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SERVICE MANUAL & PARTS LIST

MODEL: Magenta 43

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TROUBLESHOOTING

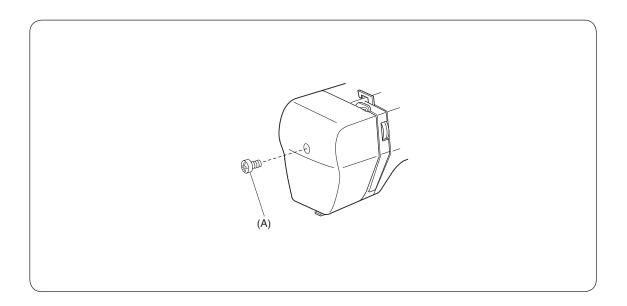
PROBLEM	CAUSE	REMEDY	REFERENCE
Skipping stitches	Needle is not inserted properly.	Insert the needle properly.	
	2. Needle is bent or worn.	Change the needle.	
	3. Incorrectly threaded.	Rethread.	
	Needle or thread are inappropriate for fabric being sewn.	Use the recommended sewing needle and thread.	
	5. Sewing on stretch fabric.	Use A #11 blue tip needle.	
	Inappropriate needle bar height.	See mechanical adjustment "Needle bar height."	P. 15
	7. Inappropriate needle to hook timing.	See mechanical adjustment "Needle timing to shuttle."	P. 16
	8. Inappropriate needle to shuttle race clearance.	See mechanical adjustment "Clearance between needle and shuttle race."	P. 12, 13
Fabric not moving	Incorrect feed dog height.	See mechanical adjustment "Feed dog height."	P. 14
	Thread on bottom side of fabric is jammed up.	Make sure to bring both needle and bobbin thread under the foot when starting sewing.	
	3. Feed dog teeth are worn.	Change the feed dog.	

PROBLEM	CAUSE	REMEDY	REFERENCE
Breaking upper thread	Initial sewing speed is too fast.	Start with medium speed.	
	2. Thread path is incorrect.	Use the proper thread path.	
	3. Needle is bent or dull.	Replace with a new needle.	
	Upper thread tension is too strong.	Adjust upper thread tension correctly.	P. 7
	5. Needle size is inappropriate for fabric.	Use appropriate needle and thread for fabric 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.	
Breaking bobbin thread	Incorrectly thread bobbin case.	Thread bobbin case correctly.	
	Too much thread is around on the bobbin.	Adjust the position of stopper.	
	Lint is stuck inside the hook race.	Clean the hook race.	
	4. Thread quality is too low.	Change to a high quality sewing thread.	
	5. Thread is jamming around the bobbin.	Clear out the jamming thread.	
	Bobbin thread tension is too strong.	Adjust bobbin thread tension correctly.	P. 8
5. Needle breaks	Needle is hitting the needle plate.	See mechanical adjustment "Needle drop."	P. 11
	2. Needle is bent or worn.	Change the needle.	
	3. Needle is hitting the hook race.	See mechanical adjustment "Clearance between needle and shuttle race."	P. 12, 13
	The fabric moves while the needle is piercing it, or the needle zigzags while in fabric.	See mechanical adjustment "Needle swing."	P. 10
	5. Fabric is being pulled too strongly while sewing.	Guide the fabric gently while sewing.	

PROBLEM	CAUSE	REMEDY	REFERENCE
6. Noisy operation	Backlash between shuttle hook gear and lower shaft gear is too great.	See mechanical adjustment "Clearance between needle and shuttle race (NO. 2)."	P. 13
	2. Lower shaft gear is loose.	Eliminate the looseness.	
	3. Inappropriate belt tension.	See mechanical adjustment "Motor belt tension."	P. 21
	4. Upper shaft gear is loose.	Eliminate the looseness.	
	5. Not enough oil.	Oil all moving parts.	
7. Deformation of pattern	Inappropriate zigzag synchronization.	See mechanical adjustment "Needle swing."	P. 10
	Inappropriate disengagement of cam follower.	See mechanical adjustment "Disengagement of cam follower."	P. 20
	Upper thread tension is too strong.	Adjust upper thread tension correctly.	P. 7
	4. Inappropriate feed balance.	See mechanical adjustment "Feed balance on stretch stitch."	P. 18

SERVICE ACCESS (1)

FACE COVER



TO REMOVE

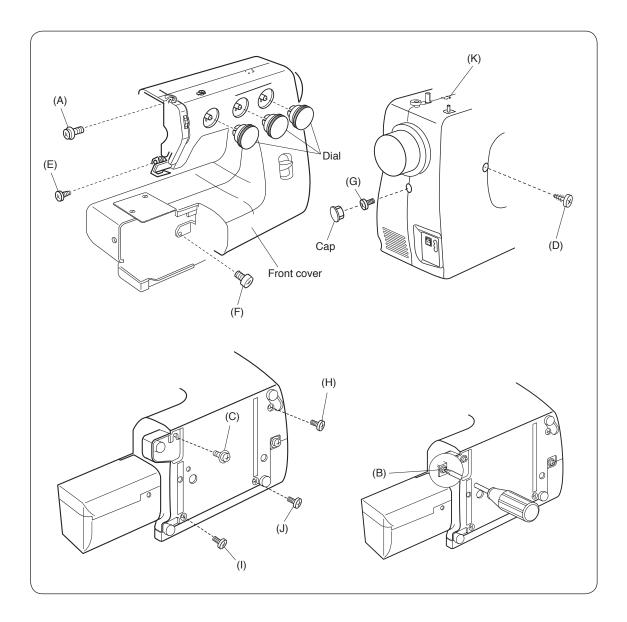
1. Remove the face cover by removing the setscrew (A).

TO ATTACH

2. Follow the above procedure in reverse.

SERVICE ACCESS (1)

FRONT COVER



TO REMOVE

- 1. Remove the face cover (see page 4).
- 2. Remove the dials.
- 3. Loosen the setscrew (A), (B), and (C), and then, remove the front cover by removing the setscrews (D), (E), (F), (G), (H), (I), and (J).

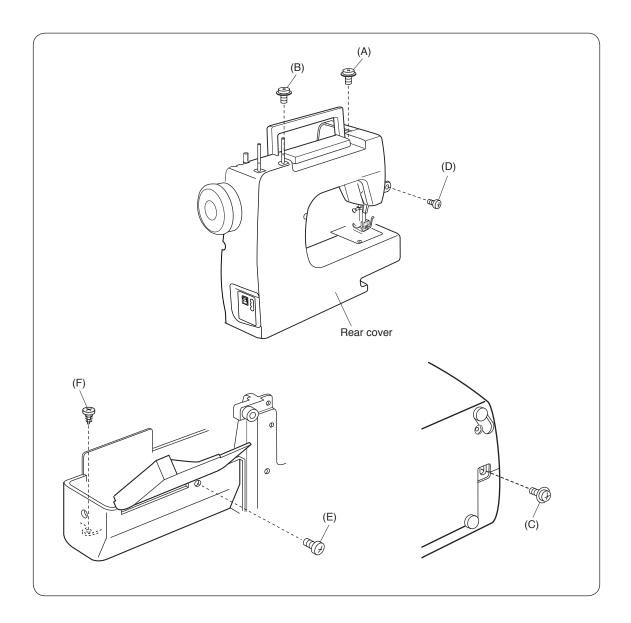
Note: Unhook the tab (K) from the rear cover when removing the front cover.

TO ATTACH

4. Follow the above procedure in reverse.

SERVICE ACCESS (4)

REAR COVER



TO REMOVE

- 1. Remove the face cover and front cover (see pages 4 to 5).
- 2. Loosen the setscrews (A), (B), and (C), and remove setscrews (D), (E), and (F).
- 3. Pull up the spool pins. Remove the machine socket. Remove the rear cover clearing the presser foot lifter from the slit on the cover.

TO ATTACH

4. Follow the above procedure in reverse.

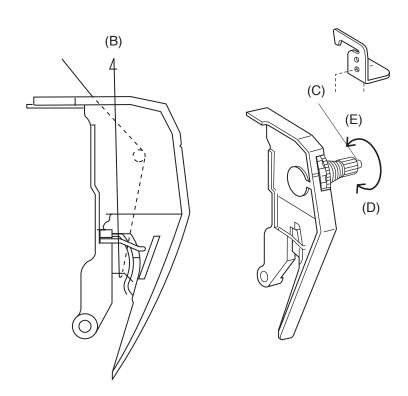
TOP TENSION

TO CHECK:

The standard upper thread tension should be 65 to 95 grams-force when pulling the thread (cotton thread #50) in the direction of (B) with setting the tension dial at "3". (make sure the foot should be lowered.)

If the tension is out of the standard range, adjust it as follows:

- 1. Remove the front cover(see page 5).
- 2. Turn the adjusting screw (C) in the direction of (D) when the upper thread tension is too tight. Turn the adjusting screw (C) in the direction of (E) when the upper thread tension is too loose.
- 3. Attach the front cover.

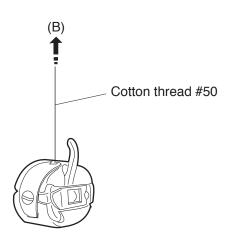


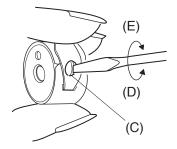
BOBBIN TENSION

TO CHECK:

Set the bobbin in the bobbin case and pass the thread (cotton #50) through the tension spring. The bobbin thread tension should be 32 to 38 grams-force when pulling the thread in the direction of (B). If the tension is out of the range, adjust it as follows:

- 1. Turn the adjusting screw (C) in the direction of (D) when the bobbin thread tension is too tight.
- 2. Turn the adjusting screw (C) in the direction of (E) when the bobbin thread tension is too loose.





PRESSER BAR HEIGHT AND ALIGNMENT

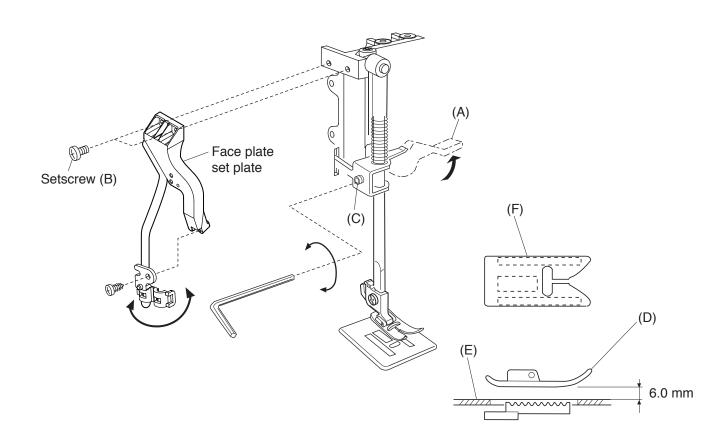
TO CHECK:

- 1. Raise the presser foot lifter (A).
- 2. The distance between the presser foot (D) and the needle plate (E) should be 6.0 mm.

ADJUSTMENT PROCEDURE:

- 1. Remove the face cover (see page 4). Remove the setscrews (B) and the face plate set plate.
- 2. Raise the presser foot lever and loosen the hexagonal socket screw (C) on the presser bar holder. Adjust the distance between the presser foot (D) and the needle plate (E) to 6.0 mm.
- 3. Tighten the hexagonal socket screw (C) securely.
- 4. Tighten the setscrew (B) to attach the face plate set plate.
- 5. Attach the face cover.

NOTE: When you tighten the setscrew (B), make sure that both sides of the presser foot are parallel to the feed dog slot (F) on the needle plate.



NEEDLE SWING

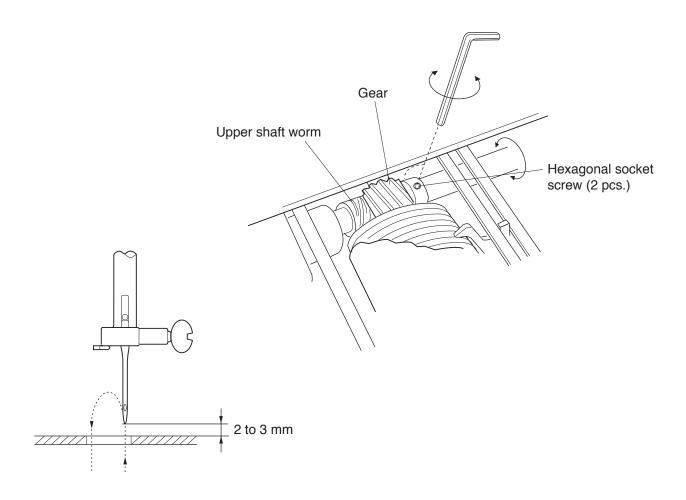
TO CHECK:

Adjust the needle swing according to the following procedure, If the needle bar starts moving sideways while the needle is in the fabric when sewing the zigzag pattern (with the maximum zigzag width).

ADJUSTMENT PROCEDURE:

- 1. Set the pattern selector dial with the maximum zigzag width, and remove the front cover (see page 5).
- 2. Loosen the hexagonal socket screws (2 pcs.).
- 3. Adjust the needle swing by turning the handwheel, while holding the worm so as not to rotate it, until the needle swing starts at 2 to 3 mm above the needle plate after the needle has come out of the right side of the needle hole.
- 4. Tighten the hexagonal socket screws (2 pcs.).
- 5. Attach the front cover.

NOTE: After adjusting the needle swing, check that the upper shaft worm and gear rotate smoothly without any backlash between them.



NEEDLE DROP

TO CHECK:

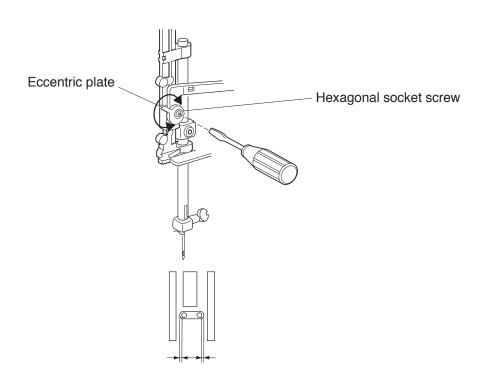
When the needle swings in the maximum zigzag width, the distance between both ends of the needle hole on the needle plate and the needle drop positions should be equal.

If not, adjust as follows:

ADJUSTMENT PROCEDURE:

- 1. Remove the face cover (see page 4).
- 2. Set the pattern selector dial at the maximum zigzag width.
- 3. Loosen the hexagonal socket screw.
- 4. Turn the eccentric plate to adjust the needle drop.
- 5. Tighten the hexagonal socket screw.
- 6. Attach the face cover.

NOTE: Check the hook timing after this adjustment.



Both clearances should be equal

CLEARANCE BETWEEN NEEDLE AND SHUTTLE RACE (ADJUSTMENT METHOD NO. 1)

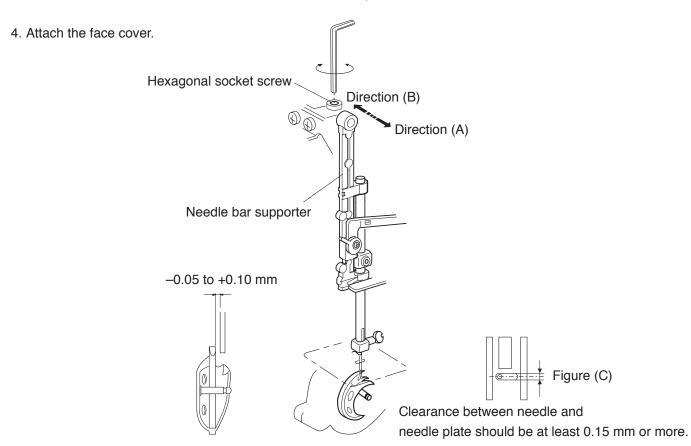
TO CHECK:

The clearance between the needle and shuttle race should be -0.05 to +0.10 mm. If not, adjust as follows:

ADJUSTMENT PROCEDURE:

- 1. Remove the face cover (see page 4).
- 2. Set the pattern select dial at " ...".
- 3. Loosen the hexagonal socket screw, and move the needle bar supporter in the direction of the arrows to get a clearance between –0.05 to +0.10 mm.
- * If clearance is too wide, move the needle bar supporter to direction (A).
- * If clearance is too narrow, move the needle bar supporter to direction (B).
- 4. Tighten the hexagonal socket screw.

NOTE: After this adjustment, check that the clearance between the needle and needle plate is more than 0.15 mm as shown in figure (C). If not, adjust the clearance between needle and shuttle race by using adjustment method NO.2 (see next page). Readjust the clearance between needle and needle plate more than 0.15 mm.



CLEARANCE BETWEEN NEEDLE AND SHUTTLE RACE (ADJUSTMENT METHOD NO. 2)

TO CHECK:

Use this adjustment method NO. 2 if the clearance cannot be adjusted by the method NO.1.

The clearance between the needle and shuttle race should be -0.05 to +0.10 mm.

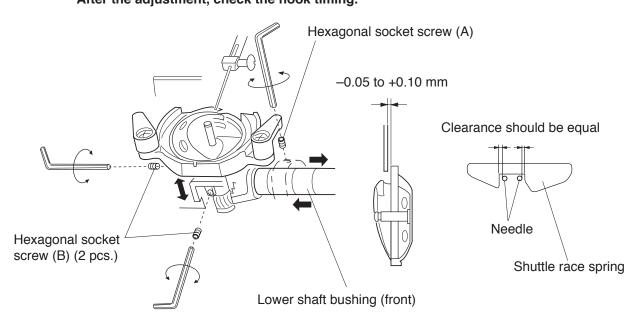
ADJUSTMENT PROCEDURE:

- 1. Set the pattern selector dial at " ...".
- 2. Remove the rear cover (see page 6).
- 3. Loosen the hexagonal socket screw (A) on the lower shaft bushing and slide the gear about 0.5 mm to the right to create some slack between the gears.
- 4. Lower the needle and loosen the hexagonal socket screw (B) (2 pcs.).

 Move the shuttle race unit axially either forward or backward to adjust the clearance between the needle and the shuttle race in the range of -0.05 to +0.10 mm.
- 5. Set the pattern select dial at " \geq ", turn the handwheel to check if the clearance between the needle and inner edges of the shuttle race spring at the left and right needle drops are equal.

 If not, adjust by turning the shuttle race unit.
- 6. Tighten the hexagonal socket screw (B) (2 pcs.).
- 7. Loosen the setscrew on the lower shaft bushing and slide the gear back to the original position while adjusting the backlash.
- 8. Tighten hexagonal socket screw (A) firmly.
- 9. Attach the rear cover.

NOTE: The rotary play of the tip of the shuttle driver should be less than 0.3 mm and the lower shaft should turn smoothly. After the adjustment, check the hook timing.



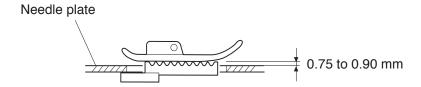
FEED DOG HEIGHT

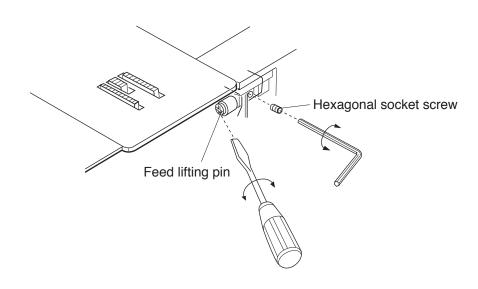
TO CHECK:

- 1. Lower the presser foot.
- 2. Turn the handwheel toward you to bring the feed dog to its highest position. The height of the feed dog from the needle plate should be 0.75 to 0.90 mm.

If it is not in the range, adjust as follows.

- 1. Open the shuttle cover.
- 2. Lower the presser foot and turn the handwheel toward you until the feed dog comes to its highest point.
- 3. Loosen the hexagonal socket screw.
- 4. Turn the feed lifting pin to adjust the height of feed dog (0.75 to 0.90 mm).
- 5. Tighten the hexagonal socket screw.
- 6. Turn the handwheel toward you to recheck the height of feed dog.





NEEDLE BAR HEIGHT

TO CHECK:

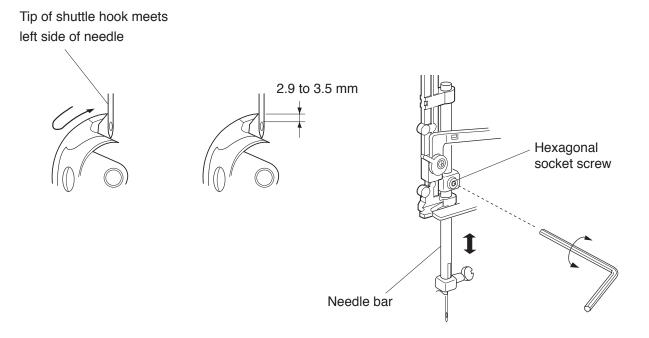
When the tip of shuttle hook meets the left side of the needle in ascending travel of the needle from its left and lowest position.

ADJUSTMENT PROCEDURE:

- 1. Remove the face cover (see page 4).
- 2. Set the pattern selector dial at " 📙 ".
- 3. Open the shuttle cover.
- 4. Remove the shuttle race ring.
- 5. Turn the handwheel toward you until the tip of the shuttle hook meets the left side of the needle.
- 6. Loosen the hexagonal socket screw.
- 7. The distance between the top of the needle eye and the tip of the shuttle hook should be in the range of 2.9 to 3.5 mm.

Adjust the height of the needle bar by moving the needle bar upward or downward without turning it.

- 8. Tighten the hexagonal socket screw.
- 9. Attach the shuttle race ring.
- 10. Attach the face cover.



NEEDLE TIMING TO SHUTTLE

TO CHECK:

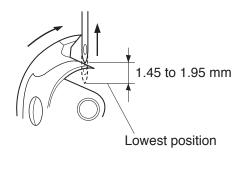
The height of the needle point from its lowest point of travel should be in the range of 1.45 to 1.95 mm when the tip of the shuttle hook just meets the left side of the needle at the left needle position.

ADJUSTMENT PROCEDURE:

- 1. Set the pattern selector dial at " 📙 ".
- 2. Remove the front cover (see page 5).
- 3. Open the shuttle cover.
- 4. Remove the shuttle race ring.
- 5. Turn the handwheel toward you until the tip of the shuttle hook meets the left side of the needle.
- 6. Loosen the hexagonal socket screws (2 pcs.).
- 7. While holding the shuttle hook so it doesn't turn, turn the handwheel toward you until the needle comes to its lowest position.

Then, further turn the handwheel to raise the needle about 1.7 mm from its lowest position.

- 8. Tighten the hexagonal socket screws (2 pcs.).
- 9. Turn the handwheel toward you to check if the height is in the range of 1.45 to 1.95 mm. If it is not in this range, repeat the above procedure.
- 10. Attach the shuttle race ring.
- 11. Attach the base plate.



Lower shaft crank arm

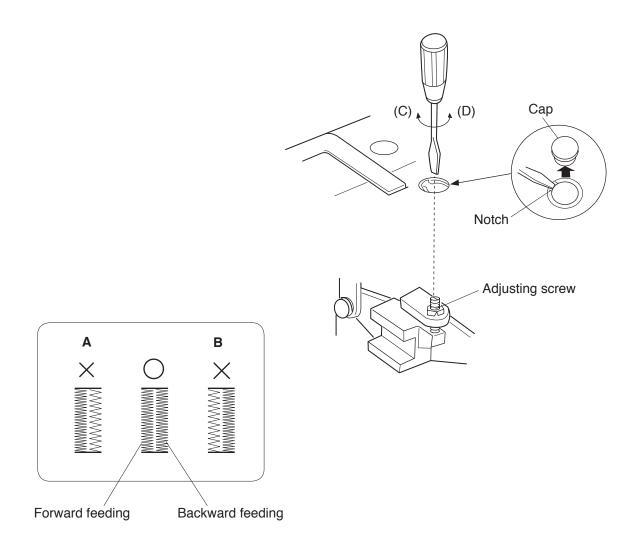
Hexagonal socket screw (2 pcs.)

BUTTONHOLE FEED BALANCE

TO CHECK:

When sewing buttonhole, the stitches on each side of buttonhole should be the same stitch density. The range of 9 to 12 stitches in the right side row "backward feeding" against 10 stitches in the left side row "forward feeding" is considered acceptable.

- 1. Check the stitches by sewing buttonholes, and remove the cap.
- 2. Turn the adjusting screw in the direction of (C) in case of A (right stitches are rough), or in the direction of (D) in case of B (left stitches are rough).
- 3. Attach the cap.



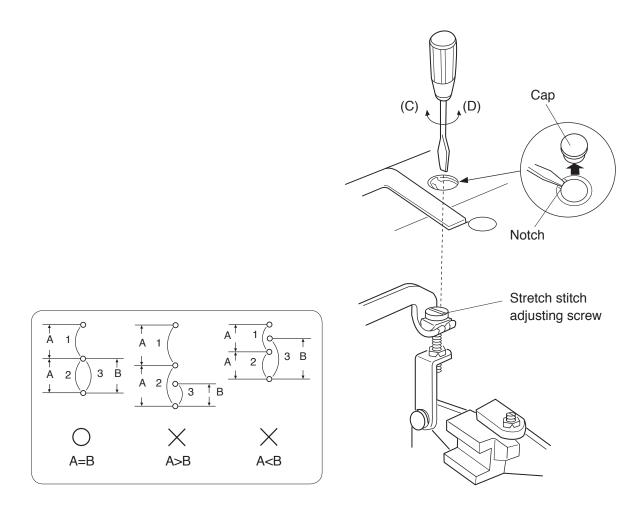
FEED BALANCE ON STRETCH STITCH

TO CHECK:

If the stretch stitch patterns are distorted with setting the stitch length dial at "S.S.".

If there is a difference between forward feeding and backward feeding during stretch stitch patterns, make an adjustment as follows:

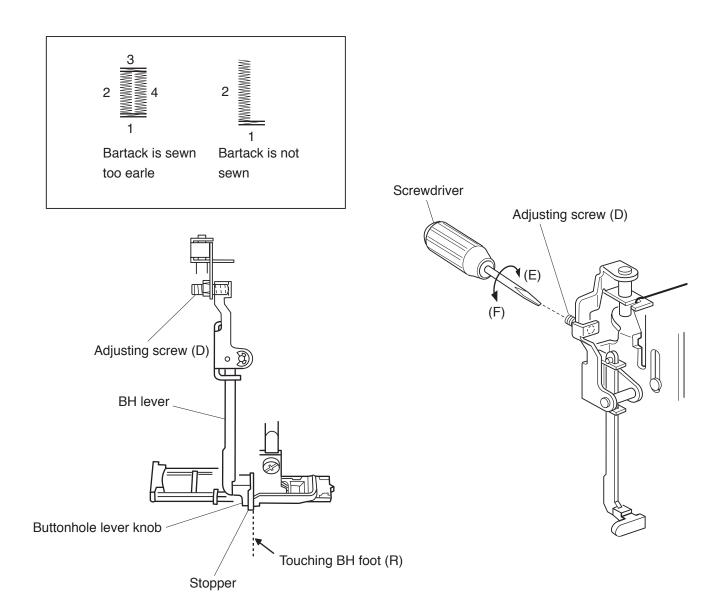
- 1. Remove the cap.
- Set the pattern selector dial at " " , and the stitch length dial at "S.S.".
 Turn the stretch stitch adjusting screw in the direction of (C) when A > B, or in the direction of (D) when A < B.
- 4. Attach the cap.



BUTTONHOLE FUNCTION

The standard buttonhole size is 3 mm longer than the actual button size when sewing with the automatic buttonhole foot. Adjusted as follows:

- 1. Attach the buttonhole foot (R).
- 2. Pull down the BH lever. Turn the adjusting screw (D) until the BH lever knob slightly touches the end of the stopper.
- 3. If the buttonhole sewing step 2 switches over to step 3 (Bartack sewing) yoo soon, turn the adjusting screw in direction of (E).
 - If the Buttonhole sewing step 2 does not switch over to step 3 (Bartack sewing), turn the adjusting screw in direction of (F).



DISENGAGEMENT OF CAM FOLLOWER

TO CHECK:

If the clearance between the cam follower and the top convex of the zigzag cam is not enough, the pattern selector dial is blocked or will not select the correct pattern.

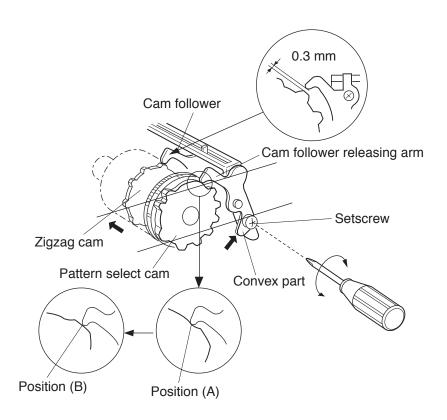
ADJUSTMENT PROCEDURE:

- 1. Remove the front cover (see page 5).
- 2. Set the pattern selector dial at pattern " ...".
- 3. Put the cam follower to the zigzag cam and put the cam follower releasing arm to the pattern selector cam.
- 4. Loosen the setscrew.
- 5. Push the convex part of the cam follower releasing arm in the direction of arrow until the cam follower releasing arm touches position (A) of the pattern select cam, and then, tighten the setscrew.

NOTE: After this adjustment, check that the clearance between the zigzag cam and the cam follower is about 0.3 mm when setting the cam follower releasing arm onto position (B) of pattern selector cam.

6. Attach the front cover.

NOTE: Check the needle movement for straight stitch.

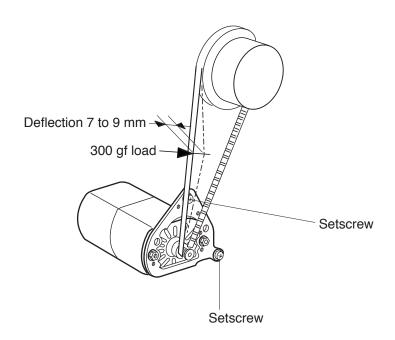


MOTOR BELT TENSION

TO CHECK:

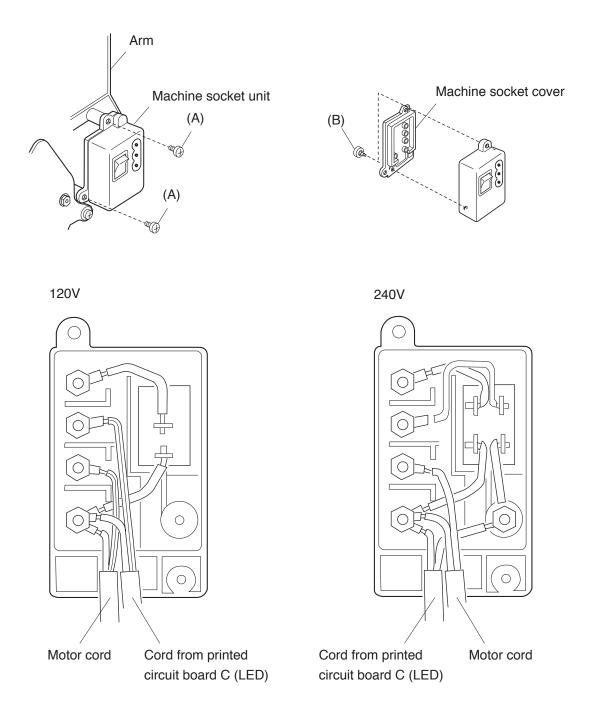
- 1. If the motor belt tension is too tight or too loose, it can cause a belt noise: If the tension is too tight, it can cause the machine to run slowly and the motor to overload; if the tension is too loose; it can cause the belt to jump.
- 2. The correct motor belt tension is when the deflection of motor belt is about 7 to 9 mm. (when pushing the motor belt by finger with a 300 grams-force load.)

- 1. Remove the rear cover (see page 6).
- 2. Loosen the setscrews.
- 3. Move the motor up or down to adjust the deflection about 7 to 9 mm.
- 4. Tighten the setscrews.

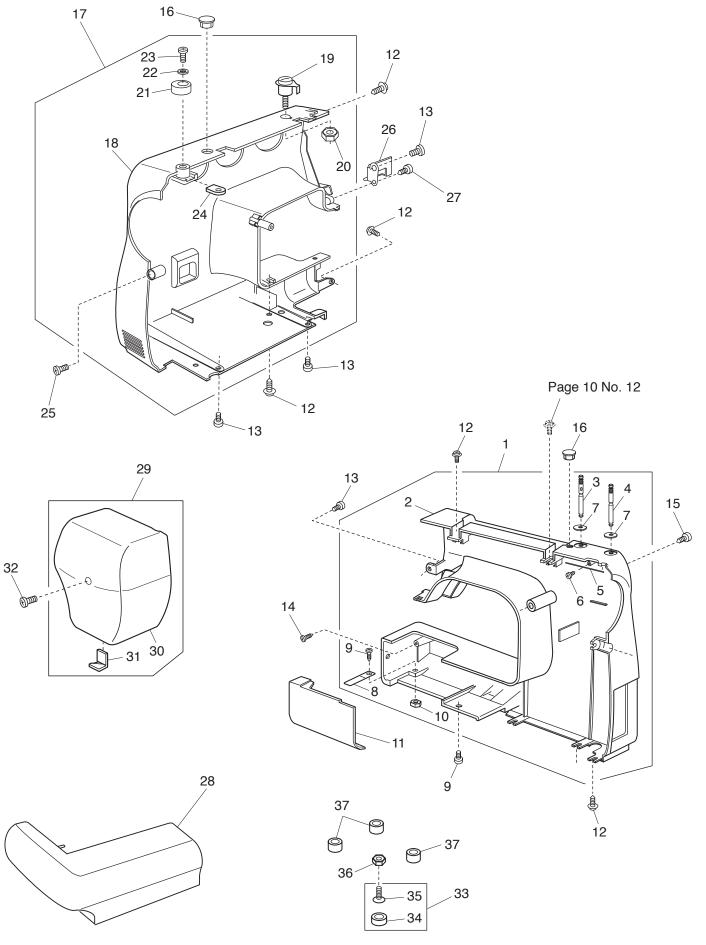


WIRING

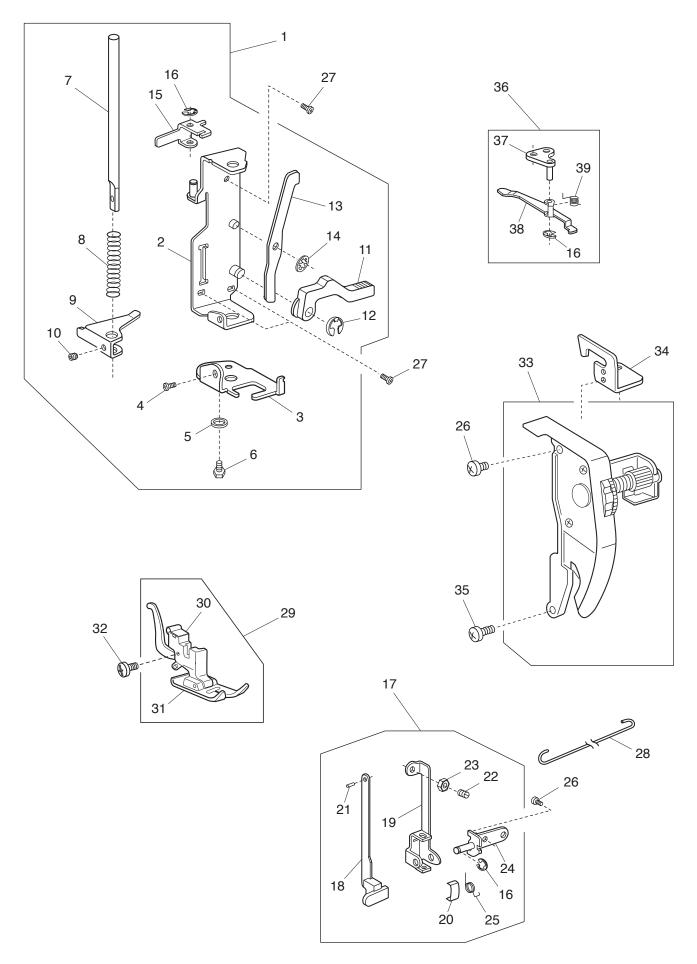
- 1. Remove the rear cover (see page 6).
- 2. Remove the setscrews (A), (B) and machine socket cover.
- 3. Follow the above procedure in reverse.



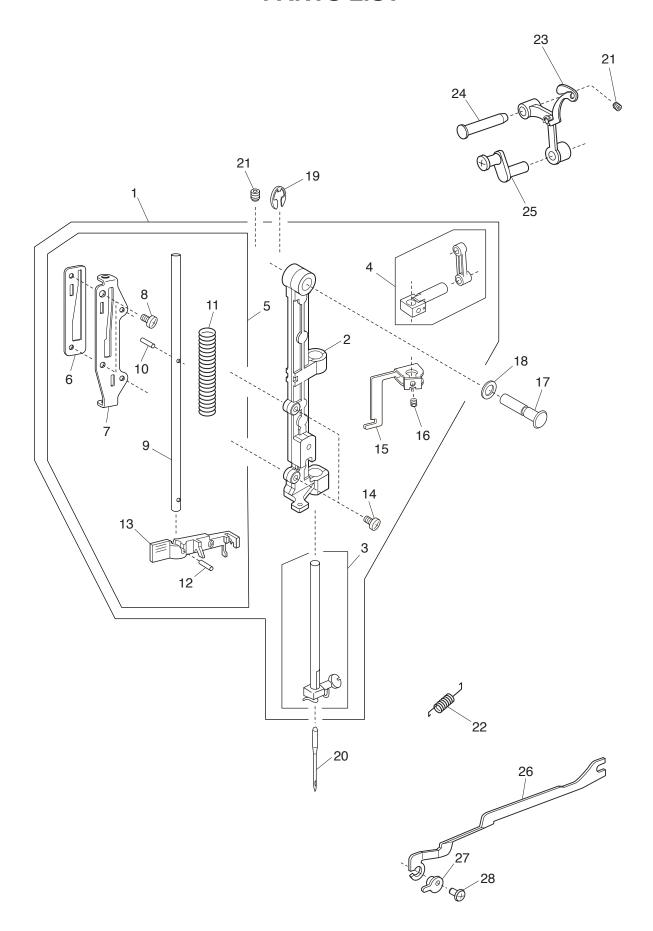




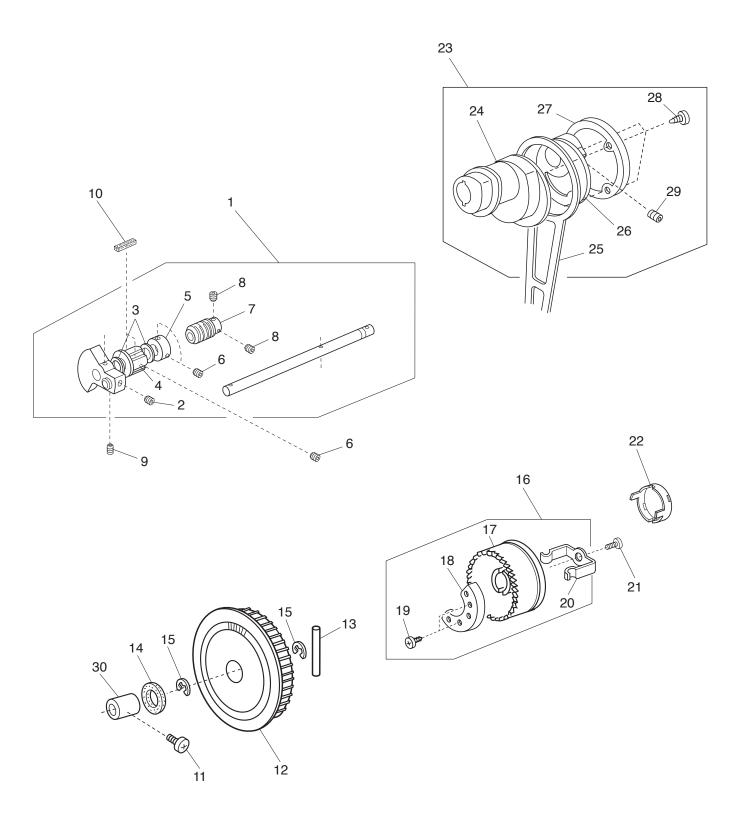
KEY	PARTS	
NO.	NO.	DESCRIPTION
1	306601004	Rear cover (unit)
2	306101009	Rear cover
3	652302004	Spool pin (hole)
4	652205006	Spool pin (no hole)
5	736007009	Spool pin spring
6	000161206	Setscrew 3x10 (B)
7	735013005	Spool pin spring base
8	730006000	Spring
9	000101404	Setscrew 4x6
10	000061205	Nut 4-3-7
11	739004005	Bed cover plate
12	000115205	Setscrew TP 4x6
13	000081005	Setscrew 4x8
14	000121905	Setscrew 4x12 (B)
15	000198604	Setscrew 4x14 (B)
16	653006101	Сар
17	306607435	Front cover (unit)
18	306109B15	Front cover
19	730501011	Thread guide plate (unit)
20	000160102	Adjustable lock nut 4
21	735016307	Bobbin winder stopper
22	000071013	Washer 4
23	000103107	Setscrew 4x14
24	843014004	Nut
25	000101703	Setscrew 4x12
26	745031000	Thread guide plate
27	000107307	Setscrew 3x8 (B)
28	306102000	Extension table
29	306602430	Face cover (unit)
30	306103A08	Face cover
31	840602006	Thread cutter (unit)
32	000272108	Setscrew 4x32
33	735616200	Rubber base (unit)
34	735002001	Rubber base
35	000097901	Flat screw 5x18
36	000061319	Nut 5-1-8
37	739064003	Bed rubber base



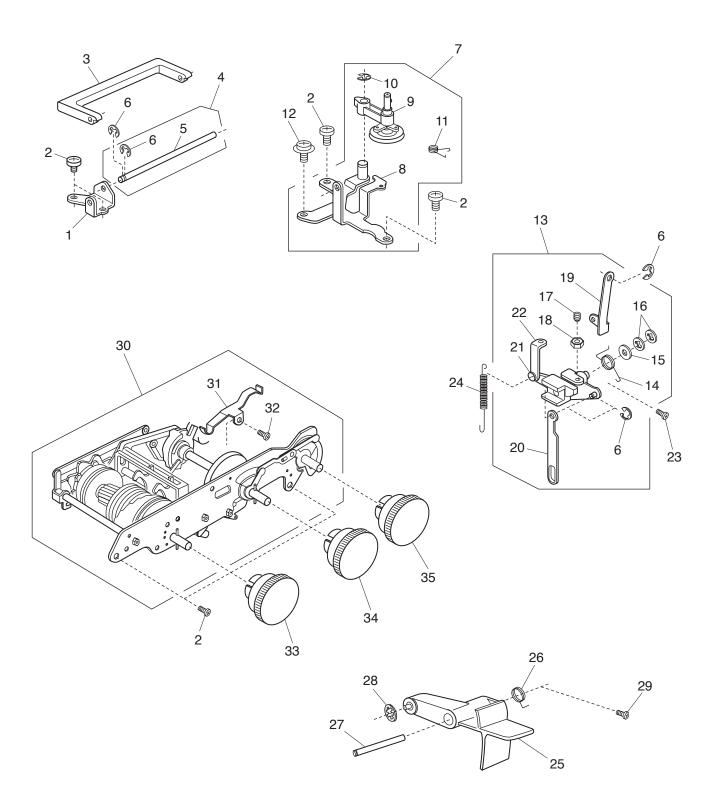
KEY	PARTS	
NO.	NO.	DESCRIPTION
1	308611601	Presser bar base plate (unit)
2	308060001	Presser bar base plate
3	743212001	Needle drop adjusting plate
4	000101404	Setscrew 4x6
5	000070506	Washer 4
6	000138307	Bolt 4x8
7	303017101	Presser bar
8	735027002	Presser bar spring
9	735028003	Presser bar bracket
10	000111500	Hexagonal socket screw 4x8
11	735029004	Presser foot lifter
12	000001609	Snap ring E-5
13	735030008	Tension release lever
14	000013903	Snap ring CS-5
15	740051001	BH regulating lever
16	000002105	Snap ring E-3
17	740617001	BH lever (unit)
18	753629109	BH lever
19	740047004	BH lever supporter
20	753027008	Friction spring
21	000023009	Spring pin 1.6x4
22	000113306	Socket screw 4x10
23	000160102	Adjustable lock nut 4
24	740048005	BH lever base plate
25	740049006	BH lever spring
26	000103808	Setscrew 3x5
27	000081005	Setscrew 4x8
28	740052002	BH shifting rod
29	301612003	Presser foot (unit)
30	611510000	Presser foot holder
31	301505002	Zigzag foot
32	660106001	Setscrew
33	306501140	Tension assembly (unit)
34	739016000	Top cover thread guide
35	000101703	Setscrew 4x12
36	304610000	Tension release arm (unit)
37	739017001	Tension release arm base
38	304045008	Tension release arm
39	739019003	Tension release spring



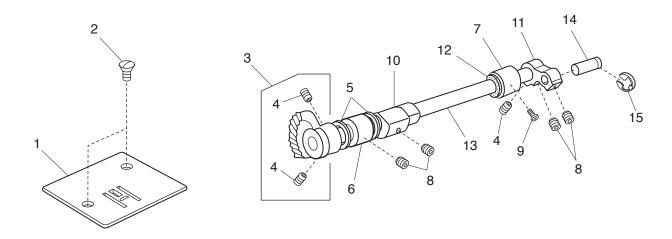
KEY	PARTS	
NO.	NO.	DESCRIPTION
1	743678205	Needle bar supporter (unit)
2	743246004	Needle bar supporter
3	311622007	Needle bar (unit)
4	311502000	Needle bar connecting stud (unit)
5	311611106	Needle threader guide plate (unit)
6	311027006	Needle threader guide plate
7	311032107	Needle threader shaft plate
8	000101105	Setscrew 3x4
9	301034005	Needle threader shaft
10	000122906	Guide pin E-2x14-CH
11	734094007	Needle threader shaft spring
12	000003508	Spring pin 2x8
13	639643009	Needle threader plate (unit)
14	000103808	Setscrew 3x5
15	311028007	Needle threader set plate
16	000111902	Hexagonal socket screw 3x4
17	730022002	Needle bar supporter pin
18	673022002	Spring washer
19	000002507	Snap ring E-4
20	102408089	Needle
21	000111304	Hexagonal socket screw 5x5
22	743216005	Needle bar supporter spring
23	625506109	Thread take-up lever (unit)
24	647040108	Thread take-up lever supporter pin
25	735504008	Needle bar crank (unit)
26	735119002	Zigzag rod
27	310041003	Eccentric plate
28	000078319	Setscrew 3x6

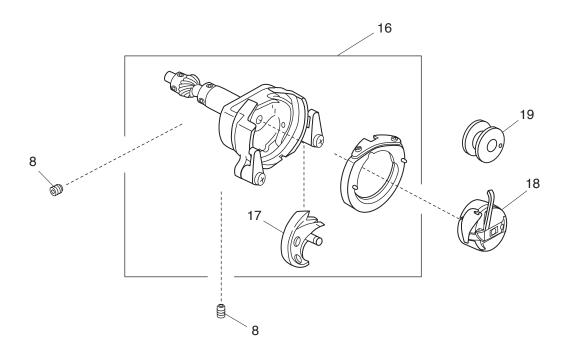


KE	Υ	PARTS	
NC).	NO.	DESCRIPTION
	1	304607004	Upper shaft (unit)
	2	102073003	Setscrew
	3	000036717	Thrust washer
	4	732025001	Upper shaft front bushing
	5	639095000	Ring
	6	000111304	Hexagonal socket screw 5x5
	7	660113001	Worm
	8	000111201	Hexagonal socket screw 4x4
	9	761052007	Setscrew
1	0	731312005	Felt
1	1	000172602	Setscrew 5x8
1	2	743019006	Belt wheel
1	3	000023803	Spring pin 4x40
1	4	743029009	Felt
1	5	000030205	Snap ring E-8
1	6	306605189	Handwheel (unit)
1	7	306105335	Handwheel
1	8	304050006	Balance weight
1	9	000107802	Setscrew 3x10 (B)
2	20	639113016	Clutch spring
2	21	000081005	Setscrew 4x8
2	22	739101357	Clutch cap
2	23	304609006	Crank rod (unit)
2	24	304042005	Feed cam
2	25	743011008	Crank rod
2	26	304044007	Crank cam
2	27	304043006	Crank cam plate
2	28	000161309	Setscrew 3x12 (B)
2	29	000110107	Hexagonal socket screw 5x5 (WP)
3	80	732003003	Upper shaft rear bushing

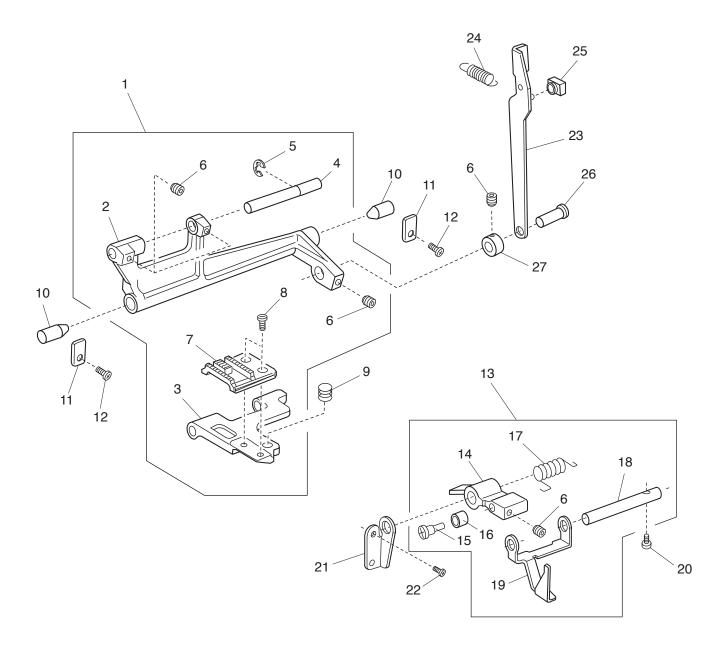


KEY	PARTS	
NO.	NO.	DESCRIPTION
1	740010008	Handle supporter
2	000081005	Setscrew 4x8
3	735017308	Handle
4	740624001	Carrying handle shaft (unit)
5	740011009	Handle shaft
6	000002105	Snap ring E-3
7	740602209	Bobbin winder supporter (unit)
8	740003101	Bobbin winder base plate
9	735501005	Bobbin winder arm (unit)
10	000002806	Snap ring E-6
11	740042009	Bobbin winder arm spring
12	000115607	Setscrew TP 4x8
13	311604302	Feed regulator (unit)
14	735077007	Feed regulating body spring
15	735073003	Plain washer
16	000013800	Snap ring CS-6
17	648010009	Setscrew
18	000160102	Adjustable lock nut 4
19	739020007	Feed regulating rod
20	730045001	Reverse link
21	648012001	Setscrew
22	734039004	SS rod
23	000172602	Setscrew 5x8
24	670100006	Feed regulator spring
25	306106004	R button
26	739063002	R button spring
27	736015000	R button shaft
28	000014007	Snap ring CS-4
29	000101301	Setscrew 5x10
30	306603109	Zigzag mechanism (unit)
31	737011009	Index spring
32	000103808	Setscrew 3x5
33	306114M01	Selector dial (pattern)
34	306118M01	Selector dial (stitch length)
35	306114M02	Selector dial (width)

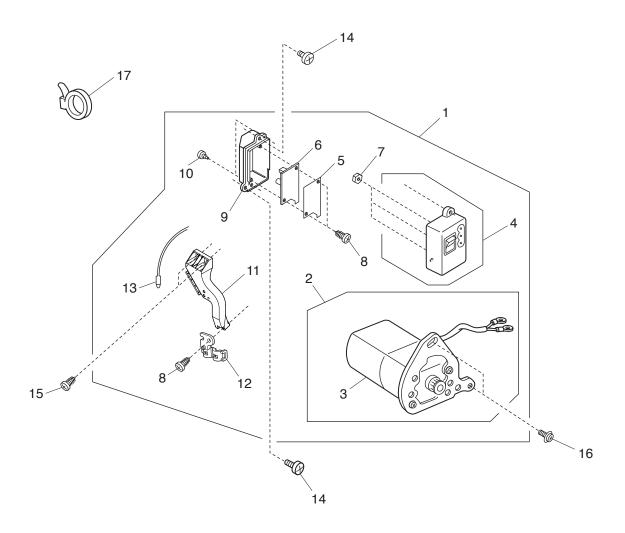


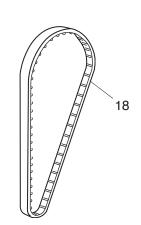


KE)	Y	PARTS	
NC).	NO.	DESCRIPTION
	1	744004001	Needle plate
	2	681009101	Setscrew
	3	735950003	Lower shaft gear (unit)
	4	000110107	Hexagonal socket screw 5x5 (WP)
	5	000036201	Washer
	6	735233003	Bushing
	7	735234004	Bushing
	8	000111304	Hexagonal socket screw 5x5
	9	000172602	Setscrew 5x8
1	0	735061101	Feed lifting cam
1	1	639036003	Lower shaft crank arm
1.	2	822070003	Felt
1	3	735236006	Lower shaft
1-	4	639037004	Pin
1.	5	000001609	Snap ring E-5
1	6	735610101	Shuttle race body (unit)
1	7	532096007	Shuttle hook
1	8	647515006	Bobbin case (unit)
1	9	102261000	Bobbin

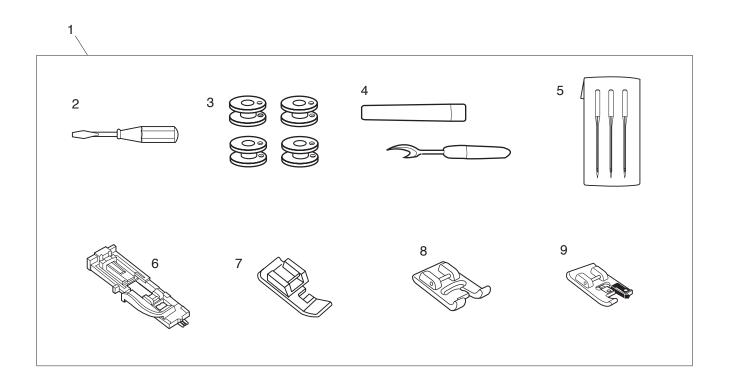


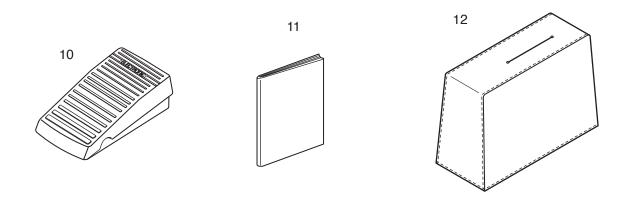
KEY	/ PARTS	}	
NO	NO.	DESC	RIPTION
	1 735612	2000 Feed	rock shaft (unit)
:	2 735078	Roos Feed	rock shaft
;	3 735079	9009 Feed I	bar
•	4 735080	0003 Feed I	oar shaft
!	5 000002	2507 Snap	ring E-4
(6 000111	201 Hexag	onal socket screw 4x4
•	7 73508	Feed of	dog
	8 735082	2005 Setscr	rew
,	9 735083	3006 Feed I	par spring
10	0 735084	Feed i	rock shaft center
1	1 735085	5008 Feed	rock shaft center plate
1:	2 00010	404 Setscr	rew 4x6
1:	3 301609	9007 Feed I	ifting arm (unit)
1.	4 301027	7005 Feed I	ifting arm
1	5 735087	7000 Feed I	ifting pin
10	6 735088	RO01 Feed I	ifting roller
1	7 73006	1003 Feed I	ifting spring
18	8 735090	0006 Feed I	ifting shaft
19	9 740013	Drop f	eed selecting plate
20	00010	703 Setscr	rew 4x12
2	1 739022	2009 Feed I	ifting shaft holder
2:	2 00008	1119 Setscr	rew 4x6
2	3 743012	2009 Feed	rod
2	4 743013	B000 Feed	rod spring
2	5 10214 ⁻	1003 Feed	regulator slide block
20	6 73507 ⁻	104 Feed	rock shaft connecting pin
2	7 735276	Ring	





KEY	PARTS		
 NO.	NO.	DESCRIPTION	
1	311610105	Machine sokcet (whole unit)	
2	743671002	Motor assembly (unit) including bracket	
3	025601004	Motor with pully	
4	739503308	Machine socket (unit)	
5	508134003	Insulating paper	
6	508512102	Printed circuit board C (unit)	
7	000060802	Nut 3-1-5.5	
8	000120203	Setscrew 3x8 (B)	
9	508133002	Machine socket cover	
10	000107802	Setscrew 3x10 (B)	
11	311029008	Face plate set plate	
12	508143005	LED holder	
13	508515105	LED (unit)	
14	000103509	Setscrew 4x10	
15	000101404	Setscrew 4x6	
16	000115504	Setscrew TP 5x10	
17	000053008	Cord binder	
18	650166008	Motor timing belt	





KEY	PARTS	
NO.	NO.	DESCRIPTION
1	306870198	Accessory set
2	647803004	Screwdriver
3	102261000	Bobbin
4	647808009	Seam ripper
5	639804000	Needle set (unit)
6	740801004	Automatic buttonhole foot
7	611406002	Zipper foot
8	737801015	Satin stitch foot
9	620404008	Overcasting foot
10	045501005	Foot control
11	306801648	Instruction book
12	741811000	Cover