Models: NC 1105N/ 305L/ 5L Parts Book & Manual

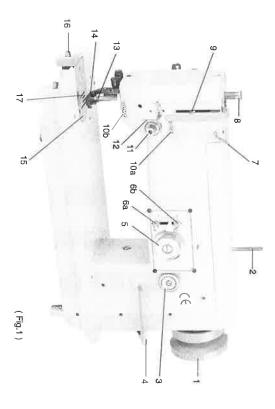


NC CARPET BINDING

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I. HOW TO USE MACHINE



1. NAMES OF MAIN PARTS

- Hand Wheel
- Spool pin
- Feed reverse lever
- Stoppers for zig-zag width indicator
- Thread guide with three holes
- Presser bar regulator screw
- Therad take-up lever

- Upper thread tension regulator
- Tension post thread guide
- Needle bar and needle bar thread guide
- Presser foot
- Slide plate

- Feed Regulating dial
- Zig-zag width indlcator
- 6a.

- Upper Arm Thread guide
- 10b. Lower Arm Thread guide

- Throat plate

2. SPOOL PIN

For the connenient of packing, the spool pin is removed from the machine and packed seperate in the accessory box. Put the pin as shown in Fig. 1-# 2 $\,$

3. SPEED

motor pulley being used. 10 mm. Hoever, this speed depends on the electric current and also the diameter of the The machine is set to run at the speed of 3,000 r.p.m. at the maximum zig-zag width of

be used at the maximum speed of 2,500 r.p.m. at the beginning of use. In order to assure the durability of the machine, it is redommended that machine will

4. OILING TOO THE ROTATING HOOK

Please supply a few drops of oil to the groove of the rotating hook every day. (As arrow-marked in Fig. 2)

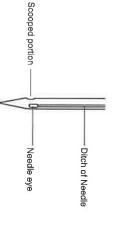


(Fig. 2)



5. NEEDLE AND THREAD

as shown in the Fig. 3. The needle should be set with its groove facing toward you, size of the thread as well as the materials to be sewn. The size of the needle to be used should be determined by the



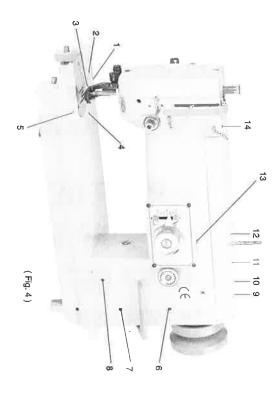
	40 - 20				#120 - #100	Thread size
21	19	16	14	⇉	#9	Needle size

Needle and Thread Chart

(Fig. 3)

6. OILING

It is most important that the machine is properly oiled every day.



spots indicated in the Fig. 4. One or two drops of oil would be supplied to all the

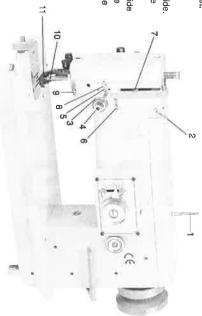
7. ADJUSTMENT OF ZIGZAG WIDTH AND FEEDING VOLUME

- (1) Adjustment of Zigzag width can be made by Zigzag regulator dial. raising numbers, zigzag width will be widened will be widened up to the When straight sewing is required, please place the dial to "O" and gradually maximum width of 10 mm.
- (2) Feeding volume can be adjusted by feed regulation dial and when it is placed to "O", feeding is stopped.
- maximum feeding volume is 5 mm. By raising the numbers upward, the required volume is obtained and the

8. HOW TO THREAD THE MACHINE

Starting from the spool pin (1), please lead the thread as per the following manner.

- Three hole thread eyelet.
- ΘΝ Tension disc.
- Tension spring.
- Tension post thread guide
- Upper arm thread guide
- (£ (6) (C) Take up lever
- Tension post thread guide
- Lower arm thread guide
- (10) Needle bar thread guide
- (11) Needle



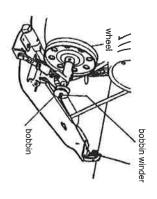
(Fig.5)

9. HOW TO WIND BOBBIN

please be careful to wind the thread to bobbin as per the following. If the bobbin thread does not wind evenly on the bobbin, this will affect the stitch and

- 1. Push the bobbin on the bobbin winder spindle as far as it will go.
- 2. Bring the thread forward toward the bobbin and wind from below in clockwise direction several times arround the bobbin.
- Push the bobbin winder lever downward until the wheel contacts the drive belt, and then start the machine.
- of thread to be wound on the bobbin. Adjustment screw (4) can be turned in or out to increase or decrease the amount

by moving to right or left as may be required. If the thread does nto wind evenly on the bobbin, adjust the tension thread guard

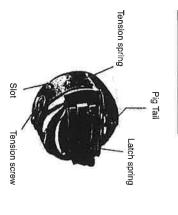


(Fig. 6)

10. INSERTING THE BOBBIN IN THE BOBBIN CASE

remained outside, Pass the remained thread tail throung the slot of bobbin case, under tension spring, then through the pig tail thread guide. index fingers of your left hand and place into the bobbin case with the thread tail To insert the fully wound bobbin in the bobbin case, hold it between thumb and

(Fig. 7 Names of Bobbin Case)





Presser bar regulating screw

the screw to the right and to decrease it to the left.

It can be adjusted by turning the regulating screw. To increase the pressure, turn Always use the lightest pressure possible to allow the smooth feed of material. 13. REGULATING PRESSURE ON MATERIAL



(Fig. 8)

11. REGULATING THE THREAD TENSION

so as to lock both threads in the center of the fabric. For ordinary stitching, the tension of the upper and lower thread should be equal

but it is preferable to keep it rather weak. The tension of the bobbin thread is regulated by means of the tension screw,

Once it is regulated, the perfect stitch can be obtained by adjusting the tension of upper thread by increasing or decreasing the tension.

12. REVERSE STITCH

be done. (For all other forward stitching, the lever remains in up position). depressed as long as required and if release the lever, ordinary forward stitch will For reversing the feed of the machine, keep the feed reverse lever #4(In Fig. 1)

14. PREPARATION FOR SEWING

Bobbin case

1.Turn the balance wheel toward you with the right hand until the needle moves down and up again to its highest point, thus catching the lower (bobbin) thread.

2. Now pull the end of the upper thread you are holding and the bobbin thread will ends of the thread back under the presser foot. be grought up with it through the needle hole in the throat plate and place both

then start sewing the machine. 3. Place the fabric to be sewn beneath the presser foot, lower the foot upon it and

Cut the ends of the thread a few inches long from the needle. Raise the needle bar to its highest point, lift the TO REMOVE FABRIC AFTER SEWING presser foot and draw the fabric back and to the left.

II. ADJUSTMENT

1. ADJUSTMENT FOR STRAIGHT SEWING (Ref. Fig. 9)

At the time of despatch from the factory, the machine is so adjusted that the zig-zag regulator is fixed at "O".

If not, please reset the indicator dial at "O" and run machine to assure that accurate straight stitches be obtained.

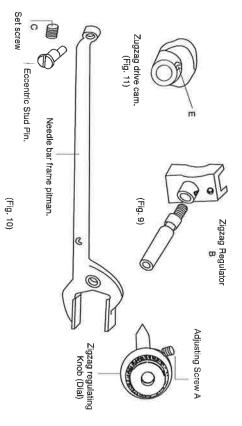
Should you fail to obtain accurate straight stitches by the above, please loosen regulator screw (A), then adjust zig-zag width regulator (B) by moving it sideway, until you obtain accurate straight stitches. After adjustment is made correctly, set the screws (A) and (B) tight with indicator points "O".

2. ADJUSTMENT FOR CENTERING THE NEEDLE (Ref. Fig. 10)

Set the zig-zag regulating dial for straight stitch sewing and turn hand wheel towards you until the needle reaches its lowest point of its downward stroke. See that the needle enters the needle slot in the throat (needle) plate at the very center. And also see that the book point meets the vertical center of needle, at this position, if it does not, adjust the needle bar frame pitman eccentric stud "D" (Fig. 11) by loosening the set screw "C".

3. ADJUSTMENT OF ZIGZAG MOVEMENT (Ref.Fig. 11)

In case the zig zag drive cam is found wrongly situated, make the needle to reach its lowest point and tighten the set scerw "E" of the cam to come to the top, as shown in the Fig.1.



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4. ADJUSTMENT OF UPPER FEED MECHANISM. (Ref. Fig. 12)

A. To increase the lifting volume of outer foot.

- Loosen the adjusting belt A (#752).
- 2. Raise the position of Rock Shaft Crank (#751) as you desire.
- Set the bolt tightly, after adjustment.

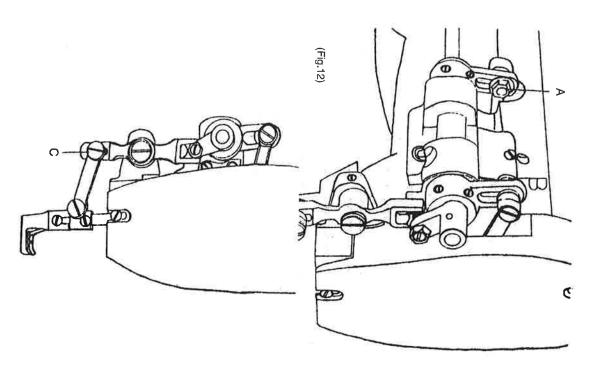
B.To obtain more lifting volume of outer foot.

- 1. Loosen the adjusting bolt B (#752)
- 2. Raise the position of lifting crank connecting line (#748) as you desire.
- 3. Reset the bolt tightly, after adjustment.

C.To increase the feeding volume of order foot.

- 1. Loosen the adjusting bolt C. (#733).
- 2. Raise the position of feed correcting link (#732) as you desire.
- 3. Reset the bolt, after adjustment.

ADJUSTMENT OF UPPER FEED MECHANISM

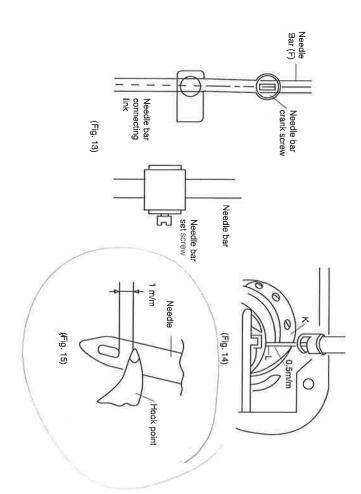


5. ADJUSTMENT OF NEEDLE TIMING AT ITS LOWEST POSITION (Ref. Fig.13)

Remove face plate and loosen the screw (#209) of needle bar bracket (#206). Turn the hand wheel (#240) slowly towards you until the needle bar F (#707). is aligned wih the screw (#211) of needle bar crank rod (#210). This is considered the lowest position of needle.

6. ADJUSTMENT OF TIMING BETWEEN NEEDLE AND HOOK (Needle being used is type DP x 17)

- Turn the zig-zag dial right to the largest width of 10 mm and hav the needle reach at its rightest and lowest poing.
- Then set the hook so that the end of hook gib comes 0.5 mm right of needle "L" (Ref. Fig. 14)
- Turn the hand wheel to the leftest and lowest position.
 See that the hook poing trafels 1 mm above the thread hole of the needle (Ref. Fig. 15)
- When sewing the different materials, it is recommended that the timing explained above is a little delayed.



TROUBLE SHOOT

If following problems be occurred, please check the points as suggested below.

- marked be checked carefully.
- marked be most carefully checked.

Thread breakage

- Any damage on the hook? (Please carefully check on the hook point),
- Is timing between needle and hook correct?
- Isn't hook point worn out?
- Is quality of thread good? – Any scratch on thread guides?
- Any damage or scratch on hook retainer?
- Is needle all right?
- Any damage on needle plate, particularly around needle hole?
- Is check spring correct, not too hard?
- No lints in bobbin case?

Colth breakage

- Isn't the machine too old to cause excessive play on all moving parts?
- Does needle penetrate center of needle hole on needle plate?
- No bent needle used?
- No too much play on zig zag drive fork?
- Is thread tension correct?

- Skipping of stitch

 Is the timing of needle to hook correct? Not too early, not too late? – No bent needle used?
- No worn out on hook point?
- No excessive play on needle bar?
- No excessive clearance between needle and hook point?
- Isn't needle hole of needle plate too large to the size of needle used?

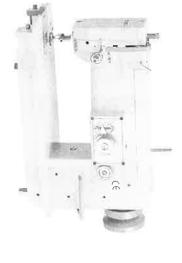
Thread Breakage (on straight sewing)

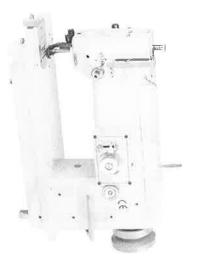
- No excessive clearance between needle and hook point?
- Is hook timing correct? Not too early?
- Isn't check spring too hard?
- Does check spring moves freely?

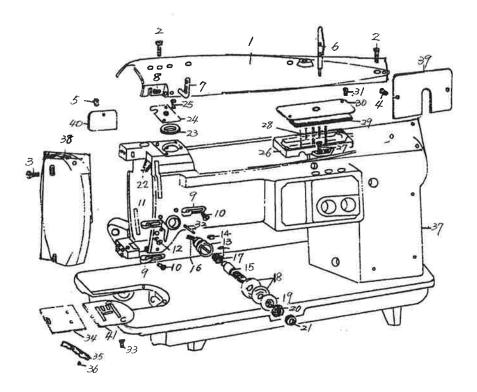
Needle Breakage

- Doesn't needle hit needle plate?
- Is the clearance between needle and hook point correct?
- No excessive play on needle bar frame?
- · No excessive play on hook shaft thrust collar?

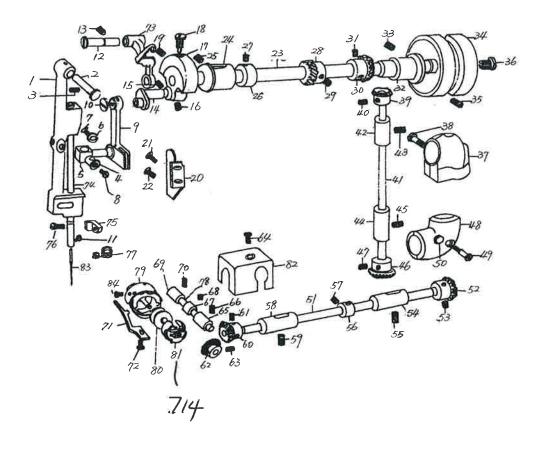
SPARE PARTS LIST





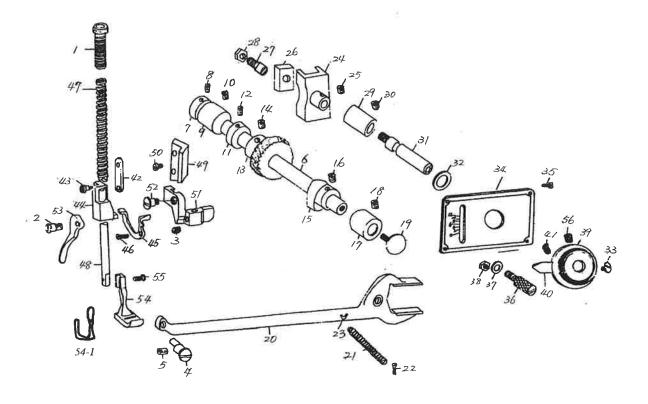


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1101/	Arm side cover (large) Arm side cover (small)		Arm Bed	Bed slide spring screw	Bed slide spring	Bed slide plate	Needle plate screw	Cilitank (rear) screw	Oil tank (rear) cover	Oil tank (rear) felt	Oil tank (rear) string	Oil tank (rear) screw	Oil tank (rear)	Oil tank (front) screw	Oil tank (front) cover	Oil tank (front) felt	Oil tank (front) string	Tension unt	Tension spring		Take up spring	Tension screw	Tension post	Tension screw	Tension post rocket	Tension screw	Tension post thread guide	Arm thread screw	Arm thread guide (upper and lower)	Three hole screw	Three hole thread eyelet	Need Thread guide pin	Arm side cover (small) screw	Arm side cover (large) screw	Face plate screw	Top cover screw	Top cover	Names



3-4-1 3-4-1 3-4-2 3-4-3 3-4-3 3-4-3 3-4-3 3-4-3 3-4-3 3-4-3 3-4-3 3-4-3 3-4-3 3-4-3 3-4-3 3-4-3 3-4-3 3-4-3 3-4-3 3-4-3 3-4-3 3-4-1	3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -	3 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	3-17 3-18 3-19 3-20 3-21 3-22 3-23 3-24 3-25	3-1 3-2 3-2 3-3 3-4 3-1 3-1 3-1 3-1 3-1 3-1 3-1 3-1 3-1 3-1	Number
Priion screw Upright shaft UPright bushing (upper) Upright bushing (lower) Upright bushing (lower) Upright miter gear Upright miter gear Upright grew Miter gear case Miter screw Miter screw Miter screw	Arm screw Hand wheel Hand screw Hand positioning screw Hand Gear and pinion case Hand screw	Arm shaft collor Arm shaft screw Needle vibration pinion (spiral) Needle screw Arm shaft (Horizontal) lever gear Arm shaft (Horizontal) lever gear Arm screw Arm staft bushing (Rear)	Counter weight Counter screw (large) Counter screw (small) Needle bar connecting link guide plate Needle screw (upper) Needle screw (lower) Arm shaft Arm bushing (front) Arm screw	Needle bar frams Needle hinge pin Needle screw Needle Bar bracket Needle bar bracket Needle bushing Needle washer Needle bar set screw Needle bar crank rod Needle screw Needle screw Needle screw Needle screw Needle screw Needle screw Take-up lever link hinge pin Take-up lever link hinge pin screw Needle screw (arge) Needle screw (arge)	r Names
	3 2 4 3 8 8 4 8 8	3-76 3-77 3-77 3-78 3-80 3-80	3-67 3-68 3-69 3-70 3-71 3-72 3-73 3-74	3-5-7 3-5-7 3-5-7 3-5-7 3-5-7 3-6-6-7 3-6-6-7 3-6-6-7	Number
	Helical gear cover Needle Hook screw	Needle Screw Needle Screw Needle Bar thread guide Hook shaft Hook Bobbin case Hellral near rover	Hook thrust coller Hook screw Hook bushing (Rear) Hook screw Bobbin case position bracket Bobbin screw Take up lever w/cam Needle Bar Needle bar connection link needle	Hook drive shaft Hook shaft miter gear (Ring) Hook screw Hook bushing (Right) Hook screw Hook thrust coller Hook screw Hook bushing (left) Hook screw Hook helical gear right Hook screw Helical gear (left) Helical gear (left) Helical gear (left) Helical screw Hook shaft bushing (front) Hook screw	Names

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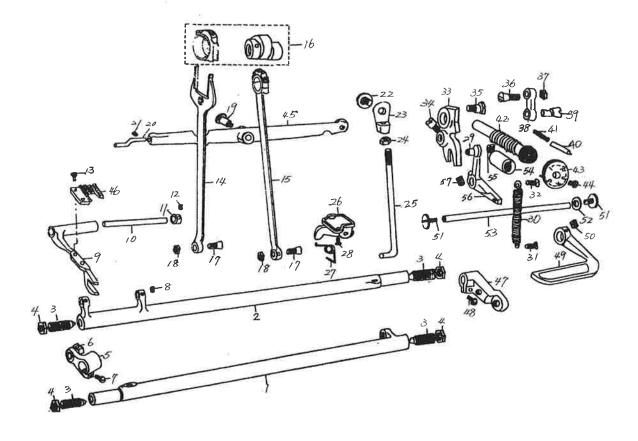


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	Presser bar guide bracket guide	Presser bar	Tension spring		Tension releasing lever	Presser bar lifting and releasing	Lifting screw	Lifting lever link	Needle screw	Needle vibrator stop index finger	Dial	Zig-zag nut	Zig-zag washer	Zig-zag stopper	Zig-zag screw	Zig-zag indicator plate		regulator		screw	Zig-zag regulator bushing	Zig-zag nut	stud	slide bloc		zag	gez	zag screw	Zig zag spring (Small)	Zig zag drive fork	Cam end screw	Cam screw		screw	edle (zag screw	zad	zad screw	zag	zaq	zag	zag	zag	Zig zag drive cam	Eccentric screw	Eccentric stud		Preser har lifter screw	
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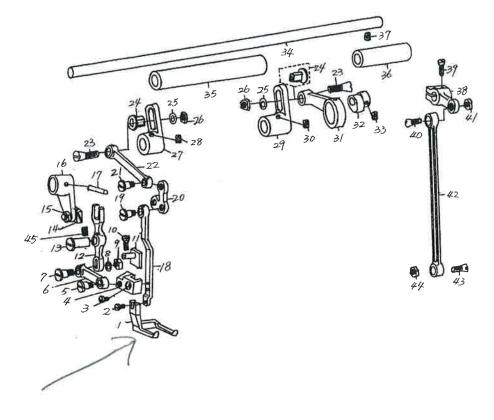
Number Names

Number Names

Presser bar guide bracket
Presser screw
Presser bar lifter
Inside presser foot
Protect finger
Inside screw
Zig-zag regulator screw

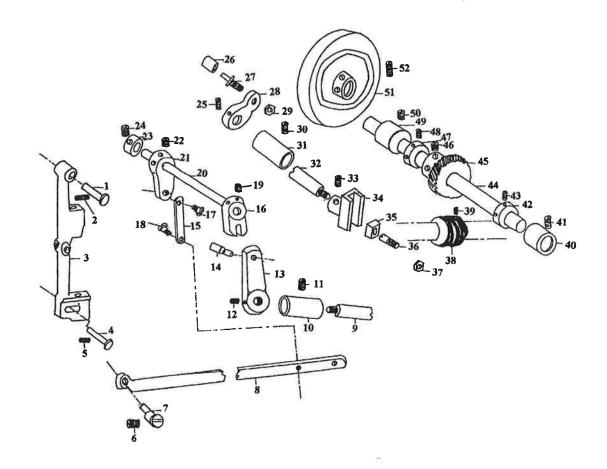


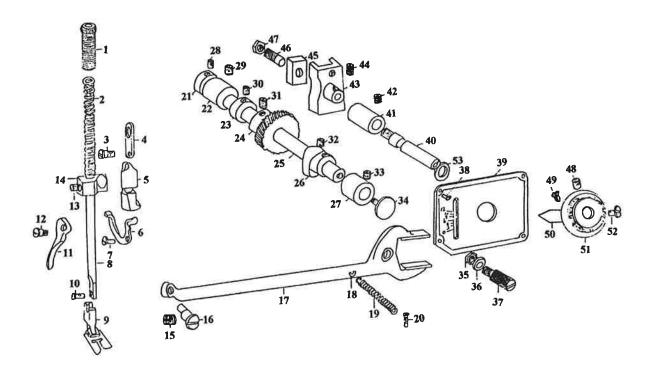
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Feed connecting link Feed connecting link hinge stud Feed regulating stud lock pin Feed spring Feed regulating stud Feed regulating stud head Feed screw Knee lifter lifting lever Feed dog Feed conk shaft crank Feed cok shaft crank Feed control lever Reverse feed control lever Reverse feed control lever screw	Knee litter screw Feed reverse lever roller Feed reverse spring Feed screw (lower) Feed screw (upper) Feed regulator (Forked) Feed screw Feed screw Feed screw Feed connecting lower hinge screw	Feed dog screw Feed forket connection Feed litting rock shaft connecting rod Feed cam Feed litting rock shaft connecting rod hinge screw Feed hinge screw nut Knee litter litting lever screw Knee litter litting lever connecting rod joint hinge screw Knee litter litting lever connecting rod joint Knee litter litting lever connecting rod joint Knee litter rod lock nut Knee litter bell crank	Names Feed lifting rock shaft Feed rock shaft Feed screw center Feed strew center Feed lifting rock shaft crank Feed lifting rock shaft roller Feed lifting rock shaft crank clamping screw Feed bar shaft set screw
250		ige screw	Number 7-51 7-52 7-53 7-54 7-55 7-56 7-56
			Names Reverse feed control lever shaft hinge screw Reverse feed control lever washer Reverse feed control lever shaft feed regulating stud bushing screw feed regulating stud bushing screw Reverse feed control lever crank Reverse feed control lever crank screw



9-10 9-11 9-12 9-13 9-14 Number Feed forked connection pin Names Feed lifiting rock shaft connecting rod Rear feed rock shaft stop screw Rear feed rock shaft (intermediate) Feed rock shaft (intermediate)
Vibrating rock shaft Feed regulatoe stud screw Feed regulator stud Feed connecting link Feed lifting rock shaft crank stop screw Feed lifting rock shaft crank (large) Feed lifting rock shaft (small) stop screw Feed lifting rock shaft connecting rod hinge screw Feed lifting rock shaft connecting rod Needle bar crank connecting rod Needle bar crank connecting rod hinge screw Outside presser bar guide bracket Outside presser bar guide bracket screw Outside presser bar Feed lifting rock shaft crank lock pin Feed lifting rock shaft crank complete Feed forked connection slide block nut Feed forked connection slide block Outside presser bar stop bracket Outside presser bar stop bracket connecting screw Front and Rear lifting lever link nut for pivot screw Front and Rear lifting lever link washer Front and Rear lifting lever link pivot screw Front and Rear lifting lever link Front and Rear presser bar guide bracket pivot screw Front and Rear presser bar guide bracket Front and Rear presser bar guide bracket set screw Outside presser foot thumb screw Outside presser foot Feed lifiting rock shaft connecting rod hinge screw Feed rock shaft connecting rod hinge screw nut Feed rock shaft connecting rod hinge screw Feed rock shaft crank clamping screw Feed lifting rock shaft connecting rod hinge screw nut Feed lifting rock shaft connecting rod washer Feed rock shaft crank eed lifting rock shaft crank (small)

Feed lifting rock shaft connecting rod hinge screw nut Feed forket connection pin screw





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