



INSTRUCTION MANUAL

MODELS

241-1K

241-1KX

Section 2 PARTS

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SECTION 2:

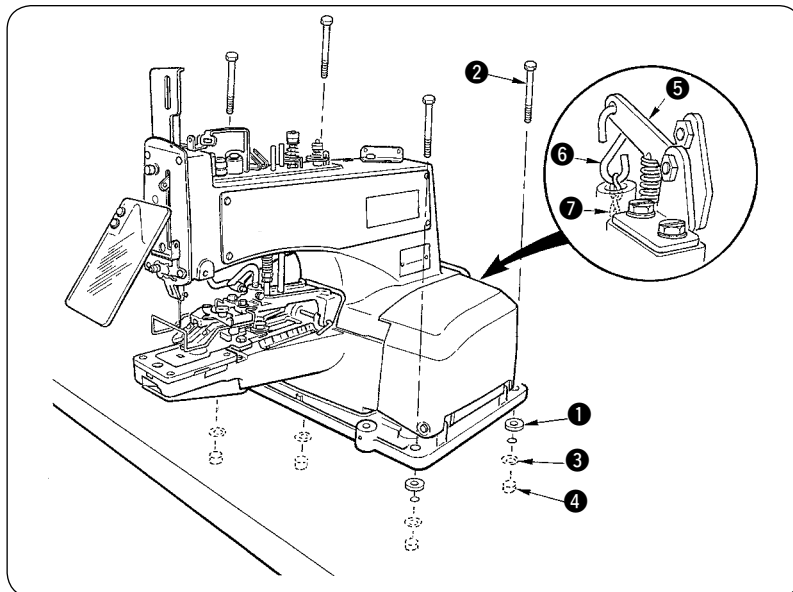
Parts diagrams and parts lists

1. SPECIFICATIONS

	241-1K	241-1KX
Sewing speed	Normal 1,300 sti/min (Max. 1,500 sti/min)	
Number of stitches	8, 16 and 32 stitches	
Feed amount	Lateral feed 2.5 to 6.5mm Longitudinal feed 0, 2.5 to 6.5mm	Lateral feed 2.5 to 6.5mm Longitudinal feed 0, 2.5 to 4.5mm
Button size	10 to 28 mm	
Needle used	TQx1 #16 (#14 to #20) TQx7 #16 (#14 to #20)	
Lubricating oil	No. 1 type high quality sewing machine oil	
Noise	- Equivalent continuous emission sound pressure level (L_{pA}) at the workstation : A-weighted value of 84 dB; (Includes $K_{pA} = 2.5$ dB); according to ISO 10821- C.6.3 -ISO 11204 GR2 at 1,300 sti/min.	

2. PREPARATION OF THE SEWING MACHINE

2-1. Installation



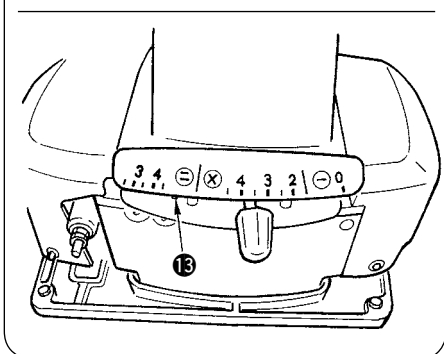
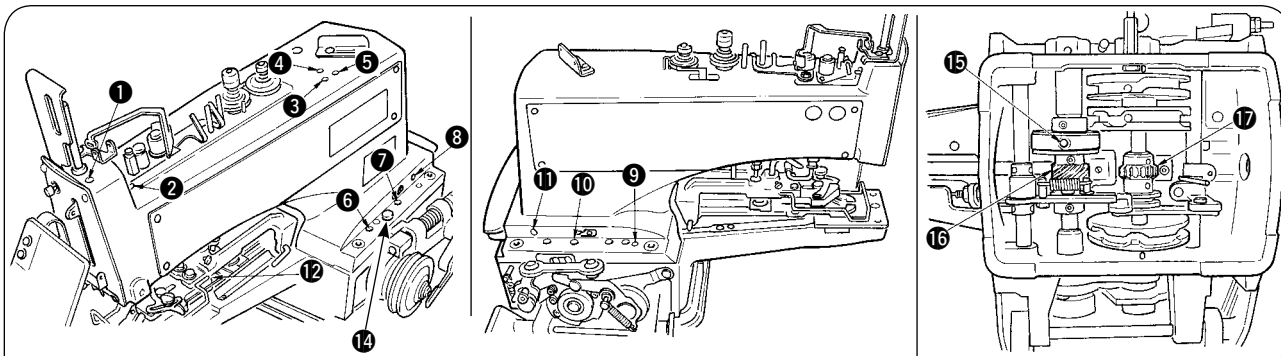
Put rubber cushion ① on the table, place the machine head on the rubber cushion and fix it to the table using screws ②, plain washers ③ and nuts ④. Attach "S" chain hook ⑥ and chain ⑦ to stop motion trip lever ⑤.

2-2. Lubrication

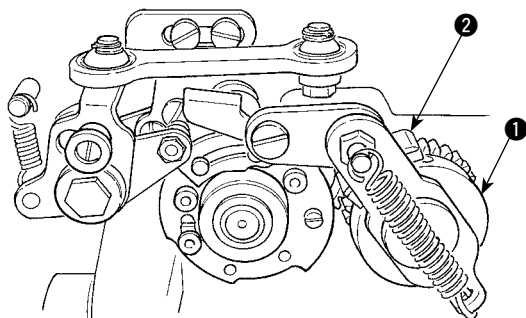


WARNING :

To protect against possible personal injury due to abrupt start of the machine, be sure to start the following work after turning the power off and ascertaining that the motor is at rest.



- 1) Open the side cover, and apply high quality #1 machine oil to the portions shown by the red marks ① to ⑬ (⑧ : 241-1KX only). (Apply approximately 1 cc of oil to the respective lubricating places one to two times a week.)
- 2) Loosen connecting screw ⑭, tilt the machine head backward and apply grease (a high quality grease) to crossed helical gear ⑯ and worm gear ⑰.
- 3) Check, approximately once a week, that oil amount is sufficient to reach the top of the oil felt placed inside the bed mounting base. If the amount of oil is insufficient, add an adequate amount of oil. At this time, also apply oil to crank rod ⑮.



[Caution at the time of lubricating]

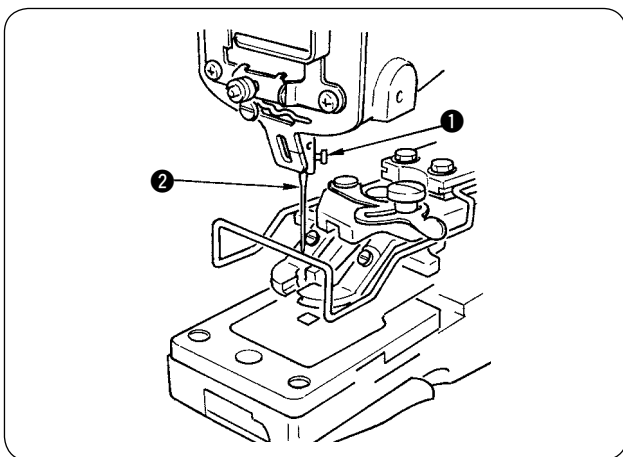
1. Take care not to allow speed slowing friction wheel ① and friction plate ② to be clogged with oil to prevent them from the deterioration of retardation performance. In addition, when the components are clogged with oil, wipe the oil from them.
2. Take care not to allow the machine belt to be clogged with oil to prevent it from the deterioration.

2-3. Attaching the needle



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★ Use a standard needle of TQx1 #16.

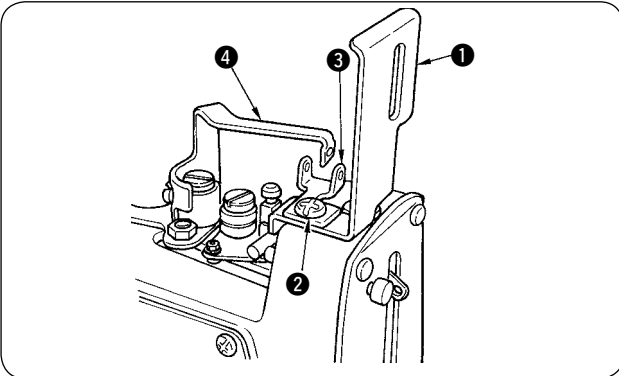
Loosen setscrew ① and hold needle ② with the long groove facing toward you. Then fully insert it into the hole in the needle bar, and tighten setscrew ①.

2-4. Attaching the needle bar cover



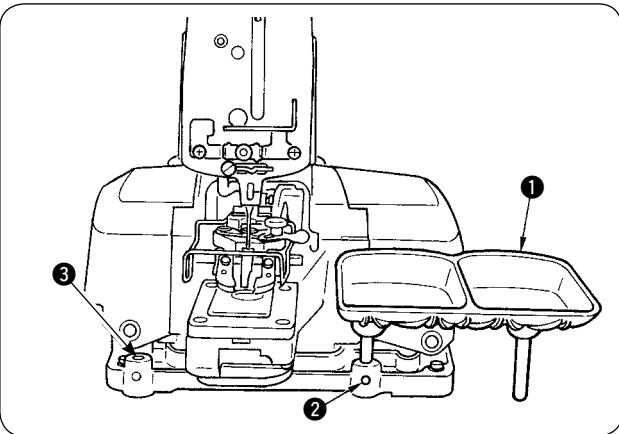
WARNING :

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- 1) Loosen screw ② and remove thread guide ③.
- 2) Place needle bar guard ① under thread guide ③ and attach thread guide ③ so that lever ④ comes to the center of it at the start of the machine.
- 3) Fix the cover with screw ②.

2-5. Attaching the button tray assembly



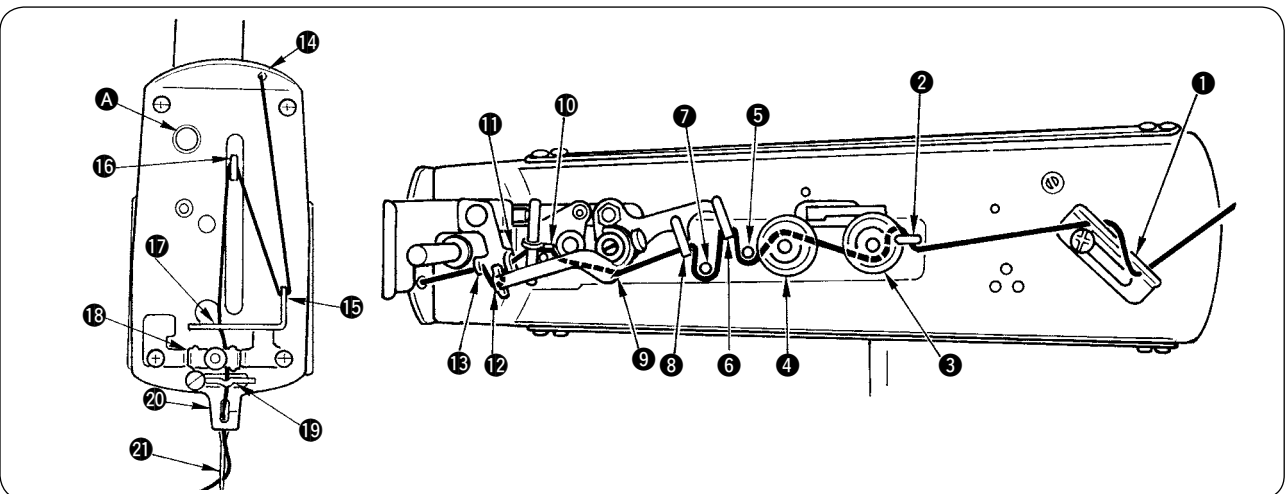
Insert the posts of button tray ① in hole on the right of the machine sub-base and tighten each setscrew ②. If it is difficult for the operator to pick up the buttons on the right side, change it to hole ③ on the left side.

2-6. Threading the machine



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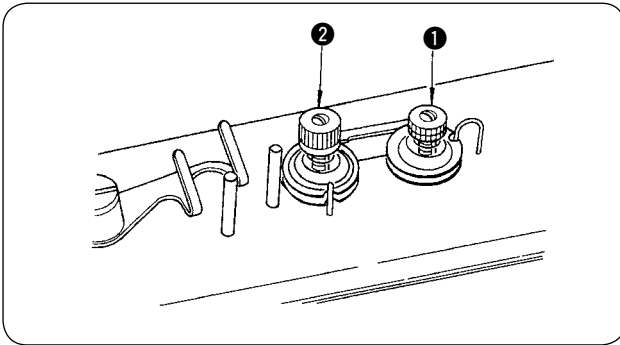


Thread the machine head in the order of ① to ⑳ as shown in the illustration given above. Then, pass the thread through the needle eye from the front for approximately 60 to 70 mm as you depress nipper releasing knurled thumb nut ㉑.

* Standard needle is TQ X 1 #16.

3. ADJUSTMENT OF THE SAWING MACHINE

3-1. Thread tension adjustment



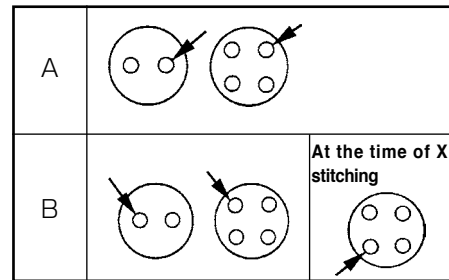
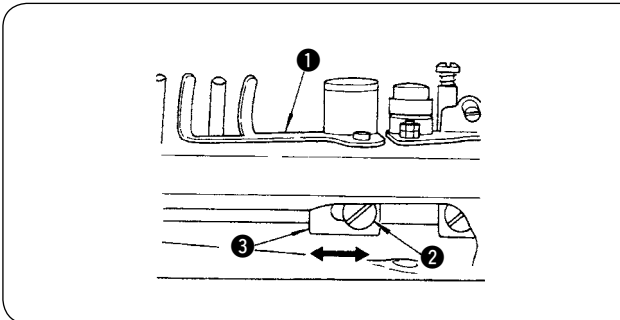
Tension post No. 1 ① is used to adjust the thread tension to sew on the button and a relatively low tension will be enough. Tension post No. 2 ② is used to adjust the thread tension applied to the root of the button sewing stitches. This tension must be determined according to the type of thread, fabric and thickness of the button and must be higher than that of tension post No. 1 ①. Turn the tension nuts clockwise to increase or counterclockwise to reduce the thread tension.

3-2. Adjustment of the thread pull-off lever



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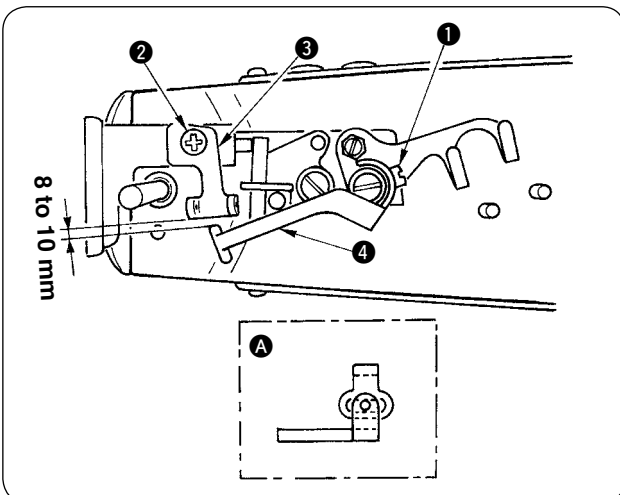
To adjust the thread pull-off lever ①, insert a screwdriver through an opening in the machine arm side cover (left), loosen screw ② and adjust the position of nipper bar block (rear) ③ to the left or the right. If the end of thread is drawn from arrow hole A in the button after sewing, change the position of nipper bar block (rear) ③ to the left. Move the lever to the right when the thread end comes out from arrow hole B.

3-3. Adjusting the tension lever



WARNING :

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- 1) When the machine is in the stop-motion state, loosen screw ①.
- 2) Tighten setscrew ① so that there is a clearance of 8 to 10 mm as a standard between the end of thread tension guide ③ and end of lever ④.

After the adjustment, make sure that the thread path is within the slot as illustrated in Fig. A when the machine starts.



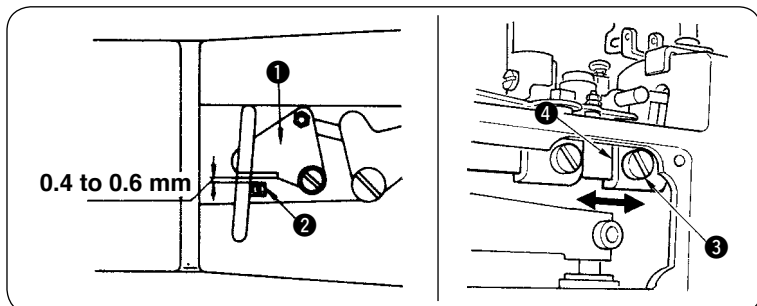
If the thread paths do not coincide with each other, loosen screw ② in the tension thread guide and adjust it properly.

3-4. Adjusting the nipper



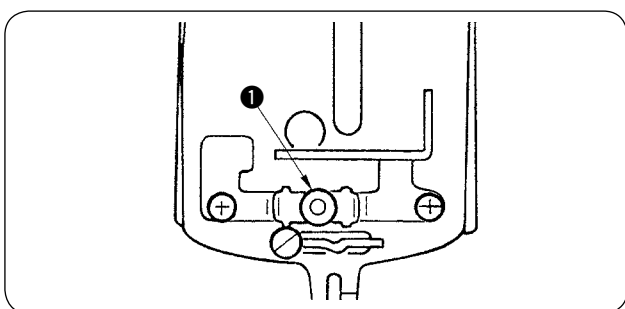
WARNING :

To protect against possible personal injury due to abrupt start of the machine, be sure to start the following work after turning the power off and ascertaining that the motor is at rest.



- 1) Provide a 0.4 to 0.6 mm clearance between nipper block ② and nipper ① to prevent the nipper ① from holding the thread while the machine is in operation.
- 2) Loosen screw ③ and move nipper bar block ④ to the right or the left.

3-5. Adjusting the thread tension guide on the face plate



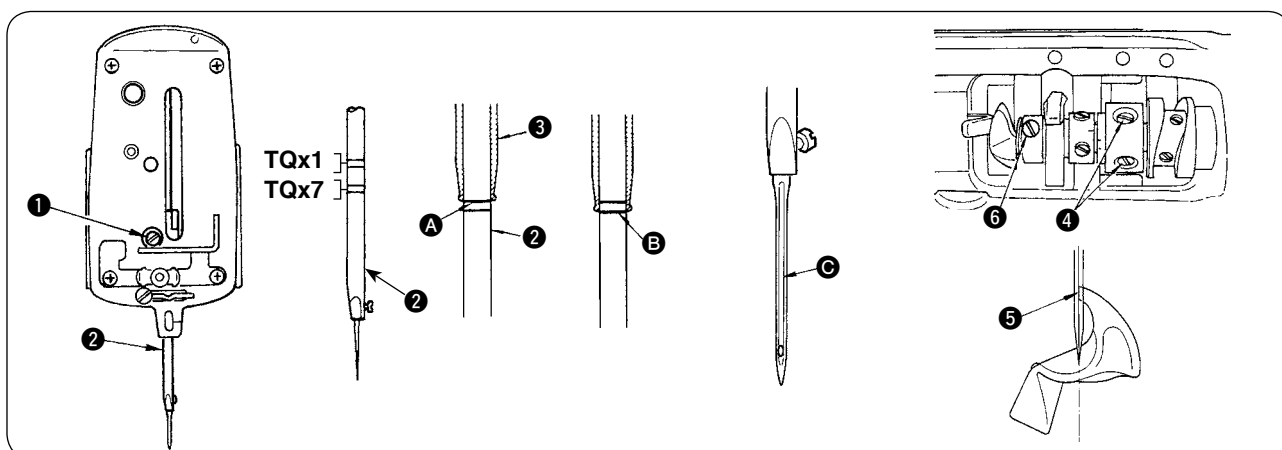
If the formation of seams at the start of sewing is failed and the seams are formed on the way even when the thread pull-off lever is adjusted, turn thumb nut ① (double nut) to decrease the thread tension.

3-6. Needle-to-looper relation



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★ Adjust the needle-to-looper relation as follows :

- 1) Depress the pedal fully forward, turn the needle driving pulley in the normal sewing direction by hand to bring down the needle bar to the lowest position of its stroke and loosen screw ①.

(Adjusting the needle bar height)

- 2) Adjust the height of the needle bar using the top two lines engraved on the needle bar ② for the TQx1 needle and using the bottom two lines for the TQx7 needle. Align the upper line A with the bottom end face of needle bar bushing (lower) ③ and tighten screw ①. At this time, tighten the screw so that groove C of the needle faces the front.

(Looper position)

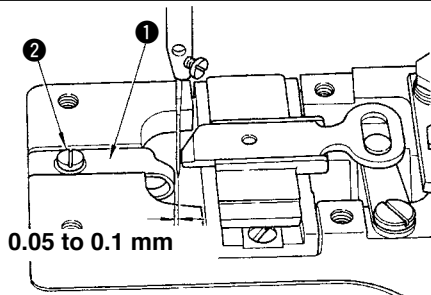
- 3) Loosen screws ④ and turn by hand the needle driving pulley until lower line B of two lines aligns with the bottom end face of needle bar bushing (lower) ③.
- 4) By keeping the machine in this state, align looper blade ⑤ with the center of the needle and tighten screws ④.
- 5) Loosen screws ⑥ and provide a 0.01 to 0.1 mm clearance between the looper and the needle. Tighten screws ⑥.

3-7. Position of the needle guide



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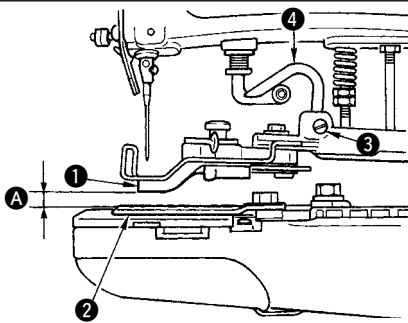
Loosen screw ② and provide a 0.05 to 0.1 mm clearance between the needle guide ① and the needle by moving the needle guide ① to the left or the right when the needle is in the lowest position.

3-8. Height of the button clamp



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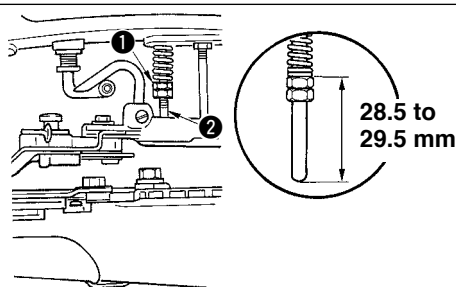
- 1) The standard clearance A between the rear side of the bottom face of button clamp jaw lever ① and the top surface of feed plate ② is 8 mm at the position where the machine has stopped after sewing.
- 2) To adjust the height of the button clamp unit, loosen screw ③ in the button clamp lifting hook and move button clamp lifting hook ④ up or down.

3-9. Work pressing force



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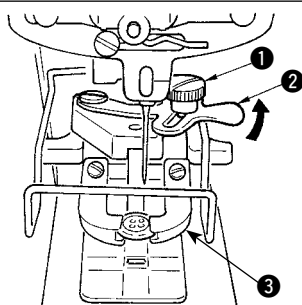
The standard work pressing force is by providing a 28.5 to 29.5 mm between the top end of nut ① and the bottom end of pressure adjusting bar ②. Turn nut ① to adjust it.

3-10. Adjustment of the button clamp stop lever



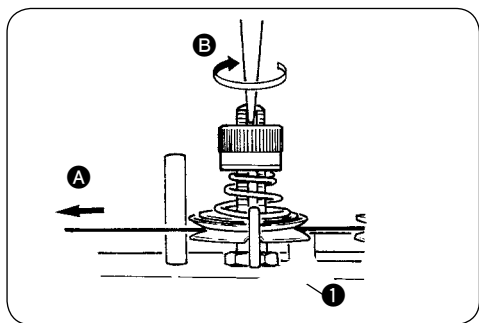
WARNING :

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When clamp screw ① is loosened in the state of stop-motion, button clamp jaw levers ③ opens/closes with button clamp stop lever ②. Set a button to the correct position and fix button clamp stop lever ② at the position where taking in and out of the button is easily performed with clamp screw ①.

3-11. Timing of thread tension release



Turn the needle driving pulley as you draw the thread in the direction of arrow mark **A** and you will find a point at which the tension discs on the tension post No. 2 release the thread. At this moment, the standard distance from the top end of the needle bar bushing (upper) to the top end of the needle bar is 44 to 47 mm (in case of the needle of TQ X 7, 54 to 57 mm).

Perform the following adjustments especially when the undermentioned troubles occur frequently.

Loosen nut **1**, insert the blade of a screwdriver to the top slot of the tension post No. 2 and turn it in the direction of arrow mark **B** to lower the height of the thread floating bar and in the opposite direction to raise the height.

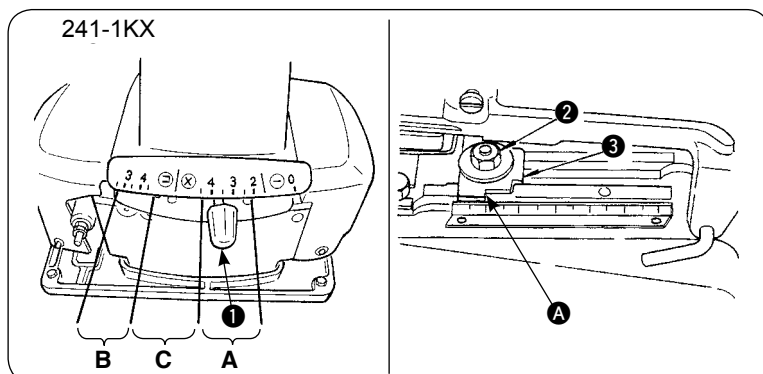
Phenomenon	Height of thread floating bar
1. When the stitch made on the wrong side of the workpiece is too loose ;	Make the needle bar slightly higher.
2. When the thread is broken at the time of stop-motion ;	Make the needle bar slightly lower.
3. When the thread is broken frequently ;	Make the needle bar slightly lower.

3-12. Setting for 2- or 4-hole buttons



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Perform the adjustment after confirming that the sewing machine is located at the position of the stop-motion (refer to "3-14. Adjusting the position of the stop-motion", p.8).

Measure the distance between two holes in a button and set equally crosswise and lengthwise feed regulators for 4-hole buttons.

[In case of 241-1K

★ Lengthwise feed

Push down lengthwise feed adjusting lever **1** and set it to "0" for 2-hole buttons or a corresponding amount for 4-hole buttons.

★ Crosswise feed

Loosen nut **2** and set section **A** of pointer **3** to a corresponding amount. Then tighten nut **2**.

[In case of 241-1KX

★ Lengthwise feed

Push down lengthwise feed adjusting lever **1** and set it to "0" for -2-hole buttons or a corresponding amount for 4-hole buttons by the respective procedures below according to the sewing methods.

X stitch : Set the lengthwise feed adjusting lever to the position corresponding to the amount for the button within the range of **A**.

U-sharp stitch : Set the lengthwise feed adjusting lever to the position corresponding to the amount for button within the range of **B**.



When setting the lengthwise feed adjusting lever to the position of **C** (outside of range of setting the lever), not only the sewing cannot be performed but also trouble will be caused. Do not set the feed adjusting lever at the position of **C**.

★ Crosswise feed

Loosen nut **2** and set section **A** of pointer **3** to a corresponding amount. Then tighten nut **2**.



Before operating the machine, ensure that the needle enters the center of each hole in the button.

3-13. Setting a number of stitches

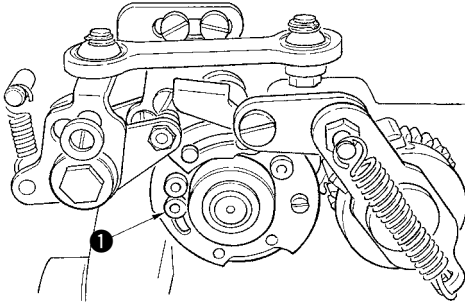


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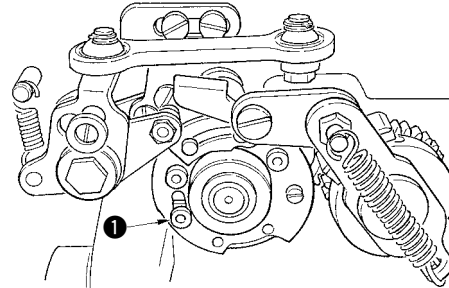
To change the number of stitches, open the left-hand side cover and change the number of stitches using stitch number adjusting screw ❶ and stitch number adjusting lever ❷ (optional).

★ How to adjust 8 stitches



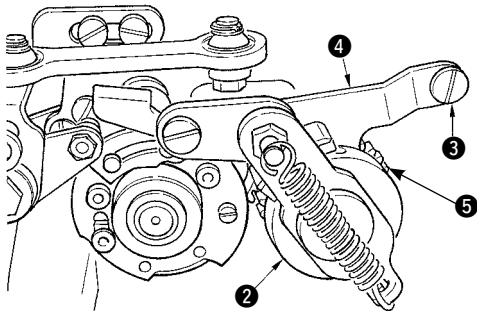
To make 8 stitches, loosen stitch number adjusting screw ❶ and fix it to the position as shown in the illustration.

★ How to adjust 16 stitches



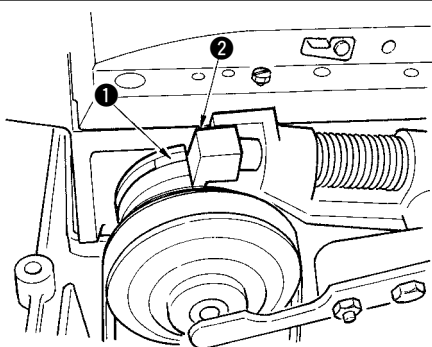
When stitch number adjusting screw ❶ being set for "8 stitches" has arrived at the left end, loosen stitch number adjusting screw ❶ and fix it to the position as shown in the illustration.

★ How to adjust 32 stitches



In the state of 16 stitches, stitch number adjusting gear roller ❷ which is attached to the large gear ❸ comes to the lower side, assemble stitch number adjusting lever ❹ (supplied as accessories) using hinge screw ❸ (supplied as accessories).

3-14. Adjusting the position of the stop-motion



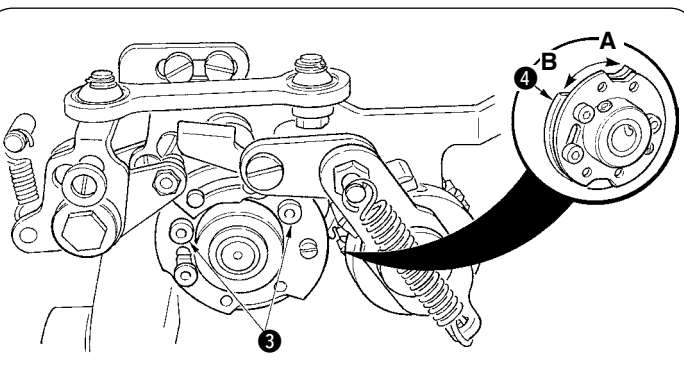
Adjust so that claw ❶ of the stop-motion cam comes in contact with stop-motion hook ❷ when the sewing machine completes the sewing and stops.



When replacing the motor pulley and changing the sewing speed from 1,300 sti/min to 1,500 sti/min, and vice versa, be sure to re-adjust the position of the stop-motion.

[Adjusting procedure]

- When the stop-motion hook comes in contact with the stop-motion cam and rebounds, (When there is a clearance between claw ❶ and stop-motion hook ❷) loosen two stop-motion position adjusting screws ❸, turn stop-motion adjusting cam ❹ in the direction of A, and fix stop-motion position adjusting screws ❸.
- When the stop-motion hook stops before it comes in contact with the stop-motion cam claw Loosen two stop-motion position adjusting screws ❸, turn stop-motion adjusting cam ❹ in the direction of B, and fix stop-motion position adjusting screws ❸.

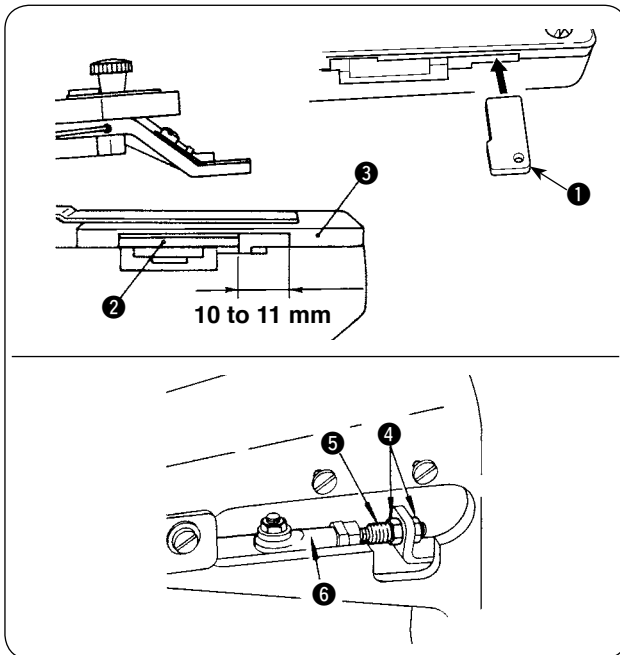


3-15. Adjusting the position of the moving knife



WARNING :

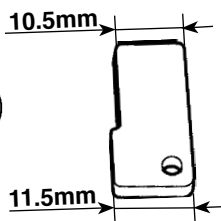
To protect against possible personal injury due to abrupt start of the machine, be sure to start the following work after turning the power off and ascertaining that the motor is at rest.



Adjust the position of the moving knife by means of thread trimming gauge ① that comes with the unit as an accessory.

When the presser has completely lifted at the stop-motion position (refer to "3-14. Adjusting the position of the stop-motion", p.8), it is the standard that the clearance between thread trimming connecting plate (front) ② and the end face of the slit of throat plate ③ is 10 to 11 mm.

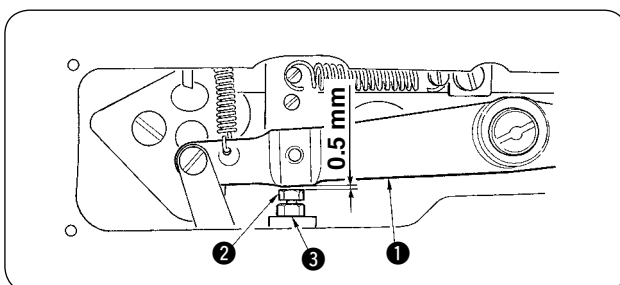
Tilt the sewing machine. Remove the oil shield of the bed. Loosen two nuts ④. Adjust the position of the moving knife by moving connecting screw ⑤ back and forth using the gauge you have inserted as a guide. When you loosen nuts ④, try to position thread trimmer connecting joint ⑥ so that it is nearly leveled.



If the moving knife is not correct (the distance between ② and ③ is too short), the yoke slide may interfere with the thread separating claw. In this case, adjust the clearance provided between thread trimmer connecting plate (front) ② and the end face of the slot in throat plate ③ to 11 to 12 mm using the "11.5 mm" side of gauge ①.

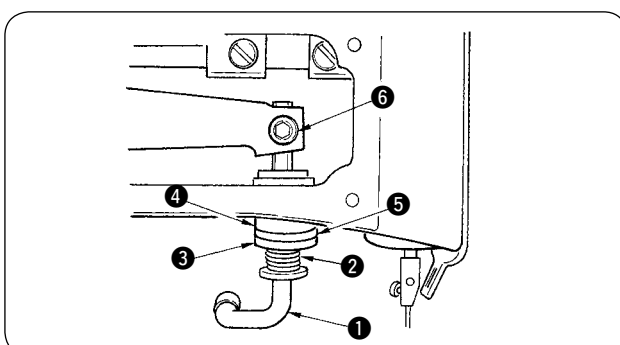
In the case the position of the moving knife is not correct (the distance between ② and ③ is too long), thread may remain on the wrong side of material. To prevent this, adjust the aforementioned clearance to 10 to 11 mm using the "10.5 mm" side of the gauge.

3-16. Clearance between the button clamp lifting lever and the adjusting screw



Provide a 0.5 mm clearance between the end face of button clamp lifting lever ① and adjusting screw ② at the stop-motion position (refer to "3-14 Adjusting the position of the stop-motion", p.8) and tighten with adjusting screw nut ③.

3-17. How to set the L-shaped lifting rod



Put moving knife push-back spring ②, stop-motion rubber cushion washer ③, stop-motion rubber cushion ④ and stop-motion rubber cushion washer ⑤, in this order, to L-shaped lifting rod ①. Make the jaw of the machine arm come into close contact with the end face of the stop-motion rubber cushion washer at the stop-motion position (refer to "3-14 Adjusting the position of the stop-motion", p.8) and set the L-shaped lifting rod without a play. Then tighten it with screw ⑥.

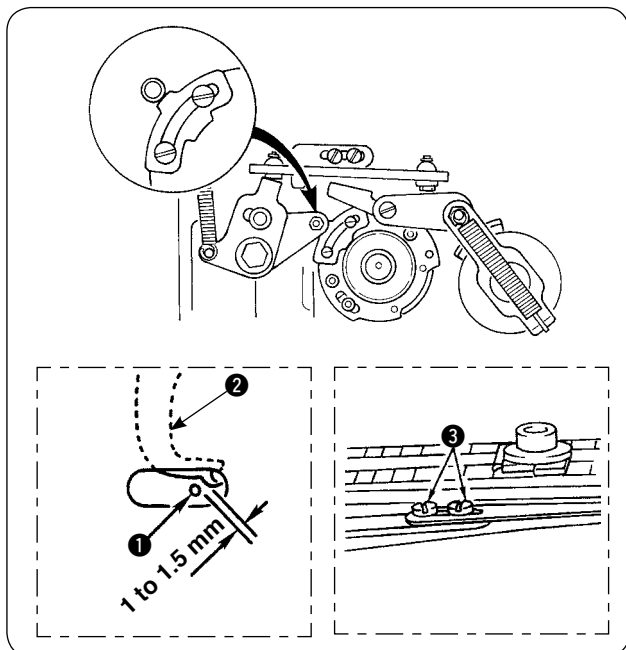
3-18. Knot-tying mechanisms



WARNING :

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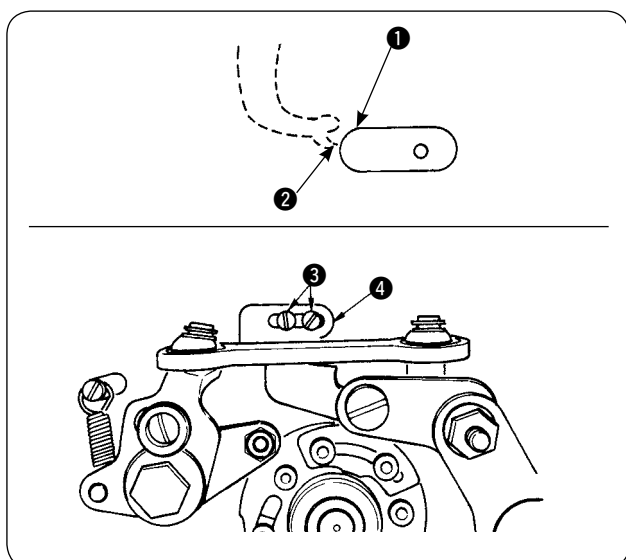
(1) Adjusting the knot-tying connecting plate



Loosen screws ❶ and adjust so that a clearance of 1 to 1.5 mm is provided between the needle ❷ and the knot tying plate ❸ when the roller of the knot-tying arm gets on the outmost periphery of the knot-tying notch.

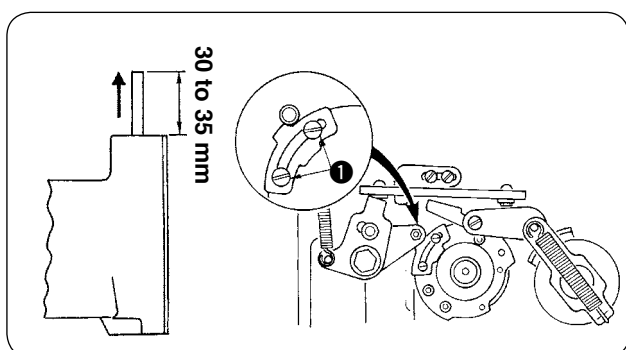
(After the adjustment, ascertain that the needle does not come in contact with the knot-tying plate.)

(2) Adjusting the knot-tying arm stopper



When starting the sewing machine and the roller of knot-tying arm does not come into contact with the knot-tying notch, loosen screws ❸ and adjust with stopper ❹ so that outside periphery ❶ of the needle hole almost aligns with top end ❷ of the knot-tying plate.

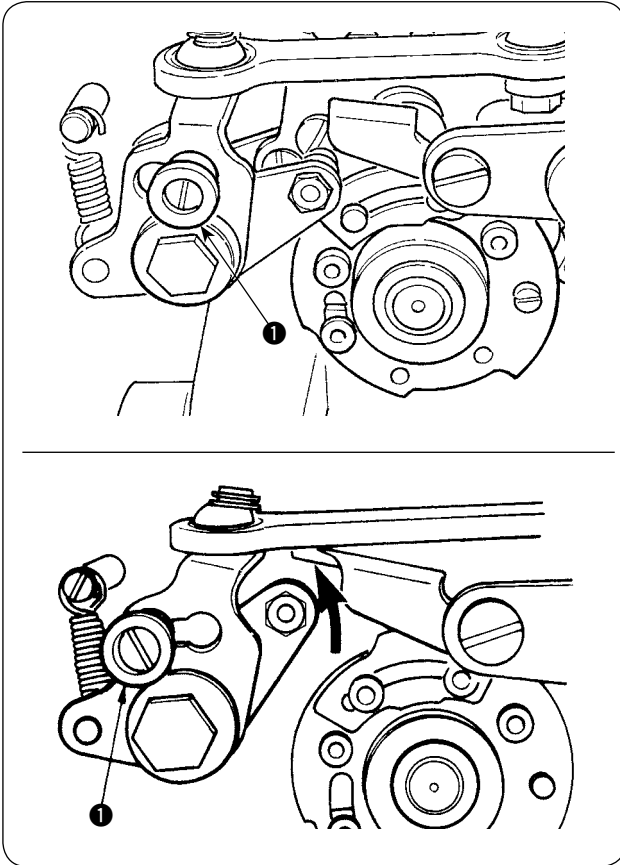
(3) Adjusting the knot-tying notch



Loosen screws ❶ and adjust so that the roller of the knot-tying arm comes in contact with the knot-tying notch when the needle bar goes up at the fourteenth stitch as high as 30 to 35 mm (40 to 45 mm when a TQ x 7 needle is used) above the needle bar upper bushing.

Caution If two knot-tying notches are to be installed (without crossover stitch), make the aforementioned adjustment at the 6th and 14th stitches.

(4) Changeover of with/without knot-tying



To make “with knot-tying”, pull knot-tying changeover knob ❶ toward the front and place it to the position in the figure.

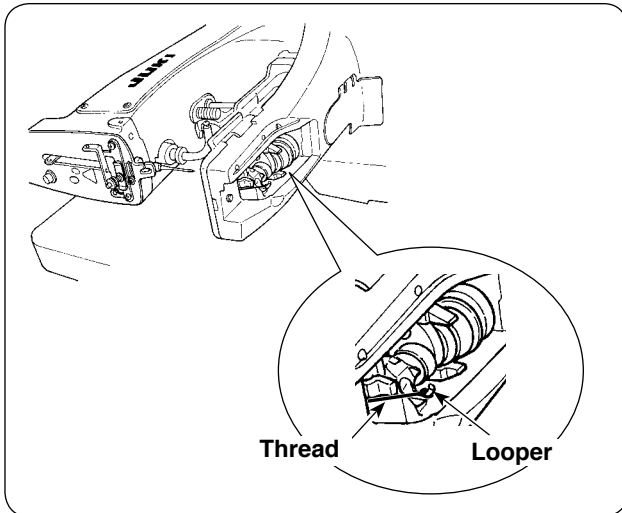
To make “without knot-tying”, pull knot-tying changeover knob ❶ toward the front and place it to the position in the figure.

3-19. Adjusting the thread tension controller No. 3



WARNING :

To protect against possible personal injury due to abrupt start of the machine, be sure to start the following work after turning the power off and ascertaining that the motor is at rest.



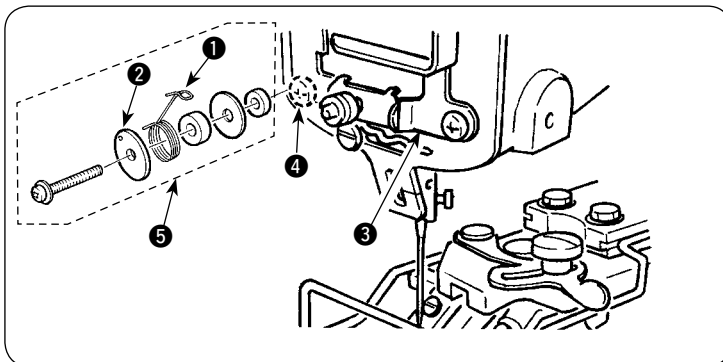
Depending on the product to be sewn, the needle can pierce the thread of the previous stitch when it enters the same point twice during sewing (8th, 16th, 24th and 32nd stitches). This results in thread trimming failure and thread breakage. (When the needle enters the same needle entry point as the previous stitch, the button clamp does not move. As a result, the thread is likely to slacken and the needle pierces the slackened part of the thread.)

If the phenomenon where the thread gets hung up on the looper and does not leave there frequently occurs, use the thread tension controller No.3 (asm.) (part number: 40112426) for the thread take-up spring.



In addition, the aforementioned trouble can be prevented more effectively by the use of a ball-point needle instead of the current one.

(1) Assembly procedure

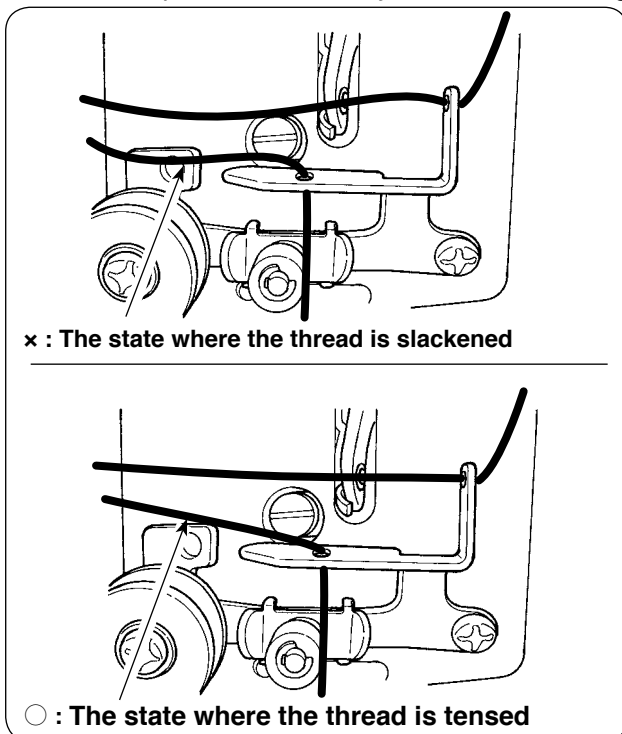


Put the top end of thread take-up spring ① into the hole in the thread take-up spring base ②.

Remove screw ④ from tension controller No. 3 mounting plate ③. Then, tighten thread tension controller No.3 (asm.) ⑤ for the thread take-up spring with that screw.

(2) Adjustment

After the completion of assembly, check the following:

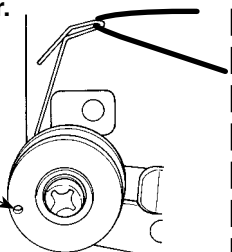


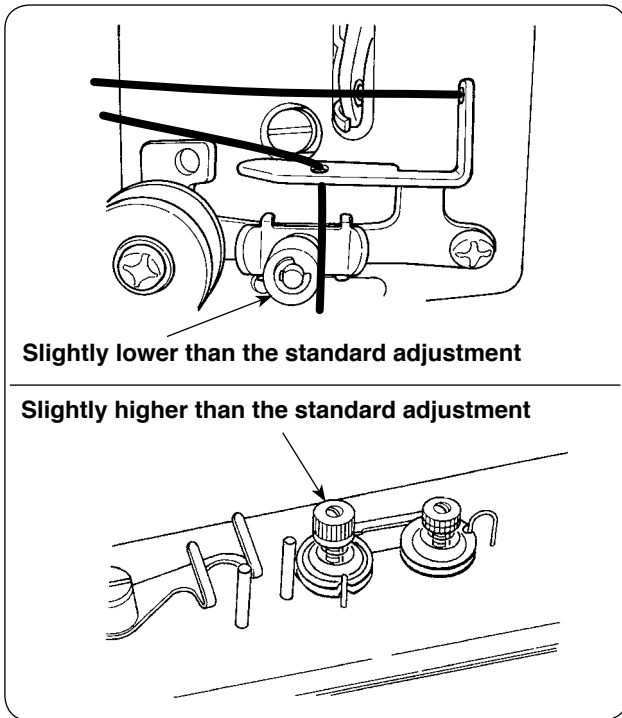
1) Check the thread take-up amount

Turn the handwheel by hand to carry out sewing. Adjust so that the thread is not slackened at the moment when the needle penetrates the material. Adjust by moving the spring to the left position counterclockwise that the thread is not slacked. If you turn the spring counterclockwise excessively, the thread take-up amount will be excessively increased, resulting in slip-off of the thread from the needle eyelet.



1. The thread is not tensed unless the thread loop has been formed. Be sure to check how the thread is tensed at the 2nd stitch or later.
2. At the time of adjustment, this hole is used as a guide to determine the best-suited position.





2) Adjust the pressure of the thread tension controller.

To allow the thread take-up spring to take effect, adjust so that the pressure of the thread tension controller plate is slightly decreased.

At this time, adjust so that the pressure of the tension controller No. 2 is slightly increased. This will effectively prevent the needle from piercing the thread of the previous stitch.

3) Correctly adjust the looper timing.

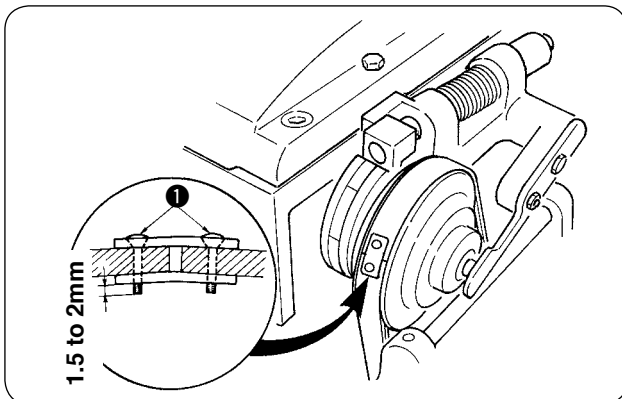
Thread loop may not be smoothly formed since the spring is adjusted so that the thread is not slackened at the moment when the needle penetrates the material. Be sure to adjust the looper timing with accuracy so as to operate the sewing machine smoothly.



If the looper timing is excessively advanced, the looper may fail to catch the loop smoothly.

4. MAINTENANCE, SUBCLASS MODELS AND ATTACHMENTS

4-1. How to connect the metal fittings of the belt



Tighten connecting screws ① of the belt so that the screws protrude approximately 1.5 to 2 mm from the reverse side as the standard.



1. When assembling the belt to the pulley and rotating the motor after closing the side cover, confirm that the side cover does not interfere with the metal fitting of the belt.
2. Take care not to allow the belt to be clogged with oil when assembling it.

4-2. Subclass models

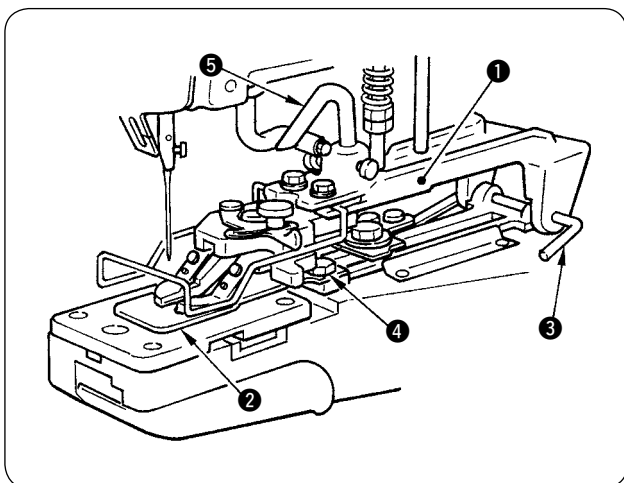
MB-1373	MB-1373-11
8, 16, 32 stitches	8, 16, 32 stitches

4-3. Attachments



WARNING :

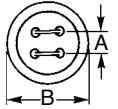
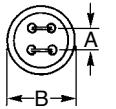
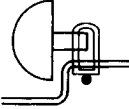
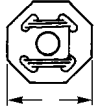
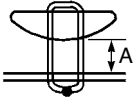
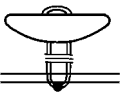
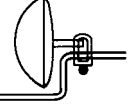
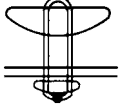
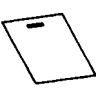
To protect against possible personal injury due to abrupt start of the machine, be sure to start the following work after turning the power off and ascertaining that the motor is at rest.



- 1) In order to install the attachment on the machine, you may have to remove button clamp mechanism ① or feed plate ②.
- 2) Detach the snap ring from button clamp installing stud ③, and you will be able to remove button clamp mechanism assembly ①. Remove screw ④, and you can remove feed plate ②.



The only feature that makes the difference between the attachment of MB-373NS and that of MB-377NS is button clamp lifting hook ⑤.

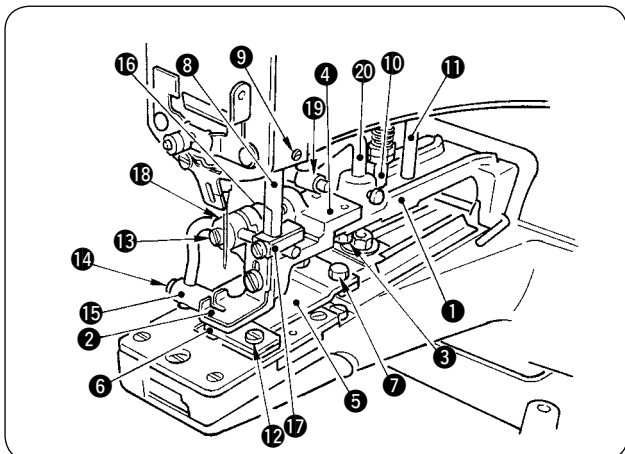
Use	Flat buttons		Shank buttons		Snaps
	Large-size	Medium-size	General		
MB-1373 MB-1377	Z201	Z202	Z033		Z037
Schematic drawing					
Remarks	Button size : A : 3 to 6.5 mm B : \varnothing 20 to \varnothing 28 mm	Button size : A : 3 to 5 mm B : \varnothing 12 to \varnothing 20 mm	Button diameter : Less than 16 mm Shank size : Thickness : 6 to 5 mm Width : 3 to 2.5 mm		Snap size : A : 8 mm
Use	Wrapped-around buttons		Metal buttons	Stay button	Labels
	First process	Second process	General		
MB-1373 MB-1377	Z041	Z035	Z038	Z039	Z044
Schematic drawing					
Remarks	Thread shank height A : 5.5 mm			Common to Z041	Stitch width : 3 to 6.5 mm

(1) Attachments for shank buttons (Pearl buttons) (Z033)



WARNING :

To protect against possible personal injury due to abrupt start of the machine, be sure to start the following work after turning the power off and ascertaining that the motor is at rest.



(INSTALLATION)

Remove both the button clamp mechanism assembly and the feed plate from the machine and install attachment ① in place. Loosen screws ③ and adjust button clamp bracket ④ to permit the needle to come down in the middle of the needle slot in shank button adaptor ②. Attach button clamp feed plate ⑤ using screws ⑦ in the way that it permits the needle to come down in the middle of the needle slot in feed plate ⑥. Insert the top end of button clamp stud ⑧ into an opening in the jaw of the machine arm and fasten it by screw ⑨.

(ADJUSTMENT AND OPERATION)

- 1) Loosen screw ⑫, let feed plate ⑥ recede 0.5 to 1.0 mm from the left end of button clamp jaw lever ② and retighten screw ⑫.
- 2) Set a button in place, loosen screws ⑬ and ⑭ and align shank button holding clamp ⑮ with the center of the button.
- 3) Shank button holding clamp ⑮ must give proper pressure to the button so that the button stays steadily in position while being sewn. Loosen a setscrew in thrust collar ⑯ and rotate the thrust collar until shank button holding clamp ⑮ provides proper pressure.
- 4) You may fix button clamp block ⑰ in a convenient position for operation.



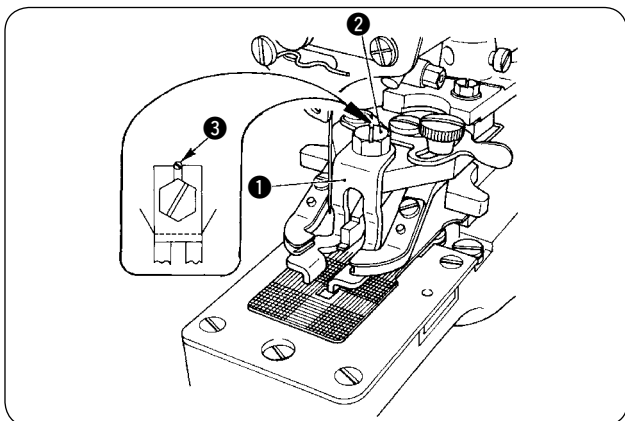
1. When you fix the thrust collar, ensure that button clamp rotating shaft ⑱ does not play axially in its bracket.
2. Adjust lifting hook ⑳ and stopper pin ㉑ so that L-shaped lifting rod roller ㉒ does not come in contact with button clamp bracket ④.

(2) Attachment for the first process of wrapped-around buttons (Z041)



WARNING :

To protect against possible personal injury due to abrupt start of the machine, be sure to start the following work after turning the power off and ascertaining that the motor is at rest.



(INSTALLATION)

Attach wrapped-around button foot ① to the ordinary button clamp jaw levers using screw ② and guide pin screw ③. Align foot ① with the jaw levers so that they permit a button to rest in the middle.

(ADJUSTMENT AND OPERATION)

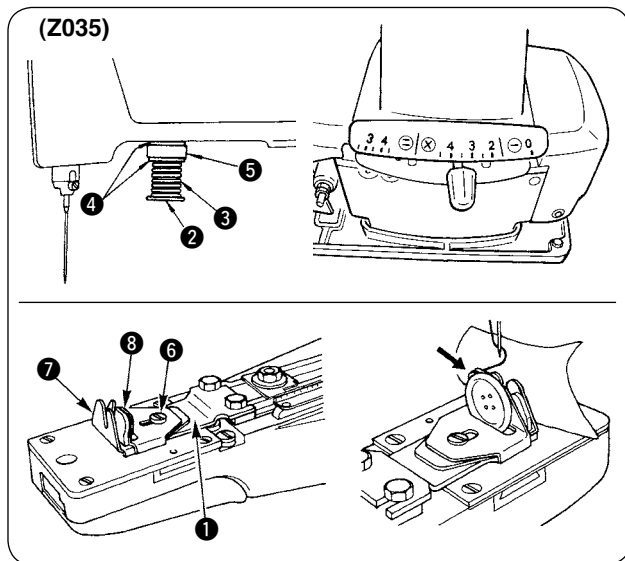
Adjustment and operation are almost same as those for the flat buttons, but you must adjust the thread pull-off lever to provide more amount of thread in order to make the thread loose below the button for thread shank formation. (refer to "3-2. Adjustment of the thread pull-off lever", p.4)

(3) Attachment for the second process of wrapped-around buttons (Z035)



WARNING :

To protect against possible personal injury due to abrupt start of the machine, be sure to start the following work after turning the power off and ascertaining that the motor is at rest.



(INSTALLATION)

Remove the button clamp mechanism assembly, button clamp pressure adjusting bar and feed plate from the machine and install attachment for the second process of wrapped-around buttons ①. When you install a Z035 attachment, you must remove also the L-shaped lifting rod.

Insert moving knife push-back spring ③, washer ④, cushion ⑤ and washer ④ in spring guide shaft ② in this order. Make certain that the stop-motion mechanism has completely engaged, and install the attachment assembly in place in the way that cushion ⑤ comes in close contact with the surface of the machine arm without play.

(ADJUSTMENT AND OPERATION)

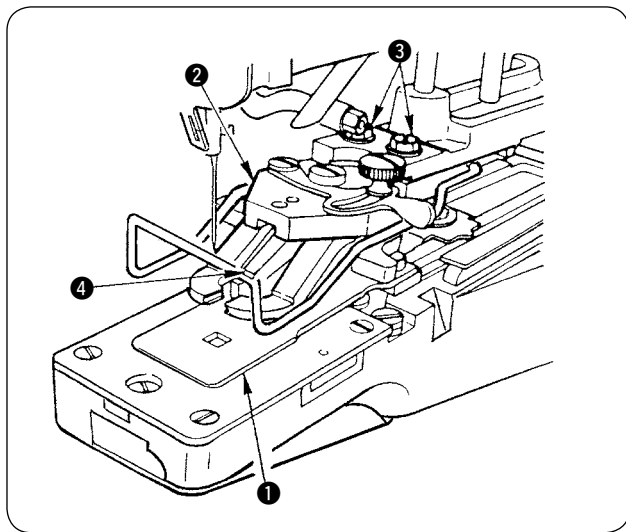
- 1) Loosen screw ⑥ and adjust the thread shank length by moving guide (large) ⑦ and guide (small) ⑧ in line with the point of needle entry.
- 2) Set a button (tilt it slightly for easy insertion) and pass the thread as the arrow shows.
- 3) Set the lengthwise feed to "0".

(4) Attachment for snaps (Z037)



WARNING :

To protect against possible personal injury due to abrupt start of the machine, be sure to start the following work after turning the power off and ascertaining that the motor is at rest.



(INSTALLATION)

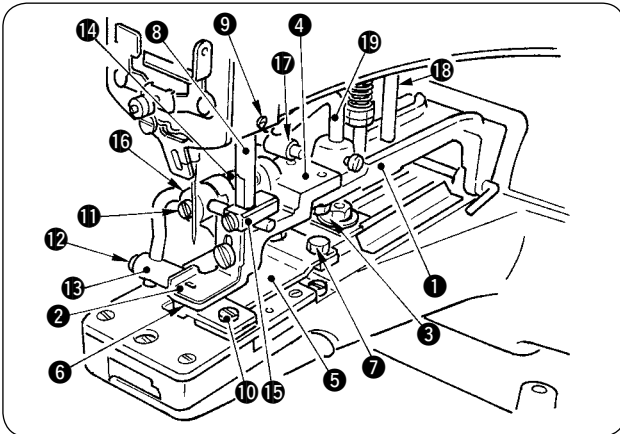
Remove the button clamp mechanism assembly and the feed plate. Set both the crosswise feed and lengthwise feed graduated plates to "4 mm". Install snap clamp feed plate ① in the way that the needle drops evenly at four corners of its square opening. Install snap attachment assembly ② on the machine, place a snap on the snap clamp jaw levers and make sure that the needle drops accurately in each hole in the snap. If necessary, loosen hex head screws ③ and adjust the position accurately. Lastly, make sure that the concave section on the bottom face of snap clamp slide guide ④ accurately matches the convex section on snap clamp feed plate ①.

(5) Attachment for metal buttons (Z038)



WARNING :

To protect against possible personal injury due to abrupt start of the machine, be sure to start the following work after turning the power off and ascertaining that the motor is at rest.



(INSTALLATION)

Remove both the button clamp mechanism assembly and the feed plate from the machine and install attachment ① in place. Loosen screws ③ and adjust button clamp bracket ④ to permit the needle to come down in the middle of the needle slot in metal button adaptor ②. Attach button clamp feed plate ⑤ using screws ⑦ in the way that it permits the needle to come down in the middle of the needle slot in feed plate ⑥. Insert the top end of button clamp stud ⑧ into an opening in the jaw of the machine arm and fasten it by screw ⑨.

(ADJUSTMENT AND OPERATION)

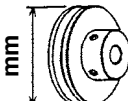
- 1) Loosen screw ⑩, let feed plate ⑥ recede 1.0 to 1.5 mm from the left end of button clamp jaw lever ② and retighten screw ⑩.
- 2) Set a button in place, loosen screws ⑪ and ⑫ and align metal button holding clamp ⑬ with the center of the button.
- 3) Metal button holding clamp ⑬ must give proper pressure to the button so that the button stays steadily in position while being sewn. Loosen a setscrew in thrust collar ⑭ and rotate the thrust collar until metal button holding clamp ⑬ provides proper pressure.
- 4) You may fix button clamp block ⑮ in a convenient position for operation.



1. When you fix the thrust collar, ensure that button clamp rotating shaft ⑯ does not play axially in its bracket.
2. Adjust lifting hook ⑰ and stopper pin ⑱ so that L-shaped lifting rod roller ⑰ does not come in contact with button clamp bracket ④.

4-4. Motor pulley and belt

- 1) For this machine a single-phase or 3-phase 200 watts (1/4 HP) induction motor is used.
- 2) Use a V belt.
- 3) The sewing speed depends on the diameter of the motor pulley as listed below ;

Hz	sti/min	Motor pulley part No.	mm 
50	1,500	40038291	ø 76
	1,300	40038298	ø 64.5
60	1,500	40038298	ø 64.5
	1,300	40042229	ø 57

- ★ The pulley of 50Hz and 1,300 sti/min is in common with that of 60Hz and 1,500 sti/min.
- ★ The rotating direction of motor is counterclockwise when viewed from the motor pulley side. Be careful not to rotate in reverse direction.
- ★ When replacing the motor pulley and changing the sewing speed from 1,300 sti/min to 1,500 sti/min and vice versa, be sure to re-adjust the position of the stop-motion. (Refer to "3-14. Adjusting the position of the stop-motion", p.8.)

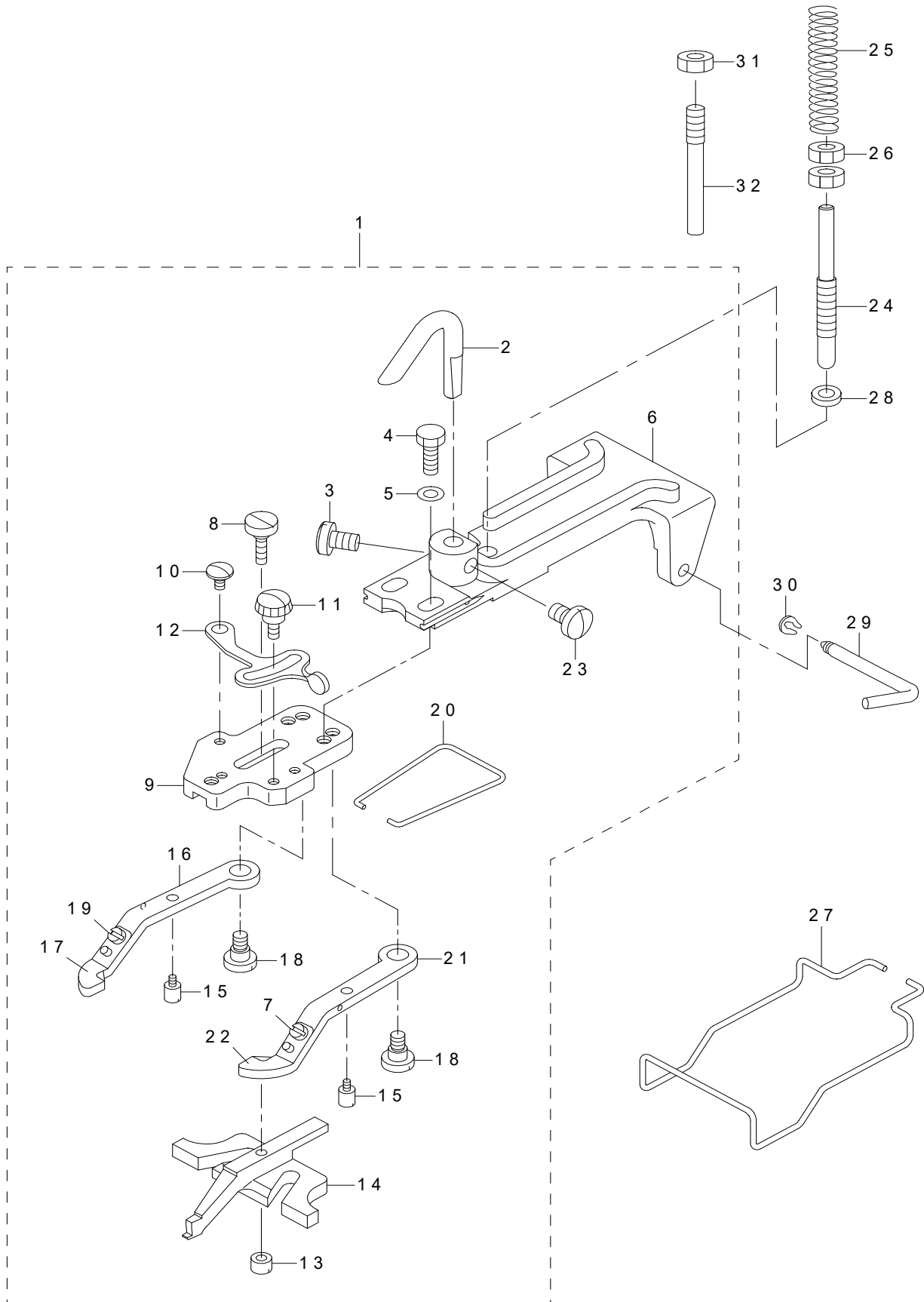
5. TROUBLES AND CORRECTIVE MEASURES

TROUBLES	CAUSES	CORRECTIVE MEASURES
1. Thread breakage	<ul style="list-style-type: none"> ① The yoke slide does not move in the correct way. ② The tension lever has been improperly adjusted. ③ The thread tension post No. 2 fails to release the thread at correct timing. ④ Lifting amount of the button clamp jaw unit is excessive. ⑤ The thread nipper catches the thread. The nipper has been improperly adjusted. (The clearance is too small.) ⑥ The needle does not enter the center of the holes in the button. ⑦ The needle is too thick for the diameter of the hole in the button. 	<ul style="list-style-type: none"> ○ Adjust the timing of forward, backward and sideways of the yoke slide. ○ Properly adjust the tension lever. ○ Make the thread release timing slightly earlier. ○ Adjust the lifting amount of the button clamp jaw lever to 8 mm. ○ Adjust the position of the nipper bar block. ○ Adjust the button clamp jaw lever holder. ○ Replace the needle by a thinner one.
2. The machine forms a seam after it has run for a while instead of forming it from the start of sewing.	<ul style="list-style-type: none"> ① The thread pull-off lever has been improperly adjusted. ② Tension of the thread tension guide on the face plate is excessive. 	<ul style="list-style-type: none"> ○ Adjust the thread tension guide on the face plate so that it provides a lower tension. ○ Properly adjust the tension lever.
3. Buttons are not sewn tightly	<ul style="list-style-type: none"> ① The yoke slide does not move in the correct way. ② The thread tension post No. 2 fails to release the thread at correct timing. ③ The thread tension post No. 2 does not give sufficient tension. ④ The needle does not enter the center of the holes in the button. ⑤ The work pressing force is too high or too low. 	<ul style="list-style-type: none"> ○ Adjust the timing of the motion of the yoke slide at each end. ○ Make the thread release timing slightly later. ○ Tighten the tension nut of tension post No. 2. ○ Adjust the button clamp jaw lever holder. ○ Adjust the work pressing force properly.
4. The last back-tack stitch is poorly tensed.	<ul style="list-style-type: none"> ① The tension lever has been improperly adjusted. ② Timing of the knot-tying plate is incorrect. ③ The nipper has been improperly adjusted. (The clearance is too large.) 	<ul style="list-style-type: none"> ○ Properly adjust the tension lever. ○ Advance the timing of the knot-tying plate. (Adjustment of the knot-tying notch) ○ Adjust the nipper with the nipper bar block.
5. The first stitch trails relatively long thread from the right side of the button.	The thread pull-off lever does not work properly.	<ul style="list-style-type: none"> ○ Adjust the thread pull-off lever by the nipper bar block (rear).
6. Thread trimming failure in the state of stop-motion	<ul style="list-style-type: none"> ① The thread tension post No. 2 fails to release the thread at correct timing. ② The needle hits the edge of the holes in the button. ③ The thread nipper fails to press the thread. ④ The work pressing force is too high. 	<ul style="list-style-type: none"> ○ Make the thread release timing slightly later to give more tension to the stitches. ○ Adjust the button clamp jaw lever holder. ○ Adjust the nipper bar block. ○ Adjust the work pressing force by the pressure adjusting nut.
7. Thread trimming failure	<ul style="list-style-type: none"> ① The moving knife does not separate the thread on the fabric with its separation nail. ② The needle does not enter the center of the holes in the button. ③ The last stitch skips. ④ The moving knife thread separation nail is too high or too low. 	<ul style="list-style-type: none"> ○ Adjust the position of the moving knife. ○ Adjust the button clamp jaw lever holders. ○ Adjust the looper. ○ Adjust the height of the moving knife thread separation nail.
8. The needle thread is cut in two places on the wrong side of the fabric.	<ul style="list-style-type: none"> ① The moving knife is set in wrong place. ② The moving knife thread separation nail is too high or too low. 	<ul style="list-style-type: none"> ○ Adjust the position of the moving knife when the machine is in the stop-motion state. ○ Adjust the height of the thread separation nail.
9. Button trails too long thread after thread trimming.	<ul style="list-style-type: none"> ① Timing of the moving knife motion is wrong. ② Lifting amount of the button clamp jaw unit is excessive. 	<ul style="list-style-type: none"> ○ Adjust the position of the moving knife when the machine is in the stop-motion state. ○ Adjust the lifting amount of the button clamp jaw lever to 8 mm.
10. Length of thread remaining, after thread trimming, on the wrong side of the material varies.	<ul style="list-style-type: none"> ① Position of the moving knife is not correct. ② Lifting amount of the button clamp jaw unit is excessive. 	<ul style="list-style-type: none"> ○ Adjust the position of the moving knife when the machine completes stop-motion. (10 to 11 mm) ○ Adjust the lifting amount of the button clamp jaw lever to 8 mm.

SECTION 2: PARTS

1. BUTTON CLAMP MECHANISM COMPONENTS

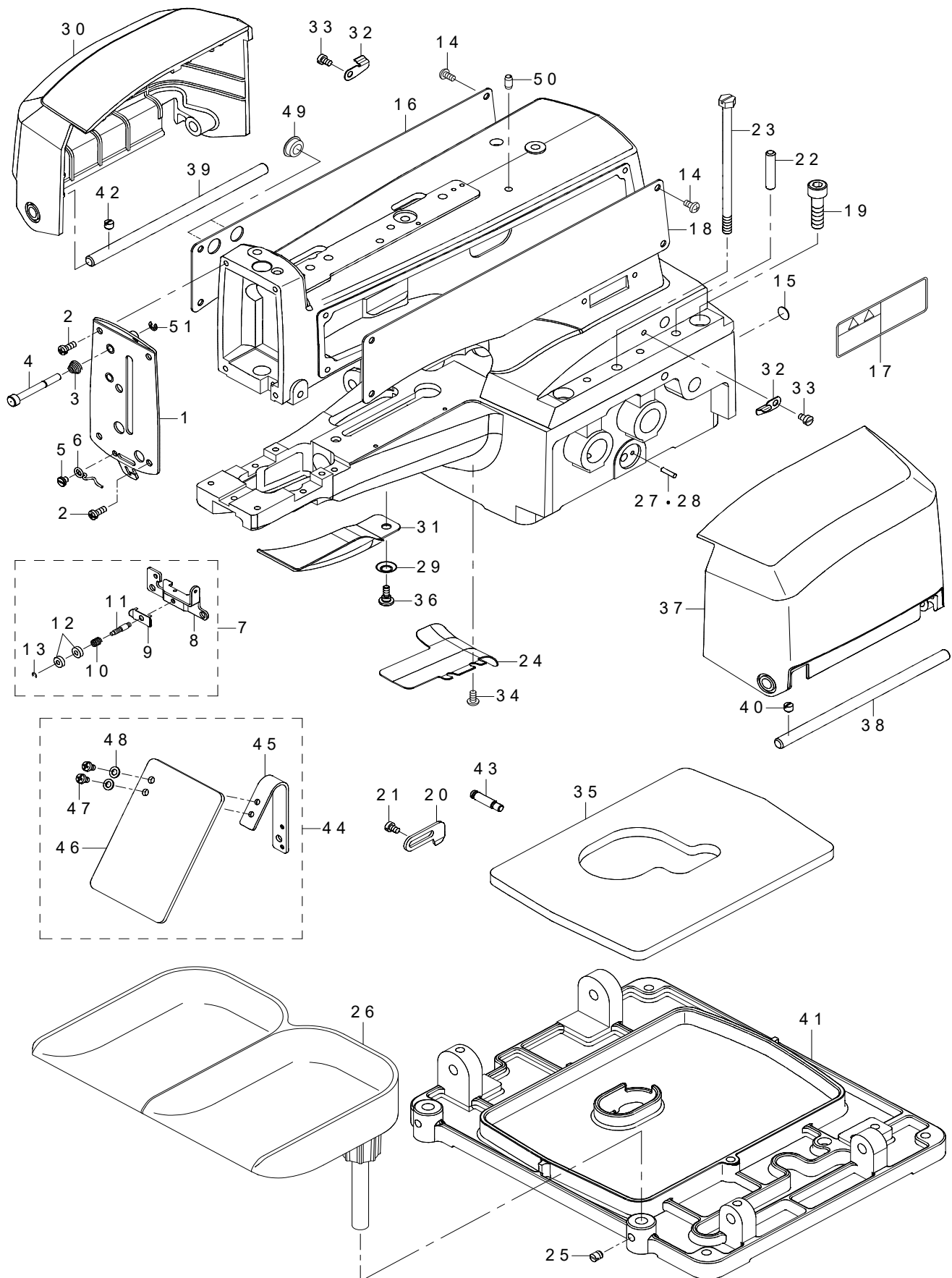
ボタンつまみ関係



REF.NO	NOTE	PART NO	DESCRIPTION	品名	Qty
1		260-26856	PICK-UP DEVICE ASM.	ツマミソウチ (ケツゴウ)	1
2		400-41058	BUTTON CLAMP LIFTING HOOK	ツマミソウチヒキアゲフック	(1)
3		SS-7150940-SP	SCREW 15/64-28 L=9	マルヒラネジ 15/64-28 L=9	(1)
4		SS-9621413-SP	SCREW 3/16-32 L=13.5	ロツカクボルト 3/16-32 L=13.5	(2)
5		WP-0501016-SD	WASHER 5X10.5X1	ヒラザガネ 5X10.5X1	(2)
6		260-25502	BUTTON CLAMP HOLDER	ツマミソウチトリツケダイ	(1)
7		SS-7090410-SP	SCREW 9/64-40 L=3.5	マルヒラネジ 9/64-40 L=3.5	(1)
8		SD-0550301-SP	HINGE SCREW D=5.5 H=3	ダンネジ D=5.5 H=3	(1)
9		260-25403	JAW LEVER HOLDER	ボタンツマミアシトリツケダイ	(1)
10		SD-0550181-SP	HINGE SCREW D=5.50 H=1.8	ダンネジ D=5.5 H=1.8	(1)
11		260-25809	CLAMP SCREW A	ヒラキレバートメネジ (A)	(1)
12		260-25700	SNAP FASTENER CLAMP STOP LEVER	ツマミアシヒラキレバー	(1)
13		260-26005	NUT	ボタンガイドアシトメネジ (B)	(1)
14		260-25908	BUTTON CLAMP SLIDE	ボタンガイドアシ	(1)
15		260-26609	BUTTON CLAMP STOP PIN	ツマミアシヒラキピン	(2)
16		260-26104	BUTTON CLAMP LEVER JAW (LEFT)	ショウボタンヨウボタンツマミアシ (ヒダリ)	(1)
17		260-26203	BUTTON HOLDING SPRING, LEFT	ショウボタンヨウボタンツマミイタバネ (ヒダリ)	(1)
18		SD-0640391-TP	HINGE SCREW D=6.35 H=3.9	ダンネジ D=6.35 H=3.9	(2)
19		SS-7090410-SP	SCREW 9/64-40 L=3.5	マルヒラネジ 9/64-40 L=3.5	(1)
20		260-26708	BUTTON CLAMP SPRING	ボタンツマミアシバネ	(1)
21		260-26302	BUTTON CLAMP LEVER JAW RIGHT	ショウボタンヨウボアンツマミアシ (ミギ)	(1)
22		260-26401	BUTTON HOLDING SPRING, RIGHT	ショウボタンヨウボタンツマミイタバネ (ミギ)	(1)
23		SS-7150940-SP	SCREW 15/64-28 L=9	マルヒラネジ 15/64-28 L=9	(1)
24		400-40938	BUTTON_CLAMP_PRESSURE_ADJUSTIN	オサエアツリョクチョウセツボウ	1
25		260-27102	PRESSURE ADJUSTING SPRING	オサエチョウセツバネ	1
26		NM-6060001-CP	NUT M6	ロツカクナット M6	2
27		260-27409	FINGER GUARD	ユビガード	1
28		400-41069	SPRING_HOLDING_PLATE	バネウケイタ	1
29		260-25205	HINGE PIN	ツマミソウチトリツケジク	1
30		B2541-372-000	SNAP RING	ツマミソウチ トリツケジク トメワ	1
31		NM-6060001-CP	NUT M6	ロツカクナット M6	1
32		400-40937	PICK_UP_DEVICE_STOPPER_PIN	ツマミソウチストップピン	1

2. ARM & MISCELLANEOUS COVERS COMPONENTS

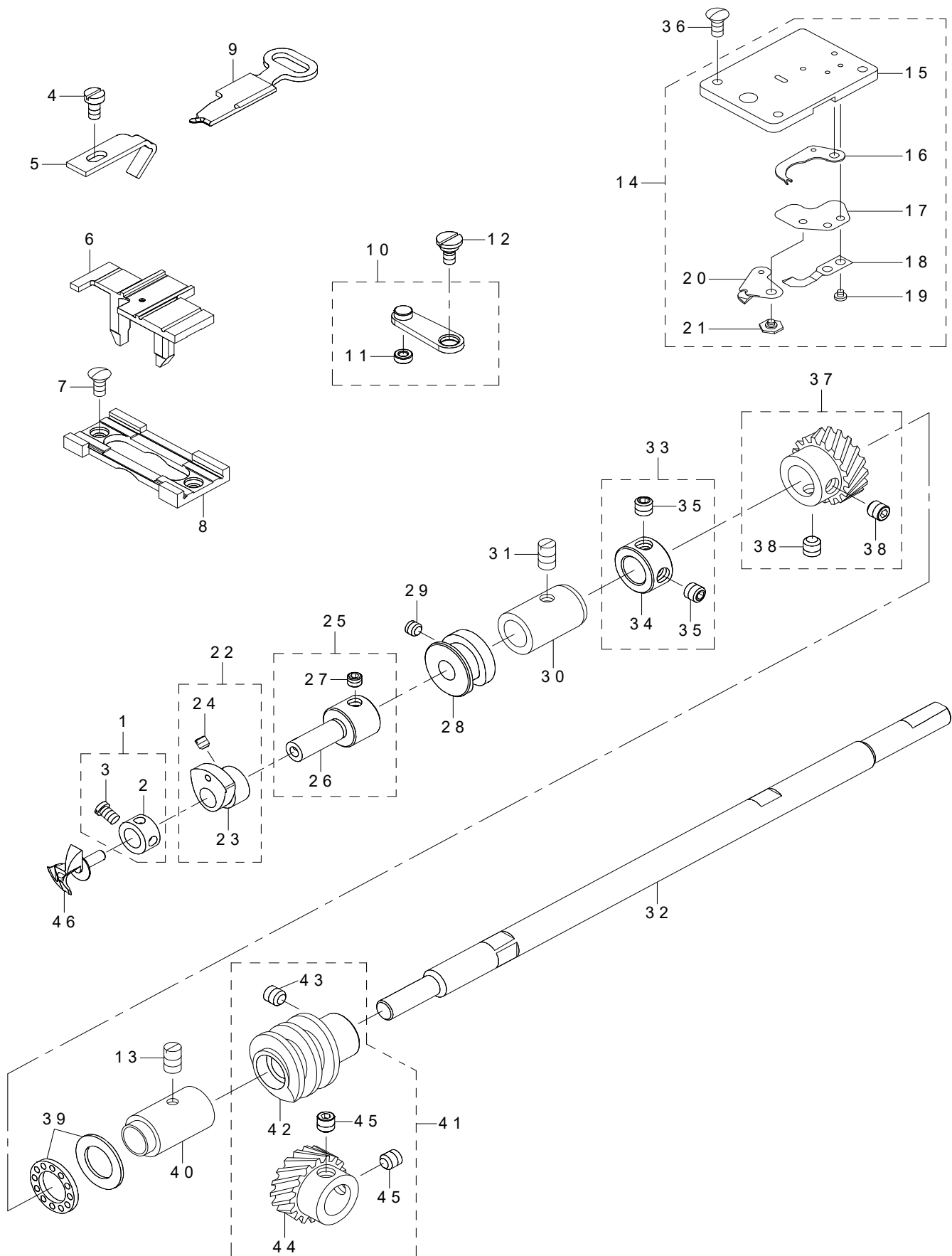
アームベット関係



REF.NO	NOTE	PART NO	DESCRIPTION	品名	Qty
1		400-38426	FACE_PLATE_COMPL.	メンイタケツゴウ	1
2		SM-4040855-SP	SCREW	ナベネジ	4
3		260-21600	TENSION SPRING	ニッパ-イトコルメピンバネ	1
4		260-32003	NIPPER RELEASING STUD	ニッパ-イトコルメボウ	1
5		SM-6040650-TP	SCREW	ヒラネジ M4 L=6	1
6		260-31203	THREAD GUIDE NO.4	ダイ4イトアンナイ	1
7		260-31351	THREAD TENSION NO.3 ASM.	ダイ3イトチョウシ (クミ)	1
8		260-31302	TENSION ADJUSTING BASE NO.3	ダイ3イトチョウシトリツケダイ	(1)
9		260-31401	THREAD PRESSER PLATE	ハリイトオサエタ	(1)
10		260-31500	TENSION SPRING B	ハリイトチョウシバネB	(1)
11		260-31609	THREAD TENSION STUD	ダイ3イトチョウシスタッド	(1)
12		260-31708	THREAD TENSION NUT	ダイ3イトチョウシツマミ	(2)
13		RE-0200000-K0	E-RING 2	Eガタトメワ2	(1)
14		SM-4040855-SP	SCREW	ナベネジ	8
15		TA-2050406-R0	RUBBER PLUG	トメセン	1
16		400-40931	SIDE_COVER_RIGHT	ミキソクメンカバーカンセイ	1
17		CM-3013000-01	SAFETY LABEL	トウブチュウイアンゼンシール (ヨコ)	1
18		400-40932	SIDE_COVER_LEFT	ヒダリソクメンカバーカンセイ	1
19		SM-6083042-CH	SCREW M8 L=30	ロツカクアナボルト M8 L=30	4
20		260-33704	STOPPER	イトムスビウデストップ-	1
21		SM-6050800-SP	SCREW M5 L=8	ヒラネジ M5 L=8	2
22		260-11205	GUIDE PIN	ア-ムベットケツゴウガイドピン	2
23		400-38483	SET_SCREW	ア-ムベットトリツケネジ	1
24		400-38431	BED_OIL_SHIELD	ベットユボ-バン	1
25		SM-8060610-TP	SCREW	トメネジ M6 L=6	1
26		400-41022	BUTTON_TRAY_ASM.	ボタンウケザラクミ	1
27	#01	260-22608	CAM INDICATING PIN A	オクリカムイチキメシシナ	2
28	#01	260-22707	CAM INDICATING PIN B	オクリカムイチキメシシナB	2
29		WS-0650389-KP	SPRING WASHER 6.5X14.0X17	バネザガネ 6.5 X 14 X 1.7	1
30		400-38425	SIDE_COVER_LEFT	サイドカバーヒダリ	1
31		400-38430	LOOPER_COVER	ルーバ-カバー	1
32		400-41067	SIDE_COVER_SPRING	ソクメンカバーバネ	2
33		SM-6040600-SP	SCREW M4 L=6	ヒラネジ M4 L=6	2
34		SM-4040855-SP	SCREW	ナベネジ	2
35		400-38173	OIL_DRIP_FELT	キュウユフェルト	1
36		SD-0600277-TP	SHOULDER SCREW D=6 H=2.7	ダンネジ D=6 H=2.7	1
37		400-38424	SIDE_COVER_RIGHT	サイドカバーミギ	1
38		400-40936	SIDE_COVER_HINGE_SHAFT_RIGHT	ソクメンカバージクミギ	2
39		400-40935	SIDE_COVER_HINGE_SHAFT_LEFT	ソクメンカバージクヒダリ	1
40		SM-8060612-TP	SCREW M6 L=6	トメネジ M6 L=6	1
41		400-38446	MACHINE_SUB_BASE	ベットトリツケダイ	1
42		SM-8060612-TP	SCREW M6 L=6	トメネジ M6 L=6	1
43		400-38471	SUSPENSION_SCREW_B	シタイトキリ サドウイタ リンクバネカケ	1
44		400-54729	ASSY SAFETY PLATE	メホゴカパークミ	1
45		400-54730	SAFETY PLATE INSTALLING BASE	メホゴカパートリツケダイ	(1)
46		260-37200	SAFETY PLATE	アンゼンプレート	(1)
47		SM-4040655-SP	SCREW M4 L=6	ナベコネジ M4 L=6	(2)
48		WP-0430800-SD	WASHER M4	ヒラザガネ コガタマル M4	(2)
49		TA-1250406-R0	RUBBER PLUG D=12.5 L=4	トメセン D=12.5 L=4	2
50		PS-0500102-KH	SPRING PIN 5.0X10	スプリングピン 5 X 10	1
51		RE-0320000-K0	E-RING 3.2	Eガタトメワ3.2	1
		NOTE(注記)	#01....SELECTIVE PARTS	選択部品	

3. LOOPER SHAFT MECHANISM COMPONENTS

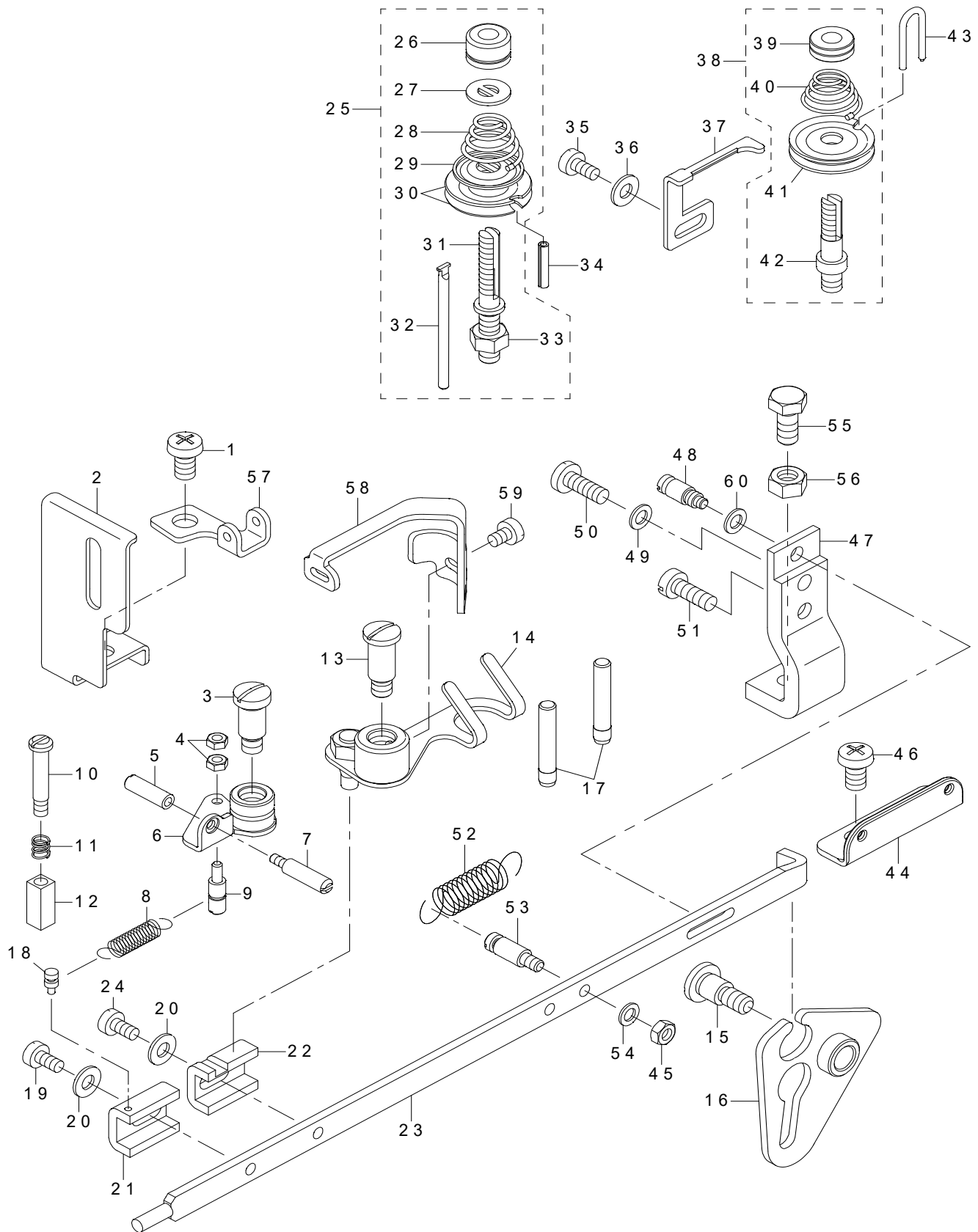
ルーパー軸関係



REF.NO	NOTE	PART NO	DESCRIPTION	品名	Qty
1		CS-079072A-TH	THRUST COLLAR ASM.	スラストウケ クミ	1
2		CS-0790721-TH	THRUST COLLAR D=7.94 W=7	スラストウケ D=7.94 W=7	(1)
3		SS-7090620-TP	SCREW 9/64-40 L=6.1	マルヒラネジ 9/64-40 L=6.1	(1)
4		SM-6040800-SP	SCREW	ヒラネジ	1
5		400-38484	NEEDLE GUARD	ハリガイド	1
6		260-13607	POSITIONING FINGER YOKE SLIDE	イトヨセササエ	1
7		SM-1040950-TP	SCREW M4 L=9	サラコネジ M4 L=9	2
8		260-13409	YOKE SLIDE INSERT	イトヨセササエダイ	1
9		260-13805	YOKE SLIDE	イトヨセ	1
10		400-38400	ASSY_LOOP_POSITIONING_FINGER_LEVER	イトヨセゼンゴウデクミ	1
11		400-38403	LOOP_POSITIONING_FINGER_CAM_ROLL	イトヨセカムコロ	(1)
12		SD-0640246-SP	HINGE SCREW D=6.35 H=2.4	ダンネジ D=6.35 H=2.4	1
13		SM-8061010-TP	SCREW	トメネジ M6 L=10	1
14		B1241-377-0B0	THROAT PLATE SET	ハリイタ (クミ)	1
15		B1241-377-0A0	THROAT PLATE ASM.	ハリイタ (ケツゴウ)	(1)
16		B2703-377-0A0	THREAD BIND PLATE ASM.	イトムスピイタ (ケツゴウ)	(1)
17		B2702-377-000	THREAD BIND SUPPORT PLATE	イトムスピササエイタ	(1)
18		B2410-373-000	COUNTER KNIFE	コテイメス	(1)
19		SS-7080310-SP	SCREW 1/8-44 L=3.0	マルヒラネジ 1/8-44 L=3	(2)
20		B2406-373-0A0	MOVING KNIFE ASM.	ドームス クミ	(1)
21		SD-0600095-TH	HINGE SCREW D=6 H=0.85	ダンネジ D=6 H=0.85	(1)
22		400-41106	ASSY_LOOP_POSITIONING_FINGER_CAM	イトヨセサンカクカムクミ	1
23		260-03103	LOOP POSITIONING FINGER CAM	イトヨセサンカクカム	(1)
24		SS-8110410-TP	SCREW 11/64-40 L=3.5	トメネジ 11/64-40 L=3.5	(2)
25		400-38482	ASSY_CAM_AND_LOOPER_SLEEVE	ルーバートリツケジクミ	1
26		260-15503	CAM AND LOOPER SLEEVE	ルーバートリツケジク	(1)
27		SS-8150410-TP	SCREW 15/64-28 L=4.0	トメネジ 15/64-28 L=4	(2)
28		260-15404	LOOP POSITIONING FINGER CAM	イトヨセカム	1
29		SS-8110310-SP	SCREW 11/64-40 L=2.8	トメネジ 11/64-40 L=2.8	2
30		260-15305	LOOPER SHAFT BUSHING FRONT	ルーバージクマエメタル	1
31		SM-8061010-TP	SCREW	トメネジ M6 L=10	1
32		400-38111	LOOPER_SHAFT	ルーバージク	1
33		400-98872	COLLER_ASSY	カラークミ	1
34		400-97991	COLLER	カラー	(1)
35		SS-8110422-TP	SCREW 11/64-40 L=4	トメネジ 11/64-40 L=4	(2)
36		SM-1040870-TP	SCREW	サラコネジ M4 L=8	3
37		B1224-372-0A0	LOOPER SHAFT DRIVEN GEAR ASM.	ネジハグルマ B クミ	1
38		SS-8660612-TP	SCREW 1/4-40 L=6	トメネジ 1/4-40 L=6	(2)
39		B1215-372-A00	THRUST BALL BEARING	ルーバジク スラスト ベアリング	1
40		260-13102	LOOPER SHAFT BUSHING REAR	ルーバージクウシロメタル	1
41		B1221-373-NA0	WORM WHEEL ASM.	ウォームハグルマ クミ	1
42		B1221-373-N00	WORM	ウォーム	(1)
43		SS-6660712-TP	SCREW 1/4-40 L=7.0	ヒラネジ 1/4-40 L=7	(2)
44		B1220-372-000	CAM SHAFT DRIVEN GEAR	ウォームハグルマ	(1)
45		SS-8660612-TP	SCREW 1/4-40 L=6	トメネジ 1/4-40 L=6	(2)
46		B1239-372-000	LOOPER	ルーバ	1

4. NIPPER & THREAD TENSION PARTS COMPONENTS

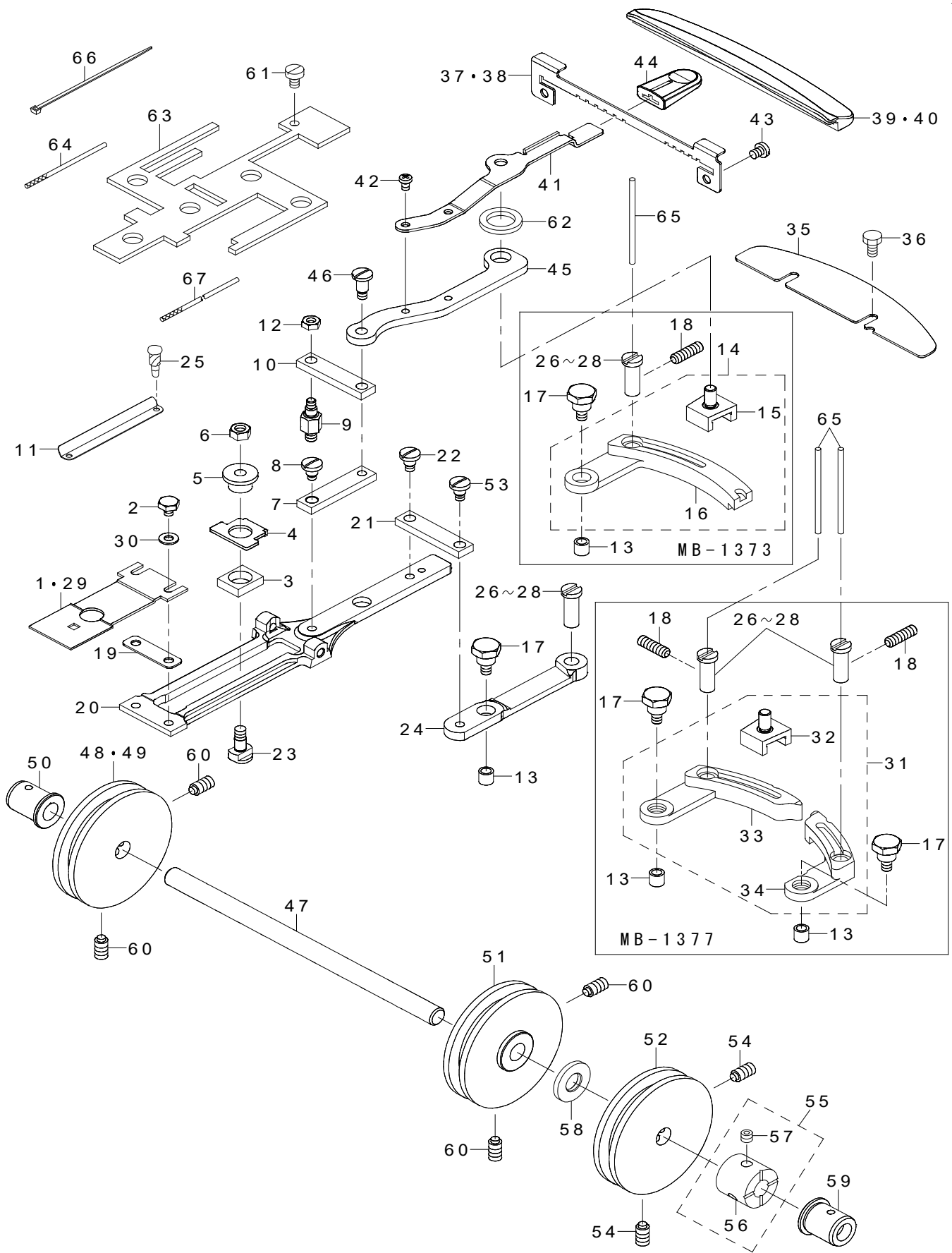
糸調子、ニッパー関係



REF.NO	NOTE	PART NO	DESCRIPTION	品名	Qty
1		SM-4061255-SP	SCREW M6 L=12	ナベネジ M6 L=12	1
2		400-38205	NEEDLE_BAR_GUARD	ハリボウカバー	1
3		SD-0791276-TP	SHOULDER SCREW	ダンネジ D=7.94 H=12.7	1
4		NM-6030001-SN	NUT	ロツカクナツト	2
5		260-20602	NUT	ニッパ-イトユルメピンナツト	1
6		260-00950	NIPPER COMPL.	ニッパ- (ケツゴウ)	1
7		260-20503	LOOPER SHAFT BUSHING REAR	ニッパ-イトユルメピン	1
8		400-41077	NIPPER_BAR_BLOCK_SPRING	ニッパ-ヒツパリバネ	1
9		400-38492	NIPPER_BAR_BLOCK_SPRING_SCREW	ニッパ-ヒツパリバネジク	1
10		SD-0402001-TP	HINGE SCREW D=4 H=20	ダンネジ D=4 H=20	1
11		260-20404	NIPPER SLIDE BLOCK SPRING	ニッパ-カクゴマバネ	1
12		260-20305	NIPPER BLOCK	ニッパ-カクゴマ	1
13		SD-0791506-TP	SHOULDER SCREW D=7.94 H=15	ダンネジ D=7.94 H=15	1
14		400-38476	THREAD_PULL_OFF_LEVER_ASM	イトチョウセツレバークミ	1
15		SD-0790806-TP	SHOULDER SCREW D=7.94 H=8	ダンネジ D=7.94 H=8	1
16		260-00455	NIPPER BAR ACTUATING LEVER ASM	サンカクイタ (ケツゴウ)	1
17		260-20206	THREAD GUIDE PIN	イトアンナイボウ	2
18		260-19406	NIPPER BAR BLOCK SPRING PIN	ニッパ-ヒツパリバネピン	1
19		SM-6040800-SP	SCREW	ヒラネジ	1
20		WP-0450801-SP	WASHER	ヒラザガネ	2
21		260-19307	NIPPER BAR BLOCK	ニッパ-ヨウドウコマ	1
22		260-19208	TENSION LEVER ROCKING PIECE	イトチョウシレバ-ヨウドウコマ	1
23		400-38479	NIPPER_BAR	イトチョウシチョウセツカン	1
24		SM-6040800-SP	SCREW	ヒラネジ	1
25		400-38208	TENSION_POST_ASM_NO.2	ダイニイトチョウシ_クミ	1
26		400-38214	TENSION_NUT	イトチョウシナツト	(1)
27		229-21407	ROTATION STOPPER	イトチヨウシザラカイトンドメ	(1)
28		260-19901	THREAD TENSION SPRING	ダイ2イトチョウシバネ	(1)
29		260-20107	THREAD TENSION DISK PRESSER	イトチョウシザラオサエ	(1)
30		260-05207	THREAD TENSION_DISK_NO.1	ダイ1イトチョウシザラ	(2)
31		400-38210	TENSION_POST_NO.2	ダイニイトチョウシボウ	(1)
32		260-19802	TENSION_RELEASE_PIN	チョウシサラウカシボウ	(1)
33		NM-6060001-CP	NUT M6	ロツカクナツト M6	(1)
34		PS-0300162-KH	SPRING PIN 3X16	スプリングピン 3X16	1
35		SM-6040800-SP	SCREW	ヒラネジ	1
36		WP-0450801-SP	WASHER	ヒラザガネ	1
37		260-19109	THREAD TENSION RELEASING LEVER	チョウシサラウカシイタ	1
38		400-38404	ASSY_THREAD_TENSION_NO.1	ダイイチイトチョウシクミ	1
39		400-38408	THREAD_TENSION_NUT	イトチョウシナツト	(1)
40		260-05306	FIRST THREAD TENSION SPRING	ダイ1イトチョウシバネ	(1)
41		260-05207	THREAD TENSION_DISK_NO.1	ダイ1イトチョウシザラ	(2)
42		400-38405	THREAD_TENSION_POST_NO.1	ダイイチイトチョウシボウ	(1)
43		260-19505	THREAD GUIDE	ダイ1イトチョウシサラアンナイボウ	1
44		260-21402	THREAD GUIDE NO.1	ダイ1イトアンナイ	1
45		NM-6040002-SN	NUT M4	ロツカクナツト M4X0.7 2シユ	1
46		SM-4061255-SP	SCREW M6 L=12	ナベネジ M6 L=12	1
47		400-38396	NIPPER_BAR_BEARING_BLOCK	イトチョウシチョウセツカンアンナイダイ	1
48		400-38206	ADJUSTING_SCREW	イトチョウシチョウセツカンアンナイジク	1
49		WP-0550800-SP	WASHER 5.5X10X0.8	ヒラザガネ 5.5X10X0.8	1
50		SM-7051460-TP	SCREW M5 L=14	マルヒラコネジ M5 L=14	1
51		SM-6051400-SP	SCREW	ヒラネジ	1
52		260-19000	THREAD TENSION SPRING	イトチョウシチョウセツカンヒツパリバネ	1
53		400-38207	NIPPER_BAR_SPRING_SCREW	イトチョウシチョウセツカンヒツパリバネカ	1
54		WP-0450846-SP	WASHER	ヒラザガネ	1
55		SM-9061403-CP	SCREW M6 L=14	ロツカクボルト	1
56		NM-6060001-SE	NUT M6	ロツカクナツト M6 1シユ	1
57		260-21105	THREAD GUIDE	イトチョウセツイトアンナイ	1
58		400-38320	LEVER	イトシメレバ-	1
59		SM-6040600-SP	SCREW M4 L=6	ヒラネジ M4 L=6	1
60		WP-0501016-SD	WASHER 5X10.5X1	ヒラザガネ 5X10.5X1	1

5. FEED PLATE COMPONENTS

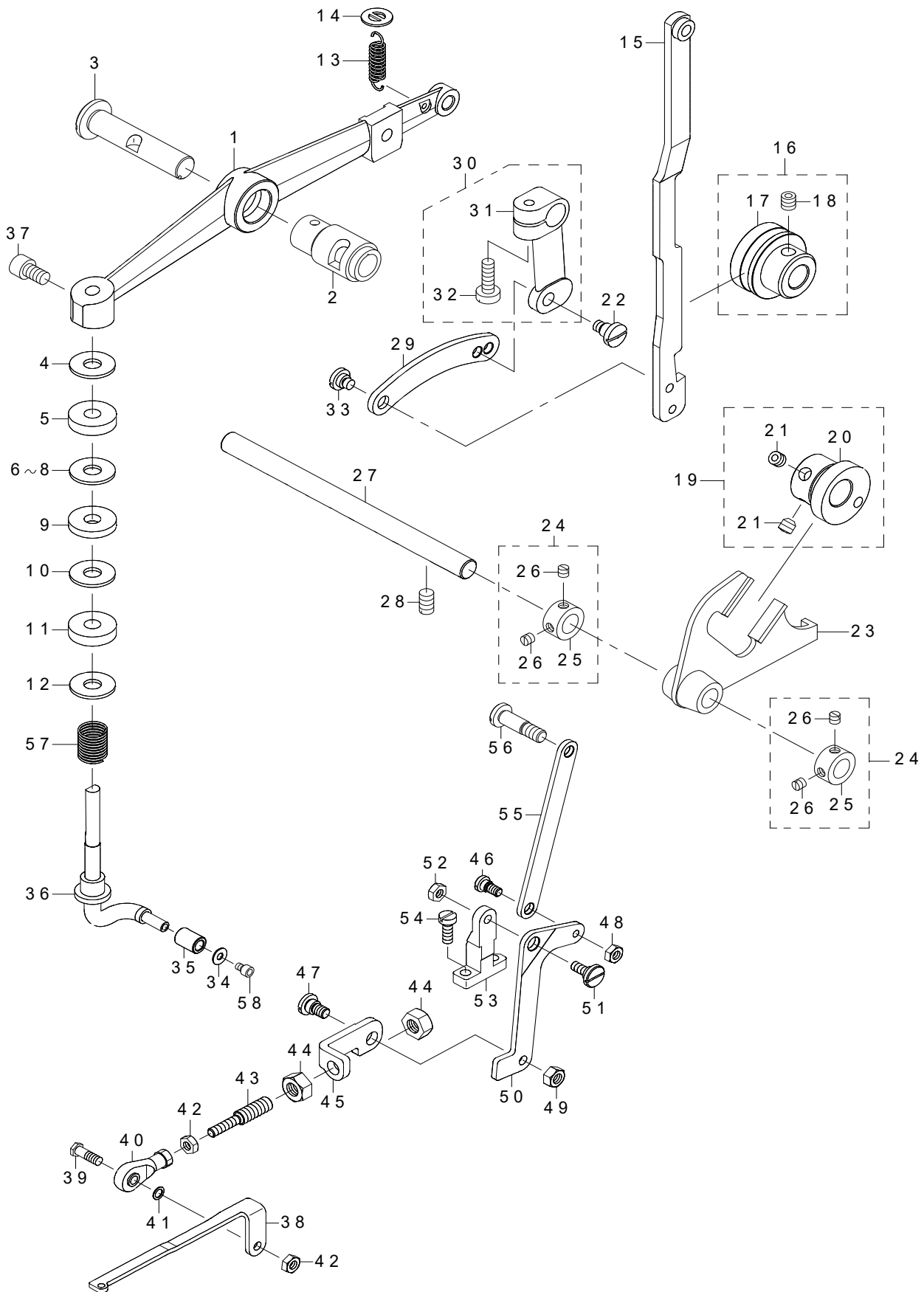
送り関係



REF.NO	NOTE	PART NO	DESCRIPTION	品名	Qty
1		B2529-373-000	FEED PLATE, SMALL BUTTON	ヌノオサエ シタイタ (シヨ-ボタン)	1
2		SS-9120643-TP	SCREW 3/16-28 L=6	ロツカクボルト 3/16-28 L=6	2
3		260-24604	LNDICATOR PIN BEARING BLOCK	ヨコオクリシシジクコマ	1
4		260-24901	CROSSWISE FEED INDICATOR	ヨコオクリシシジク	1
5		260-24703	CROSSWISE FEED INDICATOR PIN	ヨコオクリシシジク	1
6		NM-6060001-CP	NUT M6	ロツカクナット M6	1
7		400-38498	SLIDE_PLATE_CONNECTING_LINK	オクリレンケツリンク	1
8		SD-0640481-SP	HINGE SCREW D= 6.35 H= 4.8	ダンネジ D=6.35 H=4.8	1
9		400-38499	STUD	スタッド	1
10		260-24208	INTERMEDI CONNECTING LINK	オクリリンク	1
11		400-41052	CROSSWISE_FEED_GRADVATED_PLATE	ヨコオクリメモリアタ	1
12		NM-6050001-SP	NUT M5	ロツカクナット M5X0.8 1シユ	1
13		260-23200	CAM ROLL	オクリカムコロ	2
14		400-41030	LENGTHWISE_FEED_LEVER_ARM_1373	タテオクリレバークミ1373	1
15		400-38439	LENGTHWISE_FEED_LEVER_SLIDE	タテオクリリョウチョウセツコマ	(1)
16		400-41029	FEED_LEVER_1373	タテオクリレバ-1373	(1)
17		400-38496	CAM_ROLL_SCREW_STUD	オクリカムコロジク	2
18		SM-8061212-TP	SCREW M6X12	トメネジ M6 L=12	1
19		260-25106	SPACER PLATE	ヌノオサエシタイタスペ-サ	1
20		400-38463	FEED_PLATE	オクリタイ	1
21		260-24208	INTERMEDI CONNECTING LINK	オクリリンク	1
22		SD-0640481-SP	HINGE SCREW D= 6.35 H= 4.8	ダンネジ D=6.35 H=4.8	1
23		400-98330	HINGE_SCREW_FOW_CROSSWISE_FEED	ヒンジネジ	1
24		400-38453	CROSSWISE_FEED_LEVER	ヨコオクリレバ-	1
25		B1161-227-000	RIVET	トメビヨ- (ギンイロ)	2
26	#03	400-41055	FEED_STUD_A	オクリジクA	1
27	#03	400-41056	FEED_STUD_B	オクリジクB	1
28	#03	400-41057	FEED_STUD_C	オクリジクC	1
29		D2529-373-B00-A	FEED PLATE ,SMALLBUTTON	ヌノオサエシタイタ (チュウボタン)	1
30		WP-0501016-SD	WASHER 5X10.5X1	ヒラザガネ 5X10.5X1	2
31	#01	400-38469	LENGTHWISE_FEED_LEVER_ARM	タテオクリレバ-ケツコウスケンサヨウ	1
32		400-38439	LENGTHWISE_FEED_LEVER_SLIDE	タテオクリリョウチョウセツコマ	(1)
33		400-38432	FEED_LEVER_L	タテオクリレバ-	(1)
34		400-38433	FEED_LEVER_R	ヨコオクリレバ-	(1)
35		400-41061	FEED_KNOB_GUIDE_PLATE	オクリリョウセツツマミガイドイタ	2
36		SM-9050813-SE	SCREW M5X0.8 L=8	ロツカクボルト M5X0.8 L=8	1
37	#02	400-42279	PLATE_BASE_(MB-1373)	タテオクリメモリアタトリツケダイ B	1
38	#01	400-38436	PLATE_BASE_(MB-1377)	タテオクリメモリアタトリツケダイ	1
39	#02	400-38313	GRADUATE_PLATE(MB-1373)	メモリアタ (MB-1373)	1
40	#01	400-38314	GRADUATE_PLATE(MB-1377)	メモリアタ (MB-1377)	1
41		400-42281	HANDLE_AND_INDICATOR_SPRING	オクリリョウセツレバ-	1
42		SM-4040655-SP	SCREW M4 L=6	ナベコネジ M4 L=6	2
43		SM-4050855-SP	SCREW	ナベネジ M5 L=8	2
44		400-38442	KNOB	タテオクリキリカエツマミ	1
45		400-40965	INDICATOR_SPRING_CONNECTING_LINK	タテオクリリョウセツレバ-ダイ	1
46		SD-0640976-TP	SHOULDER SCREW D=6.35 H=9.7	ダンネジ D=6.35 H=9.7	2
47		400-38444	CAM_SHAFT	カムジク	1
48		400-41032	LENGTHWISE_FEED_CAM(X)	ゼンゴオクリカム (X)	1
49	#02	B2506-373-000-A	LONGITUDINAL FEED CAM	ゼンゴオクリカム	1
50		260-22509	CAM SHAFT BUSHING.LEFT	カムジクメタル (ヒダリ)	1
51		400-41033	LATERAL_FEED_CAM	サユウオクリカム	1
52	#01	400-41025	LONGITUDINAL_FEED_CAM_A	ゼンゴオクリカムA	1
53		SD-0640486-TP	SHOULDER SCREW D=6.35 H=4.8	ダンネジ D=6.35 H=4.8	1
54	#01	SS-8681412-TP	SCREW 9/32-28 L=13.5	トメネジ 9/32-28 L=13.5	2
55	#02	400-40964	THRUST_COLLAR_ASSY	スラストウケクミ	1
56		400-40961	THRUST_COLLAR	スラストウケ	(1)
57		SM-8060552-TP	SCREW M6 L=5	トメネジ	(2)
58	#01	400-42081	SPACER	スペ-サ	1
59		260-22400	CAM SHAFT BUSHING.RIGHT	カムジクメタル (ミギ)	1
60		SS-8681412-TP	SCREW 9/32-28 L=13.5	トメネジ 9/32-28 L=13.5	4
61		SM-6050800-SP	SCREW M5 L=8	ヒラネジ M5 L=8	1
62		400-41045	OIL_RETAINING_FELT	アブラドメフェルト	1
63		400-41044	FEED_SHOULDER_SCREW_FELT	オクリダンネジフェルト	1
64		CQ-2520000-00	OIL WICK	ユシン	0.06
65		CQ-3000000-F0	OIL FELT	ロツド フェルト	0.06
66		EA-9500B01-00	CABLE BAND	ソクセンバンド	4
67		CQ-2520000-00	OIL WICK	ユシン	0.3
		NOTE(注記)	#01....FOR MB-1377 #02....FOR MB-1373 #03....SELECTIVE PARTS	MB-1377用 MB-1373用 選択部品	

6. BUTTON CLAMP LIFTER COMPONENTS

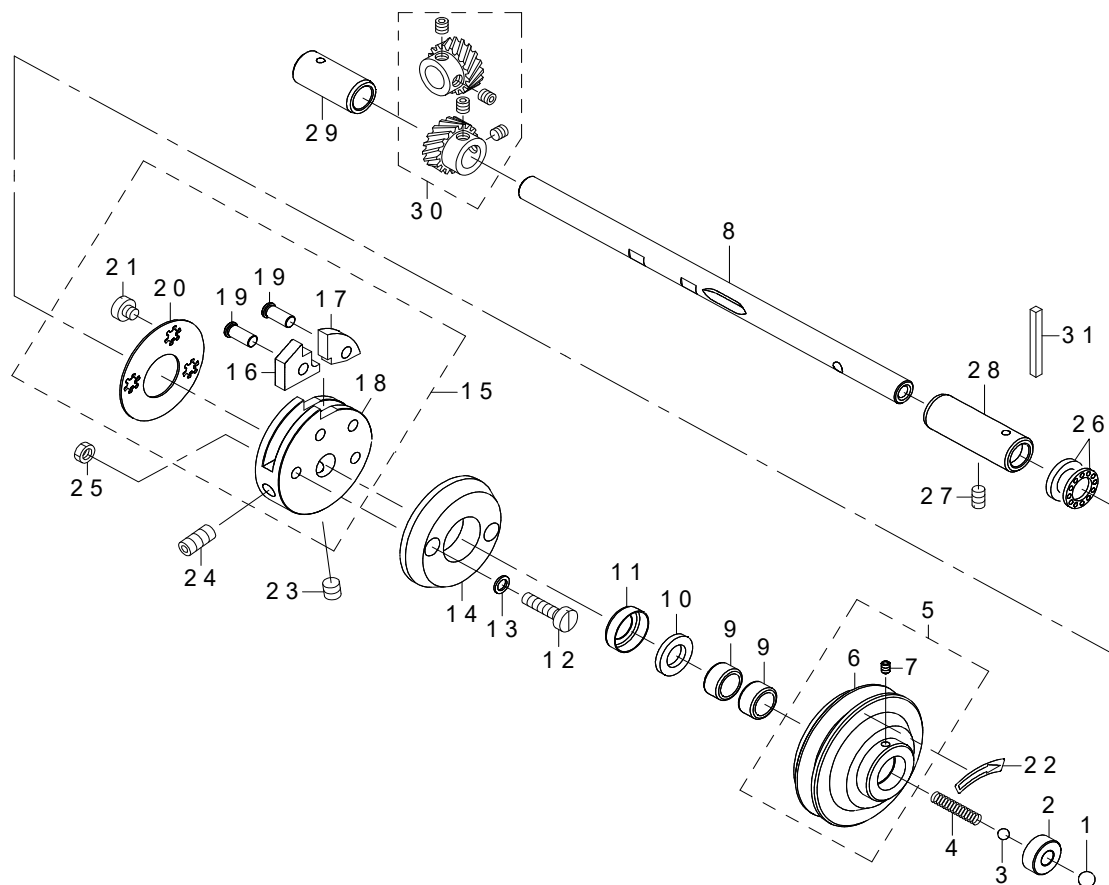
引き上げ関係



REF.NO	NOTE	PART NO	DESCRIPTION	品名	Qty
1		400-38119	LIFTING_LEVER	ヒキアゲレバー	1
2		260-18101	BUSHING	ハリボウヨウドウカンシテンジクメタル	1
3		400-38116	NEEDLE_BAR_LEVER	ハリボウヨウドウカンシテンジク	1
4		WP-0851216-SC	WASHER 8.5X18.0X1.2	ヒラザガネ 8.5X18X1.2	1
5		B4420-373-000	CUSHION	シャダン クッション	1
6	#01	WP-0851216-SC	WASHER 8.5X18.0X1.2	ヒラザガネ 8.5X18X1.2	1
7	#01	WP-0751576-SD	WASHER 7.5X19X1.5	ヒラザガネ 7.5X19X1.5	1
8	#01	105-10808	WASHER	クラッチベアリングガイリンワツシャ	1
9		WP-0751576-SD	WASHER 7.5X19X1.5	ヒラザガネ 7.5X19X1.5	1
10		WP-0751576-SD	WASHER 7.5X19X1.5	ヒラザガネ 7.5X19X1.5	1
11		B4420-373-000	CUSHION	シャダン クッション	1
12		WP-0703516-SP	WASHER 7X20X3.5	ヒラザガネ 7X20X3.5	1
13		260-33407	SPRING	ヒキアゲレバーヒツバリバネ	1
14		260-33308	WASHER	ヒキアゲレバーヒツバリバネザガネ	1
15		B4411-373-000	BUTTON CLAMP LIFTING LINK	ヒキアゲイタ	1
16		400-40962	ASSY_SLIDING_ROLLER	ヒキアゲスライドアンナイクミ	1
17		400-40953	SLIDING_ROLLER	ヒキアゲイタスライドアンナイ	(1)
18		SM-8060612-TP	SCREW M6 L=6	トメネジ M6 L=6	(1)
19		400-38321	ECCENTRIC_CAM	ヒキアゲヘンシンカムクミ	1
20		400-38398	ECCENTRIC_CAM	ヒキアゲヘンシンカム	(1)
21		SM-8060612-TP	SCREW M6 L=6	トメネジ M6 L=6	(2)
22		SD-0640481-SP	HINGE SCREW D=6.35 H=4.8	ダンネジ D=6.35 H=4.8	1
23		401-20628	BUTTON_CLAMP_LIFTING_LINK	ヒキアゲフタマタロッド	1
24		CS-0950810-SH	THRUST COLLAR ASM. D=9.5 W=8	スラストウケ D=9.5 W=8 クミ	2
25		CS-0950816-SH	THRUST COLLAR D=9.5 W=8	スラストウケ D=9.5 W=8	(1)
26		SS-8110410-TP	SCREW 11/64-40 L=3.5	トメネジ 11/64-40 L=3.5	(2)
27		400-38445	LEVER_SHAFT	レバーシフト	1
28		SM-8061010-TP	SCREW	トメネジ M6 L=10	2
29		260-32508	LIFTING_LINK	ヒキアゲイタリンク	1
30		400-38414	LIFTING_PLATE_GUIDE_ROD_ASM	ヒキアゲイタアンナイロッドクミ	1
31		400-38413	LIFTING_PLATE_GUIDE_ROD	ヒキアゲイタアンナイロッド	(1)
32		SM-6051600-SP	SCREW M5 L=16	ヒラネジ M5 L=16	(1)
33		SD-0640211-SP	HINGE SCREW D=6.35 H=2.1	ダンネジ D=6.35 H=2.1	1
34		WP-0330501-SB	WASHER M3	ヒラザガネ ミガキマル M3	1
35		400-38283	L_TYPE_LIFTING_BAR_ROLLER	Lガタヒキアゲボウコ	1
36		400-38502	BUTTON_CLAMP_LIFTING_ROD_A	エルガタヒキアゲボウ	1
37		SM-6061002-TP	SCREW M6 L=10	ロツカクアナボルト M6 L=10	1
38		400-38428	CONNECTING_LINK_FRONT	イトキリレンケツイタマエ	1
39		260-22202	JOINT STUD	イトキリレンケツジョイント	1
40		B1632-180-000	FEED ADJUSTING JOINT	オクリチヨーセツ ジョイント	1
41		WP-0510516-SD	WASHER 5.1X7.5X0.5	ヒラザガネ 5.1X7.5X0.5	1
42		NM-6050001-SP	NUT M5	ロツカクナツト M5X0.8 1シュ	2
43		400-38219	CONNECTING_SCREW	イトキリレンケツネジ	1
44		NM-6080021-SP	NUT M8 TYPE1	コガタロツカクナツト M8 1シュ	2
45		400-38429	CONNECTING_LINK_REAR	イトキリレンケツイタウシロ	1
46		SD-0640323-TP	HINGE SCREW D=6.35 H=3.2	ダンネジ D=6.35 H=3.2	1
47		SD-0790402-TP	HINGE SCREW D=7.94 H=4	ダンネジ D=7.94 H=4	1
48		NS-6620310-SP	NUT 3/16-32	ロツカクナツト 3/16-32	1
49		NS-6150310-SP	NUT 15/64-28	ロツカクナツト 15/64-28	1
50		400-38397	THREAD_TRIMMING_LEVER	イトキリレバー	1
51		SD-0790316-TP	SHOULDER SCREW D=7.94 H=3.1	ダンネジ D=7.94 H=3.1	1
52		NM-6050001-SP	NUT M5	ロツカクナツト M5X0.8 1シュ	1
53		400-38495	THREAD_TRIM_LEVER_BASE	イトキリレバーダイ	1
54		SM-7051460-TP	SCREW M5 L=14	マルヒラコネジ M5 L=14	2
55		260-21709	THREAD TRIMMING LINK	イトキリリンク	1
56		SD-0641322-TP	HINGE SCREW D=6.35 H=13.2	ダンネジ D=6.35 H=13.2	1
57		260-33605	SPRING	シャダンクッションバネ	1
58		SM-6030402-TP	SCREW M3X0.5 L=4	ロツカクアナボルト	1
		NOTE(注記)	#01....SELECTIVE PARTS (USE OF ONE PARTS)	選択部品 (いづれか一個使用)	

7. NEEDLE DRIVING PULLEY SHAFT COMPONENTS

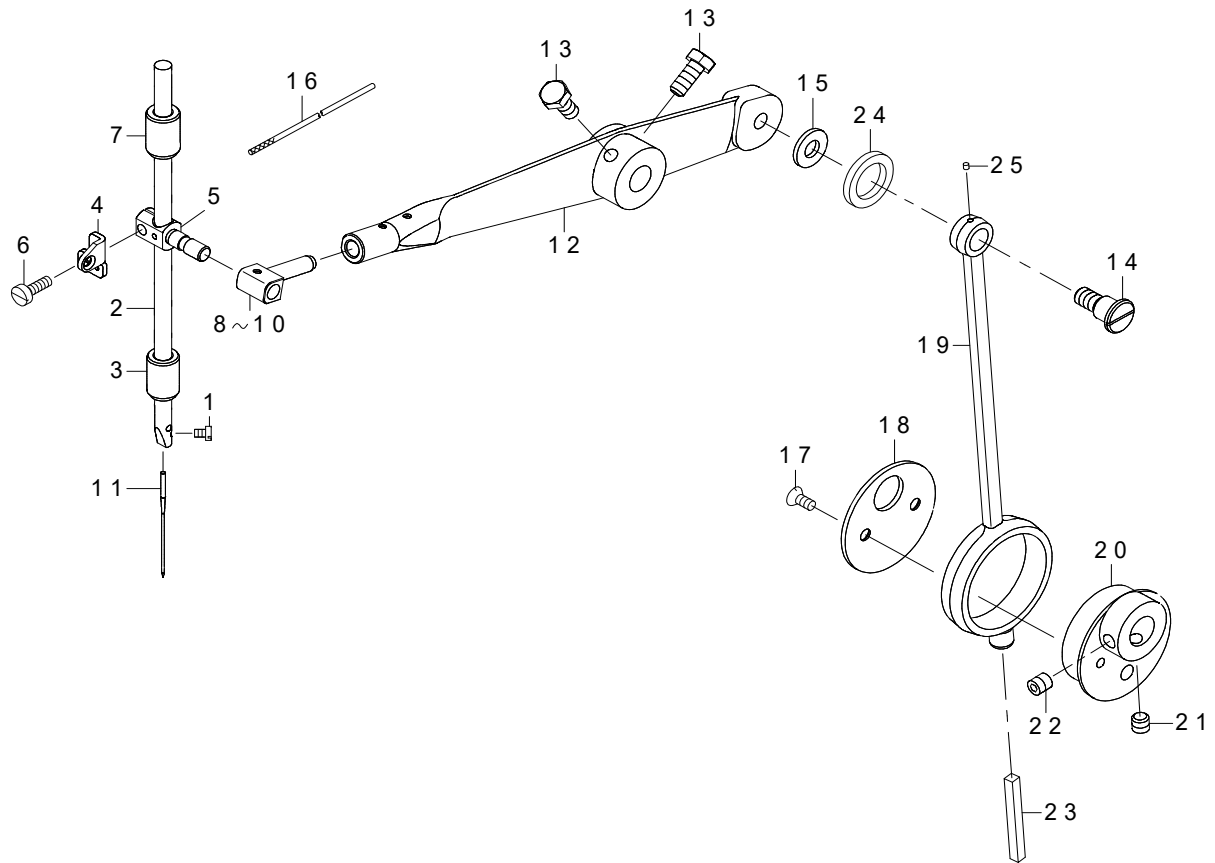
駆動軸関係



REF.NO	NOTE	PART NO	DESCRIPTION	品名	Qty
1		B1203-372-000	BALL LARGE	キドー ボール	1
2		260-12401	PULLEY INSERT	キドウボールウケダイ	1
3		400-38203	BALL_SMALL	シュジクバネボール	1
4		260-12500	SPRING	シュジクバネ	1
5		400-38169	DRIVING_PULLEY_ASM.	クドウプーリクミ	1
6		400-38175	DRIVING_PULLEY	クドウプーリ	(1)
7		SM-8040612-TP	SCREW M4 L=6	トメネジ M4 L=6	(1)
8		400-38449	NEEDLE_DRIVING_PULLEY_SHAFT	クドウジク	1
9		B1243-372-000	NEEDLE BEARING	ニードルベアリング	2
10		260-12609	GREASE RTETAINING WICK	シュジクアブラドメフェルトケース	1
11		260-12708	RETAINING WASHER	シュジクアブラドメフェルトケース	1
12		SM-6062450-TP	SCREW M6 L=23.5	ヒラコネジ M6 L=23.5	2
13		WP-0621026-SP	WASHER 6.2X9.5X1	ヒラザガネ 6.2X9.5X1	2
14		B1208-372-000	NEEDLE DRIVING PULLEY CLUTCH D	クドー クツシヨン	1
15		400-38137	STOP_MOTION_DISC_ASM.	シャダンカム_クミ	1
16		400-38135	STOP_MOTION_DISC_LATCH_A	シャダンツメ_A	(1)
17		400-38136	STOP_MOTION_DISC_LATCH_B	シャダンツメ_B	(1)
18		400-38138	STOP_MOTION_DISC	シャダンカム	(1)
19		400-38139	STOP_MOTION_PAWL_SHAFT	シャダンヨウツメジク	(2)
20		400-38140	STOP_MOTION_DISC_WASHER	シャダンカムザガネ	(1)
21		SM-6060550-TP	SCREW M6 L=4.5	ヒラコネジ M6 L=4.5	(1)
22		CM-5002000-01	DIRECTION LABEL.	カイテンホウコウラベル	1
23		SM-8080812-TP	SCREW M8X8	トメネジ M8 L=8	1
24		SM-8081752-TP	SCREW M8 L=17	トメネジ M8 L=17	1
25		NM-6060003-SP	NUT M6 TYPE3	ロックナット M6 3シュ	2
26		B1215-372-B00	THRUST BALL BEARING	クドージク スラスト ベアリング	1
27		SM-8061010-TP	SCREW	トメネジ M6 L=10	1
28		400-38461	PULLEY_SHAFT_BUSHING_RIGHT	クドウジクメタルミギ	1
29		400-42148	PULLEY_SHAFT_BUSHING_LEFT	クドウジクメタルヒダリ	1
30		B1217-372-0BA	DRIVING GEAR (A) ASM.	ネジハグルマA (クミ)	1
31		260-18309	OIL WICK	クランクロッドユシン	1

8. NEEDLE BAR DRIVING MECHANISM COMPONENTS

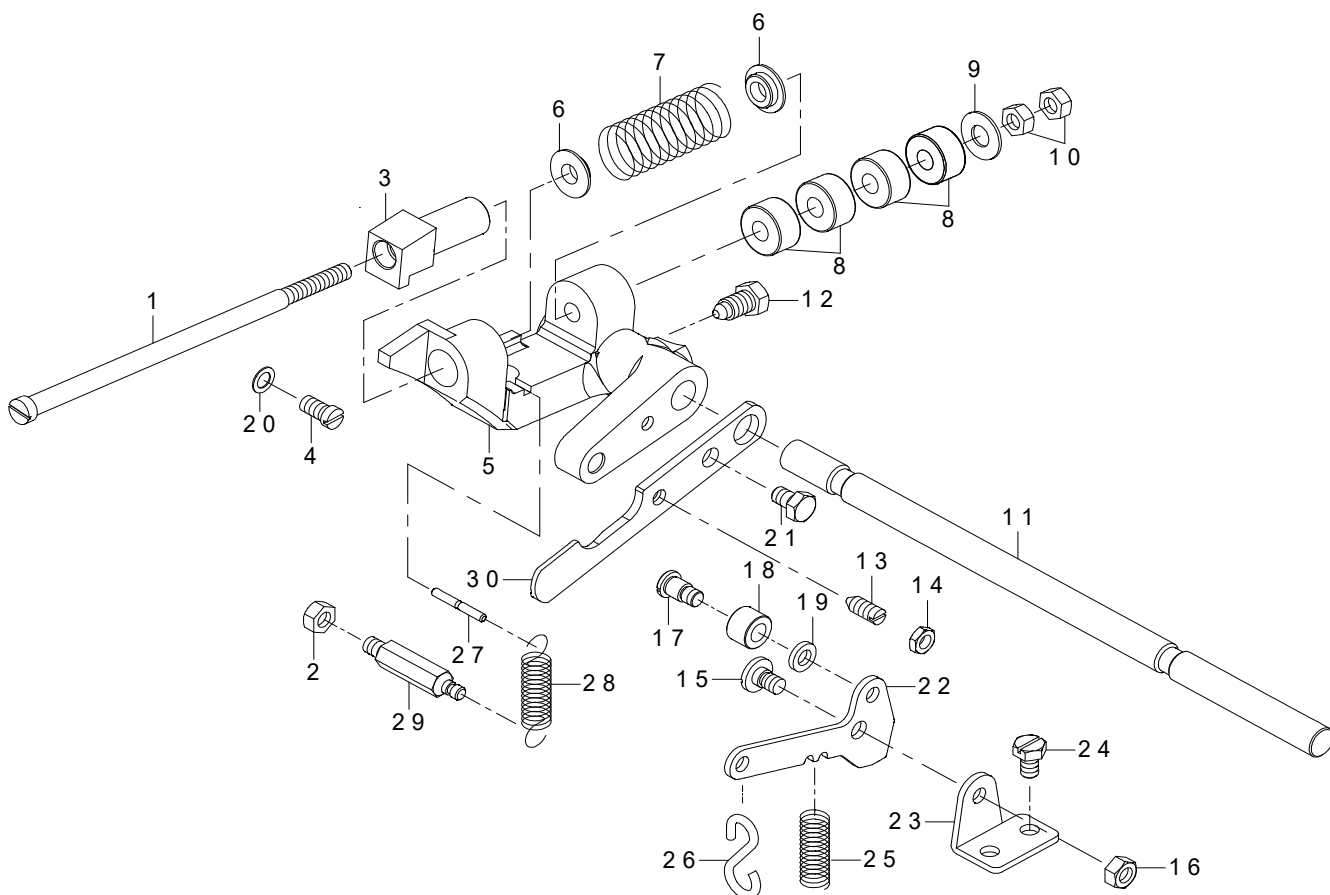
針棒関係



REF.NO	NOTE	PART NO	DESCRIPTION	品名	Qty
1		SS-7080510-TP	SCREW 1/8-44 L=4.5	マルヒラネジ 1/8-44 L=4.5	1
2		146-06107	NEEDLE ROD	ハリボウ	1
3		260-17707	NEEDLE BAR BUSHING LOWER	ハリボウシタメタル	1
4		400-40951	NEEDLE_BAR_BALANCE	ハリボウテンピン	1
5		400-40952	NEEDLE_BAR_CLAMP	ハリボウダキ	1
6		SM-6041200-SP	SCREW M4 L=12	ヒラネジ M4 L=12	1
7		400-38142	NEEDLE_BAR_BUSHING_UPPER	ハリボウウエメタル	1
8	#01	400-38120	NEEDLE_BAR_SLIDE_BLOCK_A	ハリボウダキスライドコマ_A	1
9	#01	400-38121	NEEDLE_BAR_SLIDE_BLOCK_B	ハリボウダキスライドコマ_B	1
10	#01	400-38122	NEEDLE_BAR_SLIDE_BLOCK_C	ハリボウダキスライドコマ_C	1
11		MTQ-100B1600	NEEDLE TQX1 #16	ハリ TQX1 #16	1
12		400-38117	NEEDLE_BAR_DRIVING_LEVER	ハリボウヨウドウカン	1
13		SM-9061403-CP	SCREW M6 L=14	ロックボルト	2
14		SD-0950804-TP	SHOULDER SCREW D=9.53 H=8	ダンネジ D=9.53 H=8	1
15		260-18705	WASHER	クランクロッドザガネ	1
16		CQ-2020000-00	OIL WICK	ユシン	0.1
17		SS-2110920-TP	SCREW 11/64-40 L=8.5	マルサラネジ 11/64-40 L=8.5	2
18		260-18606	THRUST HOLDER	ハリボウヘンシンカムスラストウケ	1
19		260-18408	CRANK ROD	クランクロッド	1
20		260-18507	ECCENTRIC CAM	ハリボウヘンシンカム	1
21		SS-8660612-TP	SCREW 1/4-40 L=6	トメネジ 1/4-40 L=6	1
22		SS-8660942-TP	SCREW 1/4-40 L=8.5	トメネジ 1/4-40 L=8.5	1
23		260-18309	OIL WICK	クランクロッドユシン	1
24		400-41045	OIL_RETAINING_FELT	アブラドメフェルト	1
25		CQ-2500000-F0	OIL WICK	ユシン	0.01
		NOTE(注記)	#01....SELECTIVE PARTS	選択部品	

9. STOP MOTION MECHANISM COMPONENTS

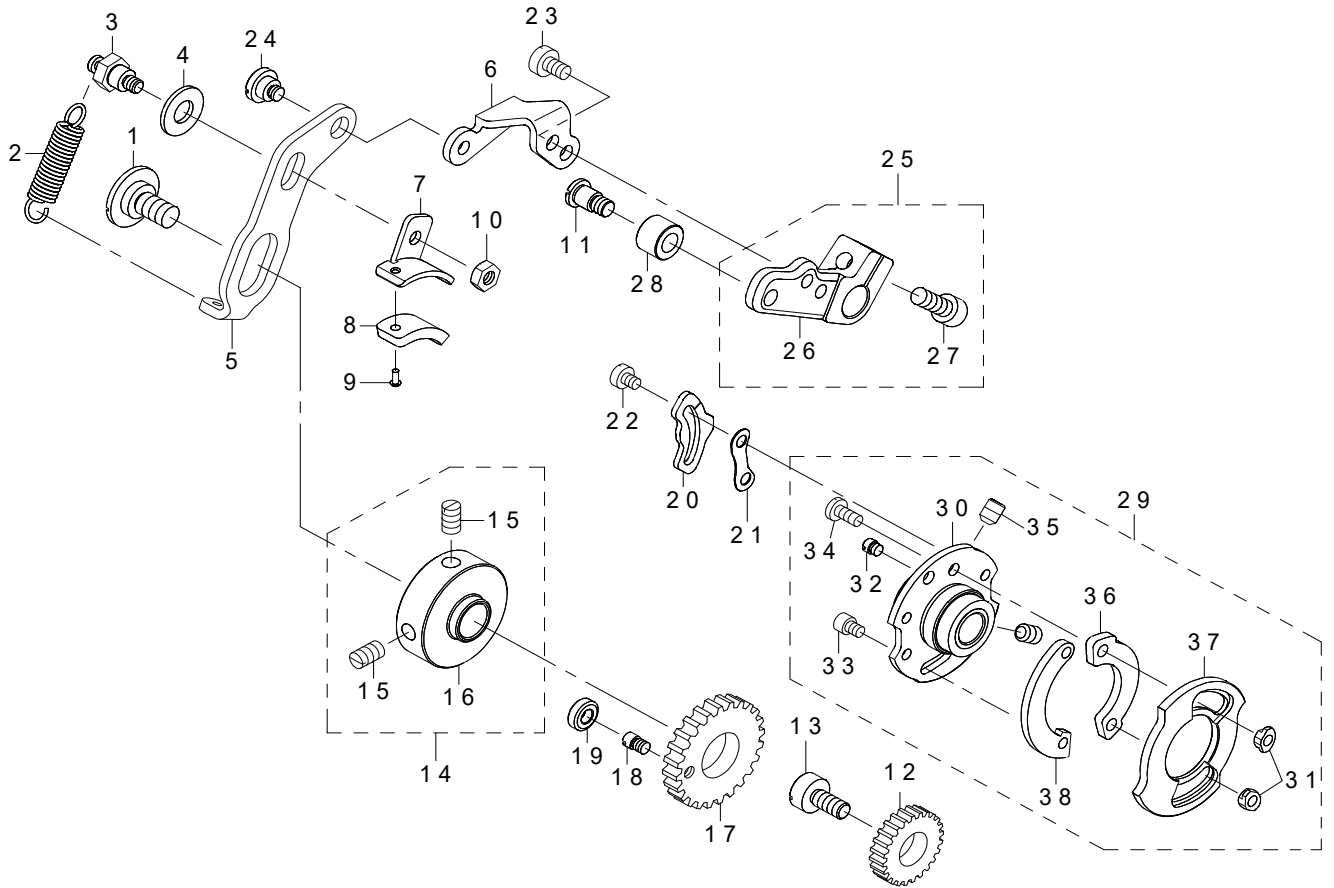
遮断装置関係



REF.NO	NOTE	PART NO	DESCRIPTION	品名	Qty
1		260-27805	STOP MOTION PLUNGER ROD	シャダンヨウアッシュクジク	1
2		NM-6060003-SP	NUT M6 TYPE3	ロックナット M6 3シユ	1
3		400-38118	CROSSING_HOOK	シャダンヨウフック	1
4		SM-6061150-TP	SCREW M6 L=11	ピラコネジ M6 L=11	1
5		400-38270	STOP MOTION_PLUNGER_LEVER	シャダンフレーム	1
6		262-29104	WASHER	シャダンヨウバネザガネ	2
7		400-38110	STOP MOTION_SPRING	シャダンバネ	30
8		B2608-280-000	RUBBER CUSHION	クドー ゴムクッション	4
9		260-30601	WASHER	シャダンヨウゴムクッションザガネ	1
10		NS-6680410-SP	NUT 9/32-28	ロッカクナット 9/32-28	2
11		400-38448	STOP MOTION_SHAFT	シャダンジク	1
12		400-42437	SCREW	シャダンソウチトリツケネジ	1
13		SS-8151570-SP	SCREW 15/64-28 L=15.0	トメネジ 15/64-28 L=15	1
14		NS-6150310-SP	NUT 15/64-28	ロッカクナット 15/64-28	1
15		SD-0680276-TP	SHOULDER SCREW D=6.8 H=2.7	ダンネジ D=6.8 H=2.7	1
16		NM-6060001-CP	NUT M6	ロッカクナット M6	1
17		SD-0800706-TP	SHOULDER SCREW D=8 H=7	段ねじ D=8 H=7	1
18		400-87058	STITCH_ADJUSTING_ROLLER	ころ	1
19		WP-0612066-SP	WASHER 6.1X11X2	ピラザガネ 6.1X11X2	1
20		260-19604	WASHER	イトチョウセツレバーダンネジザガネ	1
21		SM-9061003-CP	SCREW M6 L=10	ロッカクボルト	1
22		400-38160	STOP MOTION_TRIP_LEVER	キドウリンク	1
23		260-28308	STOP MOTION TRIP LEVER BRACKET	キドウリンクトリツケダイ	1
24		SM-9061250-TP	SCREW M6 L=12	ロッカクボルト M6 L=12	2
25		229-24906	OIL REGULATOR SCREW SPRING	ユリヨウチヨウセツネジバネ	1
26		131-60304	S SHAPED HOOK	Sガタカチク	1
27		260-28001	STOP MOTION LEVER SPRING PIN	シャダンソウチヒッバリバネトメピン	1
28		400-38410	STOP MOTION_LEVER_SPRING	シャダンフレームヒッバリバネ	1
29		400-40940	SCREW_STUD	ネジスタッド	1
30		B2611-373-N00	PRESSURE APPLYING LEVER	クドウブーリ オシツケイタ	1

10. STITCH SELECTING PARTS COMPONENTS

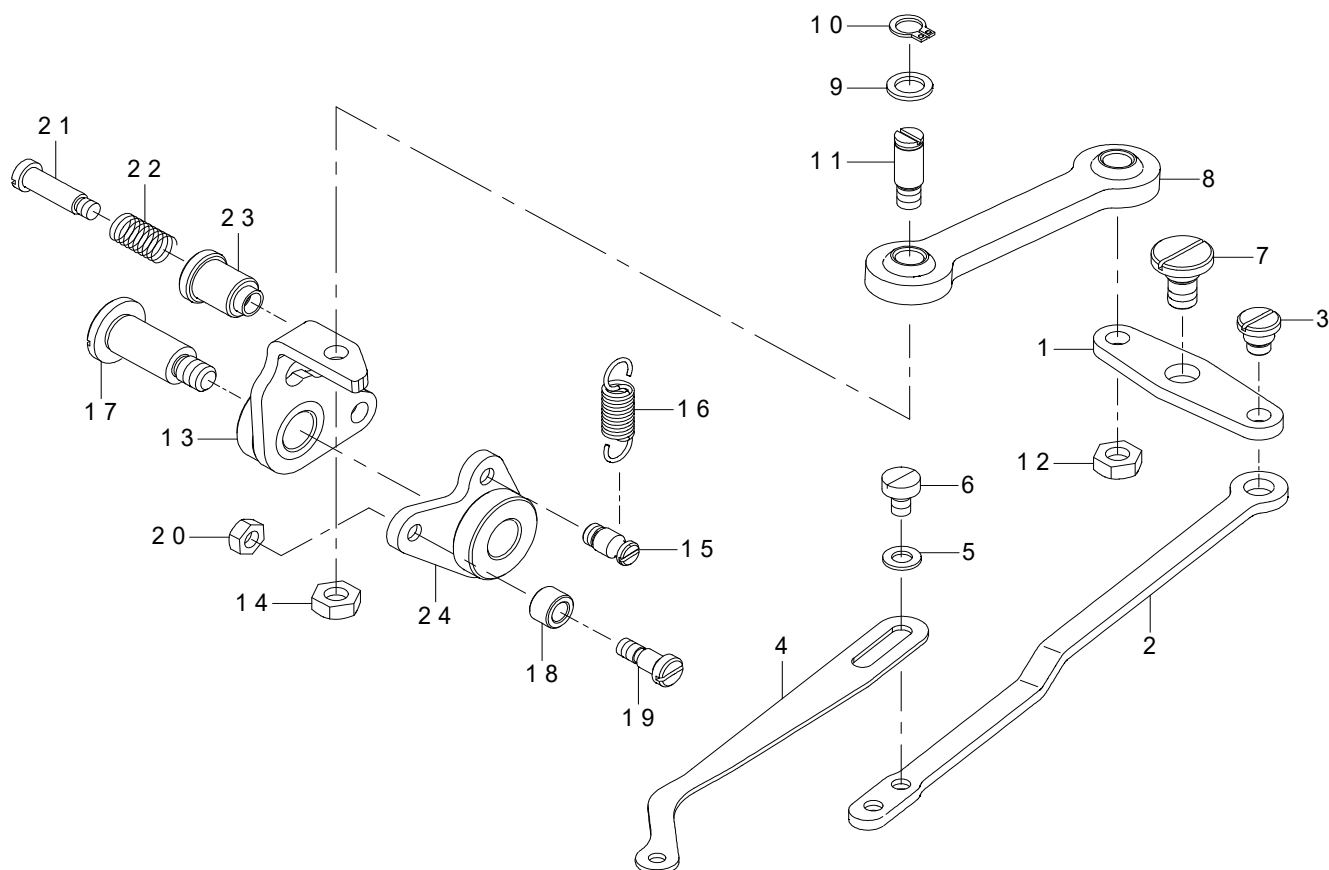
針数調節関係



REF.NO	NOTE	PART NO	DESCRIPTION	品名	Qty
1		SD-1270346-TP	SHOULDER SCREW D=12.7 H=3.4	ダンネジ D=12.7 H=3.4	1
2		260-30304	SPRING FOR FRICTION PLATE	マサツイタヒツバリバネ	1
3		260-30007	FRICTION PLATE ROTATING SHAFT	マサツイタカイテンジク	1
4		WP-0850002-SP	WASHER 8.5X18X1.6	ヒラザガネ 8.5X18X1.6	1
5		260-30908	SPEED SLOWING LEVER	ヨビテイシレバー	1
6		260-31005	FITTING PLATE	ヨビテイシレバートリツケイタ	1
7		260-30106	FRICTION PLATE HOLDER	マサツイタトリツケダイ	1
8		B2640-372-000	SPEED SLOWING FRICTION PLATE	ヨビテーシ マサツイタ	1
9		B3211-232-000	POSITIONING PIN	ウオーム キューユイタ カシメピン	2
10		NS-6110310-SP	NUT 11/64-40	ロツカクナツト 11/64-40	1
11		SD-0710706-TP	SHOULDER SCREW D=7.14 H=7	ダンネジ D=7.14 H=7	1
12		B2629-372-000	STITCH SELECTING SPUR GEAR	ハリカズチョーセツハグルマ (チュー)	1
13		400-40943	INTERMEDIATE_GEAR_SHAFT	チュウカンハグルマジク	1
14		400-40942	ASSY_SPEED_SLOWING_FRICTION_WHEEL	ヨビテイシマサツグルマクミ	1
15		SM-8061010-TP	SCREW	トメネジ M6 L=10	(2)
16		400-40944	SPEED_SLOWING_FRICTION_WHEEL	ヨビテイシマサツグルマ	(1)
17		B2630-372-000-A	GEAR,LARGE	ハリカズチョウセツヨウハグルマ (ダイ)	1
18		B2631-372-000	SCREW	ハリカズ チョーセツ ハグルマ オオネジ	1
19		B2632-372-000-A	ROLLER	ハリカズチョウセツハグルマ (ダイ) コロ	1
20		400-40946	THREAD_BIND_NOTCH	イトムスピノッチ	1
21		260-30809	SPACER	イトムスピノッチスベーサ	1
22		SM-6040560-TP	SCREW M4X0.5 L=4.5	ヒラコネジ M4X0.5 L=4.5	2
23		SM-6050800-SP	SCREW M5 L=8	ヒラネジ M5 L=8	2
24		SD-0800341-SP	HINGE SCREW D=8 H=3.4	ダンネジ D=8 H=3.4	1
25		400-38269	STITCH_ADJUSTING_ARM_ASM.	ハリカズチョウセツウデクミ	1
26		400-38271	STITCH_ADJUSTING_ARM	ハリカズチョウセツウデ	(1)
27		SM-6061602-TN	SCREW M6 L=16	ロツカクアナボルト M6 L=16	(1)
28		260-29207	STITCH ADJUSTING ROLLER	ハリカズチョウセツコロ	1
29		400-41046	STITCH_ADJUSTING_CAM_A_ASSY	ハリカズチョウセツカムAクミ	1
30		400-41054	STITCH_ADJUSTING_CAM_A_ASM.	ハリカズチョウセツカムAケツゴウ	(1)
31		400-41050	NUT	ナツト	(2)
32		400-38304	SCREW	ハリカズ チョーセツイタトメネジ	(1)
33		SM-6040502-TP	SCREW M4X0.7 L=5	ロツカクアナボルト M4 L=5	(1)
34		SS-7090910-TP	SCREW 9/64-40 L=8.5	マルヒラネジ 9/64-40 L=8.5	(2)
35		SM-8060812-TP	SCREW M6 L=8	トメネジ M6 L=8	(2)
36		400-41048	SPACER	スベーサ	(1)
37		400-41049	STITCH_CAM_A	ステッチカムA	(1)
38		400-41051	STOP MOTION CAM SHOE	ストップモーションカムシュー	(1)

11. THREAD BIND NOTCH COMPONENTS(FOR MB-1377)

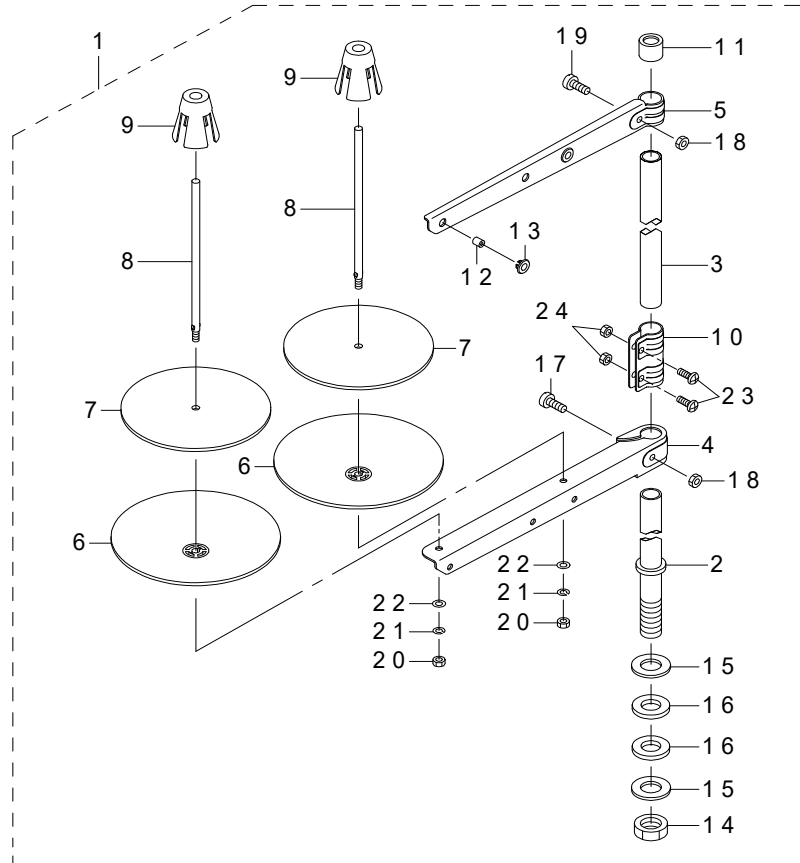
糸結び関係 (MB - 1377用)



REF.NO	NOTE	PART NO	DESCRIPTION	品名	Qty
1		400-38488	THREAD_BIND_LEVER	イトムスピレバー	1
2		400-38452	CONNECTING_PLATE_LARGE	イトムスピレンケツイタダイ	1
3		SD-0640328-TP	SHOULDER SCREW D=6.35 H=3.2	ダンネジ D=6.35 H=3.2	1
4		400-38486	CONNECTING_PLATE_SMALL	イトムスピレンケツイタショウ	1
5		WP-0430800-SD	WASHER M4	ヒラザガネ コガタマル M4	2
6		SM-6040650-TP	SCREW	ヒラネジ M4 L=6	2
7		SD-0720336-SP	SHOULDER SCREW	ダンネジ	1
8		D2509-282-A00	WORK CAMP FOOT BALL LINK	ツマミアシ ボールリンク	1
9		400-38489	THREAD_BIND_LINK_SHAFT	イトムスピリンクジク	2
10		WP-0621026-SP	WASHER 6.2X9.5X1	ヒラザガネ 6.2X9.5X1	2
11		RC-0560711-KP	RETAINING RING	Cガタメワ	2
12		NM-6050001-SP	NUT M5	ロツカクナツト M5X0.8 1シユ	1
13		400-38456	THREAD_BIND_ARM_B	イトムスピウデBケツゴウ	1
14		NM-6050001-SP	NUT M5	ロツカクナツト M5X0.8 1シユ	1
15		400-38494	THREAD_BIND_ARM_SPRING RAC	イトムスピウデバネカケ	1
16		260-17103	SPRING	イトムスピウデバネ	1
17		SD-0901806-TP	SHOULDER SCREW	ダンネジ D=9 H=18	1
18		260-17301	ROLLER	イトムスピコロ	1
19		SD-0460576-TP	SHOULDER SCREW D=4.6 H=5.7	ダンネジ D=4.6 H=5.7	1
20		NM-6040001-SP	NUT M4X0.7	ロツカクナツト M4X0.7 1シユ	1
21		SD-0481456-TP	SHOULDER SCREW D=4.8 H=14.5	ダンネジ D=4.8 H=14.5	1
22		400-38306	SPRING	ハリカズ チョーセツ ツマミバネ	1
23		400-38305	STITCH_ADJUSTING_CAM_KNOB	ハリカズ チョーセツ ツマミ	1
24		400-38455	ASS_THREAD_BIND_ARM_A	イトムスピウデAケツゴウ	1

12. THREAD STAND COMPONENTS

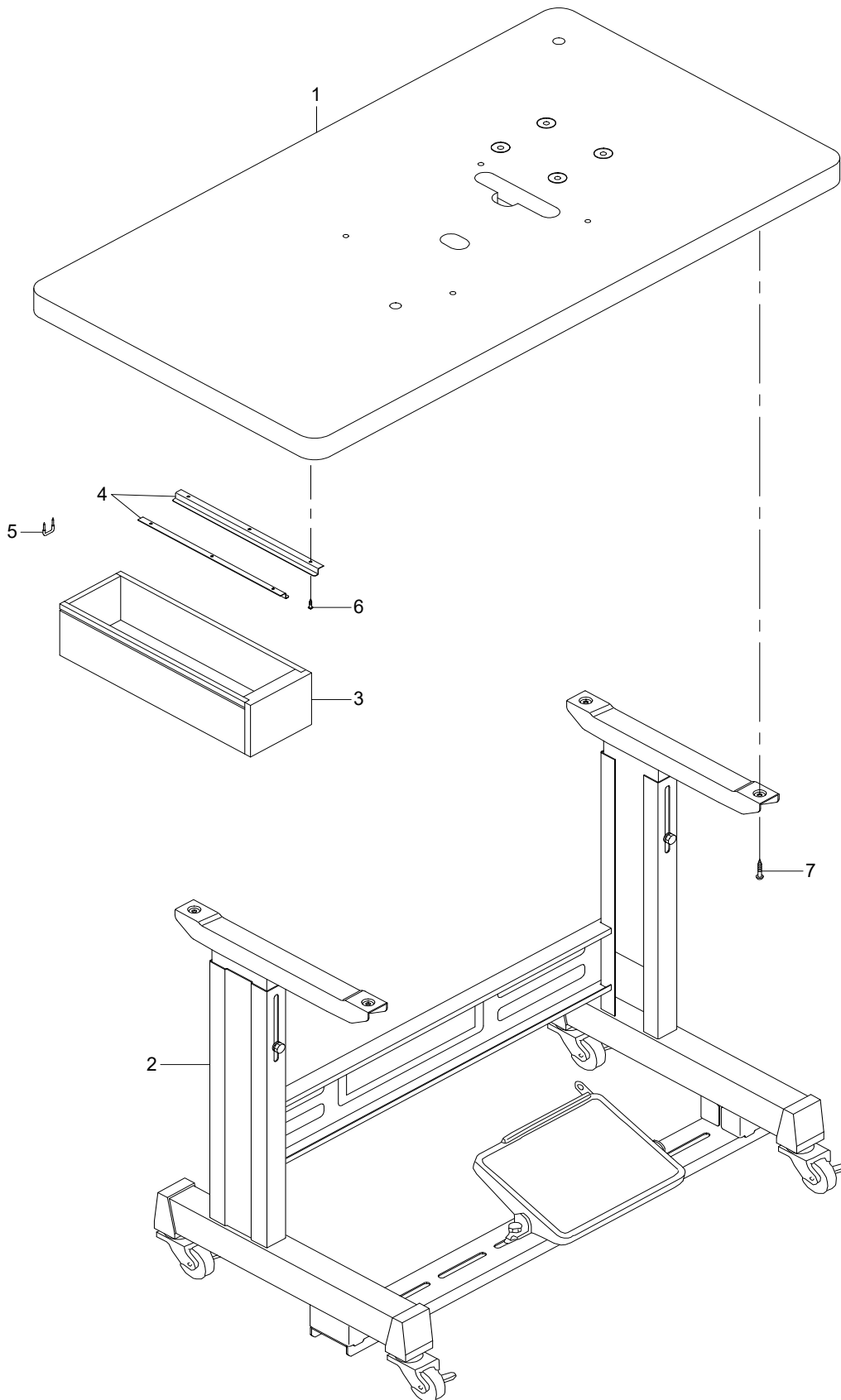
糸立装置関係



REF.NO	NOTE	PART NO	DESCRIPTION	品名	Qty
1		400-96354	THREAD STAND ASM.	糸立装置 (組)	1
2		400-85784	SPOOL REST ROD LOWER	糸立棒 (下)	(1)
3		400-85785	SPOOL REST ROD UPPER	糸立棒 (上)	(1)
4		400-85786	SPOOL REST ARM LOWER	糸立腕 (下)	(1)
5		400-85787	SPOOL REST ARM UPPER	糸立腕 (上)	(1)
6		400-85788	SPOOL REST	糸巻受皿	(2)
7		400-85789	SPOOL REST CUSHION	糸巻受皿クッション	(2)
8		400-85790	SPOOL PIN	糸巻受棒	(2)
9		400-85791	SPOOL RETAINER	糸巻振れ止め	(2)
10		400-85792	SPOOL REST ROD JOINT	糸立棒継手	(1)
11		400-85793	SPOOL REST ROD RUBBER CAP	糸立棒保護キャップ	(1)
12		400-85794	THREAD GUIDE	糸道	(2)
13		400-85795	THREAD GUIDE BUSHING	糸道ブッシュ	(2)
14		400-96325	SPOOL REST ROD NUT	糸立棒止ナット	(1)
15		WP-1612616-SE	WASHER 16X30X2.6	平座金	(2)
16		400-85796	SPOOL REST ROD RUBBER CUSHION	糸立棒防振ゴム	(2)
17		400-96326	SPOOL REST ARM LOWER SCREW	糸立腕 (下) 止めねじ	(1)
18		NM-6050001-SE	NUT M5	六角ナット M5	(2)
19		400-96327	SPOOL REST ARM UPPER SCREW	糸立腕 (上) 止めねじ	(1)
20		NM-6050001-SE	NUT M5	六角ナット M5	(2)
21		WS-0510002-KN	SPRING WASHER M5	ばね座金 M5	(2)
22		WP-0531001-SC	WASHER M5	平座金みがき丸 M5	(2)
23		SM-4051405-SE	SCREW M5 L=14	なべ小ねじ M5 L=14	(2)
24		NM-6050001-SE	NUT M5	六角ナット M5	(2)

13. TABLE & STAND COMPONENTS

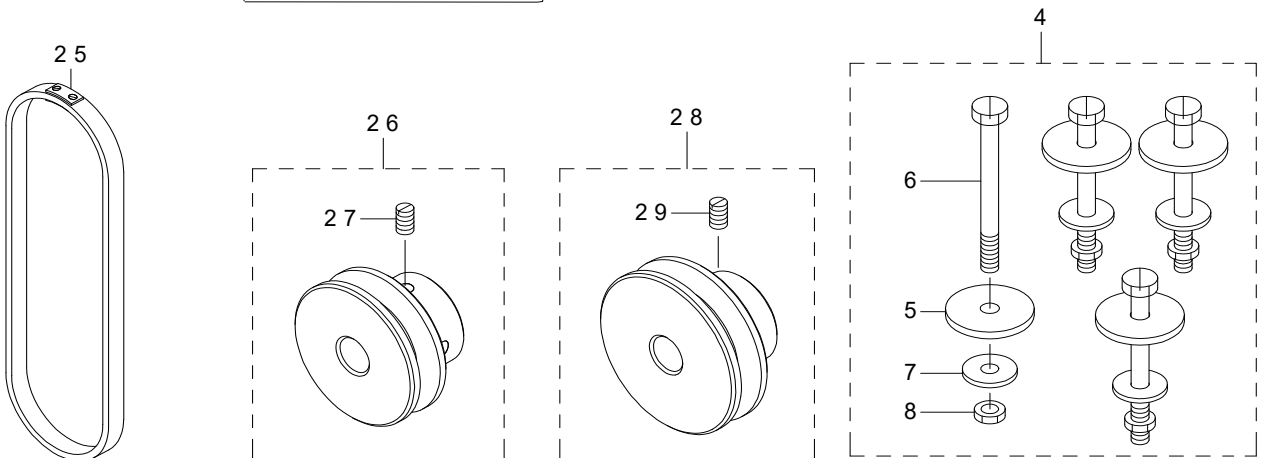
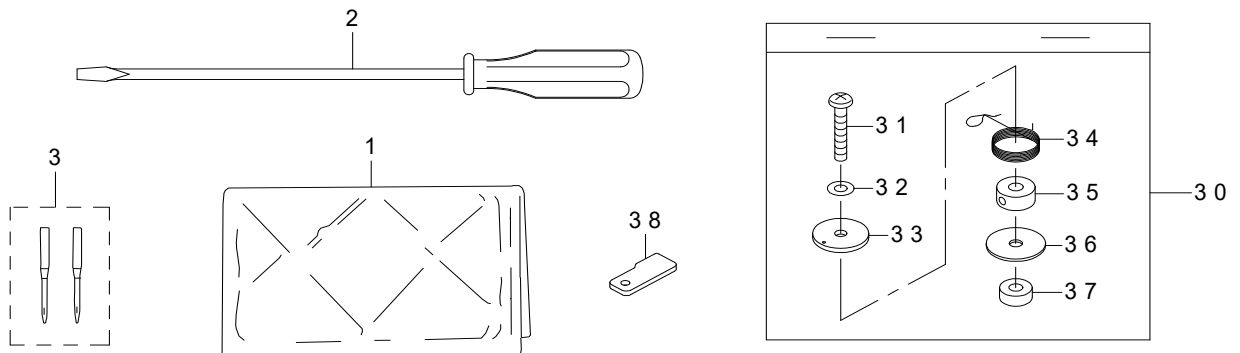
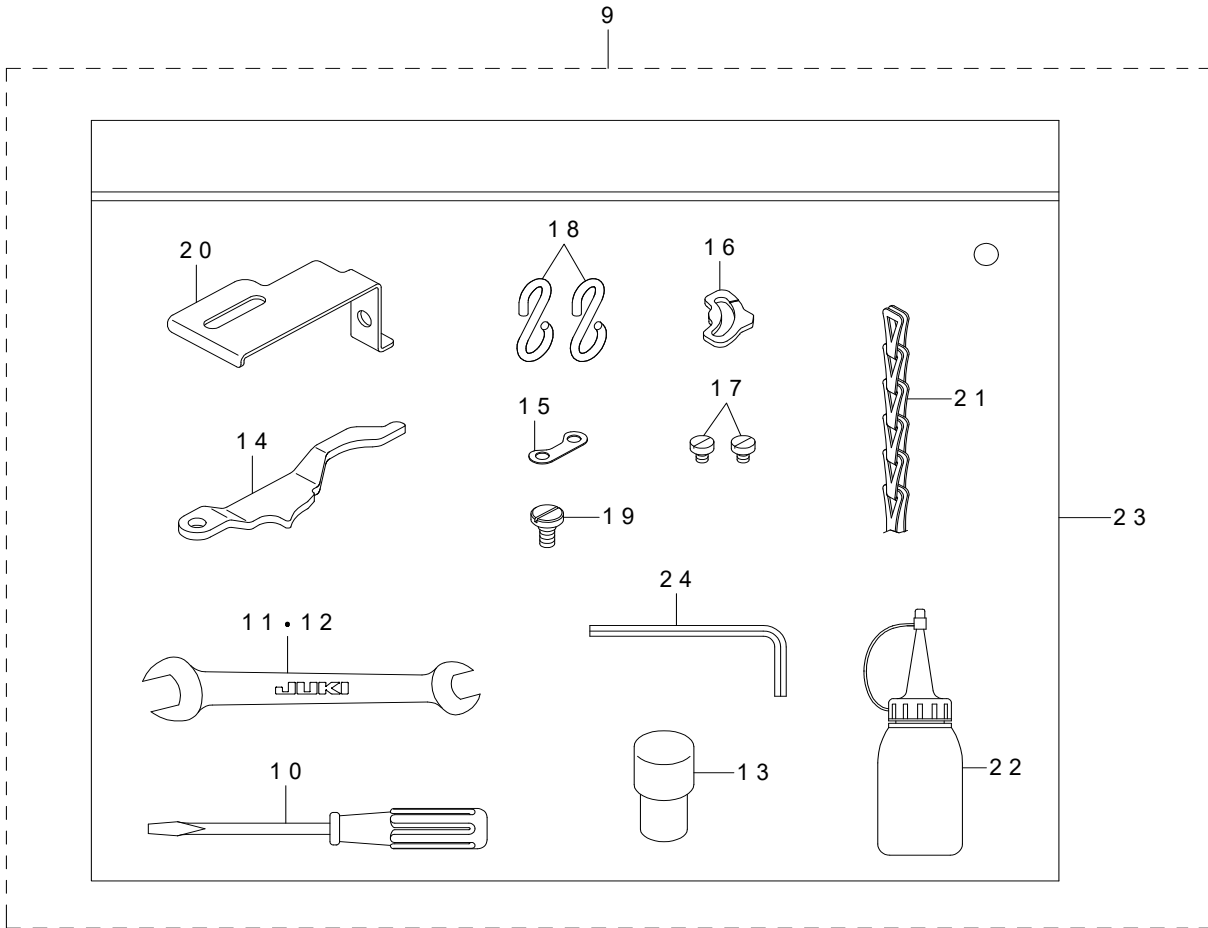
脚卓関係



REF.NO	NOTE	PART NO	DESCRIPTION	品名	Qty
1		400-40971	TABLE	テーブル	1
2		111-59365	T STAND JUNCTION	Tキヤクケツゴウ	1
3		111-55108	DRAWER	ヒキダシ	1
4		111-55207	DRAWER SUPPORT	ヒキダシ ササエ	2
5		D8204-555-D00	DRAWER STOPPER	ヒキダシストッパー	1
6		SK-3311600-SE	WOOD SCREW D=3.1 L=16	モクネジ D=3.1 L=16	6
7		SK-3483200-SE	WOOD SCREW D=4.8 L=32	マルモクネジ D=4.8 L=32	4

14. ACCESSORIE PARTS COMPONENTS

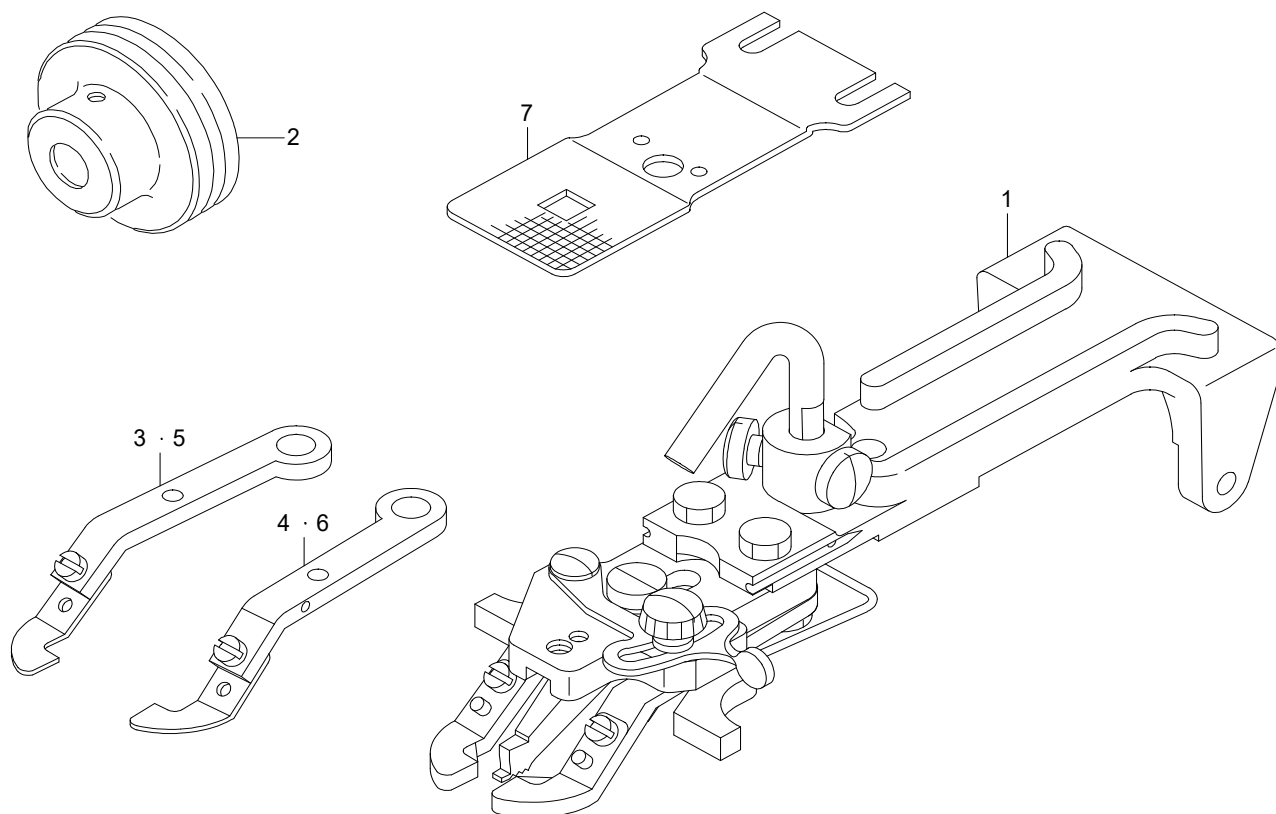
付属品関係



REF.NO	NOTE	PART NO	DESCRIPTION	品名	Qty
1		229-33303	VINYL COVER	トウブビニールカバー	1
2		229-33006	SCREW DRIVER,LARGE	ドライバー (ダイ)	1
3		MTQ-700B1802	NEEDLE TQX7#18-2	T Q X 7 # 1 8 - 2	1
4		400-41072	BASE_SCREW_SET	ベッドトリツケダイネジセット	1
5		400-38174	RUBBER_CUSHION	ボウシンゴム	(4)
6		SS-9156830-SP	SCREW 15/64-28 L=68	ロツカクボルト 15/64-28 L=68	(4)
7		WP-0612056-SD	WASHER 6.1X18.5X2	ヒラザガネ 6.1 X 18.5 X 2	(4)
8		NS-6150310-SP	NUT 15/64-28	ロツカクナツト 15/64-28	(4)
9		400-41073	ACCESSORIE_BAG_ASM.	フゾクヒンバッグミ	1
10		229-33105	SCREW DRIVER,MIDDLE	ドライバー (チユウ)	(1)
11		262-33700	WRENCH	リョウグチスパナ	(1)
12		260-34801	WRENCH	リョウグチスパナ (ショウ) 7 X 8	(1)
13		400-33327	FRAME_SUPPORT_BAR	トウブササエボウ	(1)
14		400-38459	STITCH_NUMBER_LEVER	ハリカズショウセツレバー	(1)
15		260-30809	SPACER	イトムスピノツチスパーサ	(1)
16		400-40946	THREAD_BIND_NOTCH	イトムスピノツチ	(1)
17		SM-6040560-TP	SCREW M4X0.5 L=4.5	ヒラコネジ M4 X 0.5 L=4.5	(2)
18		131-60304	S SHAPED HOOK	S ガタカナグ	(2)
19		SD-0600346-TP	SHOULDER SCREW D=6 H=3.4	ダンネジ D=6 H=3.4	(1)
20		400-38205	NEEDLE_BAR_GUARD	ハリボウカバー	(1)
21		260-37903	CHAIN	クサリ	(1)
22		J1067-000-000	OILER	アブラサシ	(1)
23		229-32800	ACCESSORIE BAG	フゾクヒンバッグ	(1)
24		400-55591	HEXAGONAL WRENCH KYE	ロツカクボウスパナ3	(1)
25		MTJ-VM00000C	V ROPE 900MM (LACING)	V ロープ 900MM (レーシングツキ)	1
26		400-38286	MOTOR_PULLEY_60HZ_1300RPM_ASM.	モータープーリー_60HZ_1300RPM組	1
27		SM-8061010-TP	SCREW	トメネジ M6 L=10	(2)
28		400-38285	MOTOR_PULLEY_50HZ_1300RPM_ASM.	モータープーリー_50HZ_1300RPM組	1
29		SM-8061010-TP	SCREW	トメネジ M6 L=10	(2)
30		401-12426	THREAD_TENSION_NO3_ASSY	糸取り第三糸調子 (組)	1
31		SM-4042501-SC	SCREW M4X0.7 L=25	ナベコネジ M4 X 0.7 L=25	(1)
32		WP-0430801-SE	WASHER 4.3X9X0.8	ヒラザガネ ミガキマル M4	(1)
33		401-12427	SPRING_BASE	座金	(1)
34		B3105-377-B00	THREAD TAKE-UP SPRING	イトトリバネ	(1)
35		400-40243	SPRING_HOOK	バネカケ	(1)
36		WP-0451016-SP	WASHER 4.5X20X1	ヒラザガネ 4.5 X 20 X 1	(1)
37		D2063-772-B00	LOCKING CAM PLATE HOLDER	シンヒモキリメス コテイカムダイ	(1)
38		400-41085	GAUGE	ドウムスイチアワセゲージ	1

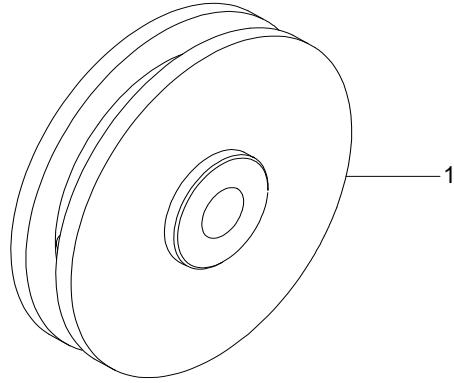
15. SPECIAL ORDER SPEC COMPONENTS

特別仕様関係



REF.NO	NOTE	PART NO	DESCRIPTION	品名	Qty
1		MAZ-201010A0	PICK-UP DEVICE ASM. L BUTTON	ダイボタンヨウツマミソウチ (ケツゴウ)	1
2		400-38290	MOTOR_PULLEY_50HZ_1500RPM_ASM	モータープーリー_50HZ_1500RPMクミ	1
3		B2556-372-0AA	BUTTON CLAMP JAW LEVER ASM., L	シヨ-ボタンヨ- ツマミアシ ヒダリ クミ	1
4		B2558-372-0AA	BUTTON CLAMP JAW LEVER ASM., R	シヨ-ボタンヨ- ツマミアシ ミギ クミ	1
5		D2556-372-CAA	BUTTON CLAMP JAW LEVER ASM., L	ダイボタンヨ- ツマミアシ ヒダリ クミ	1
6		D2558-372-CAA	BUTTON CLAMP JAW LEVER ASM., R	ダイボタンヨ- ツマミアシ ミギ クミ	1
7		D2529-373-C00-A	FEED PLATE, LARGE BUTTON	ヌノオサエシタイタ (ダイボタン)	1

16. SUBCLASS COMPONENTS(FOR MB-1373-11)
サブクラス関係 (MB - 1373-11用)



REF.NO	NOTE	PART NO	DESCRIPTION	品 名	Qty
1		400-41032	LENGTHWISE_FEED_CAM(X)	ゼンゴオクリカム (X)	1

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B1203-372-000	13	1	NM-6050001-SP	17	14	SM-6040600-SP	4	59	WP-0430800-SD	17	5
B1208-372-000	13	14	NM-6060001-CP	2	26	SM-6040650-TP	8	5	WP-0430801-SE	22	32
B1215-372-A00	6	39	NM-6060001-CP	2	31	SM-6040650-TP	17	6	WP-0450801-SP	8	20
B1215-372-B00	13	26	NM-6060001-CP	8	33	SM-6040800-SP	6	4	WP-0450801-SP	8	36
B1217-372-0BA	13	30	NM-6060001-CP	10	6	SM-6040800-SP	8	19	WP-0450846-SP	8	54
B1220-372-000	6	44	NM-6060001-CP	15	16	SM-6040800-SP	8	24	WP-0451016-SP	22	36
B1221-373-NA0	6	41	NM-6060001-SE	8	56	SM-6040800-SP	8	35	WP-0501016-SD	2	5
B1221-373-N00	6	42	NM-6060003-SP	13	25	SM-6041200-SP	14	6	WP-0501016-SD	8	60
B1224-372-0A0	6	37	NM-6060003-SP	15	2	SM-6050800-SP	4	21	WP-0501016-SD	10	30
B1239-372-000	6	46	NM-6080021-SP	12	44	SM-6050800-SP	10	61	WP-0510516-SD	12	41
B1241-377-0A0	6	15	NS-6110310-SP	16	10	SM-6050800-SP	16	23	WP-0531001-SC	18	22
B1241-377-0B0	6	14	NS-6150310-SP	12	49	SM-6051400-SP	8	51	WP-0550800-SP	8	49
B1243-372-000	13	9	NS-6150310-SP	15	14	SM-6051600-SP	12	32	WP-0612056-SD	22	7
B1632-180-000	12	40	NS-6150310-SP	22	8	SM-6060550-TP	13	21	WP-0612066-SP	15	19
B2406-373-0A0	6	20	NS-6620310-SP	12	48	SM-6061002-TP	12	37	WP-0621026-SP	13	13
B2410-373-000	6	18	NS-6680410-SP	15	10	SM-6061150-TP	15	4	WP-0621026-SP	17	10
B2506-373-000-A	10	49				SM-6061602-TN	16	27	WP-0703516-SP	12	12
B2529-373-000	10	1	PS-0300162-KH	8	34	SM-6062450-TP	13	12	WP-0751576-SD	12	7
B2541-372-000	2	30	PS-0500102-KH	4	50	SM-6083042-CH	4	19	WP-0751576-SD	12	9
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B2558-372-0AA	23	4	RC-0560711-KP	17	11	SM-7051460-TP	12	54	WP-0850002-SP	16	4
B2608-280-000	15	8	RE-0200000-K0	4	13	SM-8040612-TP	13	7	WP-0851216-SC	12	4
B2611-373-N00	15	30	RE-0320000-K0	4	51	SM-8060552-TP	10	57	WP-0851216-SC	12	6
B2629-372-000	16	12				SM-8060610-TP	4	25	WP-1612616-SE	18	15
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B2703-377-0A0	6	16	SD-0600095-TH	6	21	SM-8061010-TP	6	13	111-55207	20	4
B3105-377-B00	22	34	SD-0600277-TP	4	36	SM-8061010-TP	6	31	111-59365	20	2
B3211-232-000	16	9	SD-0600346-TP	22	19	SM-8061010-TP	12	28	131-60304	15	26
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			SD-0640391-TP	2	18	SM-8061212-TP	10	18	229-24906	15	25
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CM-5002000-01	13	22	SD-0640481-SP	10	22	SM-8081752-TP	13	24	229-33006	22	2
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CQ-2500000-F0	14	25	SD-0640486-TP	10	53	SM-9061003-CP	15	21	229-33303	22	1
CQ-2520000-00	10	64	SD-0640486-TP	10	46	SM-9061250-TP	15	24	260-00455	8	16
CQ-2520000-00	10	67	SD-0640976-TP	10	46	SM-9061403-CP	8	55	260-00950	8	6
CQ-3000000-F0	10	65	SD-0641322-TP	12	56	SM-9061403-CP	14	13	260-03103	6	23
CS-079072A-TH	6	1	SD-0680276-TP	15	15	SS-2110920-TP	14	17	260-05207	8	30
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D2558-372-CAA	23	6	SD-0901806-TP	17	17	SS-8110310-SP	6	29	260-13607	6	6
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			SK-3483200-SE	20	7	SS-8150410-TP	6	27	260-15503	6	26
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			SM-1040950-TP	6	7	SS-8660612-TP	6	38	260-17301	17	18
MAZ-201010A0	23	1	SM-4040655-SP	4	47	SS-8660612-TP	6	45	260-17707	14	3
MTJ-VM00000C	22	25	SM-4040655-SP	10	42	SS-8660612-TP	14	21	260-18101	12	2
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			SM-4040855-SP	4	34	SS-8681412-TP	10	60	260-18408	14	19
NM-6030001-SN	8	4	SM-4042501-SC	22	31	SS-9120643-TP	10	2	260-18507	14	20
NM-6040001-SP	17	20	SM-4050855-SP	10	43	SS-9156830-SP	22	6	260-18606	14	18
NM-6040002-SN	8	45	SM-4051405-SE	18	23	SS-9621413-SP	2	4	260-18705	14	15
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260-19901	8	28	400-38118	15	3	400-38463	10	20	400-55591	22	24
260-20107	8	29	400-38119	12	1	400-38469	10	31	400-85784	18	2
260-20206	8	17	400-38120	14	8	400-38471	4	43	400-85785	18	3
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260-20503	8	7	400-38135	13	16	400-38482	6	25	400-85788	18	6
260-20602	8	5	400-38136	13	17	400-38483	4	23	400-85789	18	7
260-21105	8	57	400-38137	13	15	400-38484	6	5	400-85790	18	8
260-21402	8	44	400-38138	13	18	400-38486	17	4	400-85791	18	9
260-21600	4	3	400-38139	13	19	400-38488	17	1	400-85792	18	10
260-21709	12	55	400-38140	13	20	400-38489	17	9	400-85793	18	11
260-22202	12	39	400-38142	14	7	400-38492	8	9	400-85794	18	12
260-22400	10	59	400-38160	15	22	400-38494	17	15	400-85795	18	13
260-22509	10	50	400-38169	13	5	400-38495	12	53	400-85796	18	16
260-22608	4	27	400-38173	4	35	400-38496	10	17	400-87058	15	18
260-22707	4	28	400-38174	22	5	400-38498	10	7	400-96325	18	14
260-23200	10	13	400-38175	13	6	400-38499	10	9	400-96326	18	17
260-24208	10	10	400-38203	13	3	400-38502	12	36	400-96327	18	19
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260-25502	2	6	400-38219	12	43	400-40940	15	29			
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260-26708	2	20	400-38306	17	22	400-40962	12	16			
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260-27805	15	1	400-38321	12	19	400-41022	4	26			
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260-30007	16	3	400-38400	6	10	400-41032	10	48			
260-30106	16	7	400-38403	6	11	400-41032	24	1			
260-30304	16	2	400-38404	8	38	400-41033	10	51			
260-30601	15	9	400-38405	8	42	400-41044	10	63			
260-30809	16	21	400-38408	8	39	400-41045	10	62			
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260-30908	16	5	400-38413	12	31	400-41046	16	29			
260-31005	16	6	400-38414	12	30	400-41048	16	36			
260-31203	4	6	400-38424	4	37	400-41049	16	37			
260-31302	4	8	400-38425	4	30	400-41050	16	31			
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260-33704	4	20	400-38442	10	44	400-41072	22	4			
260-34801	22	12	400-38444	10	47	400-41073	22	9			
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262-29104	15	6	400-38448	15	11	400-41106	6	22			
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			400-38452	17	2	400-42148	13	29			
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