SERVICING MANUAL & PARTS LIST

MODELS JF 1022
JF 1018S
JF 1018
JF 1014
JF 1012 (BL1108)
JF 1004

PBBL1108

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WHAT TO DO WHEN

CONDITION	CAUSE	HOW TO FIX	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.	
	4. 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.	57
	6. INAPPROPRIATE NEEDLE BAR HEIGHT.	SEE MECHANICAL ADJUSTMENT *NEEDLE BAR HEIGHT*.	P,15
	7. INAPPROPRIATE NEEDLE TO HOOK TIMING.	SEE MECHANICAL ADJUSTMENT "HOOK TIMING".	P.16
	8. INAPPROPRIATE NEEDLE TO HOOK CLEARANCE.	SEE MECHANICAL ADJUSTMENT *CLEARANCE BETWEEN NEEDLE AND HOOK*.	P.13.14
2. FABRIC NOT MOVING	1. INCORRECT F.D. HEIGHT.	SEE MECHANICAL ADJUSTMENT "HEIGHT OF FEED DOG".	P.12
	2. 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.	

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CONDITION	CAUSE	HOW TO FIX	REFERENCE
3. BREAKING UPPER	INITIAL SEWING SPEED IS TOO FAST.	START WITH MEDIUM SPEED.	
THREAD	2. THREAD PATH IS INCORRECT.	USE THE PROPER THREAD PATH.	
	3. NEEDLE IS BENT OR DULL.	REPLACE WITH A NEW NEEDLE.	
	4. UPPER THREAD TENSION IS TOO STRONG.	ADJUST UPPER THREAD TENSION CORRECTLY.	P.7
	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	INCORRECTLY THREADED BOBBIN CASE.	THREAD BOBBIN CASE CORRECTLY.	
THREAD	2. TOO MUCH THREAD IS AROUND ON THE BOBBIN.	ADJUST THE POSITION OF STOPPER.	
	LINT IS STUCK INSIDE THE BOBBIN HOLDER.	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.	
*	6. 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 HOOK".	P.13,14
	4. 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.	

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CONDITION	CAUSE	HOW TO FIX	REFERENCE
6. NOISY OPERATION	BACKLASH BETWEEN SHUTTLE HOOK GEAR AND LOWER SHAFT GEAR IS TOO GREAT.	SEE MECHANICAL ADJUSTMENT *CLEARANCE BETWEEN NEEDLE AND HOOK (NO.2)*.	P.14
	2. LOWER SHAFT GEAR IS LOOSE.	ELIMINATE THE LOOSENESS.	
	INAPPROPRIATE BELT TENSION.	SEE MECHANICAL ADJUSTMENT "MOTOR BELT TENSION".	P.25
	4. UPPER SHAFT GEAR IS LOOSE. 5. NOT ENOUGH OIL.	ELIMINATE THE LOOSENESS. OIL ALL MOVING PARTS.	
7. DEFORMATION PATTERN	INAPPROPRIATE ZIGZAG SYNCHRONIZATION.	SEE MECHANICAL ADJUSTMENT "NEEDLE SWING".	P.10
	2. INAPPROPRIATE DISENGAGEMENT OF CAM FOLLOWER.	SEE MECHANICAL ADJUSTMENT *DISENGAGEMENT OF CAM	P.20-23
		FOLLOWER".	
	3. 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.17

SERVICE ACCESS

FACE PLATE

TO REMOVE

1. REMOVE THE FACE PLATE BY REMOVING THE CAP AND SET SCREW.

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2. MOUNT THE FACE PLATE BY THE SET SCREW, AND THEN, MOUNT THE CAP.

BELT COVER

TO REMOVE

 LOOSEN THE SET SCREW, AND REMOVE THE BELT COVER BY REMOVING THE BELT COVER RIB FROM THE FRONT COVER.

TO ATTACH

MOUNT THE BELT COVER RIB TO THE FRONT COVER, AND THEN, MOUNT THE BELT COVER BY THE SET SCREW.

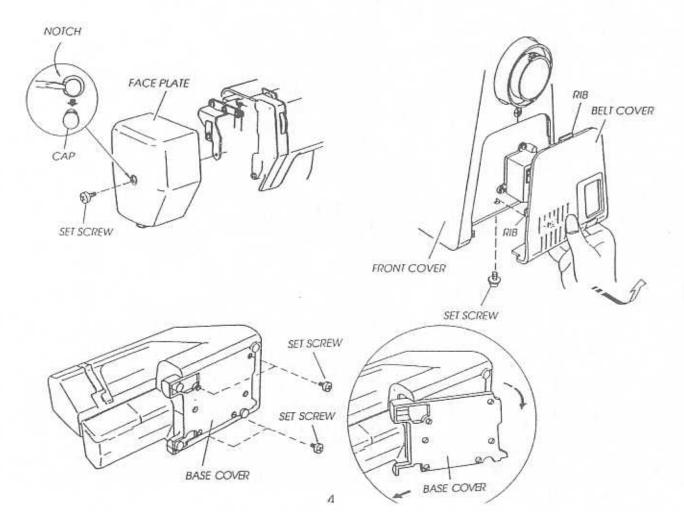
BASE COVER

TO REMOVE

REMOVE THE BASE COVER BY FOUR SET SCREWS.

TO ATTACH

2. MOUNT THE BASE COVER BY FOUR SET SCREWS.



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SERVICE ACCESS

FRONT COVER

TO REMOVE

- 1. REMOVE THE FACE PLATE AND BELT COVER. (SEE PAGE 4.)
- 2. REMOVE SELECTOR DIALS (A) AND (B).

 NOTE: NUMBER OF SELECTOR DIALS IS AS FOLLOWS:

 MODEL JF 1022

 JF 1018

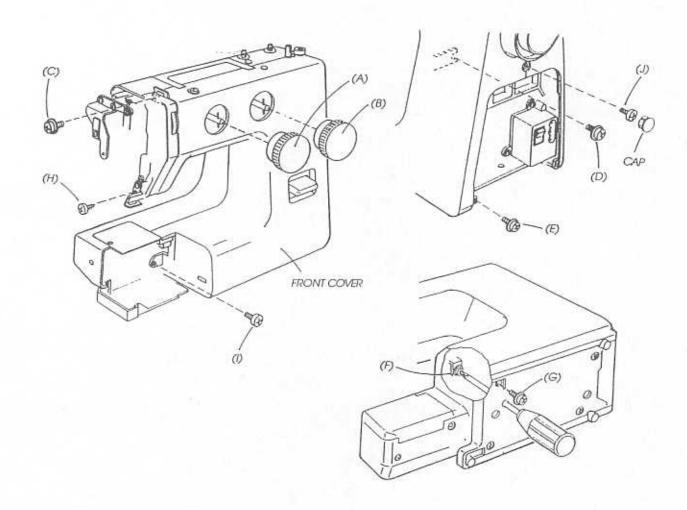
 MODEL JF 1018S

 JF 1014

 JF 1012
- LOOSEN SET SCREWS (C), (D), (E), (F), (G), AND THEN, REMOVE THE FRONT COVER BY REMOVING SET SCREWS (H), (I), AND (J).

TO ATTACH

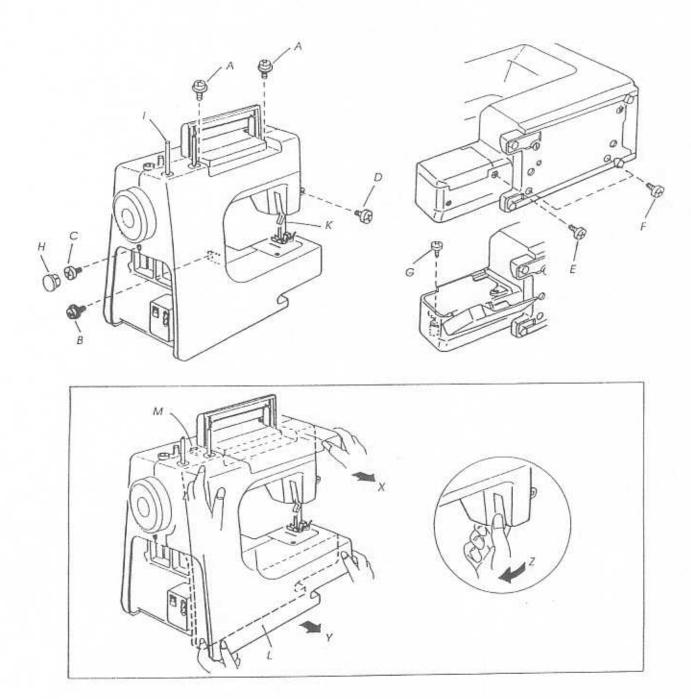
4. MOUNT THE FRONT COVER IN REVERSE PROCEDURE OF THE REMOVING.



REAR COVER

NOTE: REAR COVER COULD BE REMOVED WITHOUT REMOVING FIRST FRONT COVER. TO REMOVE

- 1. REMOVE THE BELT COVER (SEE PAGE 4).
- 2. LOOSEN THE SET SCREWS A AND B AND REMOVE THE CAPH.
- 3. REMOVE THE SET SCREWS C, D, E, F AND G.
- 4. PULL UP THE 2 SPOOL PINS I AND J AND LOWER THE PRESSER FOOT LIFTER K.
- WHILE PUSHING THE REAR COVER L NEAR THE NOTCHES L AND M, PULL UPPER PART OF THE REAR COVER (SEE X BELOW).
- 6. PULL LOWER PART OF THE REAR COVER TOWARD YOU AND SLIDE IT TO THE LEFT (SEE Y AND Z BELOW).
 - WHILE SLIDING THE REAR COVER TO THE LEFT, REMOVE THE PRESSER BAR LIFTER K.



UPPER THREAD TENSION DIAL

CORRECT SETTING

THE STANDARD UPPER THREAD TENSION SHOULD BE 65 - 95g 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.)

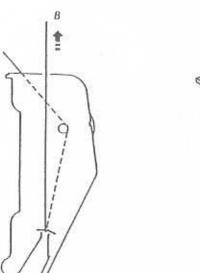
IF THE TENSION IS OUT OF THE STANDARD RANGE, ADJUST IT AS FOLLOWS:

TO ADJUST

- 1. REMOVE THE FRONT PANEL COVER UNIT. (SEE PAGE 5.)
- TURN THE ADJUSTING NUT C IN THE DIRECTION OF D WHEN THE UPPER THREAD TENSION IS TOO TIGHT.
 TURN THE ADJUSTING NUT C IN THE DIRECTION OF E WHEN THE UPPER THREAD TENSION

IS TOO LOOSE.

ATTACH THE FRONT PANEL COVER UNIT.





BOBBIN THREAD TENSION

CORRECT SETTING

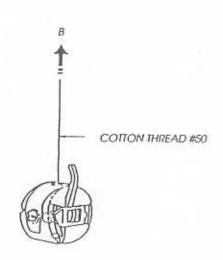
SET THE BOBBIN IN THE BOBBIN CASE AND PASS THE THREAD (COTTON #50) THROUGH THE TENSION SPRING.

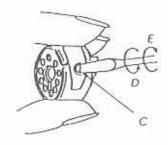
THE BOBBIN THREAD TENSION SHOULD BE 45 - 55g WHEN PULLING THE THREAD IN THE DIRECTION OF B.

IF THE TENSION IS OUT OF THE RANGE, ADJUST IT AS FOLLOWS:

TO ADJUST

- TURN THE ADJUSTING SCREW C IN THE DIRECTION OF D WHEN THE BOBBIN THREAD TENSION IS TOO TIGHT.
- TURN THE ADJUSTING SCREW C IN THE DIRECTION OF E WHEN THE BOBBIN THREAD TENSION IS TOO LOOSE.





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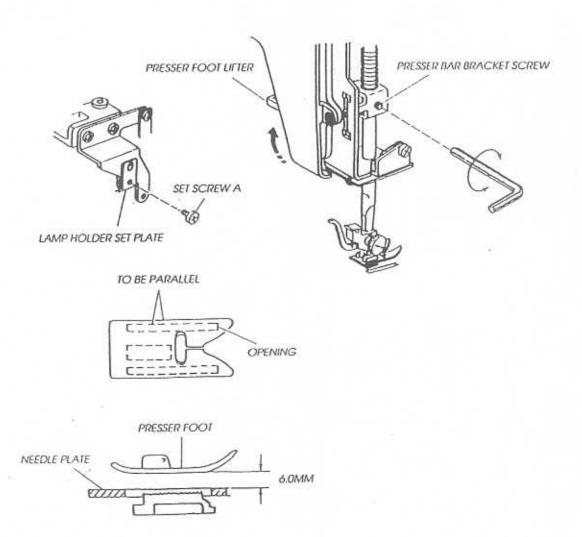
PRESSER BAR HEIGHT AND ALIGNMENT

CORRECT SETTING

THE STANDARD PRESSER BAR HEIGHT IS 6.0MM BETWEEN THE BOTTOM SURFACE OF THE FOOT AND NEEDLE PLATE WHEN PRESSER FOOT LIFTER IS UP POSITION.

TO ADJUST

- 1. REMOVE THE FACE PLATE. (SEE PAGE 4.)
- REMOVE SET SCREW A AND REMOVE LAMP HOLDER SET PLATE.
- RAISE THE PRESSER FOOT AND LOOSE THE PRESSER BAR BRACKET SCREW AND ADJUST THE HEIGHT (6.0MM).
- CHECK IF THE PRESSER FOOT IS PARALLEL TO THE OPENINGS FOR THE FEED DOG ON THE NEEDLE PLATE. IF NOT, ADJUST IT.
- TIGHTEN THE PRESSER BAR BRACKET SCREW WHILE HOLDING THE PRESSER BAR TO KEEP THE FOOT PARALLEL TO THE OPENINGS.
- ATTACH THE LAMP HOLDER SET PLATE.
- ATTACH THE FACE PLATE.



NEEDLE SWING

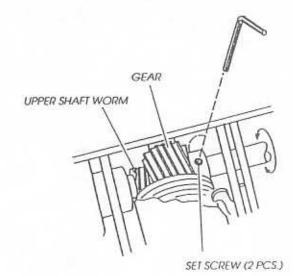
CORRECT SETTING

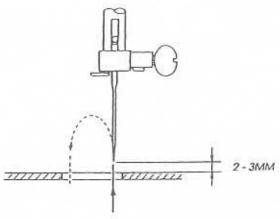
IF THE TIMING OF NEEDLE SWING IS NOT CORRECTLY ADJUSTED, THE NEEDLE WILL MOVE SIDEWISE WHILE IT IS IN THE FABRIC.

IDEALLY THE NEEDLE SHOULD START SWING FROM A POSITION 2 - 3 MM ABOVE THE NEEDLE PLATE IN ITS RIGHT OUTFLOW. (WITH MAXIMUM ZIGZAG WIDTH)

TO ADJUST

- SET THE PATTERN SELECTOR DIAL WITH MAXIMUM ZIGZAG WIDTH, AND REMOVE THE FRONT COVER. (SEE PAGE 5.)
- 2. LOOSEN TWO SET SCREWS.
- ADJUST THE NEEDLE SWING BY TURNING THE BALANCE WHEEL, WHILE PRESSING THE WORM SO AS NOT TO ROTATE IT, UNTIL THE NEEDLE SWING STARTS AT 2 - 3MM ON THE NEEDLE PLATE AFTER THE NEEDLE HAS COME OUT OF THE RIGHT SIDE OF THE NEEDLE HOLE.
- TIGHTEN TWO SET SCREWS.
- MOUNT 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

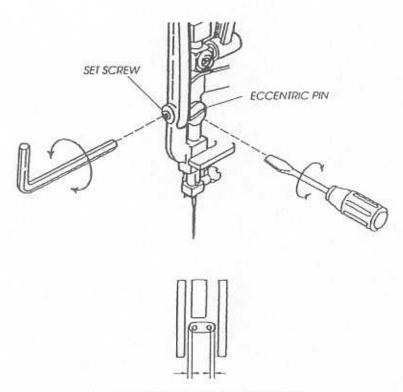
CORRECT SETTING

WHEN THE NEEDLE SWINGS IN MAXIMUM ZIGZAG WIDTH, THE DISTANCE BETWEEN THE BOTH ENDS OF NEEDLE HOLE ON THE NEEDLE PLATE AND THE NEEDLE DROP POSITIONS SHOULD BE EQUAL.

IF NOT, MAKE AN ADJUSTMENT AS FOLLOWS:

TO ADJUST

- REMOVE THE FACE PLATE. (SEE PAGE 4.)
- 2. SET THE PATTERN SELECTOR DIAL AT MAXIMUM ZIGZAG WIDTH.
- 3. LOOSEN THE SET SCREW.
- 4. TURN THE ECCENTRIC PIN TO ADJUST THE NEEDLE DROP POSITION.
- 5. TIGHTEN THE SET SCREW.
- ATTACH THE FACE PLATE.
 NOTE: CHECK THE HOOK TIMING AFTER THIS ADJUSTMENT.



BOTH CLEARANCE SHOULD BE EQUAL.

HEIGHT OF FEED DOG

CORRECT SETTING

LOWER THE PRESSER FOOT AND TURN THE BALANCE WHEEL TOWARD YOU UNTIL THE NEEDLE BAR COMES TO THE HIGHEST POINT OF ITS TRAVEL.

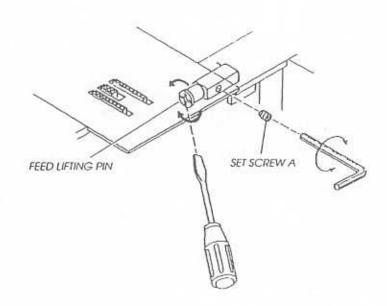
IN THIS CONDITION, THE HEIGHT OF THE FEED DOG ABOVE THE NEEDLE PLATE SHOULD BE 0.75 - 0.90MM.

IF IT IS NOT IN THE RANGE, MAKE AN ADJUSTMENT AS FOLLOWS:

TO ADJUST

SHIPPOT

- 1. SET THE STITCH LENGTH DIAL AT (4). (PATTERN SELECT DIAL AT ANY POSITION.)
- LOWER THE PRESSER FOOT AND TURN THE BALANCE WHEEL UNTIL THE FEED DOG COMES TO ITS HIGHEST POINT.
- LOOSEN THE SET SCREW A.
- 4. TURN THE FEED LIFTING PIN TO ADJUST THE HEIGHT OF FEED DOG (0.75 0.90MM).
- 5. TIGHTEN THE SET SCREW A.
- 6. TURN THE BALANCE WHEEL TO RECHECK THE HEIGHT OF FEED DOG.
 - * RAISE NEEDLE TO ITS HIGHEST POSITION.
 - * MODEL JD 1804 IS NOT EQUIPPED WITH ANY STITCH LENGTH DIAL.





CLEARANCE BETWEEN NEEDLE AND HOOK (NO.1)

CORRECT SETTING

THE CLEARANCE BETWEEN NEEDLE AND SHUTTLE RACE SHOULD BE 0 - 0.15MM. IF NOT, MAKE AN ADJUSTMENT AS FOLLOWS:

TO ADJUST

- 1. REMOVE THE FACE PLATE. (SEE PAGE 4.)
- 2. SET THE PATTERN SELECTOR DIAL AT "B". (STITCH LENGTH DIAL AT ANY POSITION.)
 NOTE: FOR MODEL JF1004...SET THE PATTERN SELECTOR DIAL AT " = ".

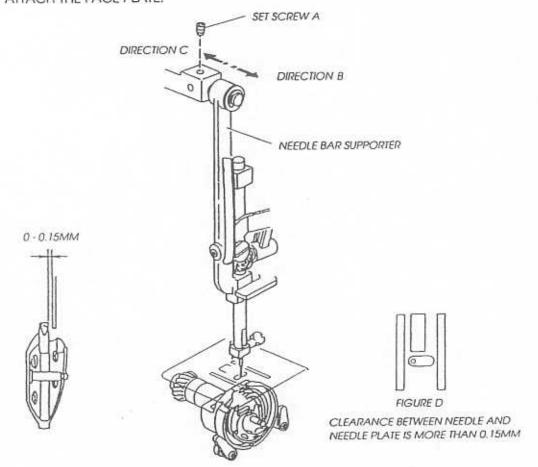
- LOOSEN SET SCREW A, AND MOVE THE NEEDLE BAR SUPPORTER TO ARROWS TO GET CLEARANCE BETWEEN 0 TO 0.15MM.
 - WHEN CLEARANCE IS TOO WIDE, MOVE THE NEEDLE BAR SUPPORTER TO DIRECTION B.
 - WHEN CLEARANCE IS TOO NARROW, MOVE THE NEEDLE BAR SUPPORTER TO DIRECTION C.

NOTE: AFTER THIS ADJUSTMENT, CHECK IF THE CLEARANCE BETWEEN NEEDLE AND NEEDLE PLATE IS MORE THAN 0.15MM AS SHOWN IN FIGURE D.

IF NOT, ADJUST THE CLEARANCE BETWEEN NEEDLE AND SHUTTLE RACE BY USING METHOD OF ADJUSTMENT NO.2 IN PAGE 13 AFTER READJUST THE CLEARANCE BETWEEN NEEDLE AND NEEDLE PLATE MORE THAN 0.15MM.

4 ATTACH THE FACE PLATE.

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CLEARANCE BETWEEN NEEDLE AND HOOK (NO.2)

CORRECT SETTING

USE THIS ADJUSTMENT NO.2 WHEN ADJUSTMENT NO.1 CAN NOT BE USED. THE CLEARANCE BETWEEN NEEDLE AND SHUTTLE RACE SHOULD BE 0 - 0.15mm.

TO ADJUST

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- 1. SET THE PATTERN SELECTOR DIAL AT "B". (STITCH LENGTH DIAL AT ANY POSITION.)
- NOTE: FOR MODEL JF1004···SET THE PATTERN SELECTOR DIAL AT " □ ".

FOR MODELS JF 1022 AND JF1018... SET THE PATTERN SELECTOR DIAL AT " A ". SET THE WIDTH SELECTOR DIAL AT " ... "...

- LOOSEN THE SCREW A ON LOWER SHAFT BUSHING AND SLIDE THE GEAR ABOUT 0.5MM TO THE RIGHT TO MAKE A SLACK BETWEEN GEARS.
- LOWER THE NEEDLE AND LOOSEN THE TWO SHUTTLE RACE SET SCREWS B.
 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 0.15MM.
- SET THE PATTERN SELECT DIAL AT " C ", TURN THE BALANCE WHEEL 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, MAKE AN ADJUSTMENT BY TURNING THE SHUTTLE RACE UNIT.

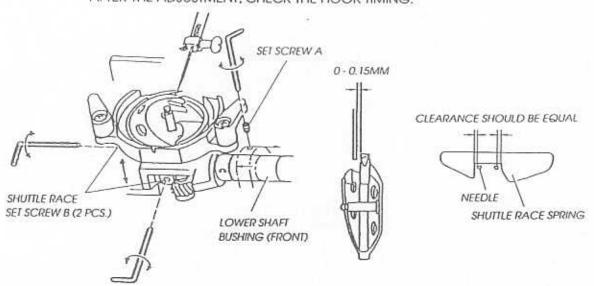
NOTE: FOR MODEL JF1004···SET THE PATTERN SELECTOR DIAL AT " 音 "...

FOR MODELS JF 1022 AND JF1018... SET THE PATTERN SELECTOR DIAL AT "C".

- TIGHTEN THE TWO SHUTTLE RACE SET SCREWS B.
- LOOSEN THE SET SCREW ON LOWER SHAFT BUSHING AND SLIDE THE GEAR BACK TO THE ORIGINAL POSITION WHILE ADJUSTING THE BACKLASH.
- 8. TIGHTEN THE SCREWS A FIRMLY.
- 9. ATTACH THE REAR COVER.

NOTE: THE BACKLASH PLAY SHOULD BE LESS THAN 0.3MM AND LOWER SHAFT TURNS SMOOTHLY.

AFTER THE ADJUSTMENT, CHECK THE HOOK TIMING.



NEEDLE BAR HEIGHT

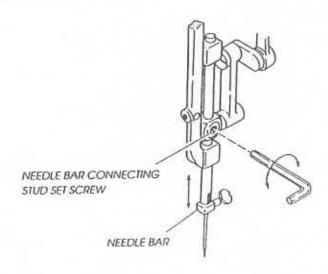
CORRECT SETTING

THE STANDARD DISTANCE BETWEEN THE UPPER EDGE OF NEEDLE EYE AND THE TIP OF SHUTTLE HOOK SHOULD BE IN THE RANGE OF 2.9 - 3.5MM WHEN THE TIP OF SHUTTLE HOOK MEETS THE LEFT SIDE OF THE NEEDLE IN ASCENDING TRAVEL OF NEEDLE FROM ITS LEFT AND LOWEST POSITION.

TO ADJUST

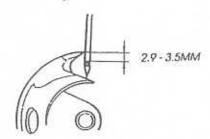
- 1. REMOVE THE FACE PLATE. (SEE PAGE 4.)
- SET THE PATTERN SELECTOR DIAL AT "B". (STITCH LENGTH DIAL AT ANY POSITION.)
 NOTE: FOR MODEL JF1004····SET THE PATTERN SELECTOR DIAL AT " □ ".

- 3. REMOVE THE SHUTTLE RACE RING.
- TURN THE BALANCE WHEEL TOWARD YOU UNTIL TIP OF SHUTTLE HOOK MEETS THE LEFT SIDE OF THE NEEDLE.
- 5. LOOSEN THE NEEDLE BAR CONNECTING STUD SET SCREW.
- ADJUST THE HEIGHT OF THE NEEDLE BAR BY MOVING THE NEEDLE BAR UPWARD OR DOWNWARD WITHOUT TURNING IT.
- 7. TIGHTEN THE SET SCREW.
- 8. ATTACH THE SHUTTLE RACE RING.
- ATTACH THE FACE PLATE.



TIP OF SHUTTLE HOOK MEETS LEFT SIDE OF NEEDLE.





HOOK TIMING

CORRECT SETTING

THE STANDARD HEIGHT OF NEEDLE POINT FROM ITS LOWEST POINT OF TRAVEL SHOULD BE IN THE RANGE OF 1.45 - 1.95MM WHEN THE TIP OF SHUTTLE HOOK MEETS EXACTLY THE LEFT SIDE OF NEEDLE AT LEFT NEEDLE POSITION.

TO ADJUST

SET THE PATTERN SELECTOR DIAL AT * B *.
 NOTE: FOR MODEL JF1004---SET THE PATTERN SELECTOR DIAL AT " \(\frac{1}{2} \)".

FOR MODELS JF 1022 AND JF1018...SET THE PATTERN SELECTOR DIAL AT " A "... SET THE WIDTH SELECTOR DIAL AT " ... "..."

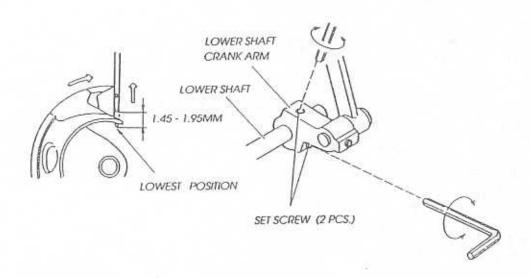
- 2. REMOVE THE FRONT PANEL COVER UNIT.
- REMOVE THE MOTOR.
- 4. REMOVE THE SHUTTLE RACE RING.
- TURN THE BALANCE WHEEL TOWARD YOU UNTIL THE TIP OF SHUTTLE HOOK MEETS THE LEFT SIDE OF NEEDLE.
- LOOSEN THE LOWER SHAFT CRANK ARM SET SCREWS (2 PCS.).
- WHILE HOLDING THE SHUTTLE HOOK NOT TO TURN, TURN THE BALANCE WHEEL TOWARD
 YOU UNTIL THE NEEDLE COMES TO ITS LOWEST POSITION.
 THEN, FURTHER TURN THE BALANCE WHEEL TO RAISE THE NEEDLE ABOUT 1.7MM FROM
 ITS LOWEST POSITION.
- 8. TIGHTEN THE SET SCREWS.

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 TURN THE BALANCE WHEEL TOWARD YOU TO CHECK IF THE HEIGHT IS THE RANGE OF 1.45 - 1.95MM.

IF IT IS NOT IN THE RANGE, REPEAT THE ABOVE PROCEDURE.

- 10. ATTACH THE SHUTTLE RACE RING.
- 11. ATTACH THE MOTOR AND ADJUST THE BELT TENSION.
- 12. ATTACH THE FRONT PANEL COVER UNIT.



(FOR MODELS JF1022, JF1018S, JF1018, JF1014 AND JF1012)

FEED BALANCE ON STRETCH STITCH

CORRECT SETTING

IF THE STRETCH STITCH PATTERNS ARE DISTORTED WITH SETTING THE STITCH LENGTH DIAL AT "SS".

(IN CASE OF BEING A DIFFERENCE BETWEEN FORWARD FEEDING AND BACKWARD FEEDING DURING STRETCH STITCH PATTERNS), MAKE AN ADJUSTMENT AS FOLLOWS:

TO ADJUST

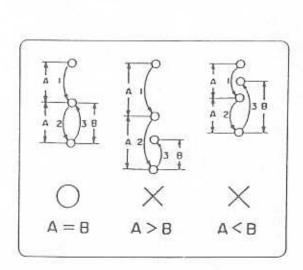
- REMOVE THE CAP.
- 2. SET THE PATTERN SELECTOR DIAL AT " A ", AND THE STITCH LENGTH DIAL AT " SS ".

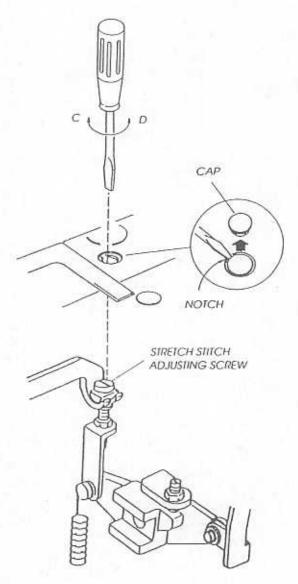
FOR MODELS JF1022 AND JF1018...SET THE PATTERN SELECTOR DIAL AT " A ".

SET THE STITCH WIDTH SELECTOR DIAL AT " SS ".

SET THE STITCH LENGTH SELECTOR DIAL AT " SS ".

- TURN THE STRETCH STITCH ADJUSTING SCREW IN THE DIRECTION OF C WHEN A > B, OR
 IN THE DIRECTION OF D WHEN A < B.
- MOUNT THE CAP.





(FOR MODELS JF1022, JF1018S, JF1018 AND JF1014 - JF1004)

BUTTONHOLE FEED BALANCE

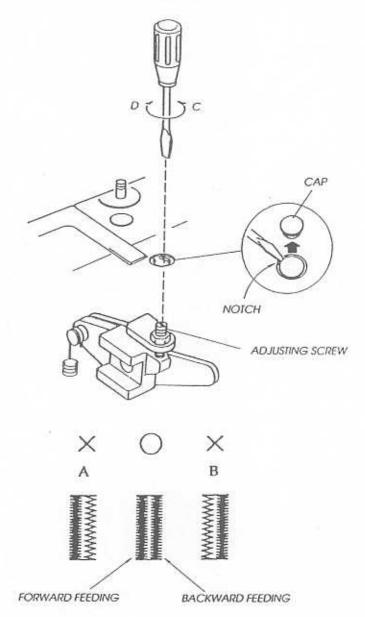
CORRECT SETTING

WHEN SEWING BUTTONHOLE, THE STITCHES ON EACH SIDE OF BUTTONHOLE SHOULD BE THE SAME STITCH DENSITY.

THE RANGE OF 9-11 STITCHES IN THE RIGHT SIDE ROW "BACKWARD FEEDING" AGAINST 10 STITCHES IN THE LEFT SIDE ROW "FORWARD FEEDING" IS CONSIDERED ACCEPTABLE.

TO ADJUST

- 1. CONFIRM THE STITCHES BY SEWING BUTTONHOLES, AND REMOVE THE CAP.
- 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. MOUNT THE CAP.
 - * IN CASE OF MODEL JD1818 HAVING ONE STEP BUTTONHOLE FUNCTION, THE "FORWARD FEEDING" AND "BACKWARD FEEDING" ARE REVERSED.



(FOR MODELS JF1022, JF1018S, JF1018, AND JF1014 - JF1004)

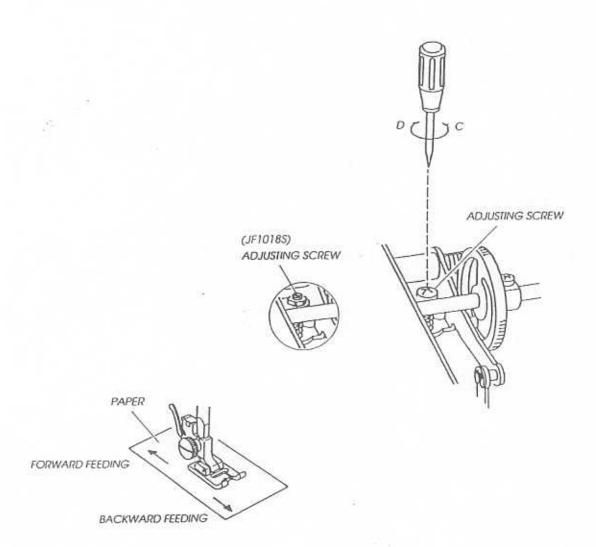
BARTACK FEED OF BUTTONHOLE

CORRECT SETTING

IF THE MATERIAL IS FED FORWARD OR BACKWARD WHEN SEWING BARTACK ON BUTTONHOLE, MAKE AN ADJUSTMENT AS FOLLOWS:

TO ADJUST

- SET THE PATTERN SELECTOR DIAL AT * 2 4 * AND THE STITCH LENGTH DIAL AT * 4 *.
 (SET THE PATTERN SELECTOR DIAL AT * 1 IN CASE OF JF1018S)
- REMOVE THE FRONT COVER. (SEE PAGE 5.)
- PLACE A PIECE OF PAPER UNDER THE FOOT AND TURN THE BALANCE WHEEL.
 IF THE PAPER IS FED FORWARD, TURN THE ADJUSTING SCREW IN THE DIRECTION OF C.
 IF THE PAPER IS FED BACKWARD, TURN THE ADJUSTING SCREW IN THE DIRECTION OF D.
- MOUNT THE FRONT COVER.
 - IN CASE OF MODEL JF 1018S HAVING ONE STEP BUTTONHOLE FUNCTION, THE ADJUSTING SCREW AND PRESSER FOOT ARE DIFFERENT FROM THOSE DESCRIBED ABOVE.



(FOR MODELS JF 1018 AND JF 1022)

DISENGAGEMENT OF CAM FOLLOWER (NO.1)

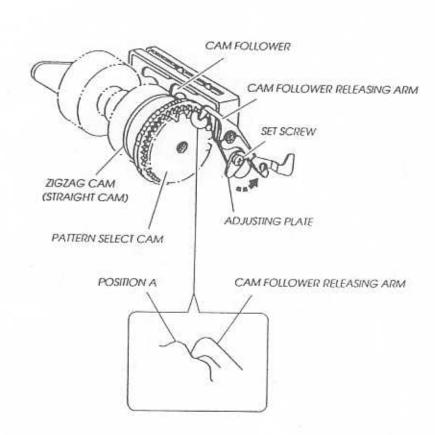
CORRECT SETTING

TOO NARROW CLEARANCE BETWEEN THE CAM FOLLOWER AND THE TOP CONVEX OF ZIGZAG CAM MAY OFTEN CAUSE DIFFICULTY IN TURNING THE PATTERN SELECTOR DIAL OR CAN NOT SELECT CORRECT PATTERN.

TO ADJUST

W. ...

- 1. SET THE PATTERN SELECTOR DIAL AT A AND THE STITCH WIDTH DIAL AT GO THE STITCH LENGTH DIAL AT ANY POSITION.)
- REMOVE THE FRONT COVER. (SEE PAGE 5.)
- PUT THE CAM FOLLOWER TO THE ZIGZAG CAM (STRAIGHT CAM). AND ALSO PUT THE CAM FOLLOWER RELEASING ARM TO THE PATTERN SELECT CAM.
- LOOSEN THE SET SCREW.
- MOVE ADJUSTING PLATE IN THE DIRECTION OF ARROW UNTIL TO TOUCH TO THE RELEASING ARM AND TIGHTEN SET SCREW.
 - * AFTER ADJUSTMENT, CHECK THAT THE CLEARANCE BETWEEN THE ZIGZAG CAM AND THE CAM FOLLOWER IS ABOUT 0.3MM WHEN PUTTING THE CAM FOLLOWER RELEASING ARM ONTO POSITION (A) OF PATTERN SELECT CAM.
- 6. MOUNT THE FRONT COVER.
 - * CHECK THE ADJUSTMENT OF THE NEEDLE MOVEMENT FOR STRAIGHT STITCH.



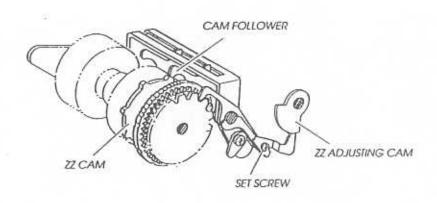
(FOR MODELS JF 1018 AND JF 1022)

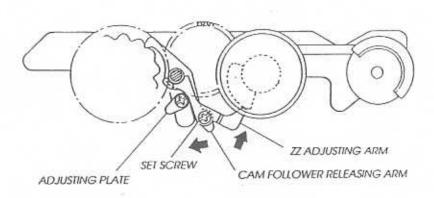
NEEDLE MOVEMENT FOR STRAIGHT STITCH

CORRECT SETTING

TO ADJUST

- 1. SET THE PATTERN SELECTOR DIAL AT " C "AND THE STITCH WIDTH DIAL AT " 0 ".
- 2. REMOVE THE FRONT COVER. (SEE PAGE 5.)
- LOOSEN THE SET SCREW.
- 4. TURN THE BALANCE WHEEL TO PUT THE CAM FOLLOWER ONTO THE TOP CONVEX OF THE ZIGZAG CAM (ZZ CAM) AND SET THE ZZ ADJUSTING ARM TO TOUCH THE ZZ ADJUSTING CAM. THEN, SET THE CAM FOLLOWER RELEASING ARM TO LIGHTLY TOUCH THE ADJUSTING PLATE, AND TIGHTEN THE SET SCREW.
 - AFTER THIS ADJUSTMENT, CHECK IF NEEDLE IS NOT ZIGZAGING OR CLEARANCE BETWEEN NEEDLE AND NEEDLE PLATE HOLE IS MORE THAN 0.2MM AND NEEDLE POSITION IS CORRECT.
- MOUNT THE FRONT COVER.





(FOR MODELS JF1018S, JF1014 AND JF1012)

DISENGAGEMENT OF CAM FOLLOWER

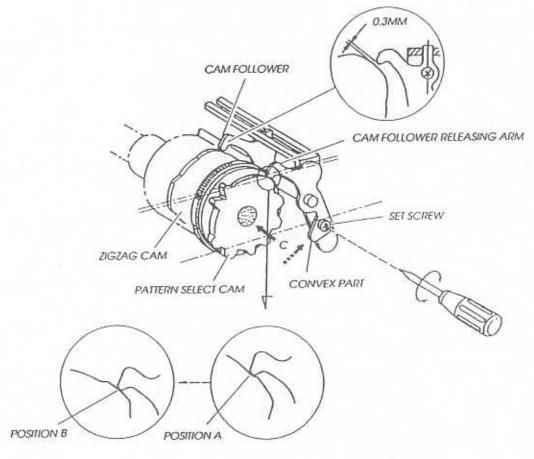
CORRECT SETTING

TOO NARROW CLEARANCE BETWEEN THE CAM FOLLOWER AND THE TOP CONVEX OF ZIGZAG CAM MAY OFTEN CAUSE DIFFICULTY IN TURNING OF THE PATTERN SELECTOR DIAL. CAN NOT SELECT CORRECT PATTERN OR ZIGZAGING IN STRAIGHT STITCH SETTING.

TO ADJUST

50.00

- REMOVE THE FRONT COVER. (SEE PAGE 5.)
- MOUNT THE PATTERN SELECTOR DIAL, AND SET IT AT PATTERN * B *. (5TH CAM AS VIEWED FROM C.)
- TURN THE BALANCE WHEEL TO PUT THE CAM FOLLOWER ONTO THE TOP CONVEX OF THE ZIGZAG CAM.
- 4. LOOSEN THE SET SCREW.
- PUSH THE CONVEX PART OF THE CAM FOLLOWER RELEASING ARM IN THE DIRECTION
 OF ARROW UNTIL THE CAM FOLLOWER RELEASING ARM TOUCHES TO POSITION (A) OF
 THE PATTERN SELECT CAM, AND THEN, TIGHTEN THE SET SCREW.
 - NOTE: AFTER THIS ADJUSTMENT, CHECK THAT THE CLEARANCE BETWEEN THE ZIGZAG CAM AND THE CAM FOLLOWER IS 0.3MM WHEN THE CAM FOLLOWER RELEASING ARM HAS REMOVED TO POSITION (B) BY TURNING THE PATTERN SELECTOR DIAL COUNTERCLOCKWISE, AND ALSO THE CLEARANCE BETWEEN THE CAM FOLLOWER AND THE ZIGZAG CAM SHOULD BE 0.3MM.
- REMOVE THE PATTERN SELECTOR DIAL, AND MOUNT THE FRONT COVER.



(FOR MODEL JF 1004)

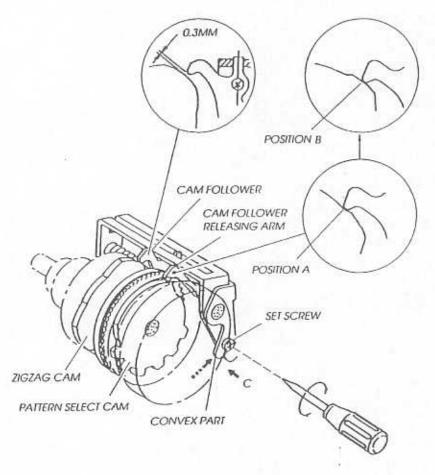
DISENGAGEMENT OF CAM FOLLOWER

CORRECT SETTING

TOO NARROW CLEARANCE BETWEEN THE CAM FOLLOWER AND THE TOP CONVEX OF ZIGZAG CAM MAY OFTEN CAUSE DIFFICULTY IN TURNING OF THE PATTERN SELECTOR DIAL, CAN NOT SELECT CORRECT PATTERN OR ZIGZAGING IN STRAIGHT STITCH SETTING.

TO ADJUST

- 1. REMOVE THE FRONT COVER. (SEE PAGE 5.)
- MOUNT THE PATTERN SELECTOR DIAL, AND SET IT AT PATTERN * F. (5TH CAM AS VIEWED FROM C.)
- TURN THE BALANCE WHEEL TO PUT THE CAM FOLLOWER ONTO THE TOP CONVEX OF THE ZIGZAG CAM.
- 4. LOOSEN THE SET SCREW.
- PUSH THE CONVEX PART OF THE CAM FOLLOWER RELEASING ARM IN THE DIRECTION
 OF ARROW UNTIL THE CAM FOLLOWER RELEASING ARM TOUCHES TO POSITION (A) OF
 THE PATTERN SELECT CAM, AND THEN, TIGHTEN THE SET SCREW.
 - NOTE: AFTER THIS ADJUSTMENT, CHECK THAT THE CLEARANCE BETWEEN THE ZIGZAG CAM AND THE CAM FOLLOWER IS 0.3MM WHEN THE CAM FOLLOWER RELEASING ARM HAS REMOVED TO POSITION (B) BY TURNING THE PATTERN SELECTOR DIAL COUNTERCLOCKWISE, AND ALSO THE CLEARANCE BETWEEN THE CAM FOLLOWER AND THE ZIGZAG CAM SHOULD BE 0.3MM.
- 6. REMOVE THE PATTERN SELECTOR DIAL, AND MOUNT THE FRONT COVER.



(FOR MODEL JF1018S ONLY)

BUTTONHOLE FUNCTION

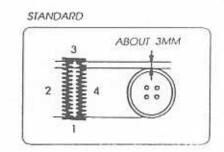
CORRECT SETTING

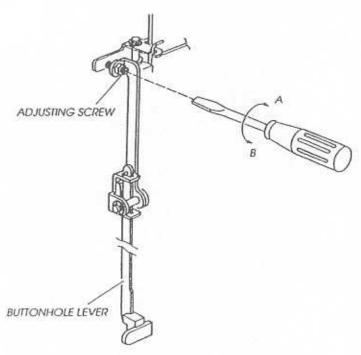
IN BH STITCHING. THE SEWED BUTTONHOLE SHOULD BE ABOUT 3MM LONGER THAN THE LENGTH SET BY THE R FOOT. IF THIS LENGTH CANNOT BE OBTAINED. THEN CHECK AND ADJUST IN THE FOLLOWING PROCEDURE:

TO ADJUST

-

- 1. REMOVE THE FACE PLATE. (SEE PAGE 4.)
- TURN THE ADJUSTING SCREW IN THE DIRECTION OF (A) IF THE BUTTONHOLE STITCH LENGTH IS LONGER THAN THE STANDARD, OR IN THE DIRECTION OF (B) IF THE BUTTONHOLE STITCH LENGTH IS SHORTER THAN THE STANDARD.
- 3. MOUNT THE FACE PLATE.





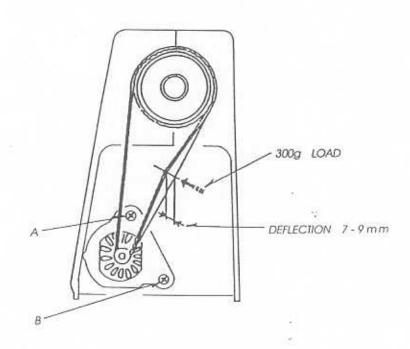
MOTOR BELT TENSION

CHECK:

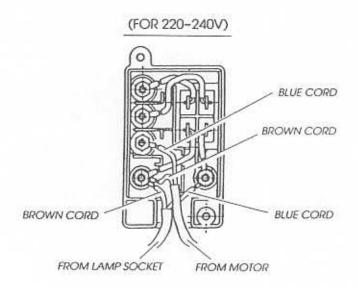
- TOO TIGHT OR TOO LOOSE MOTOR BELT TENSION MAY CREATE BELT NOISE AND ALSO TOO TIGHT MOTOR BELT TENSION CAN CAUSE THE MACHINE TO RUN SLOW AND WILL OVERLOAD THE MOTOR.
 TOO LOOSE MOTOR BELT TENSION MAY CAUSE JUMPING OF THE BELT TEETH ON THE MOTOR PULLEY.
- THE CORRECT MOTOR BELT TENSION IS THAT THE DEFLECTION OF MOTOR BELT IS ABOUT 7 MM (0.28") - 9 MM (0.36") WHEN PUSHING THE MOTOR BELT BY FINGER AT ABOUT 300 GRAMS LOAD.

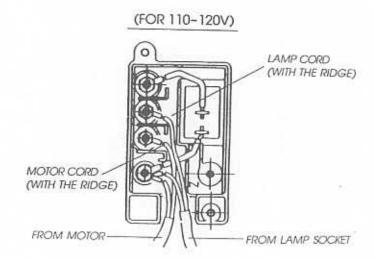
ADJUSTMENT: 1. REMOVE THE BELT COVER.

- 2. LOOSEN THE SCREWS (A) AND (B).
- MOVE THE MOTOR UP OR DOWN TO ADJUST THE DEFLECTION ABOUT 7 MM (0.28")
 9 MM (0.36").
- 4. TIGHTEN THE SCREWS (A) AND (B).



WIRING

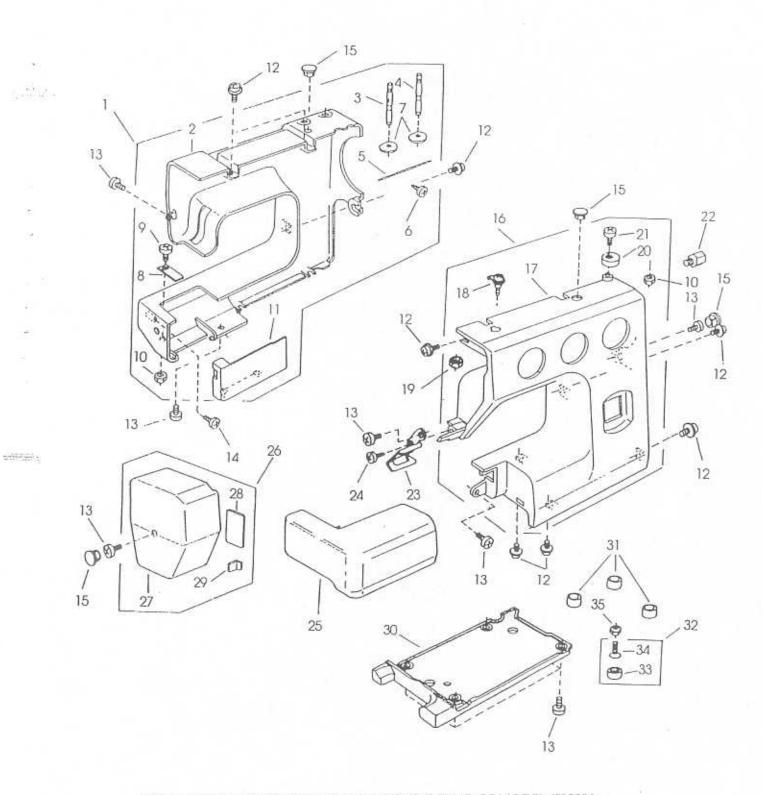




-vancie

PARTS LIST

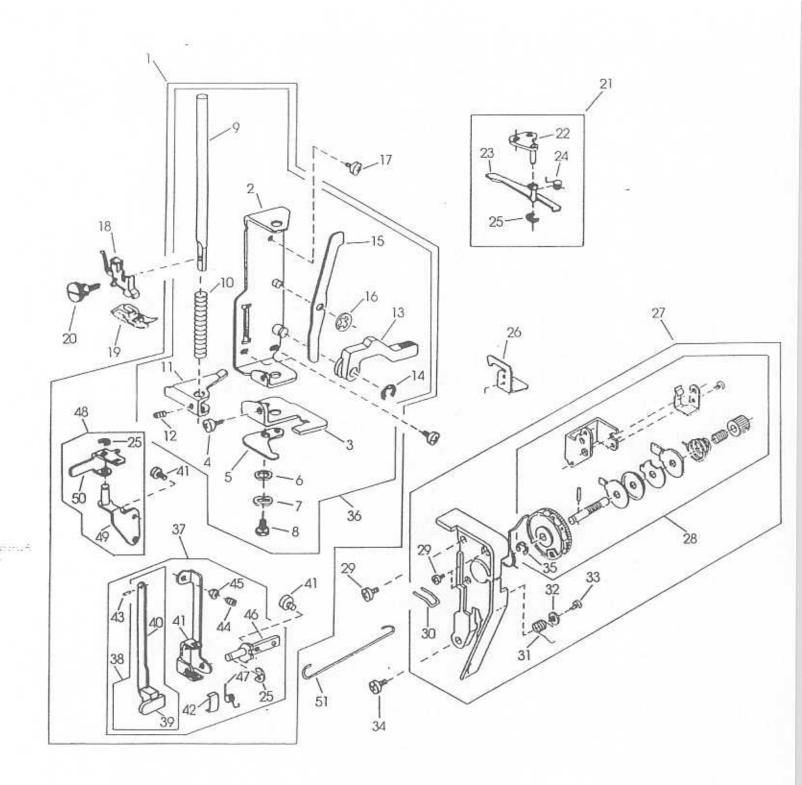
PARTS LIST



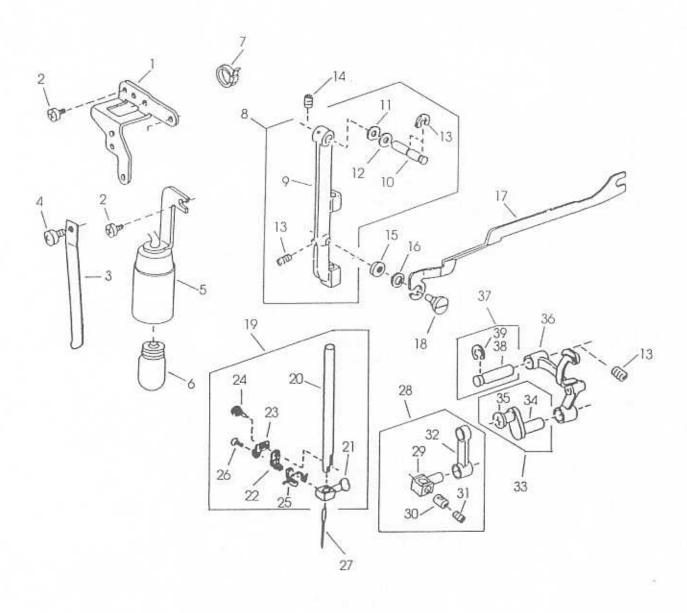
(NOTE: THE FRONT COVER SHOWN ABOVE IS THAT OF MODEL JF1022.)

	EY PARTS		
N	0 NO.	DESCRIPTION	QUANTITY
	1 743601001	REAR COVER (UNIT) FOR ALL MODELS	i i
	2 743003007		1
	3 652302004	SPOOL PIN (LEFT)	Í
	4 652205006		î
	5 736007009	5	1
	6 000076317		1
	7 735013005	The state of the s	- 2
	8 730006000		1
	9 000101404		1
	10 000061205		2
	11 739004005		1
	2 000115205		8
	3 000081005		10
	4 000121905	235 and and and and	1
	5 653006101	CAP	1
- 1	6 743607007	FRONT COVER (UNIT) FOR JF1022	1 COMMON
	743605108	FRONT COVER (UNIT) FOR JF1018S	1 COMMON
	743607100	FRONT COVER (UNIT) FOR JF1018	T COMMON
	743605407	FRONT COVER (UNIT) FOR JF1014	1 FOR JUK
	743605913	FRONT COVER (UNIT) FOR JF1012	1 COMMON
4	743608008	FRONT COVER (UNIT) FOR JF1004	1 COMMON
	7 743016117	FRONT COVER FOR JF1022	1 COMMON
	743016025 743016128	FRONT COVER FOR JF1018S	1 COMMON
	743016128	FRONT COVER FOR JF1018	1 COMMON
	743016038	FRONT COVER FOR JF1014	1 FOR JUK
	743016210	FRONT COVER FOR JF1012	1 COMMON
18		FRONT COVER FOR JF1004 THREAD GUIDE PLATE (UNIT)	1 COMMON
19		ADJUSTABLE LOCK NUT 4	1
20		BOBBIN WINDER STOPPER	1
21		SET SCREW 4X14	1 1 1 5 1
22		COVER BASE SCREW	1
23		THREAD GUIDE PLATE	
24		TP SCREW 3X8B	
25		EXTENSION TABLE	
26		FACE PLATE (UNIT) FOR ALL MODELS	1 COMMON
	743602208	FACE PLATE (UNIT) FOR JF1004	1 COMMON
27		FACE PLATE	1 NH ONLY
28	724025006	REFLEX STICKER	
29	822532008	THREAD CUTTER	1
30	739005006	BASE PLATE	1
31	739064003	RUBBER BASE	3
32	735616107	RUBBER BASE (UNIT)	1
33	735002001	RUBBER BASE	1
34	000192000	SCREW	1
35	000061319	NUT	1

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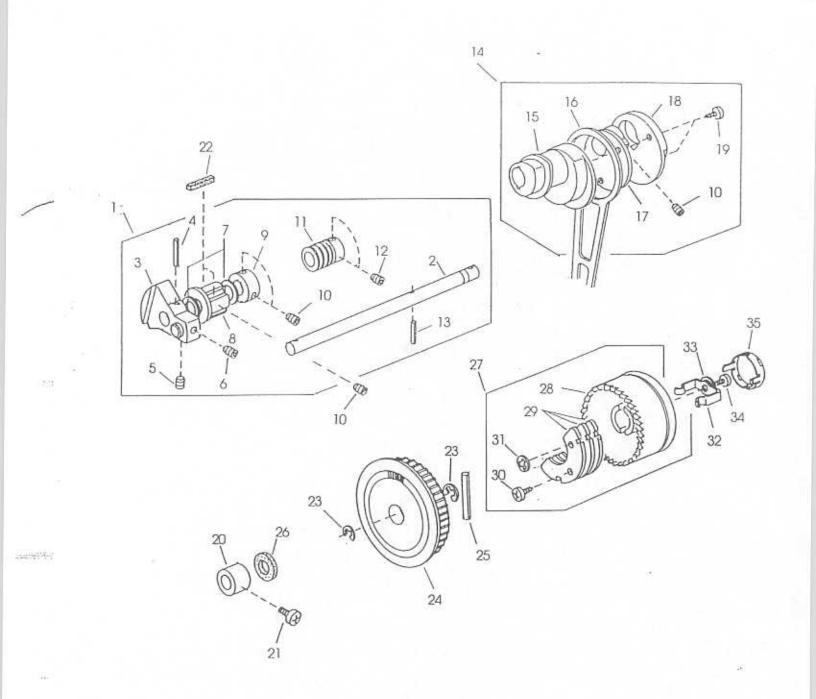
KEY	PARTS	DESCRIPTION	CHARTTER
NO.	NO.	DESCRIPTION	QUANTITY
1	740620007	PRESSER BAR BASE PLATE (UNIT) FOR JF1018S ONLY	1
2	735023008	PRESSER BAR BASE PLATE	1
3	735024009	NEEDLE DROP ADJUSTING PLATE	1
4	000101404	SET SCREW 4X6	1
5	735025000	NEEDLE BAR SUPPORTER STOPPER	1
6	000070506	PLAIN WASHER	1
7	000116103	WAVE WASHER 4	1
8	000138307	BOLT 4X8	1
9	735026001	PRESSER BAR	1
10	735027002	PRESSER BAR SPRING	1
11	735028003	PRESSER BAR BRACKET	1
12	000111500	HEXAGON SOCKET SCREW 4X8	40
13	735029004	PRESSER FOOT LIFTER	1
14	000001609	SNAP RING E-5	1
15	735030008	TENSION RELEASE LEVER	1
16	000013903	SNAP RING CS-5	1
17	000081005	SET SCREW 4X8	3
18	611510000	PRESSER FOOT HOLDER	1
19	611511001	PRESSER FOOT (UNIT)	1
20	647112009	THUMB SCREW	1
21	739605002	TENSION RELEASE ARM (UNIT)	1
22	739017001	TENSION RELEASE ARM BASE	1
23	739018002	TENSION RELEASE ARM	1
24	739019003	TENSION RELEASE SPRING	1
25	000002105	SNAP RING E-3	1
26	739016000	TOP COVER THREAD GUIDE	1
27	743501000	TENSION ASSEMBLY	1
28	735506217	TENSION DIAL (UNIT)	1
29	000103808	SET SCREW 3X5	4
30	735040001	THREAD GUIDE	1
31	735041002	CHECK SPRING	1
32	652039007	WASHER	1
33	000107307		1
34		SET SCREW 4X12	1
35	000002507	SNAP RING E-4	1
36	735604009	PRESSER BAR PLATE (UNIT) FOR ALL MODELS, EXCEPT JF1018S	!
37	740617001	BH LEVER (UNIT) FOR JF1018S ONLY	21
38	753629109	BH LEVER (UNIT) FOR JF1018S ONLY BH KNOB FOR JF1018S ONLY	1
39	753160107		1
40	753161108	BH LEVER FOR JF1018S ONLY BH LEVER SUPPORTER FOR JF1018S ONLY	i -
42	740047004 753027008	FRICTION SPRING FOR JF1018S ONLY	1
43	000023009	SPRING PIN 1.6X4 FOR JF1018S ONLY	1
44	000023009	SET SCREW 4X10 FOR JF101BS ONLY	1
45	000113300	ADJUSTABLE LOCK NUT 4 FOR JF1018S ONLY	1
46	740048005	BH LEVER BASE PLATE FOR JF1018S ONLY	1
47	740048005	BH LEVER SPRING FOR JF1018S ONLY	1
48	740613007	BH LEVER BASE (UNIT) FOR JF1018S ONLY	1
49	740013007	BH LEVER BASE FOR JF1018S ONLY	1
50	740051001	BH REGULATING LEVER FOR JF101BS ONLY	1
51	740052002	BH SHIFTING ROD FOR JF1018S ONLY	1
0.1		57MA 150 MART A 1150 MAY 150 SECOND S	



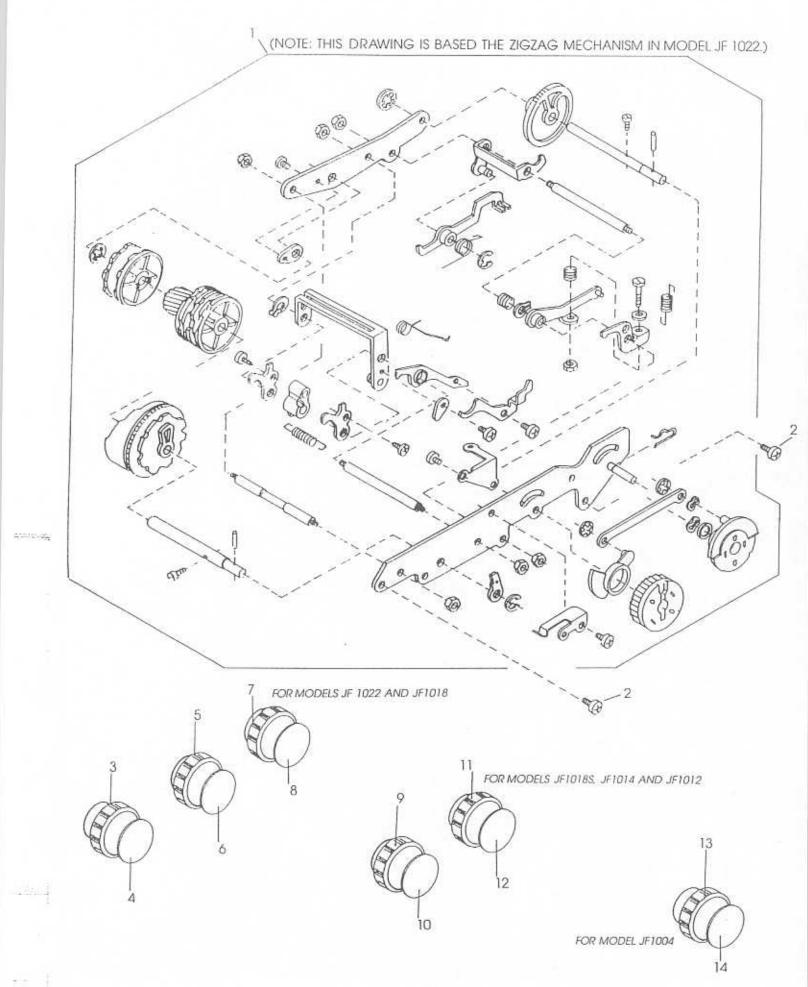
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KE'	Y PARTS			
NO.	NO.	DESCRIPTION	OHANTLY	W
	a agricancian de 1990		QUANTIT	Y
	1 740007013	FACE PLATE BASE PLATE	1	
	2 000081005	SET SCREW 4X8	2	
	3 730024004	NEEDLE BAR SUPPORTER SPRING	4	
	4 000101404	SET SCREW 4X6	1	
13	5 737512005	LAMP SOCKET (240V)	,	001111011
	647510207	DETITO	1	COMMON
1	6 000009102	LAMP (240V)	1	FOR NH
92	000009803	DAIL O	,	COMMON
	7 000053008		2	FOR NH
	735605103	NEEDLE BAR SUPPORTER (UNIT)	1	
	/35032000	NEEDLE BAR SUPPORTER	1	
10			4	
11	673022002	SPRING WASHER	1	
12		1.0-2 (1.0.1.0) (1.0.1.0) (1.0.1.0)		
13		SNAP RING E-4	2	
14	000111304	HEXAGON SOCKET SCREW 5X5	3	
15	670258000	PLAIN WASHER	3	
16		PLAIN WASHER	1	
17		ZIGZAG ROD	31	
18	STATE TO BE A STATE OF THE STATE OF	ECCENTRIC PIN	1	
19		NEEDLE BAR (UNIT)		
20		NEEDLE BAR	1	
21	801506008	NEEDLE CLAMP (UNIT)	1	
22		NEEDLE GUIDE PLATE		
23	732105006		1	
		HINGE SCREW	1	
25	680043012	NEEDLE BAR THREAD GUIDE		
26	670047004	FLAT HEAD SCREW	1	
27	102408089	NEEDLE HA1-14	1	
28	680504005	NEEDLE BAR CONNECTING STUD (UNIT)	1	
29	670052002	NEEDLE BAR CONNECTING STUD	1	
30	670272000	NEEDLE BAR CONNECTING STUD PIN		
31	000111201	HEXAGON SOCKET SCREW 4X4		
32	680032007	NEEDLE BAR CRANK ROD	1	
33	735504008	NEEDLE BAR CRANK PIN (UNIT)	1	
34	735174005	NEEDLE BAR CRANK PIN	- 1	
35	647139002	NEEDLE BAR CRANK CAP	51 AF	
36	625506109	THREAD TAKE-UP LEVER (UNIT)	4	
37	731511006	THREAD TAKE-UP LEVER PIN (UNIT)	- 1	
38	647040005	THREAD TAKE-UP LEVER PIN	1	
39	000002806	SNAP RING E-6	1	
			# ·	

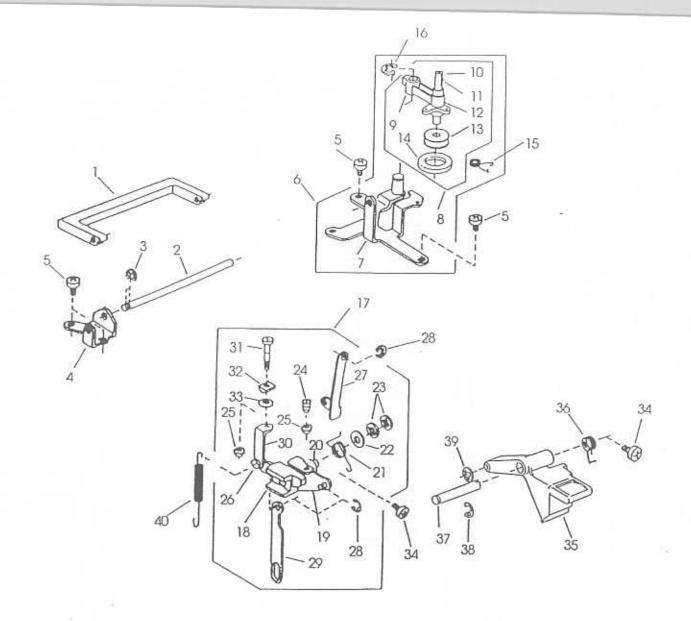
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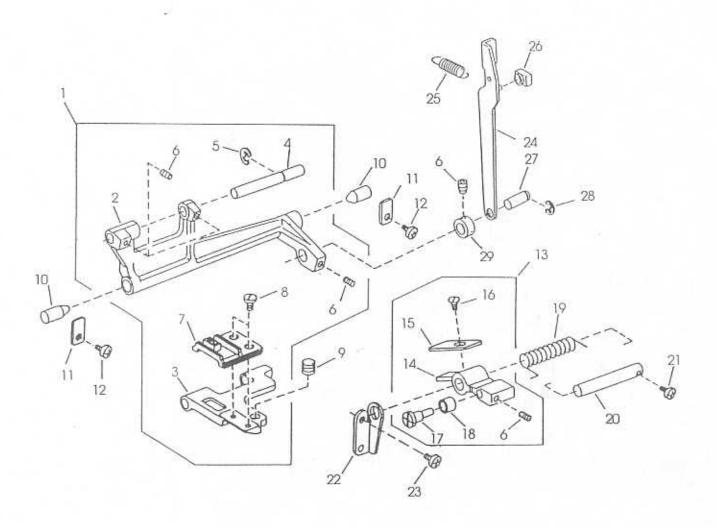
KEY	PARTS		
NO.	NO.	DESCRIPTION	QUANTITY
1	743603106	UPPER SHAFT (UNIT)	1
2	743007001	UPPER SHAFT	1
3	743008002	TAKE-UP LEVER CRANK	i
4	000021708	SPRING PIN	1
5	102073003	SET SCREW	1
6	761052007	SET SCREW	1
7	000039307	THRUST WASHER FT-100	2
8	743009003	UPPER SHAFT FRONT BUSHING	1
9	639095000	RING	1
10	000111304	HEXAGON SOCKET SCREW 5X5	4
11	749011006	WORM GEAR	1
12	553245008	HEXAGON SOCKET SCREW 4X4	2
13	000003601	SPRING PIN	1
14	743604004	CRANK ROD (UNIT)	1
15	743010007	FEED CAM	1
16	743011008	CRANK ROD	1
17	639033000	CRANK CAM	1
18	639102012	CRANK CAM PLATE	1
19	000121400	TAPPING SCREW 3X14B	2
20	743002006	UPPER SHAFT REAR BUSHING	1
21	000172602	SET SCREW 5X8	1
22	731312005	FELT	2
23	000030205	SNAP RING E-8	2
24	743019006	BELT WHEEL	1
25	000023803	SPRING PIN	1
26	735143005	FELT	1
27	743606006	BALANCE WHEEL (UNIT)	1
28	639097024	BALANCE WHEEL	1
29	639116008	BALANCE WEIGHT	3
30	000160607	T SCREW 3X14B	1
31	000014306	SNAP RING CS-3	1
32	639113016	CLUTCH SPRING	1
33	000071013	PLAIN WASHER	1
34	810220003	SET SCREW	1
35	650070509	CLUTCH CAP	1



NO. NO. DESPRIPRION QUANTITY 1 743609009 ZIGZAG MECHANISM FOR JF1022 1 CO	MMON
1011011011011	Michi
740614008 7167AG MECHANISH FOR JE1010S	MMON
743609205 716746 MECHANISH EOD 151015	MMON
740606007 716740 MECHANICH FOR 154044	R JUK
/40606409 ZIGZAG MECHANISM FOR JF1012 1 FOR	R JA, DUBAI & OMAN
74UDIOUS 71G/AG MECHANIEU COD 1C3GG/A	MMON
2 000081005 SET SCREW 2 COM	MMON
3 743015002 SELECTOR DIAL (PATTERN) FOR JF1022 & JF1018 1 COM	MMON
4 740032305 PATTERN INDICATING DIATE FOR USAGE	MMON
7/2020101 DATTEDU (UDIO/TIVO DI 199	R DUBAI & OMAN
743026006 PATTERN INDICATING PLATE FOR JF1018 1 COM	MON
5 743022002 SELECTOR DIAL (CTITOLITERATE)	MON
6 740010801 STUTCH LENGTH INCLOSTING STATE TO	MON
740019708 STITCH LENGTH INDICATING PLATE FOR JF1018 1 COM	
7 743022002 SELECTOR DIAL (WIDTH) FOR JF1022 & JF1018 1 COM	
8 743021001 WIDTH INDICATING PLATE FOR JF1022 & JF1018 1 COM	
743021104 WIDTU INDICATING DIATE CON ACCOUNT	DUBAT & OMAN
9 743015002 SELECTOR DIAL (PATTERN) 1 COMM FOR JF1018S, JF1014 & JF1012	NOM
10 743027007 PATTERN INDICATING PLATE FOR JF1018S 1 COMM	MONE
740005206 DATTERN UNDIGATING SLATS 500 (500.00)	JA, DUBAI & OMAN
743031004 PATTERN INDICATING PLATE FOR JF1014 1 FOR	
PATTERN INDICATING PLATE FOR JF1012 1 COMM	
//2027000 DATTCON INDIGATING OF THE SEC	JA, DUBAI & OMAN
11 743015002 SELECTOR DIAL (STITCH LENGTH) 1 COMM	
FOR JF1018S, JF1014 & JF1012	
12 740126307 STITCH LENGTH INDICATING PLATE FOR JF1018S 1 COMM	ON
740126400 STITCH LENGTH INDICATING PLATE FOR JF1018S 1 FOR	JA, DUBAI & OMAN
740019801 STITCH LENGTH INDICATING PLATE FOR JF1014 1 FOR	
Z40019801 STITCH LENGTH INDICATING PLATE FOR JF1012 1 COMM	
IAOOTOOOT CTITOU I ENGTH INDICATING OF THE CO.	JA, DUBAI & OMAN
13 743015002 SELECTOR DIAL FOR JF1004 1 COMM	ON
14 743020000 PATTERN INDICATING PLATE FOR JF1004 1 COMMO	

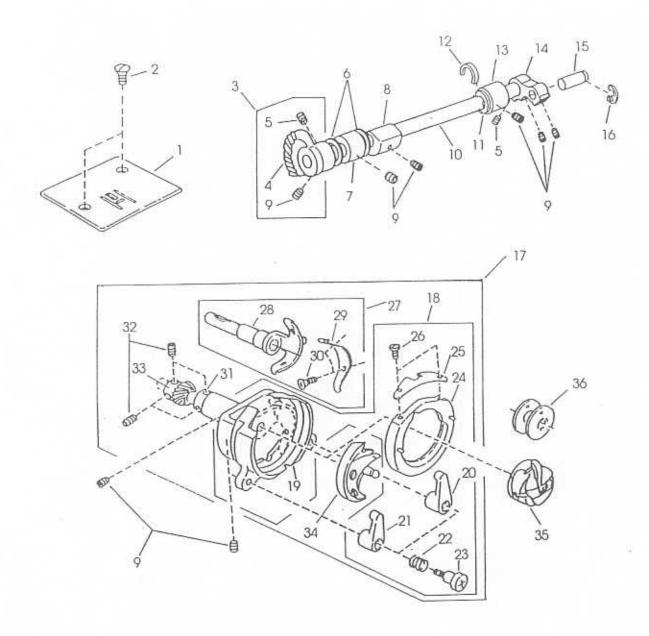


KEY	PARTS		
NO.	NO.	DESCRIPTION	QUANTITY
1	735017205	HANDLE	140
2			
3			1
4	그는 그리아를 되었다. 바로 되었다.		2
5			1 4
6			1
7			1
8		BOBBIN WINDER ARM (UNIT)	
9			1
10		BOBBIN WINDER SHAFT	
11		BOBBIN WINDER SHAFT SPRING	1
12			1
13			4
14	647018004	BOBBIN WINDER RING	4
15		BOBBIN WINDER ARM SPRING	1
16	000002806		1
17		FEED REGULATOR (UNIT)	î
		FOR ALL MODELS, EXCEPT JF1004	·
	736607016	FEED REGULATOR FOR JF1004	1 FOR NH
18	647049004	FEED REGULATOR FOR ALL MODELS	1 COMMON
19	736012007	FEED REGULATOR PLATE	1
20	601024001	PIN	1
21	735077007	FEED REGULATOR SPRING	1
22	735073003	PLAIN WASHER	1
23	000014605	SNAP RING CS-6	2
24	648010009	SET SOREW	1
25	000160102	ADJUSTABLE LOCK NUT 4	1
26	648012001	SET SCREW	1
27	739020007	FEED REGULATOR ROD	1
28	000002105	SNAP RING E-3	3
29	730045001	REVERSE LINK	1
30	734039004	S. S ROD FOR ALL MODELS, EXCEPT JF1004	1
31	735074004	S. S ADJUSTABLE SCREW	1
		FOR ALL MODELS, EXCEPT JF1004	
32	735076006	S. S ROD BLOCK	1
		FOR ALL MODELS, EXCEPT JF1004	
33	000071013	WASHER 4 FOR ALL MODELS, EXCEPT JF1004	1
34		SET SCREW 5X8	2
35		R BUTTON	1
36		R BUTTON SPRING	1
37		R BUTTON SHAFT	1
38		SNAP RING E-5	1
39		SNAP RING CS-4	1
40	670100006	FEED REGULATOR SPRING	1
		FOR ALL MODELS, EXCEPT JF1018S	
	/40125007	FEED REGULATOR SPRING FOR JF1018S	1



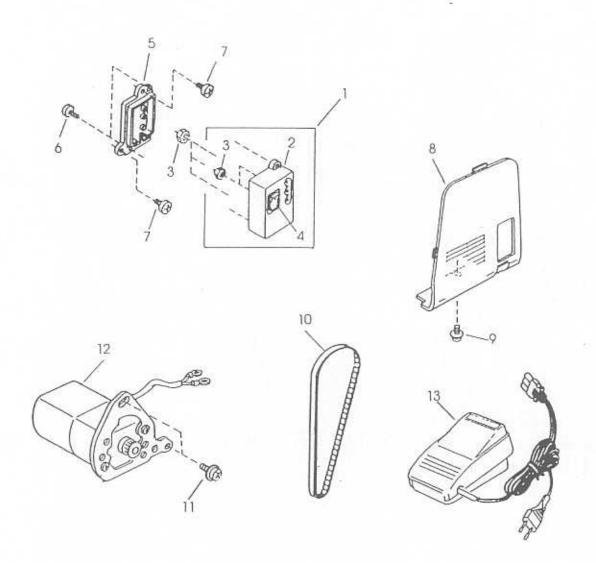
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KEY	PARTS		
NO.	NO.	DESCRIPTION	QUANTITY
1	735612000	FEED ROCK SHAFT (UNIT)	1
2	735078008		1
3	735079009	FEED BAR	1
4	735080003	FEED BAR SHAFT	
5	000002507	SNAP RING E-4	1
6	000111201	HEXAGON SOCKET SCREW	1
7	735081004		1
8	735082005	SET SCREW	-
9	735083006	FEED BAR SPRING	
10	735084007	FEED ROCK SHAFT CENTER	2
11	735085008		1
12	000101404		2
13	735613001	FEED LIFTING ARM (UNIT)	1
14	735086009	FEED LIFTING ARM	1
15	605030002	SLIDING PLATE	1
16	365032001	SET SCREW	1
17	735087000	FEED LIFTING PIN	1
18	735088001	FEED LIFTING ROLLER	4
19	735089002	FEED LIFTING SPRING	
20	735090006	FEED LIFTING SHAFT	4
21	000097200	SET SCREW 4X12	1
22	739022009	FEED LIFTING SHAFT HOLDER	i
23	000081119	SET SCREW 4X6	1
24	743012009	FEED ROD	1
25	743013000	FEED ROD SPRING	1
26	102141003	FEED REGULATOR SLIDE BLOCK	1
27	735071001	FEED ROCK SHAFT CONNECTING PIN	1
28	000002806	SNAP RING E-6	1
29	735276008	RING	i



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KEY	PARTS	0.000101101	BULLIT TO
NO.	NO.	DESCRIPTION	QUANTITY -
1	739008009	NEEDLE PLATE	1
2		SET SCREW	2
3		LOWER SHAFT GEAR (UNIT)	ī
4			3
5		HEXAGON SOCKET SCREW 5X5WP	2
6		THRUST WASHER FT-80	2
7	735233003	BUSHING	1
8	735061008	FEED LIFTING CAM	1
9	000111304	HEXAGON SOCKET SCREW 5X5	8
10	735236006	LOWER SHAFT	1
11	822070003	FELT	1
12	735239009	FELT HOLDER	1
13	735234004	BUSHING	1
14	639036003	LOWER SHAFT CRANK ARM	1
15	639037004	PIN	1
16	000002507	SNAP RING E-4	1
17	735610101	SHUTTLE BODY (UNIT)	1
18		SHUTTLE RACE BODY (UNIT)	1
19	735065002	SHUTTLE RACE BODY	1
20	605065006	SHUTTLE RACE RING CLASP (RIGHT)	1
21	605066007	SHUTTLE RACE RING CLASP (LEFT)	1
22		SHUTTLE RACE RING CLASP SPRING	1
23	673290003	HINGE SCREW	2
24	553168006	SHUTTLE RACE RING	1
25	601801000	SHUTTLE RACE SPRING	1
26	102100000	SET SCREW	2
27	735509003	DRIVER BODY (UNIT)	1
28	735066003	DRIVER BODY	1
29	670286007	DRIVER SPRING	1
30	102202003	SET SCREW	2
31	735067004	RING	1
32	553245008	HEXAGON SOCKET SCREW	4
33	735068108	SHUTTLE RACE BODY SHAFT GEAR	1
34	532096007	SHUTTLE HOOK	1
35	647515006	BOBBIN CASE	1
36	102261000	BOBBIN	1

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KEY	PARTS			
NO.	NO.	DESCRIPTION	QUANTI	ГҮ
1	739503009		1	COMMON
68		MACHINE SOCKET (UNIT) FOR 120V BLILO8	1	NH ONLY
2		MACHINE SOCKET FOR 240V	1	COMMON
	739036006	The second for the period	1	NH ONLY
3		NUT 3-1-5.5	5	
4	653528001	SWITCH FOR 240V	1	COMMON
	830334003	SWITCH FOR 120V BLII08	1	-
5	739037007	MACHINE SOCKET COVER	1	
6	000107802	T SCREW 3X10	2	
7	000103509	SET SCREW 4X10	2	
8	743017004	BELT COVER	1	
9	000115205	TP SCREW 4X6	1	
10	650166008		1	
11	000115504		2	
12	024070108		1	COMMON
	024070201		- 1	
	024070304	- 19 (19 (19 (19 (19 (19 (19 (19 (19 (19	1	FOR JA & JUK
	014170108	[1.47] [2		FOR DUBAI & OMAN
13	042870205	네이 아이 얼마 있다. 이 중 20 이번에 보았다면 주었다면서 되었다.	1	FOR NH
	042870102	FOOT CONTROLLER (UNIT)	- 1	COMMON
	042870401	FOOT CONTROLLER (UNIT)	1	FOR JA
			1	FOR JUK
	033870104	FOOT CONTROLLER (UNIT) (TJC-150) BL/108	1	FOR NH