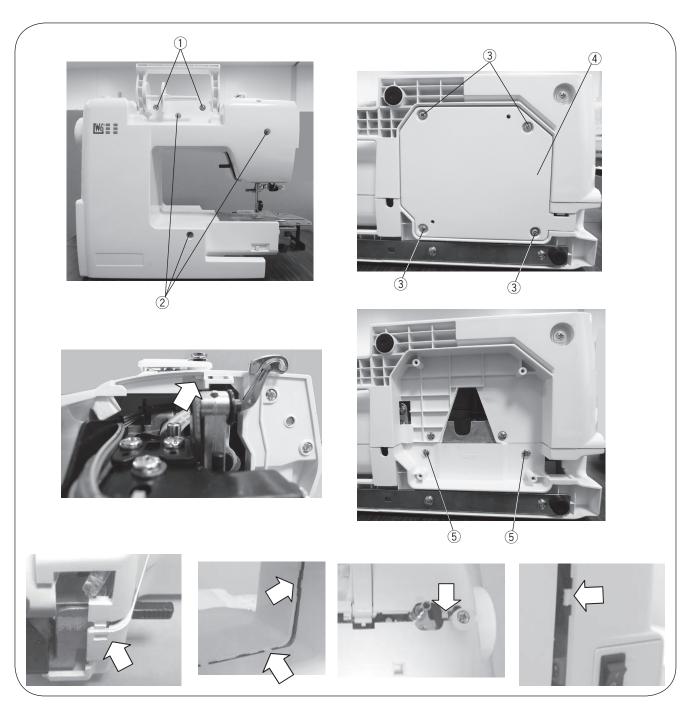
REAR COVER

To remove:

- Remove the face cover and free-arm cover (See page 4 and 5).
 Remove the setscrews ① (2 pcs.) and the setscrews ② (3 pcs.).
 Remove the setscrews ③ (4 pcs.) and back cover ④.
- 4. Remove the setscrews (5) (2 pcs.).
- 6. Disengage the front cover and rear cover hooks.
- 7. Remove the front cover.

To attach:

5. Follow the above procedures in reverse.



PRESSER BAR HEIGHT

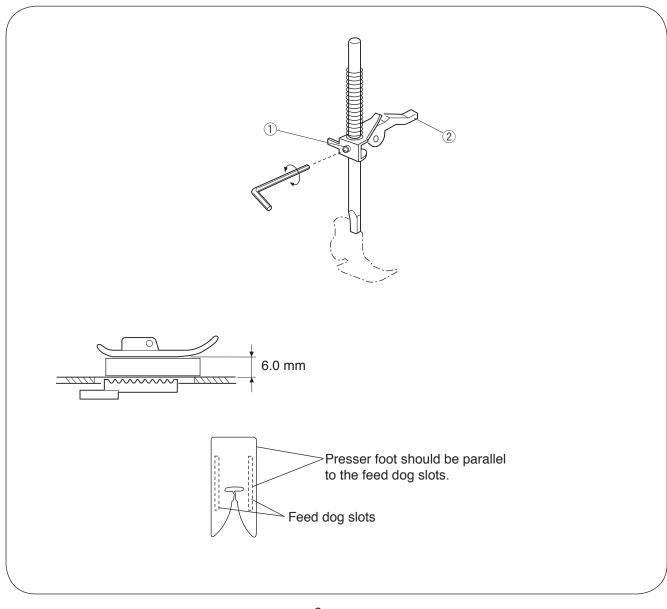
The distance between the bottom of the presser foot in up position and the needle plate should be 6.0 mm.

- 1. Remove the face plate and needle.
- 2. Lower the feed dog below the needle plate.

 Place a block 6 mm thick under the presser foot and lower the presser foot lifter ②.
- 3. Loosen the setscrew ①. Raise the presser foot lifter and tighten the setscrew ① firmly. Attach the needle and face plate.

NOTF:

Make sure that the presser foot should be parallel to the feed dog slots in the needle plate.



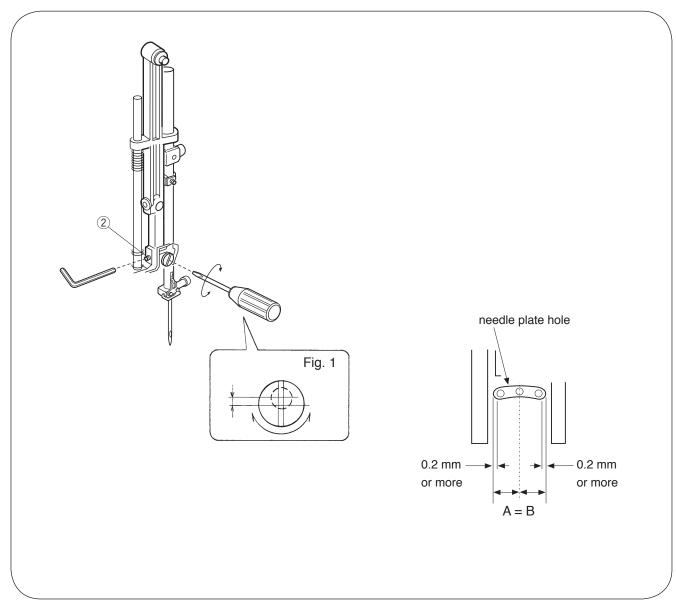
NEEDLE DROP POSITION

Set the stitch pattern to " $\stackrel{\downarrow}{\Leftrightarrow}$ ". The standard needle drop position should be at center of the needle plate hole. Select zigzag stitch " $\stackrel{\gtrless}{\geqslant}$ ", and set the stitch width at "7.0". The clearance between the needle and the edge of the needle hole should be at least 0.2 mm on either side. If not, adjust as follows:

- 1. Turn the power switch off. Remove the face cover. (See page 4.)
- 2. Loosen the hexagonal socket screw 3 x 4 ①. Adjust the needle drop position by turning the eccentric pin. The direction of eccentric pin should be as shown in Fig. 1.
- 3. Attach the face cover.

NOTE:

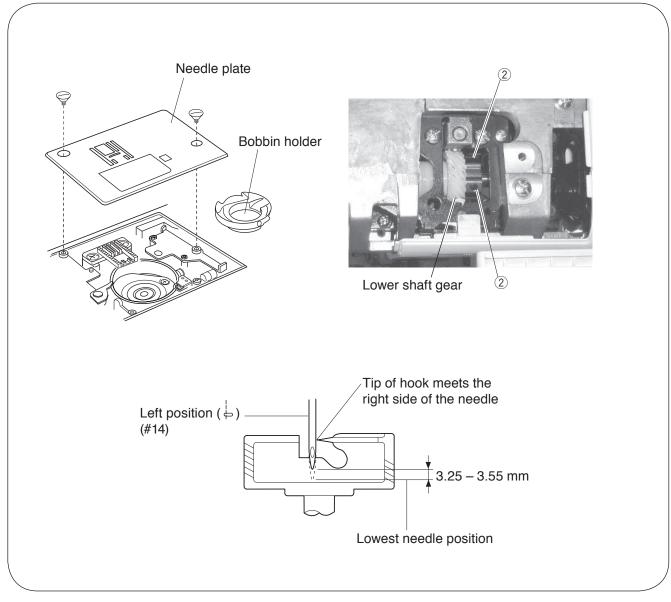
Check the hook timing after this adjustment.



ADJUSTMENT OF HOOK TIMING

The amount of ascending travel of the needle bar from its lowest position to the position ($\stackrel{\downarrow}{\leftarrow}$) where the tip of the rotary hook exactly meets the right side of the needle should be 3.25 to 3.55 mm.

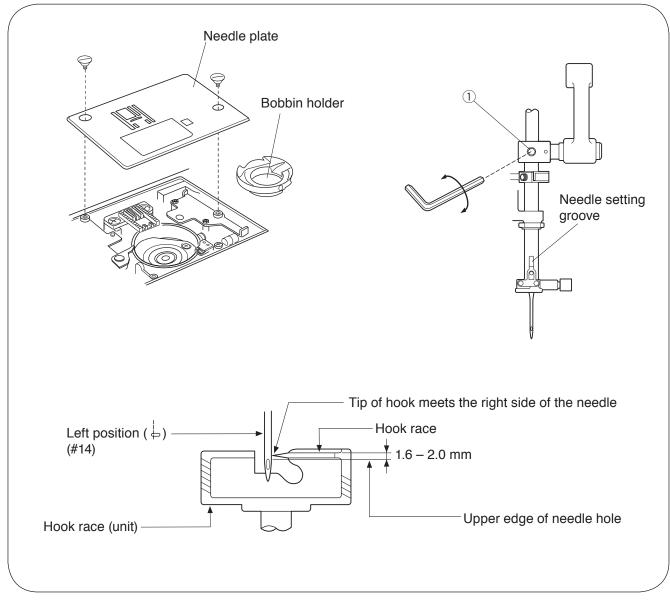
- 1. Remove the needle plate and bobbin holder.
- 2. Turn the power switch on.
- Turn the handwheel toward you to lower the needle at its lowest position.
- 5. Loosen the hexagonal socket screw 2 (2 pcs.).
- 6. Move the needle bar 3.4 mm from the lowest position.
- 7. Turn the lower shaft gear until the tip of hook meets the right side of the needle while holding the handwheel.
- 8. Tighten the hexagonal socket screw ② (2 pcs.).
- 9. Attach the free-arm cover, bobbin holder and needle plate.



ADJUSTMENT OF NEEDLE BAR HEIGHT

Before proceeding with this adjustment, check the hook timing (refer to page 10). The distance between the upper edge of the needle eye and the tip of the hook should be in the range of 1.6 to 2.0 mm when the tip of the hook timing meets right side of the needle in the left needle position () as the needle ascends from its lowest position.

- 1. Remove the needle plate, bobbin holder and face plate.
- 2. Turn the power switch on.
- 3. Select the pattern $\frac{1}{6}$ (left position). Set the zigzag width at 0.
- 4. Turn the handwheel toward you until the tip of hook meets the right side of the needle.
- 5. Loosen the hexagonal socket screw ①.
- 6. Move the needle bar to adjust the needle bar height, and tighten the hexagonal socket screw ①. Be careful not to turn the needle bar.
- 7. Attach the bobbin holder, needle plate and face cover.

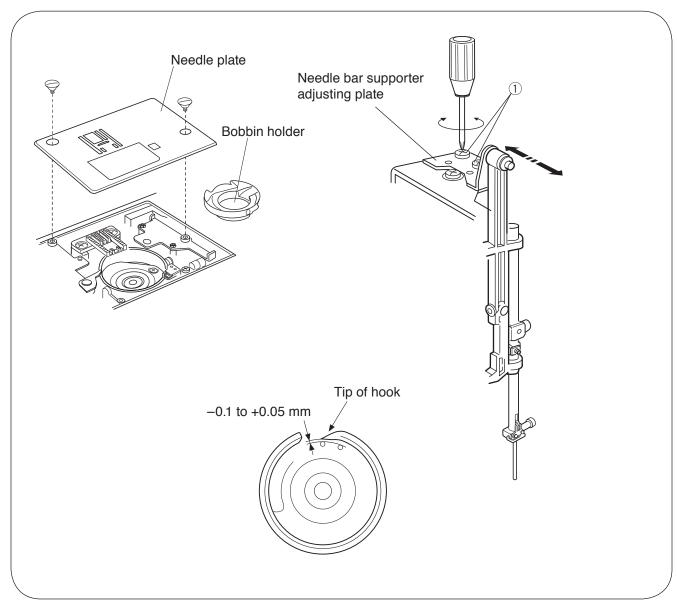


CLEARANCE BETWEEN NEEDLE AND TIP OF THE ROTARY HOOK

* The clearance between the needle and the point of hook should be -0.1 to +0.05 mm.

Adjustment procedure:

- 1. Remove the needle plate and bobbin holder. Attach the master needle. Turn the power switch on and set the zigzag width at maximum.
- 2. Remove the face cover. (See page 4.)
- 3. Loosen the setscrews (1) (2 pcs.).
- 4. Turn the handwheel toward you. Adjust the clearance between the needle and the tip of the rotary hook, by moving the hook base plate up or down, to within –0.1 to +0.05 mm at the left and right needle position.
- 5. Tighten the setscrews (1) (2 pcs.).
- 6. Attach the face cover. Remove the master needle. Attach the bobbin holder and needle pate.
- 7. Check the clearance between the needle and the edge of the needle hole in the needle plate (see page 9).

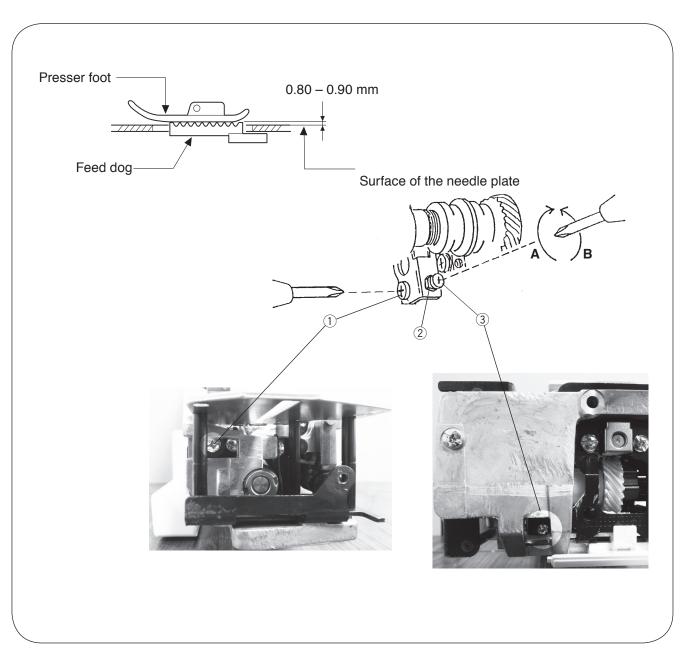


FEED DOG HEIGHT

The highest position of the feed dog should be between 0.80 and 0.90 mm from the surface of the needle plate.

- 1. Lower the presser foot and turn the power switch on.
- 2. Turn the handwheel toward you to set the feed dog at the highest position.
- 3. Remove the free-arm cover. (See page 5.)
- 4. Loosen the setscrew (1) and nut (2).
- 5. Adjust the feed dog height by turning the adjusting screw ③.

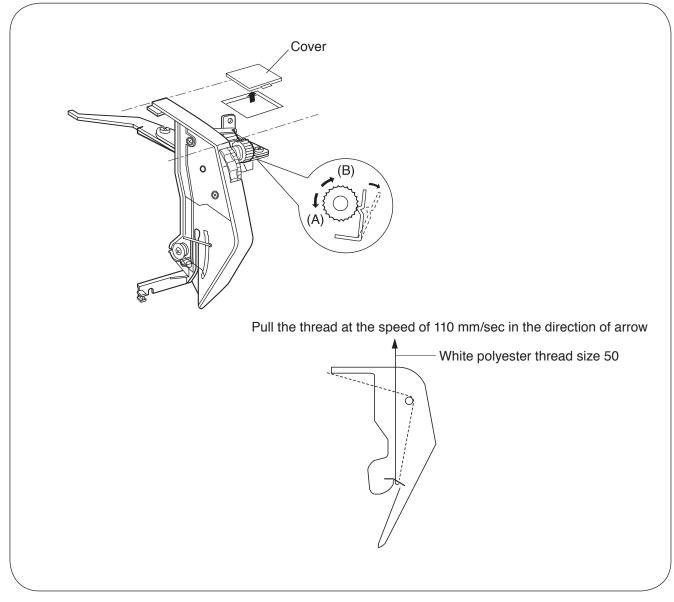
 The highest position of the feed dog should be between 0.80 and 0.90 from the surface of the needle plate.
- 6. Tighten the nut 2 and setscrew 1.
- 7. Attach the free-arm cover.



TOP TENSION

The top tension should be between 65 and 80 g when pulling the thread up in the direction of arrow.

- * Use polyester sewing thread #50 (White).
- * If it is not within the above limit, adjust as follows.
- 1. Set the tension dial "4".
- 2. Remove the face cover and front cover. (See page 4 and 6.)
- 3. Lower the presser foot.
 - If the top tension is too loose, turn the lead screw in the direction (A).
 - If the top tension is too tight, turn the lead screw in the direction (B).
- 4. Check the top tension and attach the cover.



STRETCH STITCH FEED BALANCE

To check:

- Enter the self-diagnostic mode (see below).
 Attach the Satin stitch foot F. Place a fabric under the presser foot. Lower the presser foot.
- 2. Press the locking stitch button to start test sew, and check the results (the standard figure length of 5 pieces of figure 8 is 33-39 mm).
- 3. If stretch patterns are distorted, correct them with the feed balancing dial.

 If stretch patterns are too deformed and cannot be corrected with the feed balancing dial, adjust as follows.

To adjust:

1. Remove the feed balancing dial cover. Turn the dial at standard position as illustrated. Turn the power switch ON.

Select the straight stitch and set the stitch length at "0". Place a fabric under the presser foot. Lower the presser foot. (Do not set bobbin and needle threads)

2. Turn the hexagonal socket screw to the left to loosen it.

Move the gear up (A) or down (B) to adjust the feed.

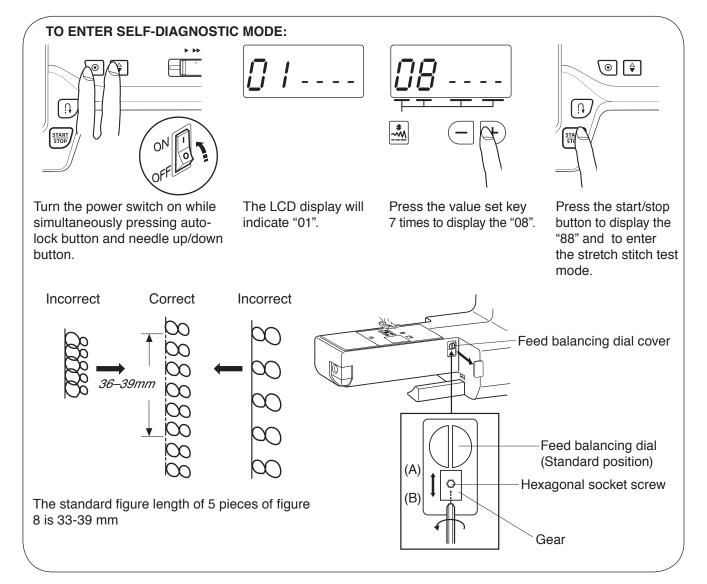
* Do not move the gear right or left when adjusting.

Start the machine and check the movement of the fabric.

Adjust the hexagonal socket screw position (gear position) until the fabric will not be fed with the stitch length setting at "0".

3. Tighten the socket screw and attach the feed balancing dial cover.

Enter the self-diagnostic mode and test sew again. Check that the standard length of 5 pieces of figure 8 is 33-39 mm. If not, turn the feed balancing dial to correct it.



REPLACEMENT AND ADJUSTMENT OF THE NEEDLE THREADER PLATE

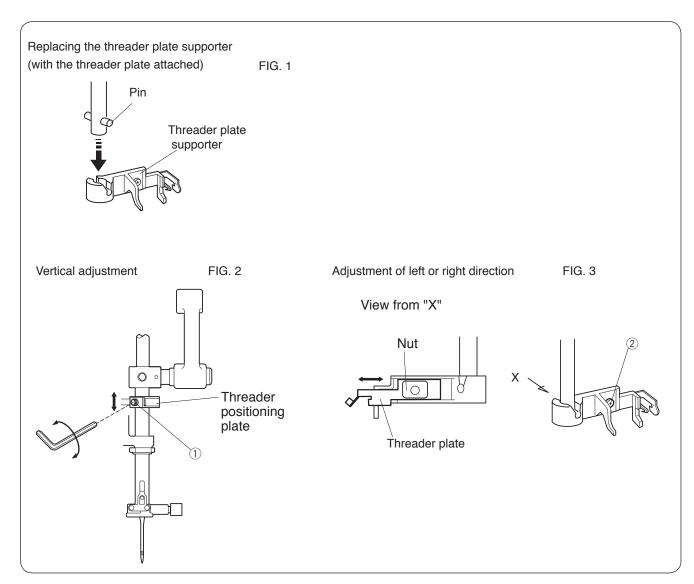
If the hook of the threader plate is damaged, change and adjust the part as follows:

TO CHANGE THE THREADER PLATE:

- 1. Push down the needle threader knob and pull the threader plate supporter down to remove it (see FIG 1).
- 2. To install the needle threader plate, line the groove up with the pin and push it up to snap fit.

TO ADJUST THE THREADER PLATE POSITION:

- 1. If the hook on the threader positioning plate touches the top or bottom side of the needle hole, loosen setscrew ① and adjust the hook position (FIG.2).
- 2. If the hook on the threader plate touches the left or right side of the needle hole, loosen setscrew ② and adjust the hook position (FIG 3).



ADJUSTING BUTTONHOLE LEVER POSITION

TO ADJUST THE BUTTONHOLE LEVER GUIDE:

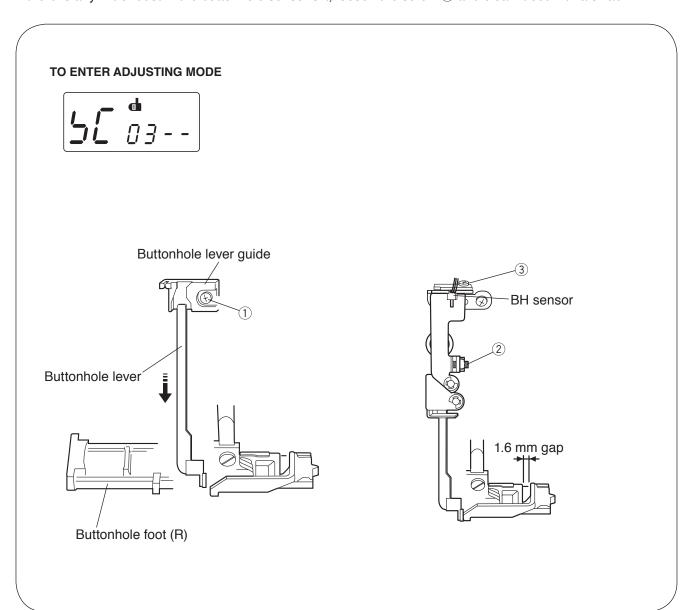
- 1. Enter the diagnostic test of buttonhole sensor mode. (See pages 18 and 19. The LCD should display 03 and BH symbol.)
- 2. Remove the face cover (see page 4) and loosen the setscrew ①.
- 3. Move the buttonhole lever guide so the BH symbol disappear when the buttonhole lever is lowered. Tighten the setscrew.

TO ADJUST THE BUTTONHOLE SENSOR POSITION:

- 4. Attach the buttonhole foot (R).
- 5. Lower the buttonhole lever to its lowest position and open a 1.6 mm gap between the slider and the buttonhole foot.
- 6. Turn the adjusting screw 2 to the left until the LCD display BH symbol.
- 7. Next, turn the adjusting screw to the right until the BH symbol disappears.
- 8. Turn off the power switch.
- 9. Attach the face cover.

NOTE:

If there is any lint or dust in the buttonhole sensor slit, loosen the screw ③ and clean it out with a swab.



Preparation:

- 1. Turn the power switch off.
- 2. Move the bobbin winder spindle to the left.
- 3. Raise the feed dog.
- 4. Set the speed control lever to the left.
- 5. Remove the presser foot and raise the presser foot lifter.
- 6. Turn the hand wheel toward you to raise the needle to its highest position.

NOTE:

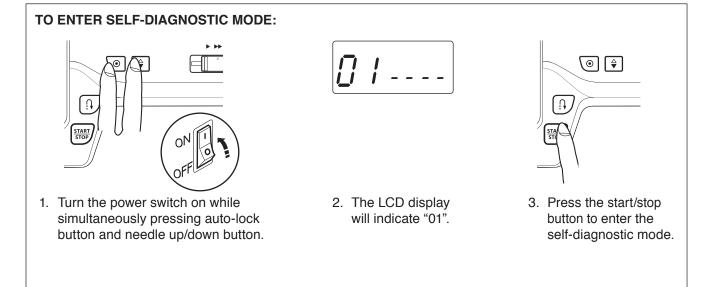
- Be careful: the sewing machine may start running in its own while in test mode.
- Turn off the power switch before replacing any parts.
- Repeat the diagnostic test until the problem has been resolved.
- You can skip steps in the diagnostic procedure and go directly to the test you want to perform. (Enter self-diagnostic mode, then select the step number of the diagnostic test you require by pressing start/stop button.)

To begin:

the

Turn on the switch. If any of the following problems occur, take the recommended actions in the order they are shown.

- 1. The machine does not respond when the power switch is turned on:
 - Check each connector connection
 - · Replace the machine socket
 - Replace the switching regulator
 - · Replace the printed circuit board A
- 2. The sewing machine lamp does not light up:
 - Replace the light bulb
 - · Replace the printed circuit board A



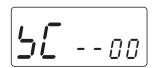
STEP AND ITEMS TO	PROCEDURE	CORRECT CONDITION	DEFECTIVE CONDITION
CHECK 01) FUNCTION OF LCD, BUZZER AND LAMP	Turn on the power switch while simultaneously pressing the auto-lock button and needle up/down button. Press the start/stop button to enter the self-diagnostic mode. If the result is correct condition, press the start/stop button to proceed the next step. If the result is defective condition, press the reverse stitch button to proceed the next step.	Sewing lamp and LCD backlight lit. LCD displays "01". Buzzer sounds. LCD displays symbols and numbers and blinks. ACFGR	Sewing lamp does not lit. LCD backlight does not lit. LCD does not display. Buzzer does not sound. LCD does not turned on. LCD does not display any symbols or not in order. -REMEDY- Replace the circuit board A. Replace the circuit board L.
02) BUTTON	Press buttons 1–5. If the result is correct condition, press the start/stop button to proceed the next step. If the result is defective condition, press the reverse stitch button to proceed the next step.	LCD displays "SC 02". Buzzer sounds when button is pressed. Button number is displayed when the button is pressed. LCD DISPLAYS "S3" WHEN BUTTON 1 IS PRESSED. LCD DISPLAYS "S4" WHEN BUTTON 2 IS PRESSED. LCD DISPLAYS "S6" WHEN BUTTON 3 IS PRESSED.	Buzzer does not sound. LCD does not display the number correctly. -REMEDY- Replace the circuit board A. Replace the circuit board F2.
03) BUTTONHOLE SENSOR	Lower the buttonhole lever. Move the buttonhole lever back and forth. If the result is correct condition, press the start/stop button to proceed the next step. If the result is defective condition, press the reverse stitch button to proceed the next step.	LCD DISPLAYS "S8" WHEN BUTTON 4 IS PRESSED. LCD DISPLAYS "S9" WHEN BUTTON 5 IS PRESSED.LCD displays "SC 03". BH symbol When the buttonhole lever is pulled, buzzer sounds and LCD displays BH symbol.	Buzzer does not sound. BH symbol does not appear. -REMEDY- Adjust the BH lever sensor position. Replace the BH lever sensor. Replace the circuit board A.
04) BOBBIN WINDER SWITCH	Move the bobbin winder spindle to the right. Return it to the left. If the result is correct condition, press the start/stop button to proceed the next step. If the result is defective condition, press the reverse stitch button to proceed the next step.	When the buttonhole lever is pushed, buzzer sounds and LCD displays BH symbol. LCD displays "SC 04". When the bobbin winder spindle is moved to the right, buzzer sounds and LCD displays the bobbin symbol. Bobbin symbol When the bobbin winder spindle is moved to the left, buzzer sounds and bobbin symbol disappear.	Buzzer does not sound. Bobbin symbol is not displayed. -REMEDY— Adjust the bobbin winder switch position. Replace the bobbin winder switch. Replace the circuit board A.

STEP AND ITEMS TO CHECK	PROCEDURE	CORRECT CONDITION	DEFECTIVE CONDITION
PRESSER	Not applicable for this machine. Press the start/stop button to proceed the next step.	LCD displays "SC 05" and presser foot symbol. Presser foot symbol	
06) UPPER SHAFT POSITIONING SENSOR	Turn the handwheel toward you. Lower the needle bar from its highest to lowest position. Raise the needle bar from its lowest position to highest position. If the result is correct condition, press the start/stop button to proceed the next step. If the result is defective condition, press the reverse stitch button to proceed the next step.	Turn the handwheel. LCD displays stitch width symbol when the needle bar is at zigzag phase. Stitch width symbol width symbol when the needle bar is at feed phase. Stitch length symbol when the needle bar is at feed phase. Stitch length symbol symbol when the needle bar is at feed phase.	Buzzer does not sound. Stitch width or length symbol does not appear. -REMEDY- Replace the circuit board P. Replace the circuit board A.
07) ZIGZAG MOTOR (STEP MOTOR) AND FEED MOTOR	Turn the handwheel toward you. Lower the needle bar its highest to position (zigzag phase). Press the needle up/down button. Raise the needle bar from its lowest position to its highest position (feed phase). Press the needle up/down button. If the result is correct condition, press the start/stop button to proceed the next step. If the result is defective condition, press the reverse stitch button to proceed the next step.	Press the needle up/down button when LCD displays stitch width symbol. The Zigzag motor will be initialized and get its default position. Stitch length symbol Press the needle up/down button when LCD displays stitch length symbol. The feed motor will be initialized and get its default position.	Zigzag motor does not get default position. buzzer does not sound. -REMEDY- Replace the zigzag motor. Replace the circuit board A. Feed motor does not get default position. buzzer does not sound. -REMEDY- Replace the feed motor. Replace the circuit board A.

STEP AND ITEMS TO CHECK	PROCEDURE	CORRECT CONDITION	DEFECTIVE CONDITION
08) FOOT CONTROL	Attach the foot control to the machine. Depress the foot control as far as it goes, then release it. If the result is correct condition, press the start/stop button to proceed the next step. If the result is defective condition, press the reverse stitch button to proceed the next step.	LCD displays "SC 08". The foot control symbol appears when the foot control is attached. Foot control symbol symbol Buzzer sounds when the foot control is deeply depressed. Buzzer sounds when the foot control is released.	The foot control symbol does not appear. Buzzer does not sound. -REMEDY- Replace the foot control. Replace the machine socket (foot control socket). Replace the circuit board A.
09) SLIDE VOLUME	Shift the slide volume from left to right, then return to the left. If the result is correct condition, press the start/stop button to proceed the next step. If the result is defective condition, press the reverse stitch button to proceed the next step.	LCD displays "SC 09". Buzzer sounds at rightmost or leftmost position.	Buzzer does not sound. -REMEDY- Replace the slide volume. Replace the circuit board A.
10) DC MOTOR	Press the needle up/down button. If the result is correct condition, press the start/stop button to proceed the next step. If the result is defective condition, press the reverse stitch button to proceed the next step.	LCD displays "SC 10". Machine runs slow, then fast, and the needle bar stops at its highest position.	The machine motor does not start. The motor stops immediately. The motor runs unstable. -REMEDY- Replace the DC motor. Replace the circuit board A.
11) THREAD TENSION RELEASE SOLENOID	Not applicable for this machine. Press the start/stop button to proceed the next step.	LCD displays "SC 11of".	
12) THREAD CUTTER MOTOR, THREAD CUTTER SOLENOID	Not applicable for this machine. Press the start/stop button to proceed the next step.	LCD displays "SC 12".	

STEP AND ITEMS TO CHECK	PROCEDURE	CORRECT CONDITION	DEFECTIVE CONDITION
13) EEPROM	LCD displays "OK" or "NG", depending on the EEPROM condition. If the result is correct condition, press the start/stop button to proceed the next step. If the result is defective condition, press the reverse stitch button to proceed the next step.	LCD displays "OK" when the EEPROM is correct condition. "OK" LCD displays "NG" when the EEPROM is defective condition. "NG"	LCD displays "NG". -REMEDY- Replace the circuit board A.

Buzzer sounds after few seconds when the self-diagnostic test has been finished. The test result has been determined.



CORRECT:

Buzzer sounds and LCD displays "00"



The defective part number. See pages 19-22 "Steps and items" section.

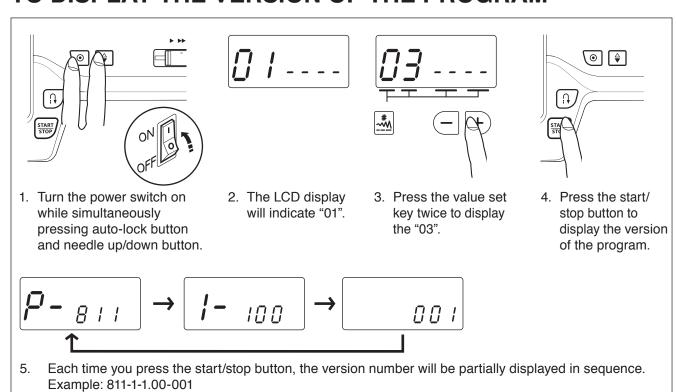
DEFECTIVE:

Caution buzzer sounds and LCD displays the defective part number. Refer to pages 19-22 and fix the defective part. Each time you press the start/stop button, the defective part number(s) will be displayed.

Press the reverse stitch button to return to 01.

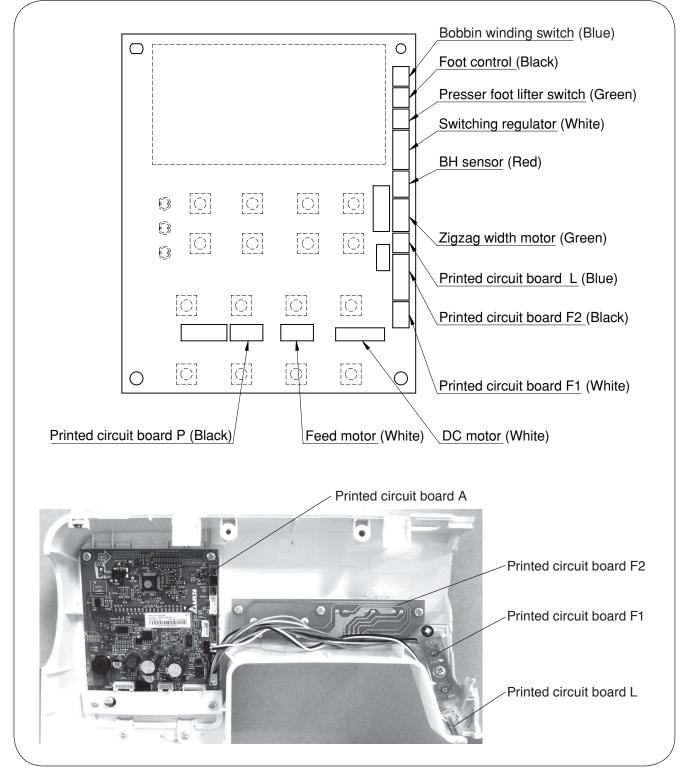
Turn the power switch off when the self-diagnostic test is finished.

TO DISPLAY THE VERSION OF THE PROGRAM



PRINTED CIRCUIT BOARD A CONNECTION

NOTE:



PRINTED CIRCUIT BOARD A

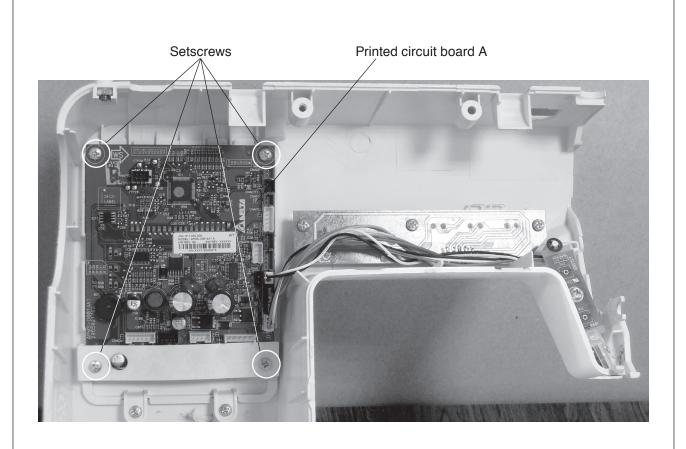
TO REMOVE:

- 1. Remove the front cover. (See page 6.)
- 2. Pull out connectors from the printed circuit board A.
- 3. Remove the screws (4 pcs.) and the printed circuit board A.

TO ATTACH:

1. Follow the above procedures in reverse.

NOTE:



PRINTED CIRCUIT BOARD F2

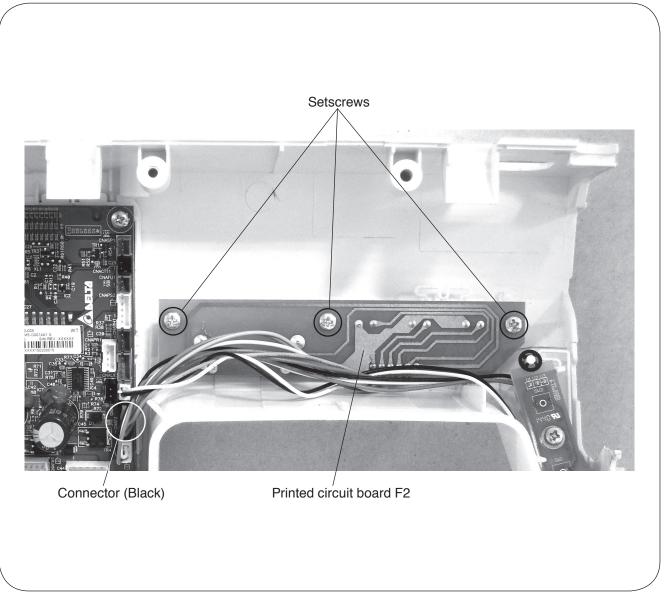
TO REMOVE:

- 1. Remove the front cover. (See page 6.)
- 2. Pull out connectors from the printed circuit board A.
- 3. Remove the screws (3 pcs.) and the printed circuit board F2.

TO ATTACH:

1. Follow the above procedures in reverse.

NOTE:



PRINTED CIRCUIT BOARD F1

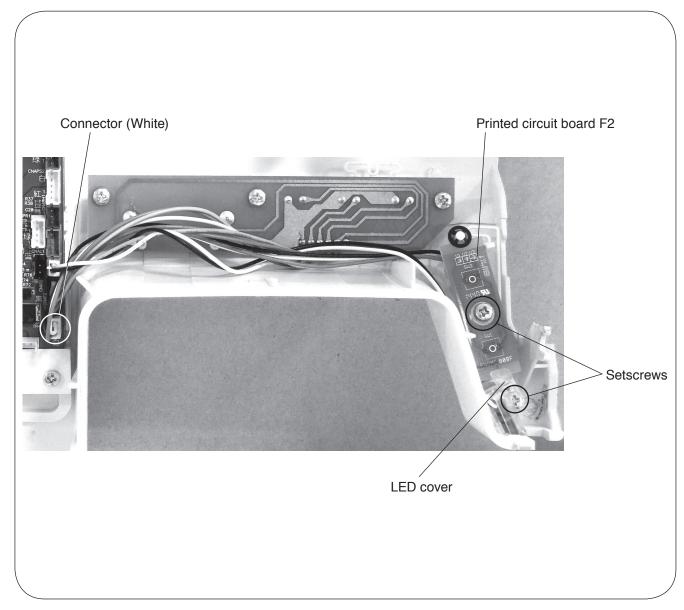
TO REMOVE:

- 1. Remove the front cover. (See page 6.)
- 2. Pull out connectors from the printed circuit board A.
- 3. Remove the screws (2 pcs.) and LED cover.
- 4. Remove the printed circuit board F2.

TO ATTACH:

1. Follow the above procedures in reverse.

NOTE:



PRINTED CIRCUIT BOARD L

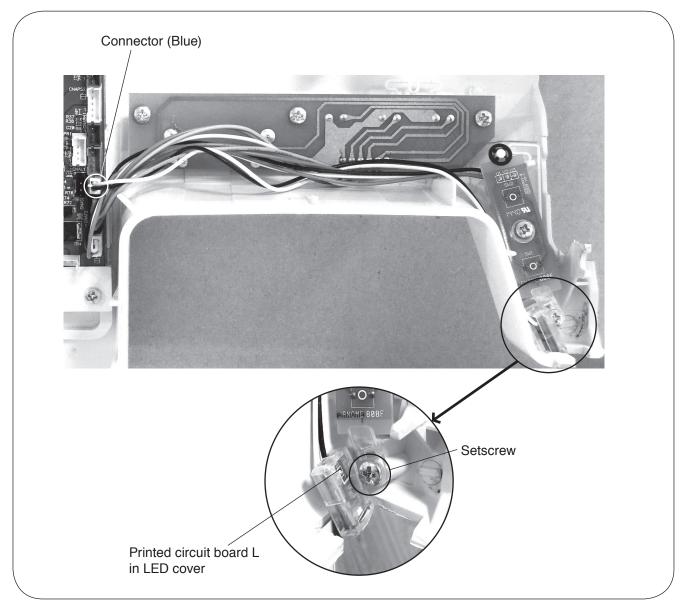
TO REMOVE:

- 1. Remove the front cover. (See page 6.)
- 2. Pull out connectors from the printed circuit board A.
- 3. Remove the screw and LED cover.
- 4. Remove the printed circuit board L.

TO ATTACH:

1. Follow the above procedures in reverse.

NOTE:



DRIVING MOTOR (DC MOTOR)

TO REMOVE:

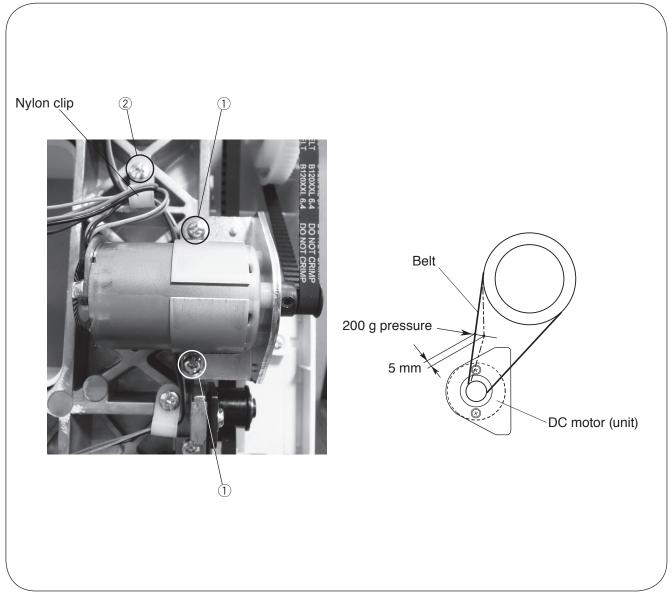
- 1. Remove the front cover. (See page 6.)
- 2. Remove the setscrews ① (2 pcs.), setscrew ② (1 pcs.), the driving motor and the belt.

TO ATTACH:

- 1. Install the driving motor and the motor belt. Tighten them with setscrews ① (2 pcs.) lightly.
- 2. Move the motor up or down to adjust the motor belt tension.

 The belt should deflect 5 mm when applying 200 grams of load to the middle of the belt.

 Tighten the setscrews ① (2 pcs.) firmly.
- 3. Secure the cables using the nylon clip and tighten the setscrew ②.
- 4. Attach the front cover.



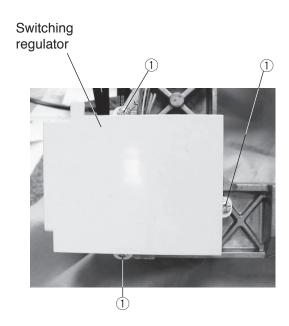
SWITCHING REGULATOR UNIT

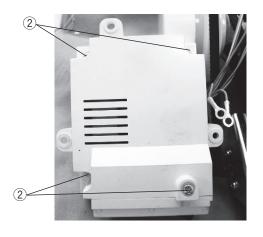
TO REMOVE:

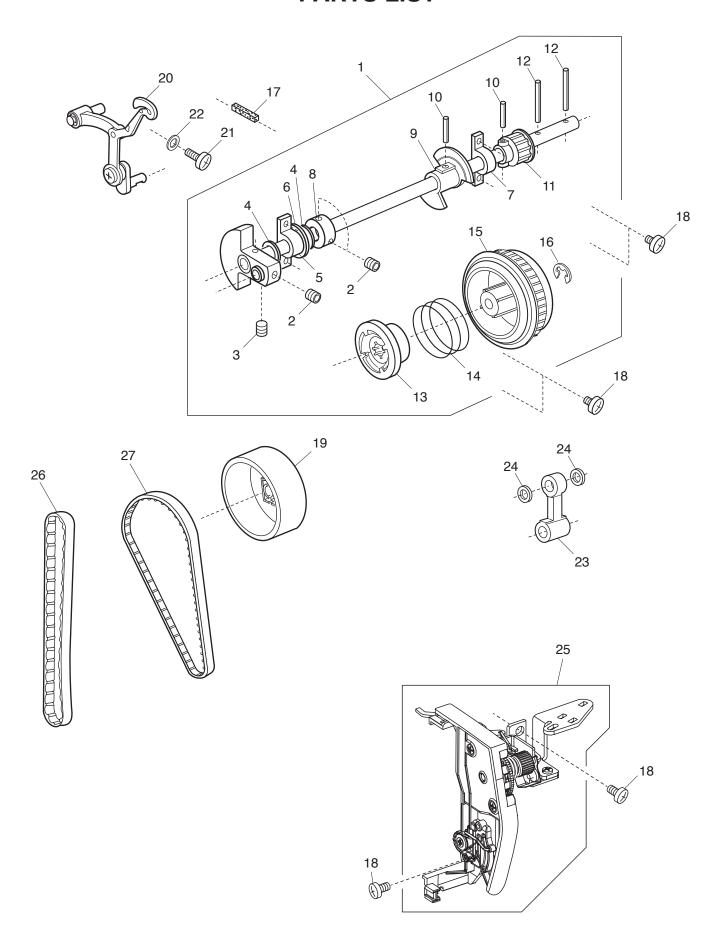
- 1. Remove the front cover and the rear cover. (See pages 6 and 7.)
- 2. Remove the setscrews ① (3 pcs.) and the switching regulator.
- 3. Remove the setscrews ② (4 pcs.).

TO ATTACH:

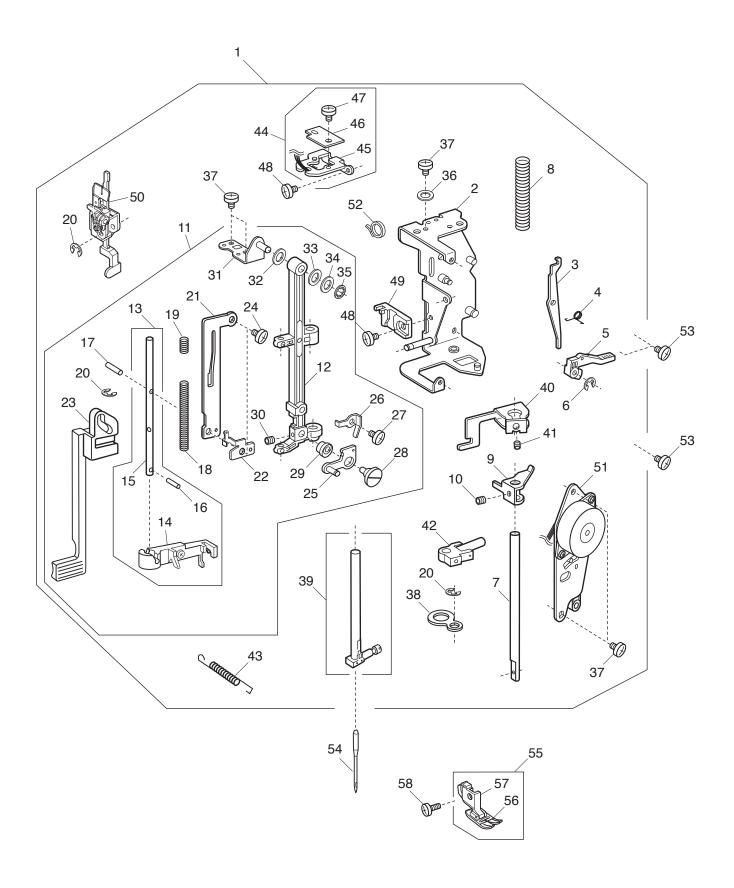
4. Follow the above procedures in reverse.



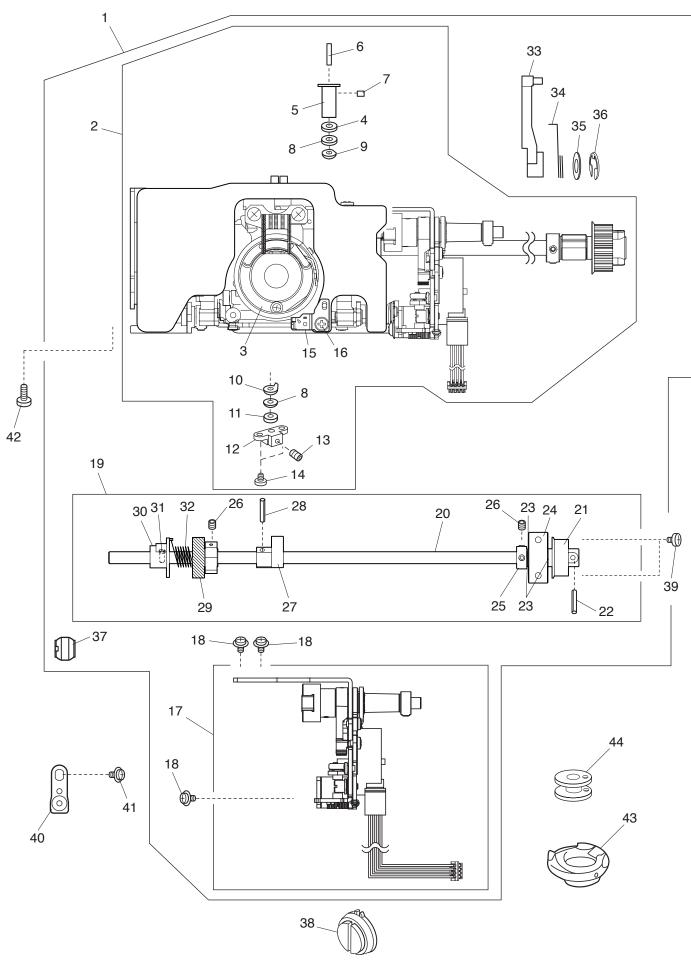




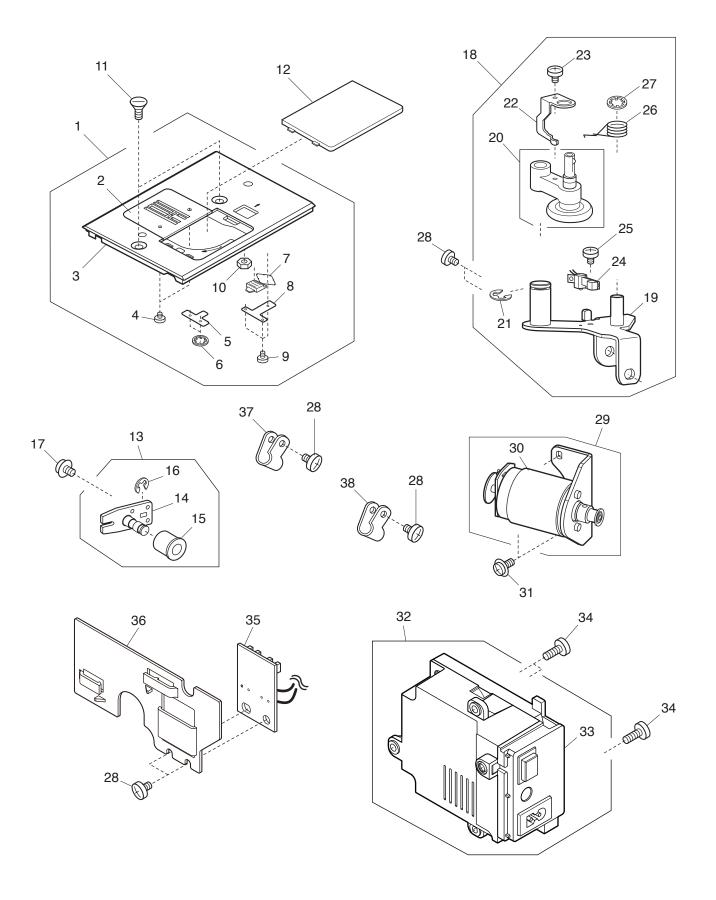
KEY	PARTS		
NO.	NO.	DESCRIPTION	
1	808601005	Upper shaft (unit)	
2	000111201	Hexagonal socket screw 4x4	
3	000112800	Hexagonal socket screw 4x6	
4	000036201	Washer FT80	
5	508120006	Shaft fixing metal	
6	823110009	Felt	
7	508054101	Shaft fixing metal	
8	820166001	Lower shaft ring	
9	808003001	Upper shaft shielding plate	
10	000004200	Spring pin 3x18	
11	508021006	Upper shaft gear	
12	000024206	Spring pin 3x30	
13	502064003	Clutch ring	
14	661024007	Clutch spring	
15	508055009	Belt wheel	
16	000002806	Snap ring E-6	
17	650040005	Felt	
18	000081005	Setscrew 4x8	
19	508056000	Handwheel	
20	808648004	Thread take-up lever (unit)	
21	000103509	Setscrew 4x10	
22	000072302	Washer 4	
23	808005003	Needle bar crank rod	
24	000036005	Washer FT60	
25	811511306	Thread tension (unit)	
26	808037004	Syncro belt S5M	
27	808021005	Timing belt 120	



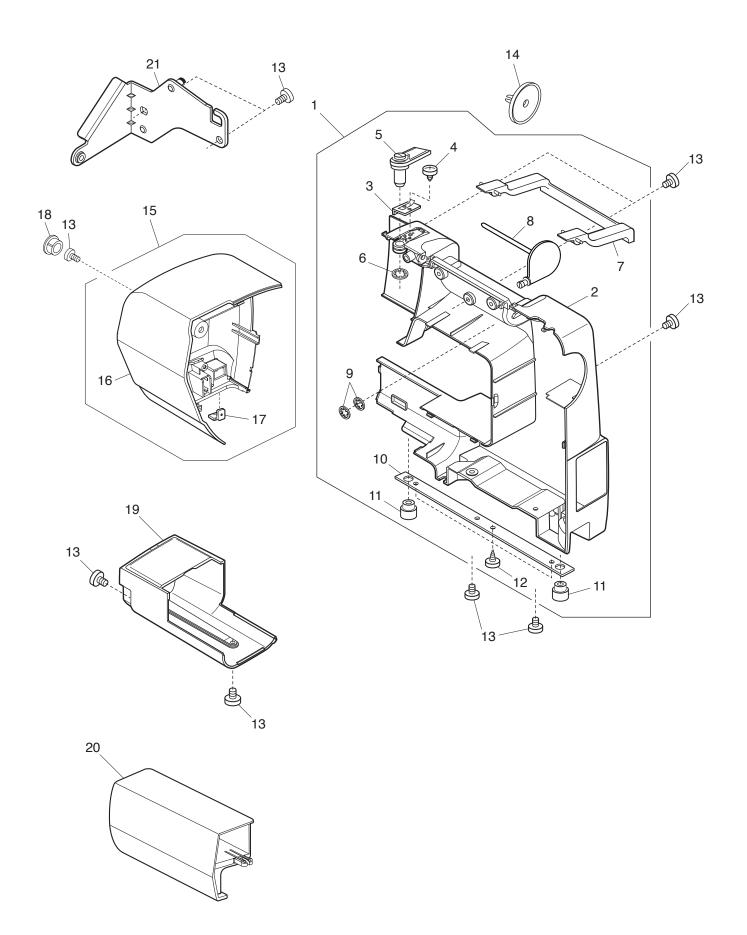
KEY	PARTS	
NO.	NO.	DESCRIPTION
1	808602615	Presser bar base plate (unit)
2	808006004	Presser bar base plate
3 4	808007005 503041007	Thread tension release lever Thread tension release spring
5	502024001	Presser foot lifter
6	000001609	Snap ring E-5
7	508002104	Presser bar
8	508038006	Presser bar spring
9	508039007	Presser bar supporter
10	000111500	Hexagonal socket screw 4x8
11	808603100	Needle bar supporter (unit)
12	808008006	Needle bar supporter
13	842637028	Threader shaft (unit)
14	846588014	Threader plate (unit)
15	840036025	Threader shaft
16	000003508	Spring pin 2x8
17	000125105	Guide pin E-2x16-CH
18	842090001	Threader shaft spring
19	842096007	Threader lever spring
20	000002105	Snap ring E-3
21	842091002	Threader guide plate
22	844036027	Threader lever plate
23	842092003	Threader lever
24	000078319	Setscrew 3x6
25	808015006	Zigzag width rod
26	827088009	Zigzag width rod spring
27	820373003	Setscrew 2x3
28 29	678084007	Eccentric pin
30	808074003	Washer
31	000111902	Hexagonal socket screw 3x4
32	808009007 000036500	Supporter adjusting plate Washer FT60
33	673022002	Spring washer
34	000070609	Washer 6
35	000013903	Snap ring CS-5
36	000072003	Washer 5
37	000101404	Setscrew 4x6
38	808010001	Supporter guide plate
39	508607105	Needle bar (unit)
40	808011002	Threader position set plate
41	000177205	Hexagonal socket screw 3x6
42	508509003	Needle bar connecting stud (unit)
43	844038018	Needle bar supporter spring
44	808606000	Buttonhole sensor (unit)
45	845002005	Sensor set plate
46	843502602	Printed circuit board E1 (unit)
47	000101105	Setscrew 3x4
48	000103808	Setscrew 3x5
49	830057021	Buttonhole lever guide
50	808673008	Buttonhole lever (unit)
51	808605607	Zigzag width motor (unit)
52	000053008	Cord binder
53	000081005	Setscrew 4x8
54	102408089	Needle Research (see the control of
55	660509008	Presser foot (unit)
56	832523007	Zigzag foot
57	660806008	Presser foot holder
58	660106001	Setscrew



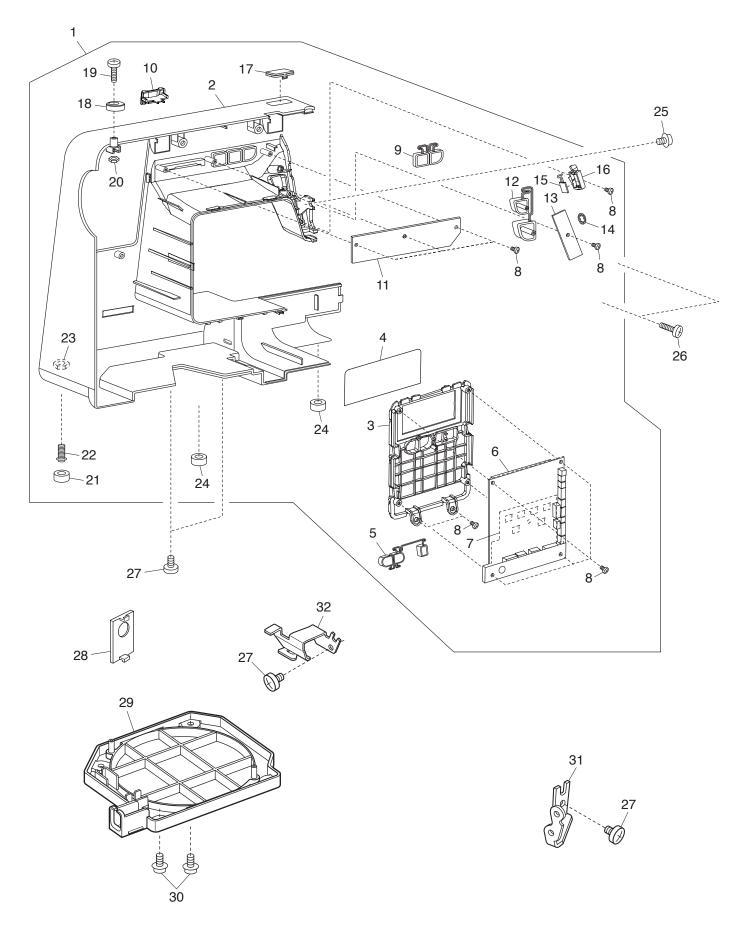
KEY	PARTS	
NO.	NO.	DESCRIPTION
1	811607001	Hook race (whole unit)
2	811608002	Hook race (unit)
3	660536004	Hook body (unit)
4	508118001	Washer
5	820123006	Hook race shaft
6	820124007	Hook shaft oil wick (1)
7	820125008	Hook shaft oil wick (2)
8	000038409	Washer
9	508139008	Magnet set plate
10	627192001	Washer
11	625102008	Washer
12	508072002	Hook race shaft base
13	000111304	Hexagonal socket screw 5x5
14	000103705	Setscrew 4x5
15	627567104	Bobbin holder stopper (unit)
16	810220003	Setscrew
17	811611008	Feed regulator (unit)
18	000115205	Setscrew TP 4x6
19	811610007	Lower shaft (unit)
20	808027300	Lower shaft
21	508021006	Upper shaft gear
22	000004200	Spring pin 3x18
23	000038502	Washer
24	508054008	Shaft fixing metal
25	820166001	Lower shaft ring
26	000111201	Hexagonal socket screw 4x4
27	809014008	Feed cam
28	000005407	Spring pin 3x12
29	808137005	Lower shaft gear
30	753183025	Feed lifting cam
31	820161006	Feed lifting pin
32	686035008	Feed lifting cam spring Feed fork
33	809013007	
34	809015009	Feed fork spring
35 36	000071105	Washer 5
37	000002507 732034003	Snap ring E-4
38	809053009	Lower shaft rear bushing
39	000081005	Feed balancing dial 2 Setscrew 4x8
40	809042005	Lower shaft bushing set plate
40	000115607	Setscrew TP 4x8
42	000113007	Setscrew 4x12
43	627569106	Bobbin holder (unit)
44	102261103	Bobbin
7-7	102201100	DODONII



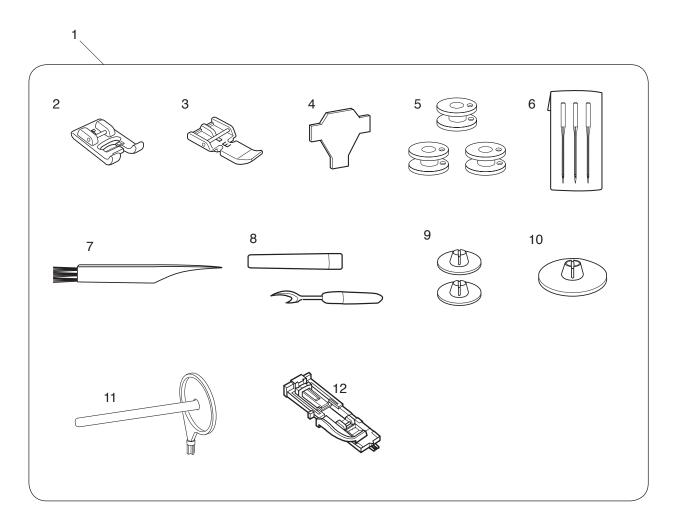
KEY	PARTS	
NO.	NO.	DESCRIPTION
1	808626006	Needle plate (unit)
2	808067003	Needle plate
3	808068004	Support needle plate
4	000163703	Setscrew 2x3.5
5	502015009	Spring
6	000015503	Snap ring SC-2.4
7	502016000	Hook cover plate release button
8	502202005	Supporter plate
9	000130206	Setscrew 1.7x2.5 (B)
10	508116009	Nut
11	820390109	Setscrew
12	846271103	Hook cover plate
13	808614001	Idler (unit)
14	808038005	Idler set plate
15	625217100	Idler
16	000002806	Snap ring E-6
17	000115607	Setscrew TP 4x8
18	808615002	Bobbin winder (unit)
19	808039006	Bobbin winder set plate
20	508507001	Bobbin winder arm (unit)
21	000001609	Snap ring E-5
22	508111004	Clutch lever
23	000120203	Setscrew 3x8 (B)
24	856512100	Switch (unit)
25	000081706	Setscrew 2.5x5
26	808040000	Spring
27	000013903	Snap ring CS-5
28	000081005	Setscrew 4x8
29	808617004	DC motor (unit)
30	808502005	DC motor
31	000115700	Setscrew TP 4x10
32	808657408	Switching regulator (unit)
33	808525602	Switching regulator
34	000103509	Setscrew 4x10
35	808504007	Printed circuit board P (unit)
36	808181004	Cord guide
37	000188209	Nylon clip ACC-1.5
38	000188405	Nylon clip ACC-2

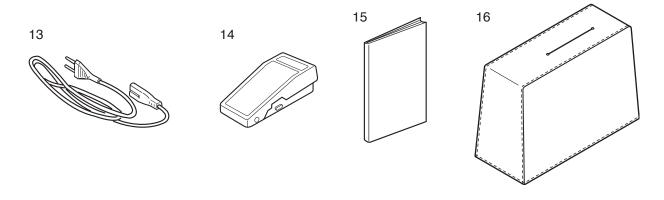


 KEY	PARTS	
 NO.	NO.	DESCRIPTION
1	809604285	Rear cover (unit)
2	809025B06	Rear cover
3	827503108	Top cover thread guide (unit)
4	000162001	Setscrew 2.6x5 (B)
5	650503322	Thread guide (unit)
6	000014409	Snap ring CS-8
7	809026003	Carrying handle
8	809027004	Spool pin
9	000013800	Snap ring CS-6
10	809028005	Arm leg rear
11	735003002	Bed rubber cushion
12	000198604	Setscrew 4x14 (B)
13	000081005	Setscrew 4x8
14	822020503	Spool holder
15	811604031	Face plate (unit)
16	811012A10	Face plate
17	840602006	Thread cutter (unit)
18	653006101	Cap
19	808061007	Free arm cover
20	811013004	Extension table
21	811001009	Face plate set plate



KEY	PARTS	
NO.	NO.	DESCRIPTION
1	811603351	Front cover (unit)
2	811004A39	Front cover
3	811005A26	Ornamental panel 1
4	811006A19	Ornamental panel 2
5	811010A01	Button 2
6	811401003	Printed circuit board A (unit)
7	811021005	Flame retardant insulating paper
8	000120203	Setscrew 3x8 (B)
9	811007A01	Button 1
10	811008006	Slide volume
11	811503006	Printed circuit board F2 (unit)
12	811011A01	Button 3
13	808507103	Printed circuit board F (unit)
14	000014306	Snap ring CS-3
15	808506102	Printed circuit board L (unit)
16	808057000	Lamp holder
17	808103002	Front cover lid
18	735016307	Bobbin winder stopper
19	000101828	Setscrew 4x16
20	000061205	Nut 4-3-7
21	639005003	Rubber foot
22	000201405	Setscrew TP 4x16
23	000160102	Adjustable lock nut 4
24	739064003	Bed rubber cushion
25	000115205	Setscrew TP 4x6
26	000160401	Setscrew 4x16 (B)
27	000081005	Setscrew 4x8
28	809039009	Cap
29	808059301	Bed cover
30	000149312	Setscrew 3x8
31	639080002	Front cover set plate
32	808016007	Arm thread guide





K	ΈΥ	PARTS	
N	IO.	NO.	DESCRIPTION
	1	811870007	Standard accessories
	2	822804118	Satin foot (F) (unit)
	3	808852003	Zipper foot (E) (unit)
	4	653802002	Screwdriver
	5	102261103	Bobbin
	6	639804000	Needle set (unit)
	7	802424004	Lint brush
	8	647808009	Seam ripper (Buttonhole opener)
	9	822019509	Spool holder (small)
	10	822020503	Spool holder (large)
	11	809146000	Spool pin
	12	753801004	Buttonhole foot (R) (unit)
	13	830335004	Power supply cord
	14	C-1036	Foot control
	15	811800028	Instruction book
	16	741811000	Cover