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SERVICE MANUAL & PARTS LIST

MODEL: My Jeans & Stretch 9077

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WHAT TO DO WHEN

CONDITION	CAUSE	HOW TO FIX	REFERENCE
1. SKIPPING STITCHES	NEEDLE IS NOT INSERTED PROPERLY.	INSERT THE NEEDLE PROPERLY.	
	2. NEEDLE IS BENT OR WORN.	CHANGE THE NEEDLE.	
	3. INCORRECTLY THREADED.	RETHREAD.	
	4. NEEDLE OR THREAD ARE INAPPROPRIATE FOR THE FABRIC BEING SEWN.	USE THE RECOMMENDED SEWING NEEDLE AND THREAD.	
	5. SEWING ON STRETCH FABRIC.	USE A HA X #11 BLUE TIP NEEDLE.	
	6. INAPPROPRIATE NEEDLE BAR HEIGHT.	SEE MECHANICAL ADJUSTMENT "ADJUSTMENT OF NEEDLE BAR HEIGHT".	P. 11
	7. INAPPROPRIATE NEEDLE TO HOOK TIMING.	SEE MECHANICAL "ADJUSTMENT OF HOOK TIMING".	P. 10
	8. INAPPROPRIATE NEEDLE TO HOOK CLEARANCE.	SEE MECHANICAL ADJUSTMENT "CLEARANCE BETWEEN NEEDLE AND TIP OF THE ROTARY HOOK".	P. 12
2. FABRIC NOT MOVING	INCORRECT FEED DOG HEIGHT.	SEE MECHANICAL ADJUSTMENT "FEED DOG HEIGHT".	P. 13
	2. FEED DOG IS IN DOWN POSITION.	RAISE THE FEED DOG.	
	3. THREAD ON BOTTOM SIDE OF FABRIC IS JAMMED UP.	MAKE SURE TO BRING BOTH NEEDLE AND BOBBIN THREADS UNDER THE FOOT WHEN START SEWING.	

CONDITION	CAUSE	HOW TO FIX	REFERENCE
3. BREAKING UPPER THREAD.	INITIAL SEWING SPEED IS TOO FAST.	START WITH MEDIUM SPEED.	
THILAD.	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.	
	5. NEEDLE SIZE IS INAPPROPRIATE FOR FABRIC.	USE APPROPRIATE NEEDLE FOR FABRIC AND THREAD IN USE.	
	6. NEEDLE EYE IS WORN.	CHANGE THE NEEDLE.	
	7. 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.	
THNEAD.	2. TOO MUCH THREAD IS WOUND ON THE BOBBIN.	ADJUST THE POSITION OF BOBBIN WINDER STOPPER.	
	3. 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	1. 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
	4. 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. 23
	4. NOT ENOUGH OIL.	OIL ALL MOVING PARTS.	
	5. UPPER SHAFT GEAR IS LOOSE.	ELIMINATE THE LOOSENESS.	
7. DEFORMATION PATTERN	1. INAPPROPRIATE FEED BALANCE.	ADJUST THE FEED BALANCING SCREW.	
	2. TOP TENSION IS TOO STRONG.	SEE MECHANICAL ADJUSTMENT "TOP TENSION".	P. 15

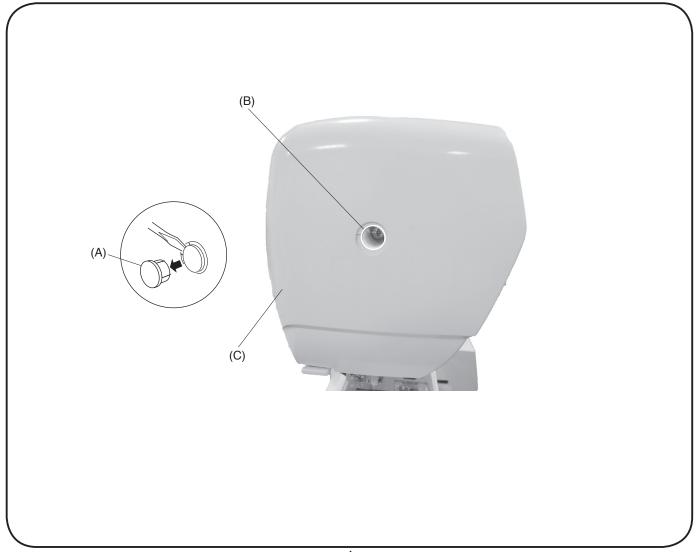
FACE COVER

TO REMOVE:

1. Remove the cap (A) and setscrew (B) and lift the face cover to disengage the rib on the inside. Remove the face cover (C).

TO ATTACH:

2. Follow the above procedures in reverse.



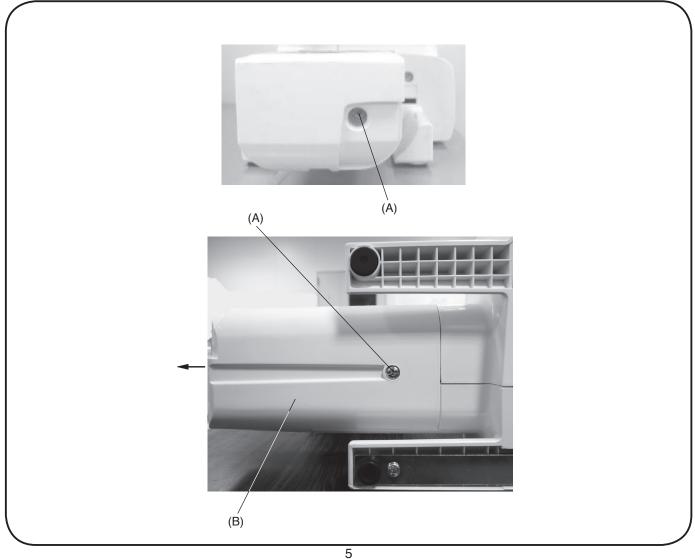
FREE ARM COVER

TO REMOVE:

1. Remove the setscrew (A) (2 pcs). Move the free arm cover (B) to the left and remove the free arm cover.

TO ATTACH:

2. Follow the above procedures in reverse.



FRONT COVER

TO REMOVE:

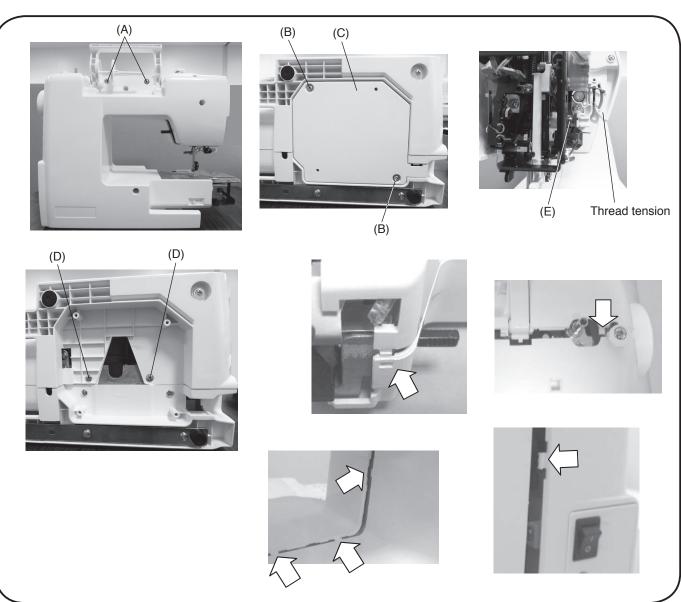
- 1. Remove the face cover and free arm cover (see pages 4 and 5).
- 2. Remove the setscrews (A) (2 pcs.).
- 3. Remove the setscrews (B) (2 pcs.) and back cover (C).
- 4. Remove the setscrews (D) (2 pcs.).
- 5. Loosen the setscrew (E).
- 6. Disengage the front cover and rear cover hooks.
- 7. Disconnect all the connectors from the printed circuit board A.

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

8. Remove the front cover.

TO ATTACH:

9. Follow the above procedures in reverse. Remove the front cover.



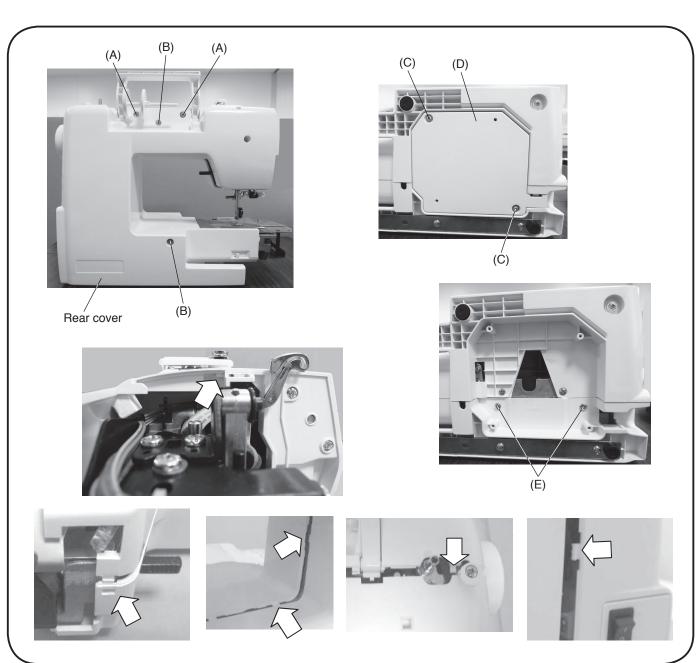
REAR COVER

TO REMOVE:

- 1. Remove the face cover and free arm cover (see pages 4 and 5).
- 2. Remove the setscrews (A) (2 pcs.).
- 3. Remove the setscrews (B) (2 pcs.).
- 4. Remove the setscrews (C) (2 pcs.) and back cover (D).
- 5. Remove the setscrews (E) (2 pcs.)
- 6. Disengage the front cover and rear cover hooks.
- 7. Remove the rear cover.

TO ATTACH:

8. 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.

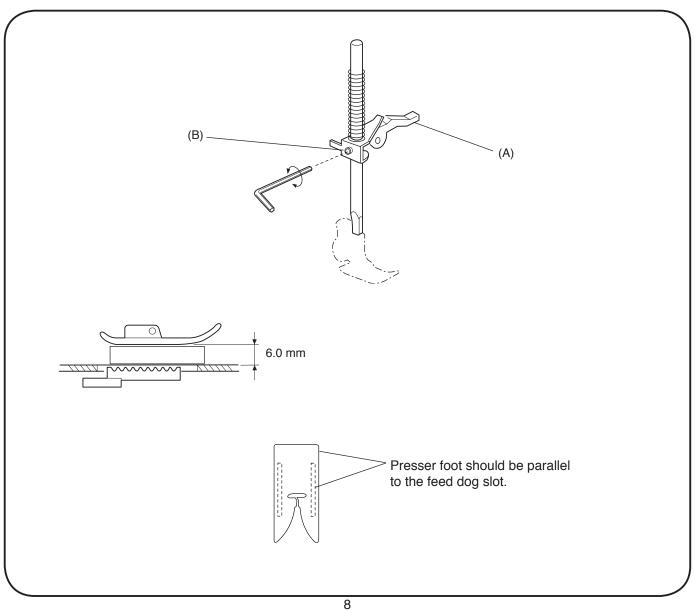
TO REMOVE:

- 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 (A).
- 3. Loosen the hexagonal socket screw (B). Raise the presser foot lifter and tighten the setscrew (B) firmly.

TO ATTACH:

4. Attach the needle and face plate.

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



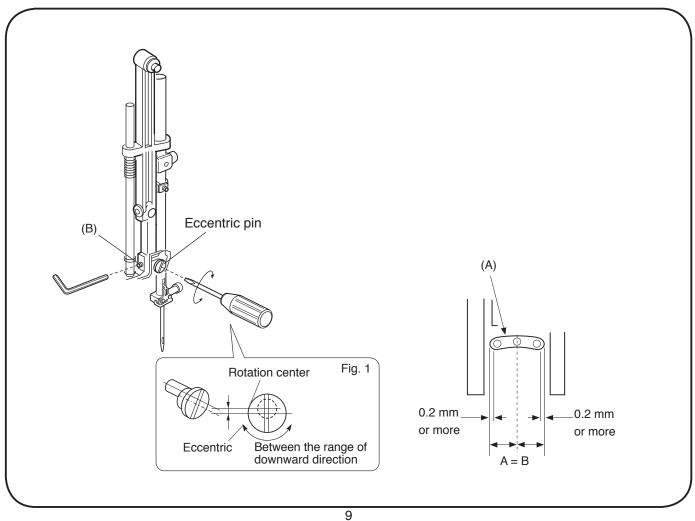
NEEDLE DROP POSITION

Set the stitch pattern to "...". The standard needle drop position should be at center of the needle plate hole (A). Select zigzag stitch " \lessapprox ", and set the stitch width at "7.0". The clearance between the needle and the edge of the needle hole in the needle plate 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 (B). 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.



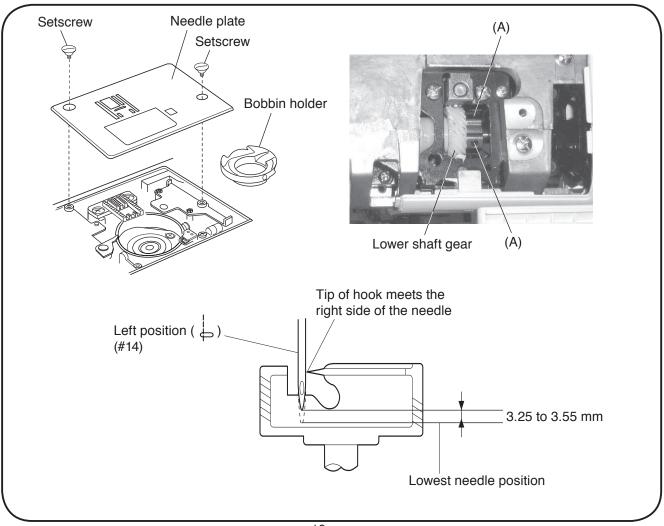
ADJUSTMENT OF HOOK TIMING

The amount of ascending travel of the needle bar from its lowest position to the position ($\frac{1}{4}$) where the tip of the rotary hook exactly meets the right side of the needle should be 3.25 to 3.55 mm.

TO ADJUST:

- 1. Remove the free arm cover (see page 5).
- 2. Remove the setscrews (2 pcs.) on the needle plate.
- 3. Remove the needle plate and the bobbin holder.
- 4. Turn the power switch on.
- 5. Select the pattern \vdash (left position). Set the zigzag width at 0.
- 6. Remove the free arm cover

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

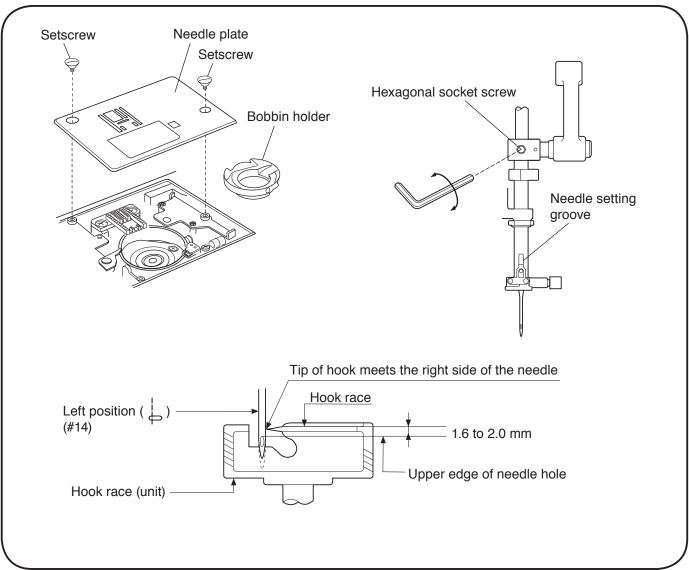


ADJUSTMENT OF NEEDLE BAR HEIGHT

Before proceeding with this adjustment, check the hook timing (see 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 ($^{\downarrow}_{\ominus}$) as the needle ascends from its lowest position.

TO ADJUST:

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

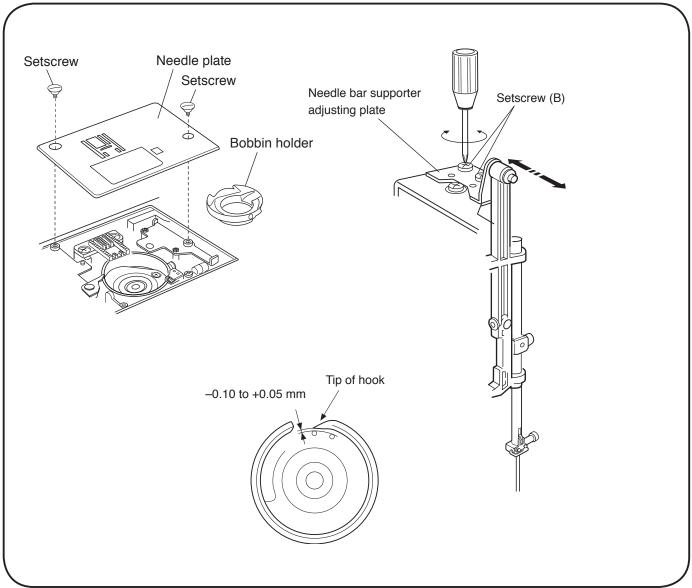


CLEARANCE BETWEEN NEEDLE AND TIP OF THE ROTARY HOOK

* The clearance between the needle and the point of hook should be -0.10 to +0.05 mm.

ADJUSTMENT PROCEDURE:

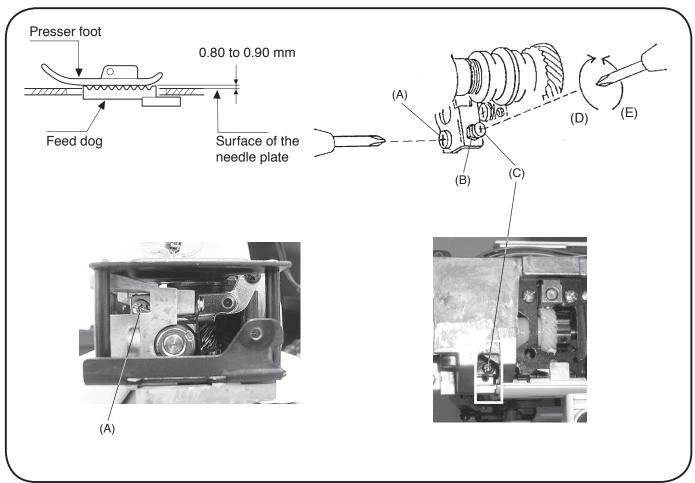
- 1. Remove the face cover (see page 4).
- 2. Remove the setscrews (2 pcs.) on the needle plate.
- 3. Remove the needle plate and the bobbin holder.
- 4. Attach the master needle. Turn the power switch on and set the zigzag width at maximum.
- 5. Loosen the setscrew (B) (2 pcs.).
- 6. Turn the handwheel 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 –0.10 to +0.05 mm at the left and right needle position.
- 7. Tighten the setscrew (B) (2 pcs.).
- 8. Attach the face cover. Remove the master needle. Attach the bobbin holder and needle pate.
- 9. 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.

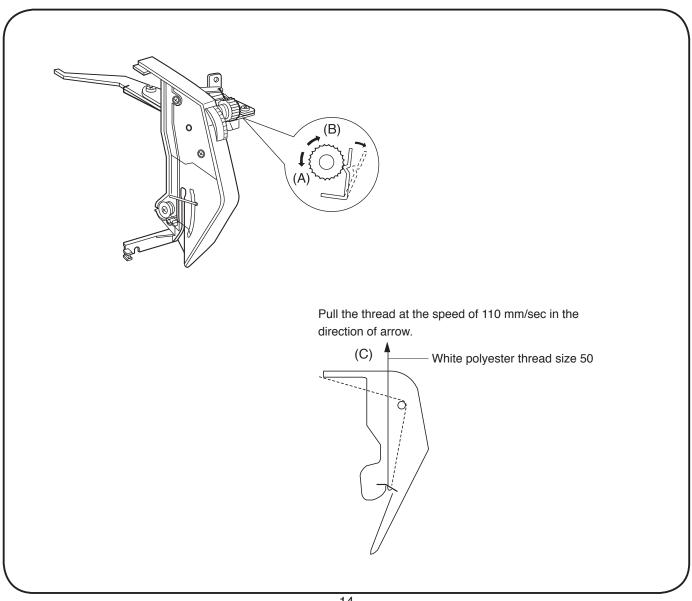
- 1. Lower the presser foot and turn the power switch on.
- 2. Turn the handwheel toward you to set the feed dog at the highest position.
- 3. Remove the free arm cover.
- 4. Loosen the setscrew (A) and nut (B).
- 5. Adjust the feed dog height by turning the adjusting screw (C). The highest position of the feed dog should be between 0.80 and 0.90 from the surface of the needle plate.
 If the feed dog height is lower than 0.80 mm: turn adjusting screw (C) in the direction of (D).
 If the feed dog height is higher than 0.90 mm: turn the adjusting screw (C) in the direction of (E).
- 6. Tighten the nut (B) and setscrew.
- 7. Attach the free arm cover.



TOP TENSION

The top tension should be between 65 and 80 grams-force when pulling the thread up in the direction of (C).

- * 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 front cover (see page 6).
- 3. Lower the presser foot.
 - If the top tension is too tight, turn the lead screw in the direction (A).
 - If the top tension is too loose, turn the lead screw in the direction (B).
- 4. Check the top tension and attach the cover.

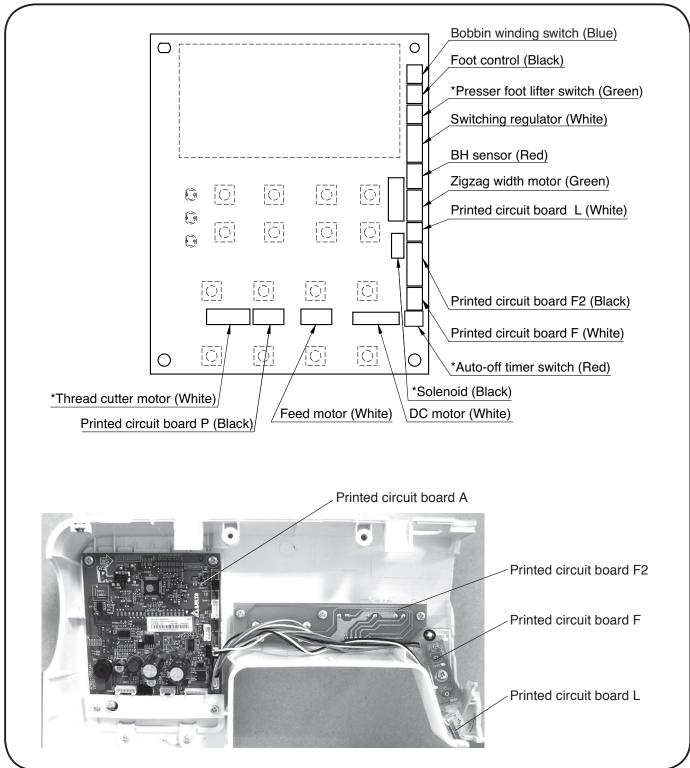


PRINTED CIRCUIT BOARD A CONNECTION

NOTE: Do not disconnect the connectors by pulling on cord.

To disconnect, grasp the connector, not the cord.

* Presser foot lifter switch, Auto-off timer, Solenoid, Thread cutter motor is functionable only for applicable models.



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.

NOTES:

- 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 the start/stop button)

TO BEGIN:

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

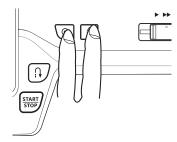
1. The machine does not respond when the power switch is turned on:

- · Check each connector connection.
- · Replace the machine socket.
- Replace the switching regulator.
- Replace the printed circuit board A.

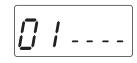
2. The sewing machine lamp does not light up:

- Replace the printed circuit board L.
- · Replace the printed circuit board A.

TO ENTER SELF-DIAGNOSTIC MODE:

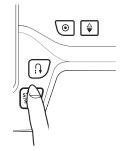


Turn the power switch on while simultaneously pressing needle up/down button and the locking stitch button.





The LCD display will indicate "01".



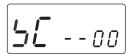
Press the start/stop button to enter the self-diagnostic mode.

Step and items to check	Procedure	Correct Condition	Defective Condition
01) Function of LCD, buzzer and lamp	Turn on the power switch while simultaneously pressing the start/ stop button and locking stitch button. Press the start/stop 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.	Sewing lamp and LCD backlight lits. LCD displays "01". Buzzer sounds. LCD repeats displaying after all symbols and numbers are shown.	Sewing lamp does not lit. LCD backlight does not lit. LCD does not display "01". Buzzer does not sound. LCD does not turned on. LCD does not display any symbols or not in order. -REMEDY- Replace the printed circuit board A.
02) Button	Press buttons 1 to 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 "01" and the segment 1 when button 1 is pressed. LCD displays "03" and the segment 2 when button 2 is pressed. LCD displays "04" and the segment 3 when button 3 is pressed. LCD displays "17" when button 4 is pressed. LCD displays "17" when button 5 is pressed.	Buzzer does not sound. LCD does not display the number correctly. -REMEDY- Replace the printed circuit board A. Replace the printed circuit board F.
03) Buttonhole Sensor	Lower the buttonhole lever. Move the buttonhole lever back and forth. If the result is correct condition, press the start/stop but- ton to proceed the next step. If the result is defective condition, press the reverse stitch button to proceed the next step.	LCD displays "SC 03". When the buttonhole lever is pulled, buzzer sounds and LCD displays BH symbol. When the buttonhole lever is pushed, buzzer sounds and LCD displays BH symbol. BH symbol	Buzzer does not sound. BH symbol does not appear. -REMEDY- Replace the printed circuit board A. Adjust the button hole lever position Replace the button hole sensor.
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 bobbin winder spindle is moved to the left, buzzer sounds. When the bobbin winder spindle is moved to the right, buzzer sounds and LCD displays the bobbin symbol.	Buzzer does not sound. Bobbin symbol is not displayed. —REMEDY— Replace the bobbin winder switch. Replace the printed circuit board A.

Step and items to check	Procedure	Correct Condition	Defective Condition
05) Presser foot lifter switch	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 its lowest position. Raise the needle bar from its lowest position to its highest position. If the result is correct condition, press the start/stop but- ton to proceed the next step. If the result is defective condition, press the reverse stitch button to proceed the next step.	LCD displays "SC 06". Turn the handwheel. LCD displays stitch width symbol when the needle bar is at zigzag phase. Stitch width symbol Turn the handwheel. LCD displays stitch length symbol when the needle bar is at feed phase. Stitch length symbol	Buzzer does not sound. Stitch width or length symbol does not appear. -REMEDY- Replace the printed circuit board A. Replace the printed circuit board P.
07) Zigzag motor (Step motor) Feed motor	Turn the handwheel toward you. Lower the needle bar from its highest to its lowest position. Raise the needle bar from its lowest position to its highest position. If the result is correct condition, press the start/stop but- ton to proceed the next step. If the result is defective condition, press the reverse stitch button to proceed the next step.	LCD displays "SC 07". LCD displays stitch width symbol when the needle bar is at middle position. (Zigzag motor get default position.) Stitch width symbol LCD displays stitch length symbol when feed motor gets default position. Stitch length symbol	Zigzag motor does not get default position. -REMEDY- Replace the zigzag motor. Replace the printed circuit board A. Feed motor does not get default position. -REMEDY- Replace the feed motor. Replace the printed circuit board A.
08) Foot control	Attach the foot control to the sewing 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 attache. Buzzer sounds when the foot control is deeply depressed. Buzzer sounds when the foot control is relEased.	Zigzag motor does not get default position. -REMEDY- Replace the zigzag motor. Replace the printed circuit board A.

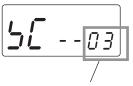
Step and items to check	Procedure	Correct Condition	Defective Condition
09) Slide volume	Shift the slide volume from left to right, then return to the left. If the result is correct condition, press the start/stop button to proceed the next step. If the result is defective condition, press the reverse stitch button to proceed the next step.	LCD displays "SC 09". LCD displays "SC 09". Buzzer sounds at right or left position.	The foot control symbol does not appear. Buzzer does not sound. -REMEDY— Replace the foot control. Replace the switching regulator. Replace the printed 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.	Buzzer does not sound. -REMEDY- Replace the printed circuit board A.
11) Solenoid	Not applicable for this machine. Press the start/stop button to proceed the next step.	LCD displays "SC 11of" and presser foot symbol.	
12) Thread cutter motor, Thread cutter button	Not applicable for this machine. Press the start/stop button to proceed the next step.	LCD displays "SC 12".	
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".



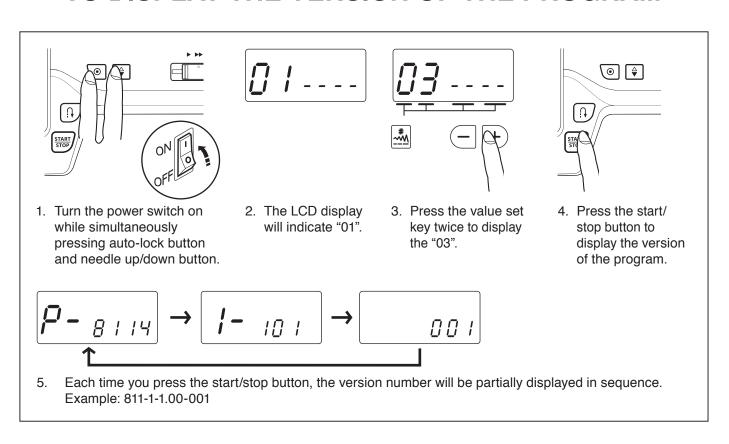
DEFECTIVE:

Caution buzzer sounds and LCD displays the defective part number. See pages 17 to 19 and fix the defective part.

The defective part number. See pages 17 to 19 "Steps and items" section.

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

TO DISPLAY THE VERSION OF THE PROGRAM



PRINTED CIRCUIT BOARD A

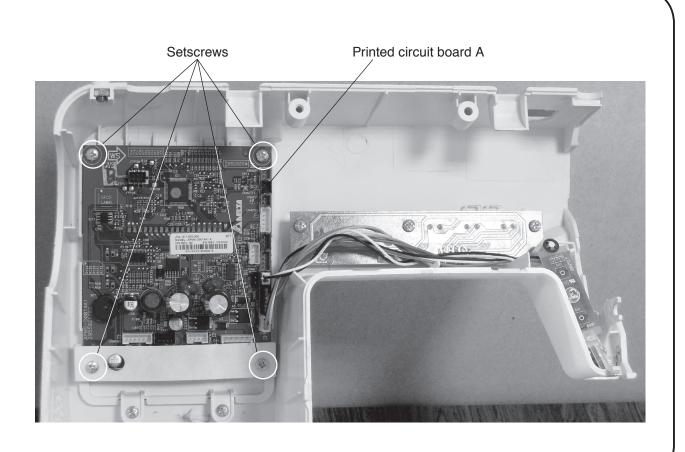
TO REMOVE:

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

TO ATTACH:

4. Follow the above procedures in reverse.

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



PRINTED CIRCUIT BOARD F

TO REMOVE:

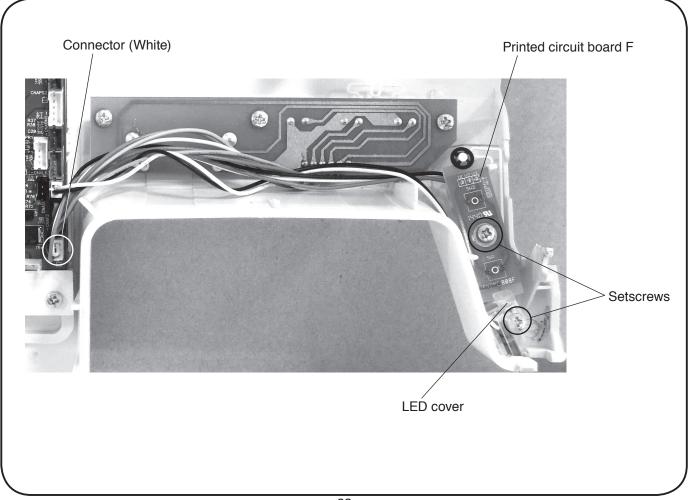
- 1. Remove the front cover (see page 6.)
- 2. Pull out connectors from the printed circuit board A.
- 3. Remove the setscrews (2 pcs.) and LED cover.
- 4. Remove the printed circuit board F2.

TO ATTACH:

5. Follow the above procedures in reverse.

NOTE:

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



PRINTED CIRCUIT BOARD F2

TO REMOVE:

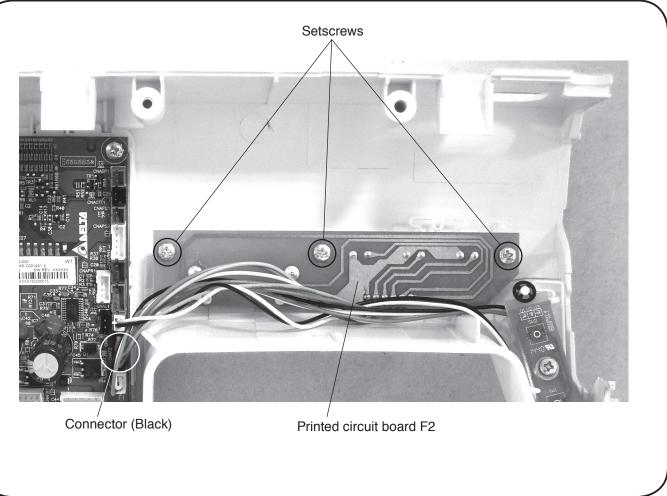
- 1. Remove the front cover (see page 6.)
- 2. Pull out connectors from the printed circuit board A.
- 3. Remove the screws (3 pcs.) and the printed circuit board F2.

TO ATTACH:

4. Follow the above procedures in reverse.

NOTE:

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



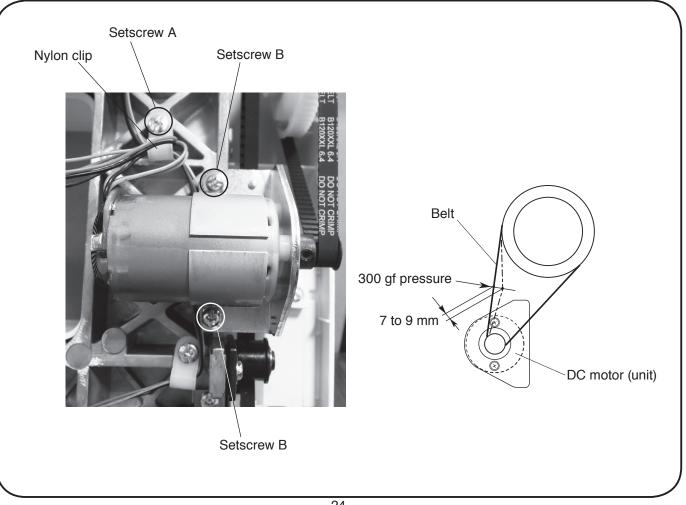
DRIVING MOTOR

TO REMOVE:

- 1. Remove the front cover (see page 6).
- 2. Remove the setscrews A and nylon clip.
- 3. Remove the setscrew B (2 pcs.), the driving motor and the belt.

TO ATTACH:

- 4. Install the driving motor and the motor belt. Tighten them with setscrews B ((2 pcs.) lightly.
- 5. Move the motor up or down to adjust the motor belt tension. The belt should deflect 7 to 9 mm when applying 300 grams of load to the middle of the belt. Tighten the setscrews B ((2 pcs.) firmly.
- 6. Secure the cables using the nylon clip and tighten the setscrew A.
- 7. Attach the front cover.



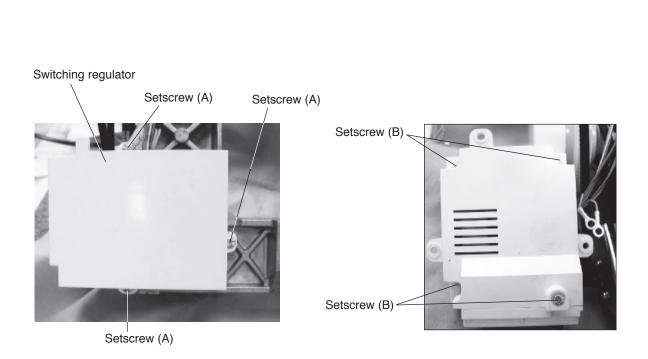
SWITCHING REGULATOR UNIT

TO REMOVE:

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

TO ATTACH:

4. Follow the above procedures in reverse.



ADJUSTING BUTTONHOLE LEVER POSITION

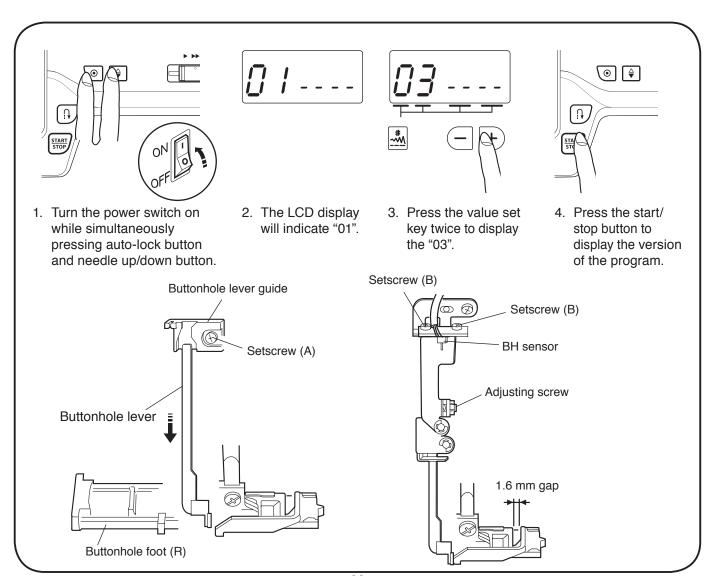
TO ADJUST THE BUTTONHOLE LEVER GUIDE:

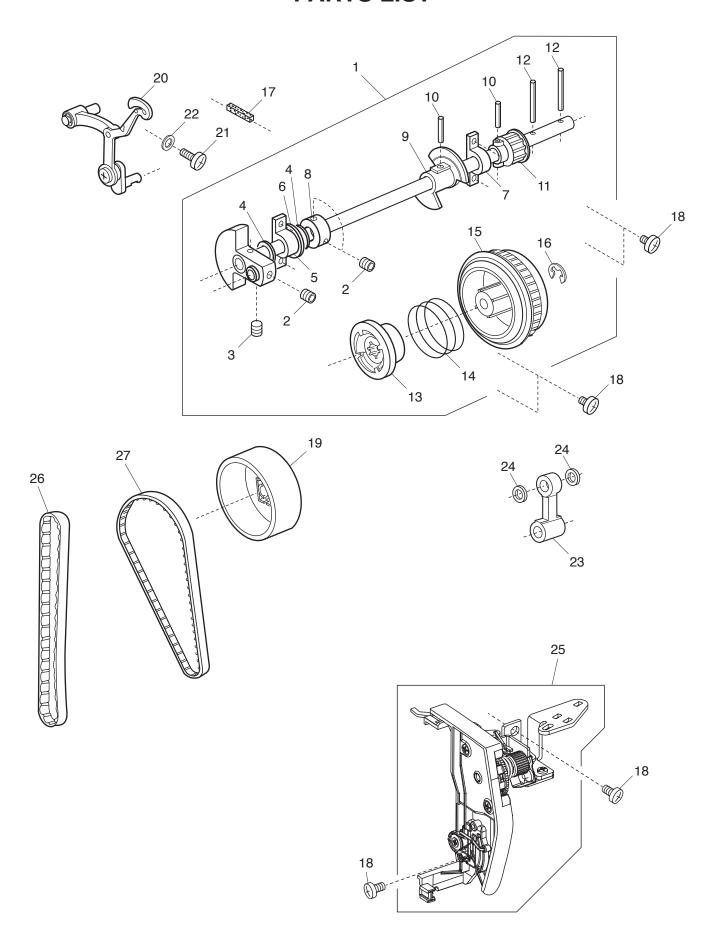
- 1. Enter the buttonhole sensor adjusting mode. (see below. The LCD should display BH symbol.)
- 2. Remove the face cover (see page 4) and loosen the setscrew (A).
- 3. Move the buttonhole lever guide so the BH symbol disappear when the button hole lever is lowered. Tighten the setscrew (A).

TO ADJUST THE BUTTONHOLE SENSOR POSITION.

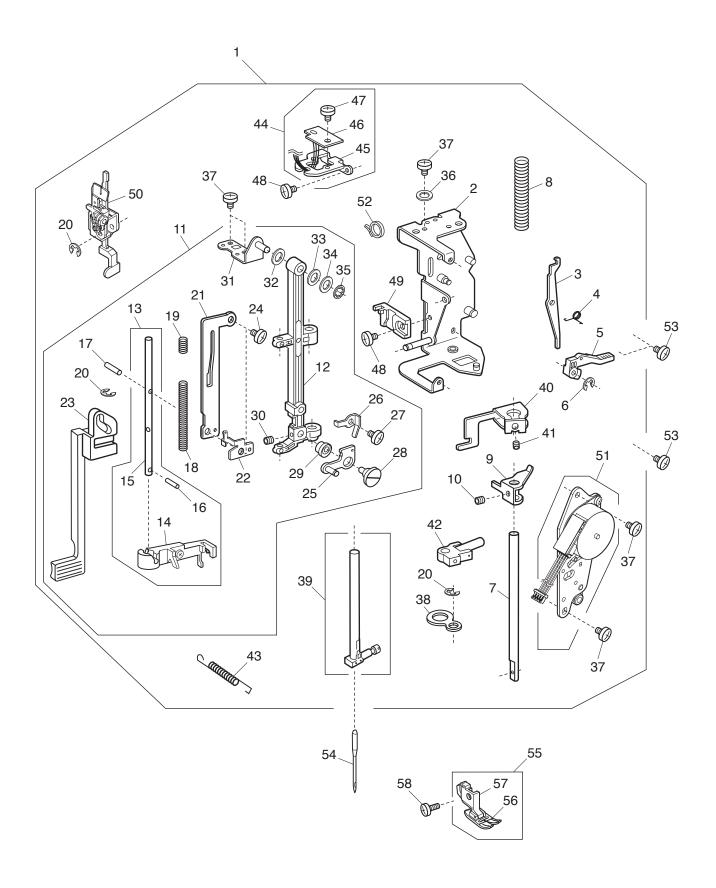
- 4. Attach the buttonhole foot (R).
- 5. Lower the buttonhole lever to its lowest position and open a 1.6 mm gap between the slider and the buttonhole foot.
- 6. Turn the adjusting screw to the left until the LCD display BH symbol.
- 7. Next, turn the adjusting screw to the right until the BH symbol 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 2 setscrews (B) and clean it out with a swab.

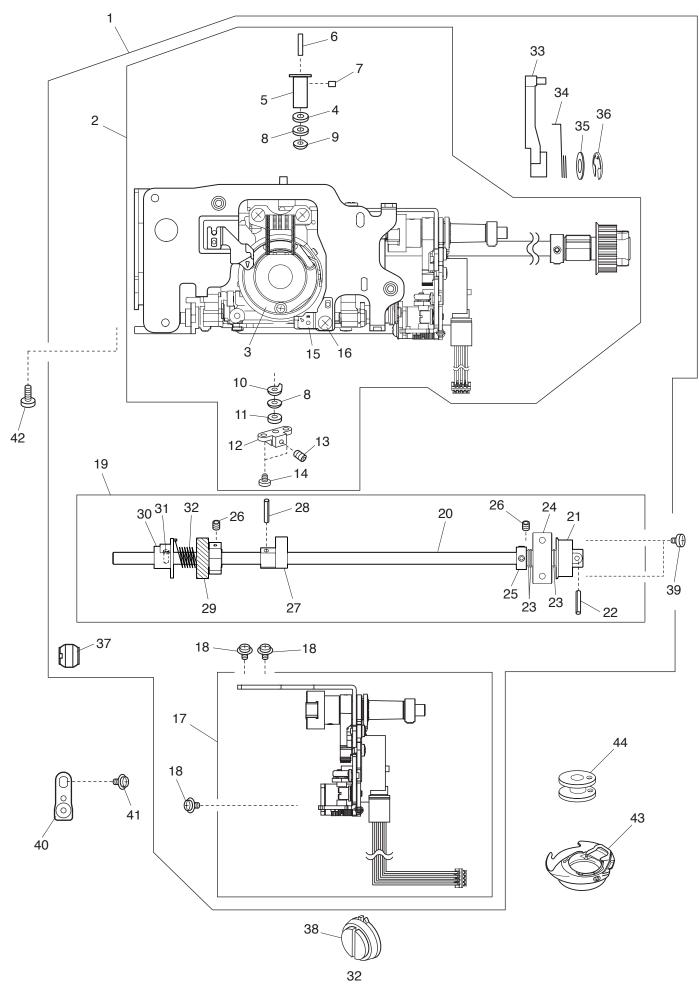




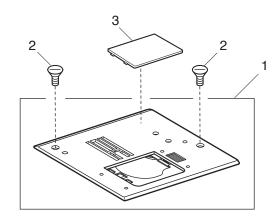
KEY	PARTS		
 NO.	NO.	DESCRIPTION	
1	808601005	Upper shaft (unit)	
2	000111201	Hexagonal socket screw 4x4	
3	000112800	Hexagonal socket screw 4x6	
4	000036201	Washer FT80	
5	508120006	Shaft supporter plate	
6	823110009	Felt	
7	508054101	Shaft supporter plate	
8	820166001	Lower shaft ring	
9	808003001	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	508056402	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	811511605	Thread tension (unit)	
26	808037004	Syncro belt S5M	
27	808021005	Timing belt 120	

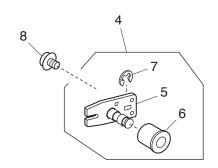


KEY	PARTS	
NO.	NO.	DESCRIPTION
1	808602615	Presser bar base plate (unit)
2	808006303	Presser bar base plate
3	808007005	Thread tension release lever
4	503041007	Thread tension release spring
5	502024001	Presser foot lifter
6	000001609	Snap ring E-5
7	508002104	Presser bar
8	508038006	Presser bar spring
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	678084007	Eccentric pin
29	808074003	Washer
30	000111902	Hexagonal socket screw 3x4
31	808009007	Supporter adjusting plate
32	000036500	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 40	508607105	Needle bar (unit)
40 41	808011002 000177205	Threader position set plate Hexagonal socket screw 3x6
42	508509003	Needle bar connecting stud (unit)
43	844038018	Needle bar supporter spring
43	808606000	Buttonhole sensor (unit)
45	845002005	Sensor set plate
46	843502602	Printed circuit board E1 (unit)
47	000101105	Setscrew 3x4
48	000101103	Setscrew 3x5
49	830057021	Buttonhole lever guide
50	808673008	Buttonhole lever (unit)
51	808605504	Zigzag width motor (unit)
52	000053008	Cord binder
53	000081005	Setscrew 4x8
54	102408089	Needle
55	660509008	Presser foot (unit)
56	832523007	Zigzag foot
57	660806008	Presser foot holder
58	660106001	Setscrew

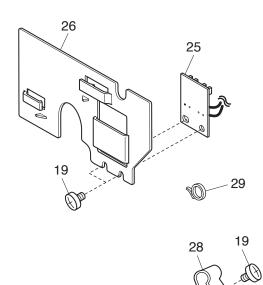


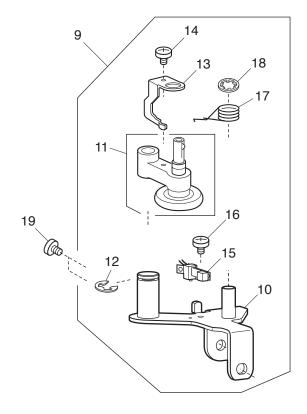
KEY	PARTS	
NO.	NO.	DESCRIPTION
1	811612009	Hook race (whole unit)
2	811613000	Hook race (unit)
3	660536004	Hook body (unit)
4	508118001	Washer
5	820123006	Hook race shaft
6	820124007	Hook shaft oil wick (1)
7	820125008	Hook shaft oil wick (2)
8	000038409	Washer
9	508139008	Magnet set plate
10	627192001	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	811611101	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 supporter plate
25	820166001	Lower shaft ring
26	000111201	Hexagonal socket screw 4x4
27 28	809014008	Feed cam
26 29	000005407	Spring pin 3x12
30	808137005 753183025	Lower shaft gear Feed lifting cam
31	820161006	Feed lifting carri
32	686035008	Feed lifting cam spring
33	809013007	Feed fork
34	809015007	Feed fork spring
35	000071105	Washer 5
36	000071103	Snap ring E-4
37	732034003	Lower shaft bushing
38	809053009	Feed balancing dial 2
39	000081005	Setscrew 4x8
40	809042005	Lower shaft bushing set plate
41	000115607	Setscrew TP 4x8
42	000110007	Setscrew 4x12
43	858570009	Bobbin holder (unit)
44	102261103	Bobbin

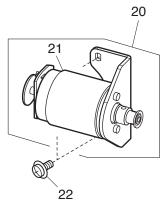


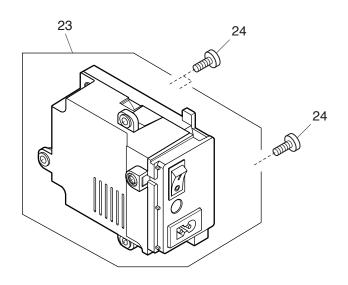




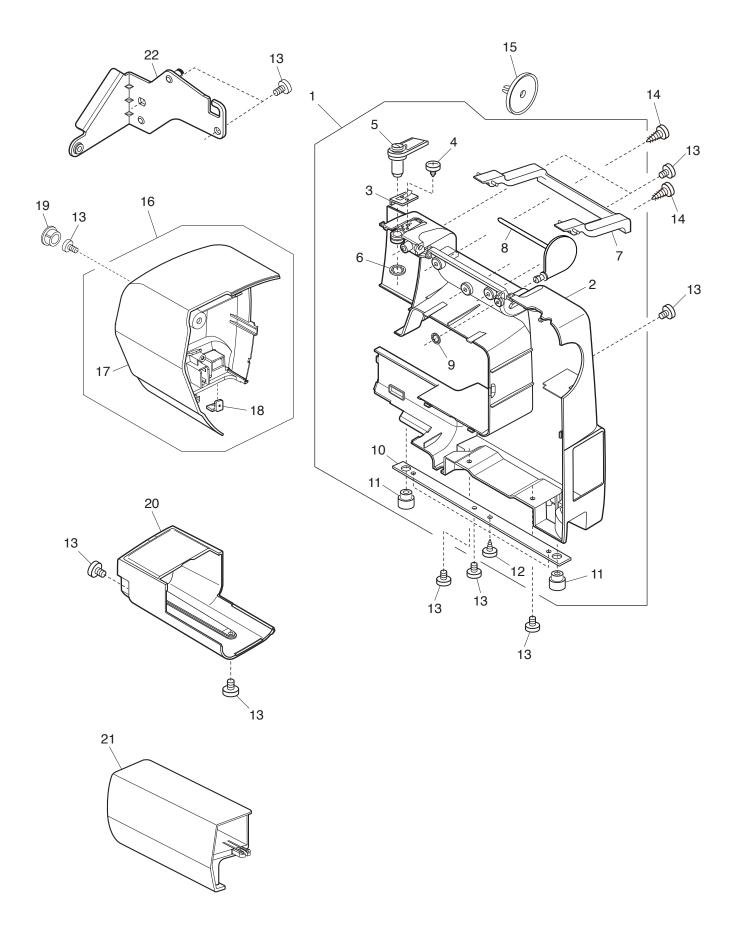




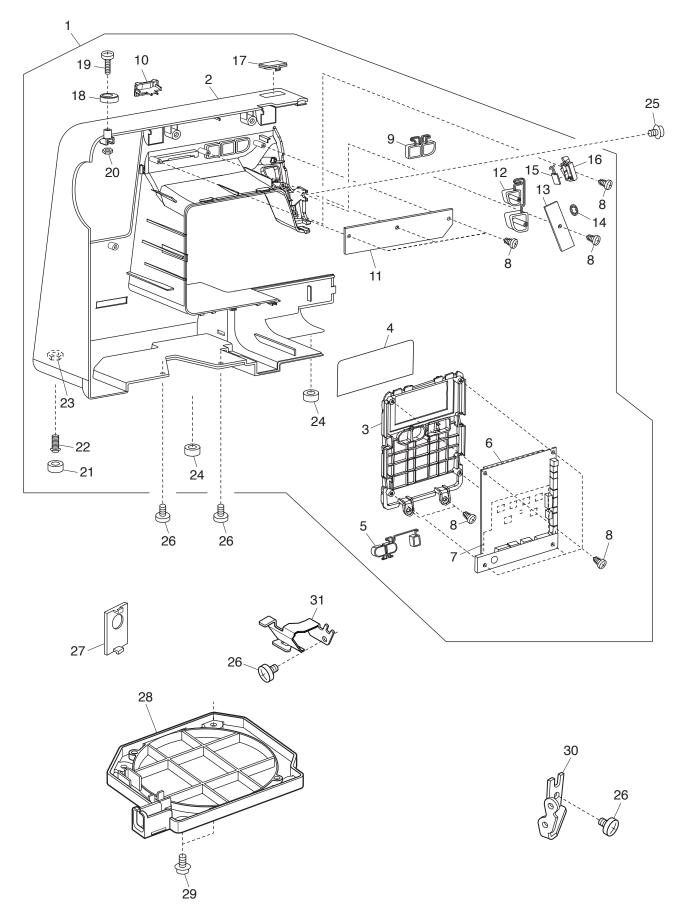




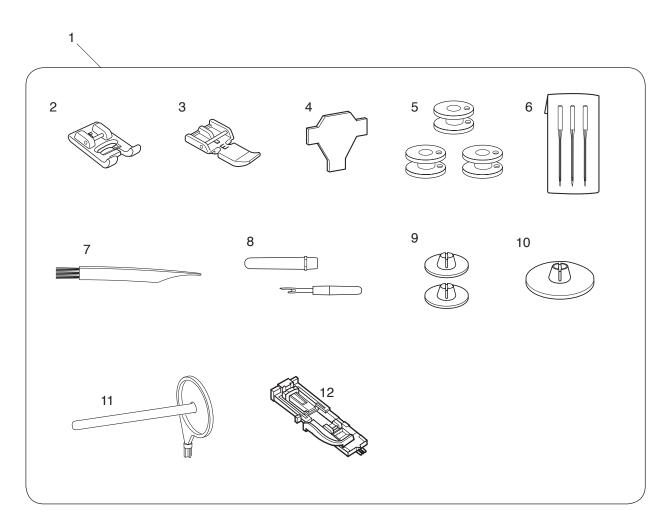
KEY	PARTS	
NO.	NO.	DESCRIPTION
1	809511000	Needle plate (unit)
2	681009101	Setscrew
3	846271103	Hook cover plate
4	808614001	Idler (unit)
5	808038005	Idler set plate
6	625217100	Idler
7	000002806	Snap ring E-6
8	000115607	Setscrew TP 4x8
9	808615002	Bobbin winder (unit)
10	808039006	Bobbin winder set plate
11	508507001	Bobbin winder arm (unit)
12	000001609	Snap ring E-5
13	508111004	Clutch lever
14	000120203	Setscrew 3x8 (B)
15	856512100	Switch (unit)
16	000081706	Setscrew 2.5x5
17	808040000	Spring
18	000013903	Snap ring CS-5
19	000081005	Setscrew 4x8
20	808617004	DC motor (unit)
21	808502005	DC motor
22	000115700	Setscrew TP 4x10
23	808657084	Switching regulator (unit)
24	000103509	Setscrew 4x10
25	808504007	Printed circuit board P (unit)
26	808181004	Cord guide
27	000188209	Nylon clip ACC-1.5
28	000188405	Nylon clip ACC-2
29	000053008	Cord binder

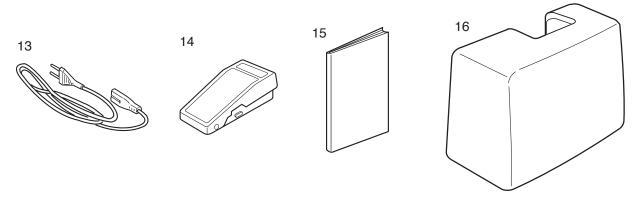


KEY	PARTS	
 NO.	NO.	DESCRIPTION
1	809604333	Rear cover (unit)
2	809025B07	Rear cover
3	827503108	Top cover thread guide (unit)
4	000162001	Setscrew 2.6x5 (B)
5	650503311	Thread guide (unit)
6	000014409	Snap ring CS-8
7	809026003	Carrying handle
8	809027004	Spool pin
9	000013800	Snap ring CS-6
10	809028005	Arm leg rear
11	735003002	Bed rubber cushion
12	000198604	Setscrew 4x14 (B)
13	000081005	Setscrew 4x8
14	000160401	Setscrew 4x16 (B)
15	822020503	Spool holder
16	811604064	Face plate (unit)
17	811012A11	Face plate
18	840602006	Thread cutter (unit)
19	653006101	Cap
20	808061007	Free arm cover
21	811013A03	Extension table
22	811001009	Face plate set plate



	D	
KEY	PARTS	DECORIDATION
NO.	NO.	DESCRIPTION
1	811603395	Front cover (unit)
2	811004A43	Front cover
3	811005D02	Ornamental panel 1
4	811006A08	Ornamental panel 2
5	811010A01	Button 2
6	811401070	Printed circuit board A (unit)
7	811009007	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	811011A04	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	000081005	Setscrew 4x8
27	809039009	Cap
28	808059301	Bed cover
29	000149312	Setscrew 3x8
30	639080002	Front cover set plate
31	808016018	Arm thread guide





·	KEY	PARTS	
	NO.	NO.	DESCRIPTION
	1	811870007	Standard accessories
	2	822804118	Satin foot (F)
	3	808852003	Zipper foot (E)
	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)
	13	830335004	Power supply cord
	14	C-1036	Foot control
	15	811851024	Instruction book
	16	404701404	Cover